



2004-2006

**University of
St. Thomas**

**Undergraduate
Catalog**



UNIVERSITY of ST. THOMAS

University of St. Thomas

**2115 Summit Avenue
St. Paul, Minnesota 55105**

Undergraduate Catalog

2004-2006

Telephone

651-962-5000 or 800-328-6819

Website

www.stthomas.edu

Notice

This catalog is accurate to the best of our knowledge and ability at the time of publication, but is subject to change.

Additions and changes to the catalog are available on the Web.

With the exception of changes explicitly affecting students entering under this catalog, the printed version remains the “official” catalog.

It is the student’s responsibility to know and meet graduation requirements and academic policy.

Affirmative Action Statement

The University of St. Thomas does not discriminate on the basis of race, color, creed, religion, ancestry, national origin, sexual orientation, disability, age, marital status, or status with regard to public assistance in the employment of faculty or staff, the admission or treatment of students, or in the operation of its educational programs and activities.

As permitted by applicable statutes and regulations, the university reserves the right to consider gender as one factor in its undergraduate admissions policy in order to effect a desired balance in the proportionate representation of sexes in the student body.

Academic Calendar 2004-2005

Fall Semester 2004

September 8	Classes begin
September 14	Last day to register or add a class
September 21	Last day to drop a class without notation on record
October 13	Last day to designate grading option (S-D-R)
October 29	Fall semester break
November 1	2nd half-semester classes begin
November 1	Mid-term grades due
Nov. 15 - Dec. 3	January term and spring semester registration
November 17	Last day to withdraw from a class without a grade of "F"
November 25 - 26	Thanksgiving recess
November 29	Classes resume
December 1	Incompletes due from spring semester and summer sessions
December 1	1st half-semester grades due
December 10	Last day of classes
December 13	Study Day
December 14 - 17	Final examinations
December 17	Winter commencements
January 3	Final grades due

January Term 2005

January 3	Classes begin
January 7	Last day to register or add a class
January 7	Last day to drop a class without notation on record
January 12	Last day to designate grading option (S-D-R)
January 17	Martin Luther King Holiday
January 18	Last day to withdraw from a class without a grade of "F"
January 27	Last day of classes/examinations
February 4	January term grades due

Spring Semester 2005

January 31	Classes begin
February 4	Last day to register or add a class
February 11	Last day to drop a class without notation on record
March 7	Last day to designate grading option (S-D-R)
March 21 - 28	Easter/Spring semester break
March 29	Classes resume
March 29	2nd half-semester classes begin
March 29	Mid-term grades due
April 8	Last day to withdraw from a class without a grade of "F"
April 18 - 29	Early registration for summer sessions and fall semester
May 2	Incompletes due from fall semester and January term
May 2	1st half-semester grades due
May 13	Last day of classes
May 16	Study Day
May 17 - 20	Final examinations
May 20	Commencement Mass
May 21	Spring commencements
May 31	Final grades due

Summer Sessions 2005

May 25 - July 6	First summer session
May 25 - July 20	Extended session
May 25 - August 18	Double session
July 11 - August 18	Second summer session

Fall Semester 2005

September 7	Classes begin
September 13	Last day to register or add a class
September 13	Last day to drop a class without notation on record
October 12	Last day to designate grading option (S-D-R)
October 28	Fall semester break
October 31	2nd half-semester classes begin
October 31	Mid-term grades due
November 16	Last day to withdraw from a class without a grade of "F"
Nov. 14 - Dec. 2	January term and spring semester registration
November 24-25	Thanksgiving recess
November 28	Classes resume
December 1	Incompletes due from spring semester and summer sessions
December 1	1st half-semester grades due
December 16	Last day of classes
December 19	Study Day
December 20-23	Final examinations
December 23	Winter commencements
January 2	Final grades due

January Term 2006

January 2	Classes begin
January 6	Last day to register or add a class
January 6	Last day to drop a class without notation on record
January 11	Last day to designate grading option (S-D-R)
January 15	Martin Luther King Holiday
January 17	Last day to withdraw from a class without a grade of "F"
January 26	Last day of classes/examinations
February 3	January term grades due

Spring Semester 2006

January 30	Classes begin
February 3	Last day to register or add a class
February 10	Last day to drop a class without notation on record
March 6	Last day to designate grading option (S-D-R)
March 20-24	Spring semester break
March 27	Classes resume
March 27	2nd half-semester classes begin
March 27	Mid-term grades due
April 7	Last day to withdraw from a class without a grade of "F"
April 14-17	Easter break
April 18	Classes resume
April 18 - April 28	Early registration for summer sessions and fall semester
May 1	Incompletes due from fall semester and January term
May 1	1st half-semester grades due
May 12	Last day of classes
May 15	Study Day
May 16-19	Final examinations
May 19	Commencement Mass
May 20	Spring commencements
May 30	Final grades due

Summer Sessions 2006

May 24 - July 6	First summer session
May 24 - July 20	Extended session
May 24 - August 17	Double session
July 10 - August 17	Second summer session

Table of Contents

Calendars	2
General Information	10
Admission Information	13
Student Financial Services	18
Academic Information	22
Requirements for Degree	25
Registration Information	32
Academic Honors	37
Academic Support Programs	38
Student Life	39
Student Services	41
Facilities	44
Cross-College Courses and Programs	47
Generic Courses	47
Interdisciplinary Courses	49
International and Off-Campus Programs	52
Study Abroad Programs	52
Higher Education Consortium for Urban Affairs	54
Superior Studies at Wolf Ridge	55
Washington Semester	55
Pre-Professional Programs	56
Special Programs	59
College of Arts and Sciences	
Department of Aerospace Studies	60
Department of Art History	62
Department of Biology	67
Department of Catholic Studies	74
Department of Chemistry	77
Department of Communication Studies	82
Department of Economics	87
Department of English	92
Department of Geography	100
Department of Geology	103
Department of Health and Human Performance	107
Department of History	115
Department of Journalism and Mass Communication	121

Department of Mathematics	127
Department of Modern and Classical Languages	132
Department of Music	144
Department of Philosophy	156
Department of Physics	160
Department of Political Science	164
Department of Psychology	168
Department of Quantitative Methods & Computer Science	174
Department of Sociology and Criminal Justice	179
Department of Theater	184
Department of Theology	188
College of Arts and Sciences Interdisciplinary Programs	
Actuarial Science	198
American Cultural Studies	199
Biochemistry	201
Classical Civilization	202
East Asian Studies	203
Environmental Studies	204
Family Studies	206
International Studies	207
Justice and Peace Studies	208
Legal Studies	212
Literary Studies	213
Middle East Studies	213
Renaissance Program	215
Russian, Central and East European Studies	216
Social Sciences	217
Urban Studies	218
Women’s Studies	218
College of Business	222
Department of Accounting	226
Department of Entrepreneurship	227
Department of Finance	229
Department of Legal Studies in Business	233
Department of Management	234
Department of Marketing	240

Table of Contents – Majors and Minors

School of Education

Department of Teacher Education	242
Department of Special Education	263
School of Engineering	264
School of Social Work	271
Chemical Dependency Counseling Program	274
Organization and Personnel	277
University Faculty	282
Retired Faculty	305
Index	308

Majors and Minors

Accounting	226
Actuarial Science (B.S.)	198
Advertising (Journalism and Mass Communication)	122
Aerospace Studies (minor only)	60
American Cultural Studies (minor only)	199
Art History	62
Behavioral Neuroscience (Psychology)	169
Biochemistry (B.S.)	201
Biology	67
Biology (Life Science teacher licensures)	246, 255
Broadcast Journalism	122
Business Administration (minor)	224
Business Communication	234
Catholic Studies	74
Chemical Dependency Counseling	274
Chemistry	77
Chemistry (B.S.)	78
Chemistry (teacher licensures)	246, 253
Classical Civilization	202
Classical Languages	132
Communication Studies	82
Communication (Communication Arts and Literature teacher licensures)	243, 248
Community Health Education	107

Table of Contents – Majors and Minors

Criminal Justice	180
Dance and Theatre Arts – Theatre Specialization (teacher licensure)	249
East Asian Studies [ACTC]	203
Economics	87
Economics (B.S.)	88
Electrical Engineering (B.S.E.E.)	264
Electronic Music Production (minor only)	147
Elementary Education	243
Engineering (minor)	266
English	92
English – Writing	93
English (Communication Arts and Literature teacher licensures)	243, 248
Entrepreneurship	227
Environmental Studies	204
Family Studies (minor only)	206
Film (Theater) (minor only)	185
Financial Management	229
French	135
French (teacher licensures)	247, 258
General Business Management	222
Geographic Information Systems	100
Geography	100
Geology	103
Geology (Earth and Space Science teacher licensures)	246, 254
German	137
German (teacher licensures)	247, 258
Greek (minor only)	134
Health Education – Non-Licensure	109
Health Education (teacher licensure)	250
Health Promotion (B.S.)	108
Health Promotion – Science (B.S.)	108
History	115
Human Resource Management	235
International Business	223
International Business – French Intensive	139

Table of Contents – Majors and Minors

International Business – German Intensive	139
International Business – Spanish Intensive	139
International Studies	207
Japanese (minor only)	140
Jazz Studies (minor only)	147
Justice and Peace Studies	208
Latin	133
Leadership and Management	236
Legal Studies (minor only)	212
Legal Studies in Business	233
Literary Studies	213
Liturgical Music	145
Marketing Management	240
Mathematics	127
Mathematics (teacher licensures)	244, 250
Mechanical Engineering (B.S.M.E.)	265
Media Studies (Journalism and Mass Communication)	122
Middle East Studies [ACTC] (minor only)	213
Music	144
Music Business	146
Music Education (teacher licensures)	251
Operations Management	237
Philosophy	156
Physical Education (teacher licensure)	253
Physics	160
Physics (B.S.)	161
Physics (teacher licensures)	246, 256
Political Science	164
Print Journalism	121
Psychology	168
Public Relations (Journalism and Mass Communication)	122
Quantitative Methods and Computer Science	174
Quantitative Methods and Computer Science – Business (minor only)	175
Quantitative Methods and Computer Science – Mathematics (minor only)	175
Quantitative Methods and Computer Science – Science (minor only)	175

Table of Contents – Majors and Minors

Real Estate Studies (B.S.) (Finance)	230
Renaissance Program (minor only)	215
Russian	141
Russian, Central and East European Studies [ACTC]	216
Science and Mathematics for Elementary Education	245
Secondary Education	248
Social Sciences	217
Social Studies (teacher licensures)	247, 257
Social Welfare (minor only)	272
Social Work	271
Sociology	179
Spanish	142
Spanish (teacher licensure)	247, 258
Theater	184
Theater History - Theory-Criticism (minor only)	185
Theater Performance (minor only)	185
Theology	188
Urban Studies (minor only)	218
Visual Communication (Journalism and Mass Communication) (minor only)	123
Women’s Studies [ACTC]	218



General Information

Mission

The University of St. Thomas is a comprehensive, coeducational, Catholic university. It seeks to develop morally responsible individuals who combine career competency with cultural awareness and intellectual curiosity. In its undergraduate program, the university is committed to the development of the student through a liberal arts education within the living Catholic tradition and through a high degree of personal attention in a spiritually and intellectually stimulating campus environment. Graduate programs emphasize the integration of theory with practice, enhance the professional competence and ethical judgment of their students, and foster personal growth and an appreciation of lifelong learning. In all of its academic programs and other educational enterprises, the university is committed to meeting the diverse, changing needs of the community. Throughout, the university fosters in the student a tradition of service to the public welfare and an energetic, thoughtful approach to the challenges of contemporary life.

Convictions

1. The University of St. Thomas is a Catholic, diocesan university, founded on belief in God and commitment to a life of worship leading to active participation in the mission of Christ and the Church to the world. In that context and as an important part of its religious witness, the university welcomes and respects faculty, staff and students who do not share this faith tradition. The Catholic tradition fosters a value-oriented education needed for complete human development and for responsible citizenship in contemporary society.
2. The university's educational program provides a liberal arts education as well as education for a career. It strives to give a student a foundation for clear thinking and expression; a sufficient understanding to read intelligently in fields with which an educated person ought to be acquainted; and proficiency in an area of specialization.
3. The university's curriculum emphasizes a search for and discovery of truth and judgments of value as well as preserving and transmitting enduring truths and values.
4. The university seeks to create an international perspective among its students including an appreciation of cultural diversity.
5. The university strives to anticipate and respond appropriately to changes in its environment.
6. The university emphasizes excellence in teaching. It also is committed to scholarship and encourages service to the university and broader community throughout its faculty.
7. The university welcomes diversity among its students with respect to age and intellectual talents, financial resources, and credal, racial, and geographic characteristics.
8. The university fosters the total development of the student through close interaction with faculty, staff and other students within a supportive campus environment.

9. The university's metropolitan setting challenges it to participate in community life and to develop innovative programs for persons of all ages within the community.
10. The university, through its educational programs, student services, and other resources, assists its students in the transition to further education and employment.
11. The university cultivates lifelong personal contact and communication with its friends and former students.
12. The university embraces its role in independent liberal arts education because diversity is essential to the health of our educational system, to our national life, and to our responsibilities in the world community.

Within this context, the objectives of the undergraduate curriculum are: liberal learning, moral and ethical development, and career preparation.

Undergraduate Vision Statement

The university's mission and convictions and our objectives for undergraduate education provide the framework for the Undergraduate Vision Statement, which was endorsed by the College Faculty Senate in December 1995.

The strengths of the undergraduate program are embodied in four commitments:

1. A commitment to the Catholic identity that informs its liberal and professional education;
2. A commitment to a common liberal arts foundation that serves as the core of the education in which all St. Thomas undergraduates participate;
3. A commitment to the integration of the liberal arts and career preparation, fostering in students a dedication to work for the common good;
4. A commitment to the underlying unity of the human person with an emphasis on the spiritual, intellectual, ethical and social development of all students.

These commitments are manifested in the following features of the undergraduate program:

- a. A strong core curriculum for all students that exposes them to enduring, transcultural human truths, provides for multicultural exploration, and encourages integration that crosses disciplinary boundaries;
- b. A comprehensive and strong set of major and minor fields that meet the increasing demands of career competency and interdisciplinary development, while maintaining a common liberal arts core curriculum;
- c. An energetic, expert and diverse faculty who show their concern for the total development of students through extensive time and effort spent with them, and through their eagerness to involve students in the work of their fields through joint research projects, practicums, and service to the community;
- d. A faculty who model for students a love of learning through continual efforts to enhance

teaching effectiveness, ongoing professional engagement, and collaboration with their colleagues in teaching, research and other program initiatives;

- e. A faculty who demonstrate a commitment to service through their willingness to serve as role models for students, demonstrating that compassion for others and lifelong dedication to service are ordinary aspects of being an educated, responsible citizen;
- f. A strong support and professional staff throughout the university committed to fostering the social, spiritual, and intellectual development of students through co-curricular activities, with a special focus on cultivating leadership ability.

As it looks to the future, the undergraduate program seeks to maintain these distinctive manifestations of its key commitments and to:

- a. Build on the strengths of our Catholic identity by promoting dialogue between faith and reason and by enabling students to acquire an organic vision of reality which integrates faith and secular learning;
- b. Increase efforts to cross departmental and disciplinary boundaries in order to enhance further the integration of liberal arts and professional education, faith and practice, principles and techniques, and education and service;
- c. Emphasize more the preparation of students for a life of service in an increasingly diverse world through the development of integrated service learning opportunities for students;
- d. Stress the importance of global awareness by encouraging study abroad opportunities, increasing participation in faculty and student exchanges, and increasing involvement with the university's urban community;
- e. Increase efforts to diversify the student body, the faculty, the staff, and the curriculum to reflect the diversity of the broader society;
- f. Emphasize the integration of technology in teaching, and the development of computer literacy for all students;
- g. Continue our strong emphasis on preparing students to think analytically, write and speak clearly, reason quantitatively, participate in a democratic society, contribute to the health of their communities and the environment, and know the natural world and their own and other cultures;
- h. Continue to foster in our students an appreciation for the dignity of all human persons, created in the image of a just and loving God.

History

The University of St. Thomas was founded in 1885 by Archbishop John Ireland, less than a year after he was installed as St. Paul's third bishop. What began as the St. Thomas Aquinas Seminary – with 62 students and a faculty of five – has grown to be Minnesota's largest independent university with four campuses and more than 11,000 students.

Built near a river bluff on farmland that was still considered "far removed from town" in the late

1800s, the university's main campus is nestled today in a residential area midway between the downtowns of St. Paul and Minneapolis.

In its first decade, St. Thomas was a high school, college and seminary; students enrolled in either the preparatory, classical or theological departments. In 1894 the theological department moved to an adjacent campus where it became The Saint Paul Seminary. The preparatory and classical departments, meanwhile, remained on the original campus and became the College of St. Thomas.

The classical department gradually grew to a four-year college curriculum. The first baccalaureate degrees were conferred in 1910 and St. Thomas was officially accredited in 1916. The preparatory department became the St. Thomas Military Academy, a high school that moved to a suburban campus in 1965.

After 92 years of all-male enrollment, St. Thomas became coeducational in 1977. Today, 53 percent of the undergraduates and 51 percent of the graduate students are women.

Coeducation, coupled with new graduate programs as well as new campuses, contributed to St. Thomas' growth over the past two decades. Enrollment increased from under 2,500 students in 1970 to 11,570 today. The undergraduate program currently enrolls approximately 5,400 students.

Long-standing graduate programs in business, education, professional psychology and social work offer degrees at the master's, specialist, and doctoral levels.

St. Thomas' original "classical" and "theological" departments came together once again in 1987 through an affiliation between the seminary and university. Together they created the School of Divinity which offers graduate degrees in pastoral studies, divinity and theology. St. Thomas is home to the undergraduate St. John Vianney Seminary.

In 1990, recognizing the many changes and the addition of graduate programs to the institution, the name of the College of St. Thomas was changed to the University of St. Thomas.

Locations

The university's main, 78-acre campus anchors the western end of St. Paul's historic Summit Avenue.

In 1992 the university began a permanent campus in downtown Minneapolis, which is now the home of most of the graduate programs in the College of Business, the Graduate School of Professional Psychology, the School of Education, and the School of Law.

The university offers a wide range of programs at its Owatonna-based Gainey Conference Center, established in 1982, and at a number of satellite locations, including the Mall of America.

The Bernardi Residence in Rome, which opened in 2000, is a remodeled residential estate on the banks of the Tiber River. Serving as a home to students on the university's Center for Catholic Studies Rome Program and the Fall Semester in Rome Program, it is also available for conferences, study tours and housing for faculty, students, and visitors to Rome.

General Information

Organization of the University

The university offers its degree programs through nine divisions.

College of Arts and Sciences

The College of Arts and Sciences includes undergraduate departments in the arts, humanities, natural sciences, and social sciences, plus a number of interdisciplinary programs. Master's-level programs are offered in Art History, Catholic Studies, English, and Music Education.

College of Business

The College of Business has six departments offering undergraduate curricula in an interdisciplinary setting. The college also offers nine degree programs at the graduate level. It is home to a variety of centers offering credit and noncredit seminars and continuing-education programs.

St. Paul Seminary School of Divinity

The St. Paul Seminary School of Divinity offers master's- and doctoral-level degrees oriented to theological study and the practice of ministry. The school also offers a two-year pre-theology program for priesthood candidates who require additional preparation.

School of Education

The School of Education offers undergraduate courses and curricula for elementary and secondary teacher licensures. Graduate study is offered leading to certificates, master's, educational specialist, and doctoral degrees.

School of Engineering

The School of Engineering offers graduate and undergraduate engineering degrees. Located on the St. Paul campus, programs in the college are committed to leadership in engineering and industry, in innovation, and in development of the whole person. They are built upon a firm foundation of values and global awareness, and embedded in the context of the liberal arts. The college offers bachelor of science degrees in mechanical engineering (B.S.M.E.) and electrical engineering (B.S.E.E.), masters degrees in manufacturing systems engineering (M.M.S.E), manufacturing systems (M.S.M.S.) and technology management (M.S.T.M.) The B.S.M.E. and M.M.S.E. degrees are Engineering Accreditation Commission of ABET accredited.

School of Law

The School of Law was reopened in 1999 after a 66-year hiatus. The first class of 120 students was accepted in fall 2001.

School of Social Work

The School of Social Work offers undergraduate courses and curricula for social work and chemical dependency counseling. The Master of Social Work, offered as a joint degree program with the College of St. Catherine, is designed to provide advanced professional study in social work. Dual-degree programs are offered in cooperation with Luther Seminary, the Department of Theology at the College of St. Catherine, and the St. Paul Seminary School of Divinity.

Graduate School of Professional Psychology

Master's- and doctoral-level degrees are offered in counseling psychology. A certificate in family psychology also is offered.

Graduate Programs in Software Engineering

These programs offer master's-level programs in software engineering.

Vital Statistics

The University of St. Thomas is a private, coeducational, Catholic, liberal arts university.

The university offers four bachelor's degrees, 91 major fields of study, and 59 minor fields of study. The university offers 49 graduate degree programs: 41 master's, two education specialist, one *juris doctor*, and five doctorates. It also offers six graduate-level joint- or dual-degree programs.

The university awards the B.A. in 81 fields; B.S. in eight fields; B.S.E.E.; B.S.M.E.; D.Min.; Ed.S. in two fields; Ed.D. in three fields; J.D.; M.A. in 23 fields; M.B.A. in seven fields; M.B.C.; M.Div.; M.I.M.; M.M.S.E.; M.S. in four fields; M.S.S.; M.S.D.D.; M.S.W.; and Psy.D.

Enrollment in the undergraduate program for fall semester 2003 was 5,236. Graduate-level enrollment figures at the university were: College of Arts and Sciences, 148; College of Business, 2,543; St. Paul Seminary School of Divinity, 119; School of Education, 1,362; School of Law, 324; School of Social Work, 251; Graduate School of Professional Psychology, 203; Graduate Programs in Software Engineering, 658; Programs in Engineering and Technology Management, 235.

The total enrollment of 11,079 includes 42 graduate students enrolled at branch campuses in foreign countries.

There are 406 full-time faculty, 399 part-time faculty, and a support staff of 1,051.

Accreditation and Memberships

The University of St. Thomas is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools (800-621-7440), the Association of Theological Schools (412-788-6505), the National Council for the Accreditation of Teacher Education (202-466-7496).

All University of St. Thomas education licensure programs are approved by the Minnesota Department of Children, Families and Learning (651-296-2046).

Programs in chemistry are approved by the American Chemical Society (800-227-5558); the master's programs in engineering are accredited by the Accreditation Board for Engineering and Technology (410-347-7700); the B.S.M.E. is accredited by the Engineering Accreditation Commission of ABET; the music programs are approved by the National Association of Schools of Music (703-437-0700); the doctoral program in Professional Psychology is accredited by the American Psychological Association (800-374-

2721); the Social Work program is accredited by the Council on Social Work Education (703-683-8080).

The university is a member of the:

- American Association of Colleges for Teacher Education
- American Council on Education
- Associated Colleges of the Twin Cities
- Association of American Colleges and Universities
- Association of Catholic Colleges and Universities
- Council on Undergraduate Research
- Institute of International Education
- International Federation of Catholic Universities
- Minnesota Private College Council
- National Association of Independent Colleges and Universities
- National Catholic Educational Association

The university is an associate member of the American Assembly of Collegiate Schools of Business

Assessment of Programs

The program to assess student learning is an integral part of the university's commitment to excellent teaching and effective learning. The assessment effort is sustained by the faculty and is fully supported by the administration. Information is systematically collected and examined both to document and improve student learning. The assessment program itself is routinely updated, and the information gained from the assessment process becomes part of on-going curricular development.

The Academic Assessment Coordinating Committee (AACC), which oversees the student outcomes assessment programs of the university, consists of six elected faculty and the director of Institutional Research. The committee is co-chaired by the associate vice president for academic affairs and the associate dean of the College of Arts and Sciences.

Currently, all curricula for major concentrations and the undergraduate core curriculum are routinely assessed. Thus, students are asked from time to time to participate in testing, surveys, interviews, or other methods of collecting data for assessment purposes.



Admission Policies

The University of St. Thomas desires to provide an environment in which people of varied backgrounds can learn and grow through shared experiences. Therefore, we welcome all applicants without regard to race, religious preference, or national origin.

Information and Visits

All correspondence and telephone calls concerning undergraduate day and evening admissions should be directed to the Office of Admissions, Mail #32F-1, University of St. Thomas, St. Paul, Minnesota 55105-1096.

- Phone: 651-962-6150 or 800-328-6819 ext. 2-6150
- e-mail: admissions@stthomas.edu
- Website: www.stthomas.edu

When writing, inquirers should be sure to include their full name, address with zip code and telephone number.

The Office of Admissions is located at 32 So. Finn Street. It is open from 8 a.m. to 4:30 p.m., Monday through Friday, and 9 a.m. to noon on most Saturdays. Counselors are available during those times for counseling and campus tours. Please contact the Office of Admissions for an appointment.

Application Procedures

Candidates for admission should complete the following steps.

1. The official application form should be filled out by the applicant and the appropriate high school authorities. It should be sent to the Office of Admissions. The application also may be completed on the Web: www.stthomas.edu
2. The admissions committee considers each student's academic record, recommendations and writing sample. Applicants are then notified whether they have been accepted officially by the university.
3. Each accepted applicant should make a \$200 confirming deposit to reserve a place in the class. This confirming deposit is refundable upon written request until May 1.
4. A resident applicant must also make a \$200 room deposit. The room deposit will be refunded if written notice of cancellation is received prior to May 1.
5. Each confirmed student is required to provide a final high school transcript after graduation.
6. Each confirmed student will receive a health form which is to be filled out by the family physician and returned to the Office of Admissions.

As of July 1, 1990, all students born after 1956 who are enrolled in a Minnesota public or private college or university are required by Minnesota law to be immunized against diphtheria, tetanus, measles, mumps, and rubella. These immunizations must have been done within a certain time frame. Questions about this requirement and exemptions allowed for by the law should be addressed to the Student Health Service. A record of immunization form is available from the Office of Admissions or the Student Health Service.

Admission Information

Admission Credits

Students entering St. Thomas as first-time college students may have high school credits, advanced placement credits, or informal education that allows them to gain credit by examination. These various supplementary programs are explained in this section.

High School Credits

It is recommended that an applicant's high school transcript include four units in English, four units in one foreign language, four units of mathematics (three units required), two units in natural sciences and two units in history or the social sciences. Some programs require additional courses in the above-mentioned fields.

Graduates of accredited high schools are admitted on the basis of their grade point average, academic rank in their graduating class (if applicable), college preparatory course selection, and their scores on one of the following: the Scholastic Aptitude Test (SAT), or the American College Test (ACT).

The university's SAT code number is 6110. The ACT code number is 2102.

Students with a Graduate Equivalency Diploma should submit the GED, including scores, in addition to their high school transcript.

Advanced Placement

Unless otherwise noted, a student earning a score of three or higher on an Advanced Placement Examination sponsored by the College Entrance Examination Board will receive four credits and an "S" grade. This examination must be taken prior to matriculation to a college or university.

Art History – A score of 3 or higher = ARTH 199 (may fulfill Fine Arts requirement; evaluation on individual course basis)

Biology – For students not intending to major in biology, a score of 4 or higher = BIOL 101 (fulfills a Natural Science lab course requirement) For students intending to major in biology, a score of 4 or higher may allow the student to waive BIOL 201 or 202 as a prerequisite to other courses in the major, depending on A.P. laboratory experience and the discretion of the department chair

Chemistry – A score of 3 or higher may = CHEM 100, depending on laboratory experience, at the discretion of the chair of the department A score of 4 or higher may = CHEM 111, depending on laboratory experience, at the discretion of the chair of the department

Computer Science – A score of 3 or higher in Computer Science A or B = QMCS 199; A score of 3 or higher in Statistics = QMCS 220 (fulfills third Math/Science requirement)

Economics – A score of 4 or higher in macroeconomics = ECON 251; A score of 4 or higher in microeconomics = ECON 252 (either course fulfills Social Analysis requirement)

English – A score of 3 or higher in English Language/Composition = ENGL 100 (does not fulfill the Literature and Writing requirement);

A score of 3 or higher in English Literature/Composition = ENGL 104 (partially fulfills the Literature and Writing requirement); (if both tests are taken, English Language/Composition = GNST 199); GNST 199 does not fulfill the Literature and Writing requirement

French – A score of 3 = FREN 211 (fulfills Language and Culture requirement); A score of 4 = FREN 212 A score of 5 = FREN 300

Geography – A score of 3 or higher in Human Geography = GEOG 111 (fulfills Social Analysis requirement)

German – A score of 3 = GER 211 (fulfills Language and Culture requirement); A score of 4 = GER 212 A score of 5 = GER 300

Government – A score of 3 or higher in Government & Politics: U.S. = POL 101 (does not fulfill Social Analysis requirement)

History – A score of 3 or higher = one course. U.S. or world history fulfills the Historical Studies requirement

Latin – A score of 3 or higher = LAT 212 (fulfills Language and Culture requirement)

Mathematics – A score of 3 or higher in Calculus AB = MATH 113 (fulfills Mathematical Reasoning requirement); A score of 3 or higher in Calculus BC = MATH 113 and MATH 114; AB sub score of 3 or higher in Calculus BC = MATH 113

Music Theory – A score of 3 = MUSC 113; A score of 4 or higher = MUSC 212 (does not fulfill fine arts requirement)

Physics – *Physics B*: A score of 3 = PHYS 101 (satisfies Natural Science Requirement); A score of 4 or 5 = PHYS 109-110 (satisfies Natural Science Requirement); *Physics C1—Mechanics*: score of 3 = PHYS 101 (satisfies Natural Science Requirement); A score of 4 or 5 = PHYS 111 (satisfies Natural Science Requirement);

Physics C2—Electricity and Magnetism: A score of 3 or 4 = PHYS 199 (satisfies Natural Science Requirement); A score of 5 = PHYS 112 (satisfies Natural Science Requirement)

Psychology – A score of 4 or higher = PSY 111 (fulfills Social Analysis requirement)

Quantitative Methods – see Computer Science above

Spanish – A score of 3 = SPAN 211 (fulfills Language and Culture requirement); A score of 4 = SPAN 212 A score of 5 = SPAN 300 A score of 3 or higher in Spanish Literature = SPAN 335 (this will count towards the major in Spanish)

International Baccalaureate

Students who pass the International Baccalaureate Examination(s) in subjects included in the St. Thomas curriculum with a score of 4 will ordinarily receive 4 credits toward graduation. Students who receive a score of 5, 6, or 7 will ordinarily receive 8 credits toward graduation. The specific courses for

which credit would be awarded will be determined by the appropriate academic department. With the exception of Foreign Language, the examinations referred to are at the *higher level*.

Following is a list of guidelines according to which credit may be obtained by examination in specific departments. In each case the decision as to whether or not it is suitable to seek credit by examination for a particular course will be made by the chair of the department.

Credit awarded will be assigned an “S” grade (satisfactory).

Biology – For students not intending to major in biology, a score of 5 or higher = BIOL 101 (fulfills a Natural Science lab course requirement). For students intending to major in biology, a score of 5 or higher may allow the student to waive BIOL 201 or 202 or 204 as a prerequisite to other courses in the major, at the discretion of the department chair.

Chemistry – A score of 4 or higher usually equals CHEM 111. Students with scores of 5 or above should consult with the department chair. Students should consult with department chair if they intend to major in science, especially chemistry.

Economics – A score of 5 or higher on the Higher Level examination = ECON 251 (fulfills the Social Analysis requirement).

English – A score of 4 or higher usually equals one course, but students should consult with the department chair to determine exact course credit and placement.

Foreign Language – A score of 4 or higher (in the subsidiary examination) usually equals 211 or 212 depending on the results of the departmental placement examination.

History – A score of 4 or higher = one course. U.S. or World History fulfill the Historical Studies requirement.

Mathematics – A score of 3 or 4 will allow MATH 113 to be waived as a prerequisite (but no course credit will be given). Students are encouraged to take the departmental examination to receive credit for MATH 113.

A score of 5 or higher gives credit for Math 113. Students are encouraged to take the departmental examination to receive credit for MATH 114.

Physics – A score of 4 or higher will be considered for the awarding of credit on a case by case basis.

Post-Secondary Enrollment Option (PSEO)

The Post-Secondary Enrollment Options program is a Minnesota State program which allows qualified high school students to earn credit toward their high school diplomas by attending colleges, universities, vocational-technical institutes and other post-secondary institutions. In order to participate, a student must be enrolled as a junior or senior at a Minnesota high school and must meet the admissions requirements set by the post-secondary institution. Legislation passed by the State of Minnesota

in 1997 allows students in home schools to participate in the same program.

The University of St. Thomas has participated in the program since its inception in the fall of 1985. Students of high ability who need a greater academic challenge than their high school provides may take a maximum of six courses through the PSEO program at St. Thomas.

The university considers for admission students who are in the top 10 percent of their high school class, have scored well on the ACT, SAT or PSAT standardized tests, and have a strong academic record while pursuing a rigorous academic program including honors or accelerated coursework. Admission to the program is competitive and highly selective. Students seeking admission to the PSEO program should contact the Office of Admissions.

PSEO students are considered non-degree and may take a maximum of twenty-four credits through the program at St. Thomas. They may divide their coursework a variety of ways. Students in their junior year of high school may take four credits per semester. Students in their senior year may take twelve credits each semester, provided the total number of credits taken at St. Thomas does not exceed twenty-four.

The program allows for registration in fall and spring semesters. January term and summer sessions are not included.

With the consent of an academic adviser, students are allowed to enroll in almost any course for which they have adequate preparation, provided that there is space available after the degree-seeking students have registered. There are some courses which are not offered for PSEO students. For instance, they may not enroll in theology courses, since the state will not pay for religion courses. Applied music courses, such as instrumental or vocal lessons, are also not included in the program. PSEO students must register for credit; they may not audit a course.

Students must maintain at least a 2.50 grade point average in order to continue in the program.

Students enrolled in the program receive University of St. Thomas I.D. cards and may participate in most college activities and use campus facilities. They may not live in college residences, nor participate in off-campus programs (such as music ensemble tours, study abroad, varsity athletics, volunteer projects, etc.).

College Level Examination Program (CLEP)

The College Level Examination Program (CLEP) was conceived to serve post-secondary students who have acquired certain kinds of knowledge outside the usual formal educational channels.

There are two kinds of CLEP Examinations, General Examinations and Subject Examinations.

General Examinations

If a student scores at the 50th percentile or above, the university will award 4 credits for each of these five General Examinations: English Composition (the essay component of this examination must be

Admission Information

taken to be considered for credit); Mathematics; Natural Sciences; Social Sciences; History and Humanities.

These General Examinations should be taken before or during the first semester of college work.

Credit awarded for these examinations may be used to meet the requirements of the core curriculum with the following qualifications:

- The Natural Sciences Examination does not fulfill the laboratory science requirement, but would fulfill the third course requirement in math/science.
- The Humanities Examination does not fulfill the fine arts requirement. It would, however, be accepted as an elective course.
- The Social Sciences examination does not fulfill the Social Analysis requirement.
- The History examination in U.S. history fulfills the historical studies requirement. History exams in areas other than U.S. history need to be cleared with the department chair.

Subject Examinations

If a student scores at the 50th percentile or above, the university will award course credit for those Subject Examinations of CLEP that have been approved by the department in which the subject is usually taught.

Credit will not be awarded for a CLEP Examination if a student has already taken a college-level course in an equivalent subject area.

Department Examinations

Certain departments in the undergraduate program allow students to obtain credit for specific courses if they can demonstrate that they have mastered the content and method of the courses in question. Those interested in seeking credit in this fashion should contact the department chair of the appropriate department.

The examining faculty member offers no special instruction to the student except to furnish the syllabus of the course. If this is unavailable or of insufficient assistance to the student, the course should be taken as a regular semester offering or on an Individual Study basis.

A student may attempt to earn credit by examination only once for a particular course. Grades for courses taken in this way are usually given on an S/R basis unless the department has decided that a letter grade should be awarded.

Only courses for which credit is awarded will be posted on the transcript. A fee is charged for administering the examination.

The following departments offer the availability of credit by examination for selected courses. Departments not included in the list do not offer any courses under this option.

Art History – Examinations may be given for certain courses. Each case will be considered individually by the chair of the department.

Biology – Examinations may be given for core courses (BIOL 201, 202, 204). Each case will be considered individually by the chair of the department.

Business – examinations may be given with the consent of the chair of the department. Listed below are the courses in the departments of the Division of Business for which credit may be obtained by examination:

ACCT 205 Introduction to Accounting
BLAW 301 Legal Environment of Business
FINC 321 Financial Management
MGMT 345 Operations Management
MKTG 300 Principles of Marketing

Chemistry – Examinations may be given for CHEM 111 and/or CHEM 112, at the discretion of the chair of the department.

Economics – all courses, if circumstances warrant it, with the *exception* of:
ECON 315 Empirical Methods in Economics
ECON 470 Research

Engineering – all courses, if circumstances warrant it, with the *exception* of:
ENGR 480 Engineering Design Clinic I
ENGR 481 Engineering Design Clinic II
Each case will be considered individually by the department chair.

English – under extraordinary circumstances, with the consent of the department chair, credit by examination may be sought for English courses with the following *exceptions*:

ENGL 111 Critical Reading & Writing I:
Fiction and Nonfiction Prose
ENGL 112 Critical Reading & Writing II:
Drama and Poetry
ENGL 190 Critical Reading & Writing:
Major Genres
ENGL 300 Theory and Practice of Writing
ENGL 480 Literary Magazine Practicum
ENGL 481 Senior Seminar

Foreign Language – examinations may be given for certain courses. Each case will be considered individually by the department chair.

Geology

GEOL 111 Introductory Geology I

Journalism & Mass Communication – in special circumstances, credit by examination could be sought for courses in journalism with the following *exceptions*:

JOUR 230 Photojournalism
JOUR 311 Persuasion in Writing
JOUR 410 Advanced Reporting
JOUR 450 Advanced Public Relations
JOUR 480 Media Ethics

Mathematics – a departmental examination is available for MATH 113 Calculus I with the following qualifications:

A score of 0 - 59 = no credit;
A score of 60 -79 = no credit but MATH 113 will be waived as a prerequisite;
A score of 80 - 100 = credit for MATH 113

Music – no courses are available. Tests in music theory and auditions for Performance Studies are used to determine placement and do not entail the awarding of credit.

Psychology – in special circumstances, and with approval of the department, credit by examination may be sought for PSY 111 General Psychology

Quantitative Methods – under special circumstances and with the approval of the department chair, credit by examination could be sought for courses with the following *exceptions*:

QMCS 420 Systems Analysis and Design I
QMCS 421 Systems Analysis and Design II

Sociology

SOC 100 Introduction to Sociology

Theology – credit by examination may be sought for THEO 101 and all 200-level courses. Each request for credit requires the approval of the department chair.

Waiver of Credits

Unlike the other areas discussed above, a waiver of credits does not add any credits to the student's transcript. For example, if a student tests out of the third level of the foreign language requirement for the core curriculum, a waiver will be noted on the course audit, but no credits are awarded.

Transfer Students

In addition to following the general application procedures, students wishing to transfer from another college should have official transcripts of their high school and college work sent to the Office of Admissions as soon as possible. Previous college work and other academic information will be reviewed in the admission decision. A minimum GPA of 2.30 (4.0 scale) is required in *transferable* previous college work to be considered for admission. *All* transferable coursework, regardless of grade, is considered when calculating the GPA used to determine admission. *Only* coursework in which the student earned a grade of C- or higher from a regionally accredited college/university will be recognized for credit at St. Thomas. To determine if your college/university has regional accreditation, please see www.ncahigherlearningcommission.org

Note: Once a student has matriculated, all coursework taken at St. Thomas or at another institution, regardless of grade, will be included in the student's transcript and will be considered when calculating the GPA.

Besides fulfilling the core curriculum requirements, transfer students must maintain a GPA of 2.00 in courses taken at St. Thomas and must successfully complete thirty-two of their last thirty-six credits at the university.

The priority deadline for application for the fall semester is August 1. Applications for the spring semester should be received by January 1.

In order to stay within enrollment goals, the university reserves the right to adjust published application and standing deposit deadlines when necessary.

Students interested in transferring to the university should contact the Office of Admissions at 651-962-6150 or 1-800-328-6819 Ext 2-6150 and request a transfer brochure.

International Students

The university welcomes applications from prospective international students.

In addition to the Application for Admission, the Test of English as a Foreign Language (TOEFL) is required of all students for whom English is not their native language. The minimum acceptable score for this examination is 550 for the paper/pencil test or 213 for the computer-based test. The TOEFL *Bulletin of Information* and registration form can be obtained through American embassies and consulates, offices of the United States Information Service (USIS) and various bi-national centers. Students unable to obtain the TOEFL *Bulletin* and registration form locally should write well in advance to: TOEFL Services, P.O. Box 6151, Princeton, NJ 08540-6151, U.S.A.

In lieu of a TOEFL test score, completion of Level 112 at any ELS Language Center facility will satisfy the English language requirement for admission. For more information on the ELS Language Center at St. Thomas, please contact the Center Director, ELS Language Center, University of St. Thomas, Mail# CHC 203, 2115 Summit Avenue, St. Paul, MN 55105.

All international students must verify that they have sufficient funds to cover all educational costs for the first year of study and to provide evidence that funds will be available for the duration of the degree.

The University of St. Thomas has very limited funds for scholarships for international students and awards only a few partial tuition grants to incoming students. Selection is based on outstanding merit and need. To qualify for consideration for the following academic year, students must apply to the University of St. Thomas and have submitted an *International Student Scholarship Application* no later than April 1.

For more information, please contact the Assistant Director, International Admissions, International Education Center, University of St. Thomas #44C-1, 2115 Summit Avenue, St. Paul, MN 55105-1096.

Web: www.stthomas.edu/international
e-mail: international@stthomas.edu

Veterans

The University of St. Thomas has been approved for the education and training of veterans. It is the responsibility of students who are veterans to familiarize themselves with the procedures and regulations concerning satisfactory standards of progress in order to insure proper and prompt payment of benefits due.

Veterans will receive credit as recommended by the American Council on Education for courses completed through USAFI and for courses from accredited colleges when the proper documents have been supplied to the university.

Specific questions should be addressed to the university registrar who serves as Coordinator of Veterans Affairs.

The University of St. Thomas uses *The Guide to the Evaluation of Educational Experiences in the Armed*

Student Financial Services

Services when evaluating work done in these areas. The DD214 or DD295 is required to document these experiences.

Non-Degree Students

Non-degree students attend classes without intending to complete the work required to obtain a degree. They are admitted to the institution through the Office of the University Registrar. As they are not seeking a degree, they are not obliged to present their previous academic work for evaluation. Registration is on a space available basis with priority given to degree-seeking students.

Non-degree students are not classified as freshman, sophomore, junior, or senior. Neither are they classified as part-time or full-time.

Non-degree students are limited to enrolling for eight credits in any given semester. A maximum of 24 credits taken at St. Thomas on non-degree status may be applied to a degree program. A non-degree student who wishes to change status and pursue a degree program must make a formal application for admission through the Office of Admissions.

Academic and disciplinary sanctions (probation, suspension, dismissal) apply to degree and non-degree students alike.

Readmission Policies

A student who was formerly enrolled in the university, but is not currently attending, must request reinstatement by calling or writing to the Office of the University Registrar at St. Thomas. The student will be reinstated if the university registrar verifies that the student left St. Thomas in good academic standing, and if the student is eligible to return to the university as certified by the Dean of Student Life.

However, if the student has been enrolled at another college after initial enrollment at St. Thomas, an official transcript of work done at that institution is required. The student will then be reinstated by the university registrar if the transcript indicates work of a C average or better.

A student who discontinues his/her enrollment in the university for four consecutive academic years must re-enroll under the terms of the catalog in effect at the time of re-enrollment.



College Expenses

The cost of a college education is of vital concern to students, their parents, and the educational institutions they attend. This section identifies many sources of financial aid available to the student seeking a college education. Whenever possible, students will want to take advantage of opportunities such as federal and state grants loans and work study programs. It is important that proper application for aid be made by the deadlines noted.

Financial Aid

The primary responsibility of financing an education rests with the student and his/her parent(s). However, the university does recognize that there are students who need financial assistance.

For this reason, St. Thomas offers institutional aid (grants, *etc.*), loans and campus work. In addition, the university offers merit-based aid to those students who have excelled academically and/or made contributions to their school, community or church.

Applications

To be considered for aid, an applicant must complete the application for admission to the university and be accepted.

A student wishing to apply for financial aid must complete the Free Application for Federal Student Aid (FAFSA). The FAFSA collects information about the student and his/her family, considers that data in light of the federal financial aid formula and determines financial need.

This form may be obtained from a high school guidance office or from the university's Office of Student Financial Services. Students may also apply for aid on-line at www.fafsa.ed.gov

Awards and Renewals

Aid to a student is for one year only, unless specified otherwise. Students must reapply for financial aid each year.

All financial aid is applied to the final payment of fees or other charges for each semester. Awards will be adjusted if the student withdraws from the university before the end of the year, or if the student is taking less than a full-time load. A student must be in full compliance with the financial aid Satisfactory Academic Progress Policy to be eligible for assistance.

Satisfactory Academic Progress

All applicants must meet the conditions for Satisfactory Academic Progress for Financial Aid to remain eligible for financial aid.

1. A student is eligible to receive financial aid for a maximum of 176 *attempted* credits.
2. A student must successfully complete 75 percent of all attempted credits.
3. A student must maintain a cumulative GPA of 2.00 after his/her second year of attendance.

A detailed copy of the Financial Aid Satisfactory Academic progress policy is available from the Office of Student Financial Services.

Scholarships

The University of St. Thomas believes that students with a desire to attend college should have reasonable access to scholarship awards. By virtue of high school academic performance, students may receive academic, merit-based scholarships.

All incoming freshmen accepted for admission will be considered for academic scholarships. The awards are competitive based on the applicant pool.

Graduating high school students who are U.S. citizens or permanent residents who are accepted for admission as regular, degree-seeking students may be eligible for such awards. St. Thomas academic scholarships may be received for a maximum of four consecutive years or until graduation (or 132 credits, whichever comes first) provided the student maintains full-time attendance and meets the necessary renewal criteria.

City of Minneapolis Scholarships

The University of St. Thomas has a scholarship program for graduating seniors at public and private high schools in the city of Minneapolis. Eight scholarships covering tuition and fees for four years at St. Thomas are awarded annually. A scholarship is awarded to one graduating senior (the student with the highest need) from each public high school, and one scholarship is awarded to one applicant from all Minneapolis private high schools. Applications are available from the guidance counselors in the Minneapolis high schools or from the St. Thomas Office of Admissions. Recipients must apply annually for financial aid to renew this scholarship.

Recognition Scholarship Program for Community College Students

This is a competitive scholarship that is awarded to the top students transferring from community colleges who meet the following criteria: have earned 56 semester credits at a community college with a cumulative GPA of 3.20 or higher. Six \$4,000 Recognition Scholarships will be awarded to new transfer students annually. For more information, contact the Office of Undergraduate Admissions.

Music Scholarships

The University of St. Thomas offers scholarships each year on the basis of musical performance and academic achievement. Scholarships are available to incoming freshmen and transfer students who meet the criteria for acceptance into St. Thomas and intend to major in music. Scholarships may also be available for current music majors. Contact the Department of Music for application and deadline information.

Elective half-hour lesson scholarships are available to freshmen in Symphonic Band, Symphonic Wind Ensemble, Concert Choir, Liturgical Choir, Chamber Singers and Women's Choir.

Science, Mathematics and Engineering Scholarships

The University of St. Thomas Division of Natural Science and Mathematics awards two full-tuition and four \$4,000 scholarships each year. These awards are renewable and may be received for four consecutive years or until graduation (or 132 credits, whichever comes first). Renewal criteria include

maintaining a 3.50 GPA in a major in the division.

High school seniors wishing to be considered for a science, mathematics and engineering scholarship must complete the science scholarship application by the established deadline. Selected applicants are tested at St. Thomas (usually in January of their senior year). Based on the application and the test evaluations, finalists are selected and asked to return to campus for personal interviews.

Recipients of the full-tuition science, mathematics and engineering scholarships have reduced eligibility for other St. Thomas scholarships. Please consult Admissions or Student Financial Services for details.

University of St. Thomas Scholarships for National Merit Finalists

Scholarships are awarded to students selected as National Merit finalists who declare St. Thomas as their first-choice institution with the National Merit Scholarship Corporation, and who qualify for a college-sponsored award. Students are selected to compete in the National Merit Scholarship competition by the National Merit Scholarship Corporation based on their PSAT scores. National Merit awards range from \$1000 to \$4000. For more information regarding scholarship amounts, please contact the Office of Student Financial Services or the Office of Admissions.

Multicultural Excellence Program Scholarship

The St. Thomas Multicultural Excellence Program scholarship is available to eligible students from the St. Paul Public School Multicultural Excellence Program (MEP). The scholarship amount is \$2,500 per year and may be received for four consecutive years or until graduation (or 132 credits, whichever comes first). Graduating high school seniors who are MEP participants should contact the Office of Admissions for details on how to apply for the scholarship.

Air Force ROTC Scholarships

The Air Force offers four-, three-, two-, and one-year college scholarships. The purpose of the AFROTC Scholarship Program is to attract and retain students whose academic specialties and potential career areas are essential to Air Force needs. In this regard, AFROTC scholarship offers are based on merit and not on financial need.

Students in any academic major may compete for these scholarships, but the projected needs of the Air Force influence the number and type of scholarships awarded in the various majors (traditionally in scientific and technological areas of study). Additional scholarships for college freshmen, sophomores, juniors and seniors are available for qualified students who enroll in AFROTC. Applications must be received no later than February 1 for scholarships to be activated the following fall semester.

High school juniors and seniors may obtain the *College Scholarship Information Booklet*, eligibility requirements and application by writing the Regional Director of Admissions, University of St. Thomas, Mail #5016, 2115 Summit Ave., St. Paul MN 55105-1096. The application deadline is December 1 of the year preceding college entrance.

Student Financial Services

St. Thomas offers its students who are recipients of Air Force ROTC Scholarships up to full subsidy (room and board and remaining tuition) on almost every Air Force ROTC Scholarship awarded.

Contact the Department of Aerospace Studies for details on scholarship opportunities and the St. Thomas subsidy at 651-962-6329 or 800-328-6819, ext. 2-6329.

Army ROTC Scholarships

St. Thomas has an Army ROTC Scholarship program.

For recipients of a four-year scholarship, St. Thomas pays remaining tuition, and room and board for four years.

For recipients of a three-year advance designee scholarship, St. Thomas pays all tuition and fees (first year only); St. Thomas pays remaining tuition, fees, room and board (last three years)

For incoming sophomore recipients of a three-year scholarship, St. Thomas pays remaining tuition, fees, room and board (three years)

For incoming junior recipients of a two-year scholarship, St. Thomas pays remaining tuition, fees, room and board (two years)

For more information, contact Army ROTC, Dept. of Military Services, 15 Church St. SE, Minneapolis, MN 55455. Phone: 612-626-1584; Website: www.umn.edu/arotc.

Navy/Marine Corps ROTC Scholarships

Students who are awarded a full-tuition ROTC scholarship through the Navy/Marine Corps are eligible to receive a full room and board scholarship from St. Thomas.

For more information, contact Navy/Marine Corps ROTC, 203 Armory, c/o University of Minnesota, 15 Church St, SE, Minneapolis, MN 55455; or call 612-624-5287.

Grants

The University of St. Thomas participates in the following federal and state programs. To apply, students must complete the Free Application for Federal Student Aid (FAFSA) each year.

Federal Pell Grant

The Federal Pell Grant is a need-based federal program that currently offers up to \$4,050 per year to meet educational expenses.

Minnesota State Grant

Currently, Minnesota residents may be eligible for up to \$7,662 per year through this need-based grant program.

Federal Supplemental Education Opportunity Grant (SEOG)

Federal SEOGs are awarded to students who demonstrate exceptional need. Grants range from \$200 to \$4000 each year and are awarded at the discretion of the UST Office of Student Financial Services, based on federal guidelines.

Loans

Federal Stafford Loan

Federal Stafford Loans are long-term low interest, variable rate loans. The interest rate changes annually on July 1, but will not exceed 8.25 percent. The rate is based on the Federal T-bill rate plus a margin rate of 2.3 percent. Required federal guarantee and origination fees are deducted from the proceeds of the loan prior to disbursement. The maximum fees deducted will be 4 percent of the loan amount. Repayment of the Federal Stafford Loan begins after a six-month grace period. The grace period begins the day following the student's last date of at least half-time attendance (i.e., upon graduation, complete withdrawal from the university or withdrawal to less than half-time student status). The standard repayment term for the Federal Stafford Loan is ten years.

To be eligible to borrow a Federal Stafford Loan the student must complete the Free Application for Federal Student Aid (FAFSA) and must be enrolled on at least a half-time basis in a degree or certificate program. There are two types of Federal Stafford Loans – the Subsidized and the Unsubsidized Stafford Loan. The results of the FAFSA determine the type of loan for which the student qualifies.

The Subsidized Federal Stafford Loan

To qualify for a subsidized loan the student must demonstrate financial need. The federal government provides an interest subsidy for students who qualify for this loan. The government pays the student's interest on the loan as long as he or she maintains at least half-time attendance and during the six-month grace period.

The Unsubsidized Federal Stafford Loan

Eligibility for the unsubsidized loan is not based on financial need. The student bears all interest costs of the loan, however, interest payments may be deferred while the student is attending school on at least a half-time basis and during the six-month grace period. If the student chooses to defer paying the accrued interest until the end of his or her grace period, the unpaid interest is capitalized (added to the principal balance of the loan).

Students may borrow a combination of Subsidized and Unsubsidized Federal Stafford Loans as long as the grade level annual and aggregate maximums are not exceeded. For example: The grade level annual maximum for a first-year student is \$2,625. If a first-year student qualified for a \$1,000 subsidized loan he or she could borrow the additional \$1,625 in unsubsidized loan. Another first-year student may demonstrate at least \$2,625 in need and therefore would qualify for the full loan amount to be subsidized. The combined subsidized and unsubsidized aggregate maximum for a dependent undergraduate in the Federal Stafford Loan program is \$23,000. The aggregate maximum for an independent undergraduate is \$46,000, of which not more than \$23,000 may be subsidized.

Federal Perkins Loan Program

St. Thomas participates in the Federal Perkins Loan Program. Responsibility for the administration of the funds rests with the university, which selects student recipients and arranges the loans. (The law requires that borrowers be citizens of the United States, be enrolled or accepted for enrollment as at least half-time undergraduate students, be in need of the amount of the loan to pursue their course of study, and be, in the opinion of the university, capable of maintaining good standing in their chosen course of study.)

Repayment of principal and interest begins nine months after graduation or when the borrower ceases to be enrolled on at least a half-time basis. No interest accrues while the student is enrolled on at least a half-time basis. The interest rate is fixed at 5 percent.

Student Education Loan Fund

The Student Education Loan Fund (SELF) program makes available to students variable interest rate loans from the state of Minnesota. Students do not have to demonstrate need to qualify for SELF loans.

To receive information on current interest rates, or to obtain application materials, contact the University of St. Thomas Office of Student Financial Services.

Federal PLUS Loan for Parents

The PLUS loan is a loan for parents of dependent students. The PLUS loan allows parents to borrow as much as is necessary to cover the expected family contribution and/or any unmet need in the financial aid package.

Currently there is no limit on how much parents may borrow in the PLUS loan program for any one academic year with one exception: total aid (from all sources including the PLUS loan proceeds) may not exceed the total cost of attendance.

The PLUS loan has a variable interest rate which is capped at 9 percent. The interest rate is based on the T-bill rate and will change annually each July 1. To apply, a student must complete the Free Application for Federal Student Aid (FAFSA).

Parents who are borrowing for the first time in the PLUS loan program must begin repayment within 60 days of disbursement of the PLUS loan. Payments are based on both interest and principal. The minimum monthly payment on a PLUS loan is normally \$50. Parents have a maximum of 10 years to repay the PLUS loan.

Student Work Program

Through a combination of federal, state and institutional funds, St. Thomas provides its students with the opportunity to apply for campus work to help pay college expenses. Most students can receive some type of student employment award.

Job openings are posted on the Human Resources Website: www.hr.stthomas.edu. Student wages are paid every two weeks by payroll check, direct deposit to a checking account, or direct payment to the UST bill.

Financial Aid Policy Regarding Withdrawal

If a student withdraws from a course or from the university during a semester, January or summer term, there may be implications with his/her financial aid award. The policy may differ, depending upon the source of the aid, whether it be federal, state, institutional, or outside funds. Detailed information is available from the Office of Student Financial Services.

Return of Title IV (Federal) Aid

If a student withdraws from the University of St. Thomas during a semester, January or summer term, a calculation of "earned" versus "unearned" federal aid must be determined. This federal policy assumes the student earns aid based on how much time has elapsed in the term. If the student is a recipient of federal financial aid, that aid may be reduced as a result of the student's withdrawal.

There are three steps that the University of St. Thomas must complete to comply with the federal policy:

1. determine the withdrawal date;
2. determine the amount of earned federal aid; and
3. return unearned federal funds to the appropriate program(s).

However, in order to ensure the student is eligible to receive financial aid, the university must first verify with the student's instructor(s) that he/she has attended or participated in academic activities related to his/her classes for the term.

A student must withdraw officially through the Murphy On-line systems or through the Office of the University Registrar. The withdrawal date is the date the withdrawal process began. If the student fails to officially withdraw, the withdrawal date will become the midpoint of the term, unless the university can document a later date. In certain circumstances, if an earlier date of last academic activity is determined, this date may be used in the calculation of "earned" federal aid.

If a student withdraws before completing 60% of the term, he/she "earns" federal funds in direct proportion to the length of time enrolled. The percentage of earned aid is determined by dividing the total number of calendar days enrolled, including weekends and excluding breaks that are five days or longer, by the total number of calendar days in the term. If a student completes 60% of the term, all federal financial aid for that term is earned.

The responsibility to repay unearned aid is shared by the institution and the student. The institution's share is the lesser of unearned aid or unearned institutional charges. The institution's share must be repaid to the federal aid programs in the following order before the student's share is considered:

1. Unsubsidized Stafford Loan
2. Subsidized Stafford Loan
3. Perkins Loan
4. PLUS Loan
5. Pell Grant

Academic Information

6. Supplemental Educational Opportunity Grant (SEOG)
7. Other Title IV (federal) Assistance

A student required to repay a portion of his/her loan through the student's share calculation will not be expected to return those funds immediately, but rather when repayment begins according to the terms and conditions of the promissory note. If the student's share includes grant funds, federal rules allow the grant to be reduced by 50% and the University of St. Thomas will repay these grant programs on the student's behalf. The student will then be responsible for repaying this money back to St. Thomas. If this causes an undue hardship, a satisfactory payment arrangement can be made with St. Thomas.

Institutional and State Refund Policy

The Return of Title IV Aid calculation, as cited above, only takes into consideration federal funds. It does not take into consideration institutional, state, or outside funding sources that may be included in a student's financial aid package. These other sources of aid also may be affected if a student withdraws from the University of St. Thomas.

The University of St. Thomas offers tuition refunds if a student withdraws from the university according to the following schedule for fall and spring semesters:

First 14 calendar days of the semester	100%
On the 15 th through 21 st calendar days	80%
On the 22 nd through 28 th calendar days	60%
On the 29 th through 35 th calendar days	40%
On the 36 th through 42 nd calendar days	20%
After the 42 nd calendar day	0%

If a student withdraws during a period of time that allows for a tuition refund, a portion or all of the institutional, state, and/or outside funding may need to be reduced or cancelled. If a student receives a 100% tuition refund on all courses for a particular term, all institutional, state, and outside funding must be returned to the appropriate aid program(s). If the tuition refund was not used to fully repay the Return of Title IV Aid, then a proportional share of the remaining tuition refund must be returned to the appropriate aid program(s).



Baccalaureate Degrees

The University of St. Thomas grants the degrees Bachelor of Arts (B.A.), Bachelor of Science (B.S.), the Bachelor of Science in Electrical Engineering (B.S.E.E.) and Bachelor of Science in Mechanical Engineering (B.S.M.E.) to individuals who successfully complete its undergraduate degree programs. These undergraduate degrees have two components: the core curriculum and the major concentration.

To complete the core curriculum, a student takes courses in literature and writing, moral and philosophical reasoning, natural science and mathematical and quantitative reasoning, faith and the Catholic tradition, social analysis, historical studies, fine arts, language and culture, human diversity, and health and fitness. Students also need to demonstrate computer competency. These courses provide the student with a broad education and with the skills needed for further work in these or other areas. Additional general requirements for graduation are listed in the section on requirements for a degree.

A candidate for a degree completes a major concentration in one of the specific academic disciplines represented in the undergraduate program; or a student may construct a major concentration to meet a specific need or interest, subject to the approval of the Committee on Studies. This major concentration component of a degree provides students with the opportunity to pursue a limited subject in depth and to prepare for a career.

If desired, a student may also complete one or more minor concentrations or an additional major concentration in an area of special interest.

Majors

The following is a list of major concentrations or programs of study. Details are provided in the *Curricula* section in this catalog. Curricula involving other institutions in the ACTC are indicated by [ACTC]. Unless otherwise noted, the degree is a bachelor of arts (B.A.).

St. Thomas students may choose a major area of concentration not offered at St. Thomas at any of the other four institutions in the Associated Colleges of the Twin Cities (ACTC), which are Augsburg College, Hamline University, Macalester College and the College of St. Catherine. The student must be accepted into the major by the appropriate department chair at the school where the major is offered and the proposed program of study must be submitted to the Committee on Studies at St. Thomas for its approval.

An individualized major also may be proposed to the Committee on Studies for acceptance. Guidelines for such a proposal are available from the Office of the Dean, College of Arts and Sciences.

Actuarial Science (B.S.)
Art History
Biochemistry (B.S.)
Biology
Business Administration – Accounting
Business Administration – Communication
Business Administration – Entrepreneurship
Business Administration – Financial Management

Business Administration – General Business Management
 Business Administration – Human Resource Management
 Business Administration – International Business
 Business Administration – Leadership and Management
 Business Administration – Legal Studies in Business
 Business Administration – Marketing Management
 Business Administration – Operations Management
 Business Administration – Real Estate Studies (B.S.)
 Catholic Studies
 Chemical Dependency Counseling
 Chemistry
 Chemistry (B.S.)
 Classical Civilization
 Classical Languages
 Communication
 Community Health Education
 Criminal Justice
 Dance & Theatre Arts with a Theatre Specialization (K-12 teacher licensure)
 East Asian Studies [ACTC]
 Economics
 Economics (B.S.)
 Electrical Engineering (B.S.E.E.)
 Elementary Education
 English
 English – Writing
 Environmental Studies
 French
 Geography
 Geology
 German
 Health Education (5-12 teacher licensure)
 Health Education – non-licensure
 Health Promotion (B.S.)
 Health Promotion – Science Emphasis (B.S.)
 History
 International Business – French Intensive
 International Business – German Intensive
 International Business – Spanish Intensive
 International Studies
 Journalism & Mass Communication – Advertising
 Journalism & Mass Communication – Broadcast Journalism
 Journalism & Mass Communication – Media Studies
 Journalism & Mass Communication – Print Journalism
 Journalism & Mass Communication – Public Relations
 Justice & Peace Studies
 Latin
 Literary Studies
 Mathematics
 Mechanical Engineering (B.S.M.E.)
 Music
 Music Business
 Music Education (K-12 teacher licensure)
 Music – Liturgical Music
 Philosophy

Physical Education (K-12 teacher licensure)
 Physics
 Physics (B.S.)
 Political Science
 Psychology
 Psychology – Behavioral Neuroscience
 Quantitative Methods and Computer Science
 Russian
 Russian, Central & East European Studies [ACTC]
 Social Sciences
 Social Work
 Sociology
 Spanish
 Theater
 Theology
 Women’s Studies [ACTC]

Co-Majors

The following sets of majors constitute a double major when taken together. They cannot be “stand-alone” majors.

Science and Mathematics for Elementary Education (taken in conjunction with Elementary Education)
 Secondary Education and Communication Arts and Literature
 Secondary Education and Science – Chemistry
 Secondary Education and Science – Earth and Space Science
 Secondary Education and Science – Life Science
 Secondary Education and Science – Physics
 Secondary Education and Social Studies
 Secondary Education (taken in conjunction with a major from the previous list)

Minors

Students may choose to complete a minor in addition to a major. A student may declare more than one minor.

A student may propose an individualized minor to meet a specific need or interest, subject to the approval of the Committee on Studies. Guidelines for such a proposal are available from the Office of the Academic Dean.

The following is a list of minor concentrations or programs of study. Details are provided in the *Curricula* section in this catalog. Curricula involving other institutions in the ACTC are indicated by [ACTC].

Aerospace Studies
 American Cultural Studies
 Art History
 Biology
 Business Administration
 Catholic Studies
 Chemical Dependency Counseling
 Chemistry
 Classical Languages
 Communication
 Criminal Justice
 East Asian Studies [ACTC]
 Economics
 Electronic Music Production

Academic Information

Engineering
English
English – Writing
Environmental Studies
Family Studies
Film
French
Geography
Geology
German
Greek
History
Japanese
Jazz Studies
Journalism & Mass Communication – Advertising
Journalism & Mass Communication – Broadcast
Journalism
Journalism & Mass Communication – Media
Studies
Journalism & Mass Communication – Print
Journalism
Journalism & Mass Communication – Public
Relations
Journalism & Mass Communication – Visual
Communication
Justice & Peace Studies
Latin
Legal Studies
Mathematics
Middle East Studies (ACTC)
Music
Philosophy
Physics
Political Science
Psychology
Quantitative Methods and Computer Science –
Business
Quantitative Methods and Computer Science –
Mathematics
Quantitative Methods and Computer Science –
Science
Renaissance Program
Russian
Social Welfare
Sociology
Spanish
Theater History - Theory-Criticism
Theater Performance
Theology
Urban Studies
Women's Studies [ACTC]

Aquinas Scholars Honors Program

The Aquinas Scholars Honors Program is the undergraduate honors program. Its purpose is to provide opportunities for motivated and curious students to deepen and enrich their undergraduate education.

Aquinas Scholars take a minimum of four honors sections of core curriculum courses. (Students admitted to the program with 45 or more credits completed take only three sections.) Limited to 20 students, the honors sections emphasize depth, not acceleration, and encourage discussion.

Aquinas Scholars are also required to complete

a minimum of three interdisciplinary honors seminars (on standard grading system), which bring together instructors from two different departments and students from a variety of disciplines to approach a topic of intellectual interest. This seminar format provides students the opportunity to situate themselves within a broader intellectual community at a time when much of their other coursework is engaging them on a more focused level. Aquinas Scholars are not charged tuition for the honors seminars.

The Aquinas Scholars Honors Program also sponsors a variety of co-curricular and extracurricular activities. All St. Thomas undergraduate students are eligible to apply to the program. Continuing and transfer students should generally have at least a 3.3 grade point average, though the admissions committee reviews applications primarily for evidence of intellectual curiosity and academic motivation. Students need to apply to the program early enough to complete the course requirements.

For further information, contact the Aquinas Scholars Center, located in 101 John Roach Center.

Special Curricula

The undergraduate program offers several programs that a student may pursue in addition to a major concentration. These include:

Air Force, Army, and Navy ROTC

Higher Education Consortium for Urban Affairs (HECUA)

Pre-Engineering

Pre-Health Professions

Pre-Dentistry

Pre-Medicine

Pre-Pharmacy

Pre-Physical Therapy

Pre-Veterinary

Pre-Law

School Social Work licensure

Social Work licensure

Study Abroad Programs

Superior Studies at Wolf Ridge

Washington Semester

Associated Colleges of the Twin Cities

The University of St. Thomas has joined with four other private colleges in the Twin Cities to form the Associated Colleges of the Twin Cities (ACTC), a legal entity designed to facilitate cooperative activities among the five benefiting institutions. Augsburg College in Minneapolis and Hamline University, Macalester College and the College of St. Catherine in St. Paul are the other institutions that make up this consortium with the University of St. Thomas. These colleges possess a long history of cooperative academic activity.

Presently, ACTC operates an intercampus bus system that transports students among the colleges to take courses at schools other than their own. St. Thomas has approximately 250 students who take advantage of exchange courses each semester. In some cases, faculty members from one institution will teach a course on another campus. A compre-

hensive *Class Schedule* for the five institutions is published annually to facilitate the exchange of courses and students among the colleges.

Full-time, degree-seeking undergraduate students in the day division are eligible to register for exchange courses in the fall and spring semesters. Students are limited to one exchange course each semester. An exception to this are students majoring in Social Work or Theater, each of which is a joint program with the College of St. Catherine.

Exchange courses are not transfer courses, and thus courses taken through the ACTC are considered UST courses and do not impact senior residency requirement. *Note:* For courses during the summer sessions, students register at the college offering the courses and have a transcript of the completed work sent to St. Thomas. These summer courses are considered transfer courses.

In addition to the course exchange, St. Thomas students may choose a major or minor area of concentration at any of the other four institutions. The student must be accepted into the major or minor by the appropriate department chair at the school where the program is offered. The proposed program must be approved by the Committee on Studies at St. Thomas.

The 4-1-4 Calendar

The undergraduate program follows a 4-1-4 calendar. This calendar consists of a fall semester during the months of September through December, a four-week January term, and a spring semester during the months of February through May. Each of the semesters consists of approximately 14 weeks of classes and a four-day examination period.

Regular Semesters

During the fall and spring semesters, a student normally enrolls for sixteen credits.

The January Term

Students may enroll for a maximum of four credits in a January term.

Summer Sessions

The university offers two six-week sessions, one eight-week session and one twelve-week session during the months of June through August. A student may enroll for a maximum of eight credits in a given session, with a maximum of sixteen credits for the summer.



Requirements for a Degree

To receive a bachelor's degree, a student must successfully complete a minimum of 132 credits and fulfill all degree requirements.

A minimum grade point average (GPA) of 2.00 must be achieved in all of the following categories:

- all credits presented for graduation (including transfer credits)
- all credits earned at St. Thomas
- all credits in the department of the major field (including transfer credits)
- all credits in the department of the major field earned at St. Thomas.

If the student has elected to declare a minor field, all credits in the department of the minor (including transfer credits) and all credits in the department of the minor field earned at St. Thomas must have a GPA of 2.00.

In addition, the student must earn a minimum of 84 credits in areas outside the major field.

No more than eight credits in Experiential Learning may be counted toward the minimum 132 credits for graduation.

No more than one-eighth of the courses taken at St. Thomas presented for graduation may be graded on the S-D-R system.

No two courses may be equivalent or overlapping. (Credit is not given for a course that overlaps a course previously taken or a cross-listed course in another department. Such courses are indicated in the course descriptions by the number of the conflicting courses in parentheses following the title.)

The same course may be used to satisfy both a requirement in the core curriculum and in the major and minor fields.

Within the core curriculum, the same course may satisfy a core or core-area requirement and simultaneously satisfy the requirement in human diversity or computer competency.

Senior residency requires that a graduate have completed thirty-two of the final thirty-six credits at St. Thomas, at one of the other four ACTC colleges, or through an affiliated program.

The Core Curriculum

All bachelor degrees awarded by the University of St. Thomas shall meet the core curriculum requirements of the undergraduate program. The core curriculum is organized into nine curricular areas and two competency requirements.

Courses used to satisfy the requirement in a curricular area are of two types:

- core courses* – in which a specific course is designated as fulfilling a requirement; and
- core-area courses* – in which a selection is made from a list of courses designated as fulfilling the requirement.

Requirements for Degree

Curricular Areas

Literature and Writing

(8 credits)

This sequence of courses develops students' critical awareness of language by helping them to recognize the relationship between their own experience and the interpretive possibilities of literature. Attention is paid to the integration of the individual's composing process and the process of reading and understanding texts. These courses foster attentive reading, careful thinking, and effective writing. There are two ways to fulfill this requirement:

- a) students enroll in these two core courses:
- | | | |
|------|-----|---|
| ENGL | 111 | Critical Reading and Writing I:
Fiction and Nonfiction Prose |
| ENGL | 112 | Critical Reading and Writing II:
Drama and Poetry |
- b) students with qualifying ACT scores enroll in:
- | | | |
|------|-----|---|
| ENGL | 190 | Critical Reading and Writing:
Major Genres |
|------|-----|---|

plus

one additional core-area literature course in English numbered above 200 with the exception of ENGL 251, 252, 253, 300, 305, 321, 322, 326, 380, 401, 402, 403, and 480.

Moral and Philosophical Reasoning

(8 credits)

What am I? How should I live? Philosophers throughout the centuries have pondered these questions which are of decisive importance for the whole of human life.

In the first course, students will study the elements of logic, the method of philosophy, and will read about the nature of the human person. In the second course, students will focus on questions of human conduct – questions about what is right and wrong, good and bad, in the lives of individual persons and human societies. These courses are not mere histories of philosophical opinion; they are substantive inquiries into the meaning of human life insofar as it can be grasped by reason alone. Thus, they complement the courses students take in theology and in other areas.

The two core courses are:

- | | | |
|------|------------|--------------------------------|
| PHIL | 115 | Philosophy of the Human Person |
| PHIL | 214 or 215 | Introductory Ethics |

Natural Science and Mathematical and Quantitative Reasoning

(12 credits)

Students are required to take a core-area course in natural science with a laboratory component, a core-area course in mathematics, and a third core-area course in natural science (with a laboratory component), mathematics (MATH 114 or higher), quantitative reasoning or computer science.

Core-area courses in natural science focus on the natural world and develop students' abilities to evaluate scientific arguments critically, and enhance their quantitative and analytical reasoning skills. The laboratory component of these courses is an inquiry-based approach with opportunities for students to refine their observational skills through the

acquisition and organization of data, analysis and interpretation of data, and the presentation of conclusions orally or in writing.

Students select one of the following core-area natural science courses:

- | | | |
|------|-----|---------------------------------------|
| BIOL | 101 | General Biology* |
| BIOL | 102 | Conservation Biology |
| BIOL | 105 | Human Biology* |
| BIOL | 201 | Diversity and Adaptation |
| BIOL | 202 | Genetics and Population Biology |
| CHEM | 100 | Chemistry in Our World |
| CHEM | 101 | Environmental Chemistry |
| CHEM | 111 | General Chemistry I |
| CHEM | 112 | General Chemistry II |
| CHEM | 115 | Accelerated General Chemistry |
| GEOL | 102 | Origins and Methods |
| GEOL | 110 | Geology of the National Parks |
| GEOL | 111 | Introductory Physical Geology |
| GEOL | 113 | The Earth's Record of Climate |
| GEOL | 114 | The Science of Natural Disasters |
| GEOL | 115 | Environmental Geology |
| GEOL | 130 | Earth History |
| GEOL | 211 | Mineralogy |
| GEOL | 220 | Oceanography |
| GEOL | 252 | Geomorphology |
| GEOL | 260 | Regional Geology and Field
Methods |
| IDSC | 150 | Development of the Natural World |
| PHYS | 101 | Physics as a Liberal Art I |
| PHYS | 102 | Physics as a Liberal Art II |
| PHYS | 104 | Astronomy |
| PHYS | 105 | Musical Acoustics |
| PHYS | 109 | General Physics I |
| PHYS | 110 | General Physics II |
| PHYS | 111 | Introduction to Classical Physics I |
| PHYS | 112 | Introduction to Classical Physics II |

*only one of these courses may be counted toward the natural science requirement

The core-area courses in mathematical reasoning include experience in the application of relevant knowledge to solve problems, promote the recognition and classification of numerical, geometrical, and relational patterns, enhance students' abilities to develop mathematical arguments, and to understand the connections between real-world data and mathematical models.

Students select one of the following core-area mathematics courses:

- | | | |
|------|-----|---|
| MATH | 100 | Mathematical Sampler |
| MATH | 101 | Finite Mathematics |
| MATH | 109 | Calculus With Review II |
| MATH | 111 | Calculus for Business and Social
Science |
| MATH | 113 | Calculus I |
| MATH | 114 | Calculus II |
| MATH | 121 | Structures of Elementary
Mathematics |
| MATH | 128 | Introduction to Discrete
Mathematics |

The third core-area courses allow students to broaden or deepen their exposure to natural science, mathematics, quantitative reasoning and/or computer science.

Students select a core-area course from the following list:

MATH	114	Calculus II
MATH	121	Structures of Elementary Mathematics
MATH	128	Introduction to Discrete Mathematics
QMCS	120	Computers in Elementary Education and LOGO
QMCS	220	Statistics I

or

a second natural science course (with laboratory) from the first group

Faith and the Catholic Tradition

(12 credits)

Certain questions continue to be of pervasive concern for human beings: the nature of the universe, the existence and nature of God, the nature of human beings, the proper relationship of a human being to his or her world, the source of evil and the possibility of redemption, to name but a few. This sequence of three courses aims to acquaint students with the nature and importance of these questions and will assist them in articulating for themselves responses which have been formulated in light of their knowledge of the Catholic tradition and the Christian faith.

The first, a core course, provides students with a theological framework within which individuals and groups have addressed questions of faith and human existence throughout Christian history.

The second set of core-area courses provides students with an opportunity to address these same questions of human existence in four themes: revelation, Christian anthropology, worship and cultural engagement.

The third set of core-area courses allow students both the opportunity to engage questions which relate to faith and culture and to integrate the knowledge with other disciplines.

Students select three courses as follows:

THEO	101	The Christian Theological Tradition
<i>or</i>		
THEO	102	The Christian Theological Tradition: The Bible and the Early Church (2 credits)
<i>and</i>		
THEO	103	The Christian Theological Tradition: St. Augustine to the Present (2 credits)

plus:

THEO	200-level course
THEO	300-level course

Social Analysis

(4 credits)

The goal of this requirement is to ensure that all students develop basic abilities to perform social scientific analyses of patterns of social interactions. Core-area courses in social analysis provide a broad introduction to the perspectives offered by one of the traditional social sciences. Courses will consider empirical and/or normative analysis, how social science knowledge differs from other kinds of know-

edge, what constitutes data, the relationship between data and theory, and major conceptual perspectives. Where appropriate, courses will provide an understanding of and sensitivity to the diversity of American and/or other societies, an international perspective, and will address issues of social concern.

To meet this requirement, students must earn the equivalent of a full course in a single department. Students may not use fractional courses from multiple departments to meet the requirement.

Students choose one of the following core-area courses:

ECON	211	Current Economic Issues
ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics
GEOG	111	Human Geography
GEOG	113	World Geography
POL	105	Politics and Government in Comparative Perspective
PSY	111	General Psychology
SOC	100	Introduction to Sociology
SOC	110	Social Problems

Historical Studies

(4 credits)

Core-area courses in historical studies aim to increase students' knowledge of the history of the modern world and its origins. Each of these courses also provides an introduction to historical methods of inquiry and analysis. A third goal is to foster awareness of the diversity within human history. Students choose one of the following core-area courses:

HIST	111	Origins of the Modern World to 1550
HIST	112	The History of the Modern World since 1550
HIST	113	Early America in Global Perspective
HIST	114	The Modern U.S. in Global Perspective

Fine Arts

(4 credits)

A core-area course in one of the fine arts aims to enhance students' understanding of and appreciation for one or more of the fine arts (art, music, or theater). Students gain an understanding of the role of the fine arts in expressing and maintaining, discovering and questioning a culture's dominant beliefs and ideals. The focus of these courses is broad enough to encompass different periods, cultures, and styles, but also allows an intensive scrutiny of the way in which the work of art, music, or theater is composed and created. Students have a variety of choices in fulfilling this requirement.

Students may choose one of the following core-area courses:

ARTH	151	Introduction to Art History I
ARTH	152	Introduction to Art History II
ARTH	159	Principles of Art History (2 credits)
ARTH	280	Sacred Architecture and Space
ARTH	285	Arts of Africa and the African Diaspora

Requirements for Degree

ARTH	286	Women's Art in Cross-Cultural Perspective
ARTH	289	Asian Art
ARTH	291	Topics in Non-Western Art
ARTH	297	Topics
ARTH	300	Ancient Near East and Egypt
ARTH	305	Greek Art and Archaeology
ARTH	310	Roman Art and Archaeology
ARTH	320	Art and Culture of Colonial Mexico
ARTH	330	Churches and Mosques in the First Millennium
ARTH	335	Cathedrals, Monasteries, and Caliphates
ARTH	340	Southern Renaissance Art and Society
ARTH	345	Baroque and Rococo Art
ARTH	347	Golden Age of Spain
ARTH	350	19th Century: Neoclassicism to Symbolism
ARTH	355	20th Century: Cubism to Installation
ARTH	391	Native American Art
ARTH	392	American Art
MUSC	115	Understanding Music & Culture
MUSC	118	Understanding Music & Culture to 1850 (2 credits)
MUSC	119	Understanding Music & Culture 1850 to Present (2 credits)
MUSC	120	Orchestral Literature
MUSC	130	Introduction to World Music
MUSC	216	Jazz in America
MUSC	217	Music of the Americas
MUSC	218	Black American Music: An Historical Survey
MUSC	219	Music in the United States
MUSC	222	theology of American Popular Music
MUSC	412	History & Literature of Music II
THR	111	Introduction to the Theater
THR	221	History of Theater I: Classical through 17th Century
THR	222	History of Theater II: 18th Century to Contemporary
THR	223	History of Theater III: American
THR	259	Film I: Introduction to Narrative and Non-Narrative World Cinema
THR	260	History of Film: The Silent Era
THR	261	History of Film: Sound Era, 1926 to Present Day
THR	297	Topics
THR	359	Film II: Film Theory and Criticism
THR	412	Drama: Theory and Criticism

Students may choose to participate for four semesters in one of the following music ensembles:

MUSN	140	Women's Choir
MUSN	142	Chamber Singers
MUSN	143	Liturgical Choir
MUSN	160	Concert Choir
MUSN	185	Symphonic Band
MUSN	186	Symphonic Wind Ensemble

(a combination of four semesters in 142 and 160 or 185 and 186 will fulfill the requirement)

Language and Culture

(12 credits)

A sequence of foreign language study aims to develop students' skills in using a foreign language in a variety of tasks, including conversing, reading, writing and listening with comprehension. The language is used as the essential vehicle for coming to a deeper understanding of other cultures. The courses guide students toward a realization that the study of a foreign language provides a comparative basis from which to analyze their own language and culture. Study of the language will allow students to relate course content with that of courses taught in other disciplines.

Students must complete the 111, 112, and 211 sequence in a particular language. All students with previous language experience must take a placement examination administered by the Department of Modern and Classical Languages. The student's previous work in the language will be considered. The Department of Modern and Classical Languages will make the final determination regarding the placement of students in foreign language courses.

Students with sufficient proficiency in a language may test out of 211 and receive a waiver of the requirement. A waiver does *not* add credits on the student's transcript.

Students whose primary language of communication is a language other than English and who have learned English as a second language are exempt from the foreign language requirement. It is the student's responsibility to present evidence to the chair of the department to support this exemption request.

Human Diversity

(4 credits)

Courses fulfilling the human diversity requirement focus on one or more of the following areas of inquiry: racial and ethnic minorities; class; gender; marginalized groups; non-Western culture.

These courses assist students in understanding the perspectives, values, experiences, works and achievements of the peoples and cultures being studied, recognizing that the experiences, beliefs, and values of any group being studied are not monolithic, but may vary widely within the group. Whenever possible they include materials (*e.g.*, writings, films, narratives, oral histories, artwork) which are produced by the population or culture under study.

Courses consider ways in which individual preconceptions, stereotypes, and assumptions affect understanding of issues related to diversity or consider ways in which position and privilege affect understanding of issues related to diversity. In addition, these courses address ways in which power and privilege operate at the institutional/systemic level.

Courses fulfilling the human diversity requirement explicitly address the ways in which the study of diversity is valuable to a liberal arts education and fosters respect for the diversity of peoples and cultures within the fundamental unity of humankind. These courses also address how the discipline involved contributes to an understanding of the groups or culture under study and how the per-

spectives of the groups or culture might expand understanding of the discipline itself.

Courses available to fulfill the requirement are:

ACST	200	Introduction to American Cultural Studies
ARTH	151	Introduction to Art History I
ARTH	152	Introduction to Art History II
ARTH	285	Arts of Africa and the African Diaspora
ARTH	286	Women's Art in Cross-cultural Perspective
ARTH	289	Asian Art
ARTH	291	Topics in Non-Western Art
ARTH	320	Art and Architecture of Colonial Mexico
ARTH	391	Native American Art
BLAW	352	Gender Issues and the Law
CATH	308	Woman and Man
CATH	326	Church in Latin America (THEO 326)
COMM	322	Intercultural Communication
COMM	340	Rhetoric of Race, Class, and Gender
ECON	345	Economics of Development and Growth
ECON	346	Country and Area Studies in Economics (dependent upon country involved)
EDUC	212	Human Relations and Multicultural Education
ENGL	217	Multicultural Literature
ENGL	218	Literature by Women: Critical History
ENGL	337	The Literature of Human Diversity
ENGL	341	Literature by Women: Critical Questions
ENTR	390	Diversity Issues in Entrepreneurship
GEOG	111	Human Geography
GEOG	113	World Geography
HIST	210	Modern Latin America, 1800 to Present
HIST	220	Introduction to Japanese History and Culture
HIST	340	Foundations of Modern China
HIST	341	The History of Modern China
HIST	345	Family and Women in Chinese History
HIST	347	The Modernization of Taiwan, Hong Kong, and China
HIST	366	The Catholic Church in the United States
HIST	368	Women in the United States
HIST	369	African-American History
HIST	372	The United States and Vietnam
IDSC	291	The Anatomy of Violence
IDSC	312	Gender and Science
JOUR	305	Gender, Race and Mass Media
JPST	250	Introduction to Justice and Peace Studies
MUSC	130	Introduction to World Music
MUSC	216	Jazz in America
MUSC	217	Music of the Americas
MUSC	218	Black American Music: An Historical Survey

MUSC	222	The Theology of American Popular Music
PHIL	208	Indian Philosophy
PHIL	210	Chinese Philosophy
PHIL	215	Ethics East and West
POL	105	Politics and Government in Comparative Perspective
POL	352	Third World Politics and Government
PSY	151	Cross-Cultural Psychology
PSY	205	Psychology of Women
SABD		<i>See the Office of International Studies for courses that have been approved.</i>
SOC	100	Introduction to Sociology
SOC	110	Social Problems
SOC	251	Race and Ethnicity
SOC	255	Gender in American Society
SOC	301	General Anthropology
SOC	330	Religion and Society
SOC	351	Immigration, Fear and Hate
SOWK	340	Human Behavior and the Social Environment
THEO	305	Theologies of Justice and Peace
THEO	322	Theology of Global Economics
THEO	326	Church in Latin America (CATH 326)
THEO	331	Christianity and World Religions
THEO	332	Judaism
THEO	333	Contemporary Judaism
THEO	334	Islam
THEO	353	Women and the Old Testament
THEO	354	Women and the Christian Tradition
THEO	359	Women in the Early Church
THEO	361	Black Religious Experience
UMAIE		<i>See the Office of International Studies for courses that have been approved.</i>
WMST	205	Foundations in Women's Studies

Competency Requirements

Computer Competency

Technology is very much a part of our world. The computer is the basic tool to much of this technology. The goals of the computer competency requirement are to:

1. Focus on the basic skills that all students, regardless of major, should have;
2. Be a building block upon which majors can add as appropriate;
3. Prepare students for the applications they are likely to encounter after graduation, in a modern technological society.

The Computer Competency requirement includes two first-year requirements and a second-level requirement. The first-year requirements correspond to goal number 1 above and are intended to verify that students have the basic technological skills that instructors will expect for completing coursework. The second-level requirement corresponds to goals 2 and 3 and is intended to provide an opportunity for students to learn and demonstrate a computer-related competency more directly related to each student's chosen major field and future career.

Reflecting the constantly changing nature of the computer world, the detailed requirements of

Requirements for Degree

the competency also change. The current process may be found in *The Computer Competency Requirement at the University of St. Thomas: A Guide for Students* available from the office of Academic Counseling.

The following sampling of courses contain computer components beyond the basic skills, and will satisfy the second-level Computer Competency.

BIOL	102	Conservation Biology
BIOL	210	Introduction to Laboratory Research
BIOL	315	Biology of Plants
BIOL	333	Ecology
BIOL	354	Neurobiology
BIOL	415	Plant Physiology and Adaptation to Stress
CHEM	300	Quantitative Analysis
CHEM	331	Chemical Thermodynamics and Reaction Dynamics
CHEM	332	Quantum Chemistry and Molecular Spectroscopy
COMM	160	Electronic Media Production
COMM	260	Audio Production
COMM	270	Videography: Television Production in the Field
COMM	370	Advanced Video Production
ECON	311	Forecasting
ECON	315	Empirical Methods in Economics
ENGL	380	Issues in English Studies
ENGL	480	Literary Magazine Practicum
ENVR	151	Humans and the Environment
GEOG	112	Physical Geography
GEOG	221	Computer Skills in Geography
GEOG	222	Geographical Analysis
GEOG	223	Remote Sensing
GEOG	321	Geographic Information Systems
GEOG	421	Advanced Geographic Information Systems
HLTH	440	Health Education: 5-12 Curriculum, Assessment and Administration
HLTH	464	Critical Issues in Health Education
JOUR	220	Design Concepts of Communication
JOUR	225	Writing and Designing for the Web
JOUR	350	Public Relations Writing
JOUR	410	Advanced Reporting
MATH	108	Calculus with Review I
MATH	109	Calculus with Review II
MATH	113	Calculus I
MATH	114	Calculus II
MATH	200	Multi-Variable Calculus
MATH	210	Linear Algebra and Differential Equations
MATH	303	Statistics for the Applied Sciences
MATH	313	Probability
MUSC	150	MIDI Studio (2 credits)
MUSC	180	Multi-track Recording (2 credits)
MUSC	220	Digital Recording and Sampling (2 credits)
MUSC	240	Music/Audio Post Production (2 credits)
MUSC	303	Music Notation on Computer (2 credits)

PHYS	105	Musical Acoustics
PHYS	111	Introduction to Classical Physics I
PHYS	112	Introduction to Classical Physics II
PHYS	225	Introduction to Modern Physics I
PHYS	226	Introduction to Modern Physics II
PHYS	399	Advanced Physics Laboratory I
PHYS	400	Advanced Physics Laboratory II
POL	205	Introduction to the American Public Policy Process
QMCS	110	Introduction to Information Processing
QMCS	120	Computers in Elementary Education and LOGO
QMCS	201	Introductory Statistics II
QMCS	215	Rapid Application Development
QMCS	220	Statistics I
QMCS	230	Software Design Using the JAVA Language
QMCS	238	Software Design using Business Programming Languages
QMCS	281	Object-oriented Design and Programming
QMCS	300	Computer Organization
QMCS	342	Computer Applications in Experimental Sciences
QMCS	410	Operations Research I
SOC	220	Sociological Analysis
SOWK	380	Social Research: Designs and Statistical Applications

Health and Fitness

(0 credit)

This course in health and fitness provides students with the knowledge, skill, and technique necessary to become a physically-educated person: persons who are able to design and maintain a lifestyle of fitness and wellness. As students complete this competency requirement, they should develop a knowledge and understanding of the role of physical activity in their lives, and how it contributes to lifelong health and wellness; and they should have a better understanding of the extent to which physical activity contributes to all dimensions of an individual's life.

It is strongly recommended that this requirement be completed by the end of the freshman year, or at least by the end of the third semester.

Students enroll in the following core course:

PHED	100	Foundations for Fitness
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Major Requirements

Regular Majors

After a student has completed 48 semester credits, a student must apply to be admitted to a major in his or her chosen field. Admission to a major field is necessary to allow the student the opportunity to continue registering with his/her class.

A student must complete one of the regular major concentrations described in the section on Curricula with a grade point average of 2.00 or better in courses taken in the department of the major required for the major. (See section on Academic Programs for a list of these majors.)

A major in a Bachelor of Arts degree program consists of 28 to 44 credits in the area of concentration plus allied courses as specified by the depart-

ment in which the major is offered. No more than 48 semester credits in the department of the major field or 48 credits in the College of Business for majors in the area of business may be counted toward the 132 credits required for a degree.

A major in a Bachelor of Science degree program (or an Engineering program) may require more than 48 semester credits in the field of the major.

At least 84 credits must be presented that are not in the department of the major for all baccalaureate degrees. For majors in the areas of business, these credits must be outside the College of Business.

Students with transfer courses in the major must also attain a 2.00 grade point average for the courses taken in the department of the major at St. Thomas. (See section on Requirements for a Degree).

If major field requirements or courses specified in the catalog are no longer available, the chair of the appropriate department will designate acceptable substitutes for the major program.

The department has the right to specify how many courses in the major field (and at what level) must be taken at St. Thomas. Students may earn more than one major.

Procedures for applying to a major are available from the Office of the University Registrar.

Majors at other ACTC Institutions

A student wishing to complete a major offered at one of the ACTC schools (and not offered at St. Thomas), must file a petition with the Committee on Studies for approval. In the petition, the student should indicate his/her acceptance for the major by the chair of the department at the other institution, the list of courses that will need to be completed at that institution, and the name of a St. Thomas faculty member in a closely-related field who will act as an adviser. Core curriculum requirements for St. Thomas and any prerequisites for courses in the major program offered at St. Thomas will be taken on the home campus.

Individualized Majors

A student may pursue a major other than one of the regular majors described in the section on Curricula.

An individualized major requires the selection of a faculty adviser, a proposal explaining the rationale for the selection of courses (which should include lower- and upper-division courses), a number of credits in accordance with the guidelines for a regular major, and approval by the Committee on Studies.

Minor Requirements

Regular Minors

A student is not required to complete a minor. A minor consists of 20 to 26 credits in the area of concentration including all prerequisites and allied courses as determined by the department or program offering the minor.

A minimum grade point average of 2.00 is required for the courses in the minor. Transfer students must also attain a minimum grade point aver-

age of 2.00 for minor courses taken at St. Thomas.

The department has the right to specify how many courses in the minor field (and at what level) must be taken at St. Thomas.

A student may earn more than one minor.

Minors at other ACTC Institutions

A student wishing to complete a minor offered at one of the ACTC schools (and not offered at St. Thomas), must file a petition with the Committee on Studies for approval. In the petition, the student should indicate his/her acceptance for the minor by the chair of the department at the other institution, and the list of courses that need to be completed.

Individualized Minors

A faculty adviser should be chosen for the minor. Individualized minors must be approved by the Committee on Studies.

Senior Residency Requirement

Thirty-two of the final 36 credits that a student takes for the degree must be taken through the University of St. Thomas. Credits earned at ACTC colleges and through affiliated programs are considered exchange credits and count toward the residency requirement.

Addition of major, minor, or degree after graduation

A student who has been graduated from the University of St. Thomas may add an additional major by fulfilling all the remaining requirements of the major. The 32-credit senior residency requirement need not be met a second time. No more than one additional transfer course may be used to meet major and allied requirements.

A student who has been graduated from the University of St. Thomas may add a minor by fulfilling all the remaining requirements of the minor. The 32-credit senior residency requirement need not be met a second time. No more than one additional transfer course may be used to meet minor and allied requirements.

A student who has been graduated from the University of St. Thomas may add a second degree (such as a B.S. added to the original B.A.) by fulfilling all the remaining requirements of the degree. The 32-credit senior residency requirement need not be met a second time. The second degree may not be in the same discipline as the original degree.



Registration Information

The Undergraduate Program

All matters pertaining to the undergraduate curriculum are under the jurisdiction of the faculty.

Courses

A “full” course is equivalent to four semester credits. If a particular course carries more than four or fewer than four credits, it is so noted in the description.

Each course is assigned a subject area code consisting of three or four letters, which designates the department or discipline, followed by a three-digit number. For example, ENGL 111 is the English course numbered 111.

Courses with numbers having either 1 or 2 as the first digit are lower division courses, and those having 3 or 4 as the first digit are upper division courses.

Lower division courses are designed to give students a broad general liberal arts education, preparing them for the more specialized education offered at the upper division level.

When students become juniors, they generally pursue upper division courses. Upper division courses are designed to acquaint students with the content and methodology of a particular field.

The number of class meetings for a course varies with the nature of the course. The annual *Class Schedule* indicates the days and times each class meets.

Course Load

The normal course load is 16 credits. During the first semester at the university, a freshman is limited to 17 credits plus a physical education activity course. Students may take no more than 21 credits without permission from the Associate Dean of Academic Counseling.

Freshmen may not register for courses numbered 300 or above without permission from the department chair (except for foreign language courses when they have already completed a fourth semester of the language or its equivalent).

Students on academic probation may not register for more than 16 credits.

Final Examinations

Each semester ends with a final examination period. A two-hour session is scheduled for the final examination in each course in regular semesters.

Final examinations are not administered other than during the final exam week. However, if it is agreeable to students and the instructor to hold the final examination at a time other than the time scheduled, the exam may be held at another time within the final exam week.

Instructors will determine the final examination times for January term and summer session courses.

Registration

A student must register for a course before attending, and will not receive credit unless registered.

Students must attend the first day of class in order to secure their place in the course. The instructor has the option to drop a student from the

class roster who has not attended on the first day of the session. To officially withdraw from the class, the student must file a *Change in Registration* Form with the Office of the University Registrar, or through the Murphy On-line Web registration system.

Before the beginning of each semester, students consult with their advisers to determine the courses they should pursue. This would include any courses at the four other cooperating colleges in the ACTC: Augsburg, Hamline, Macalester, and St. Catherine. Registration for exchange courses must be completed through the Office of the University Registrar.

There are two concurrent registration periods – summer sessions and fall semester in April; January term and spring semester in November. Each student is scheduled to register after a specific date and time, based on his/her number of earned credit hours and an alphabetical rotation of surnames. Failure to meet certain core requirement competencies will result in loss of registration priority.

Each student is required to meet with his/her adviser to begin the registration process each semester.

New Student Scheduling

Registration for new freshmen and entering transfer students is coordinated by the Office of Academic Counseling and Advising.

Freshmen who begin their studies at the university in the fall receive a pre-registration packet containing course information and a description of the registration process which occurs during Summer Orientation.

New transfer students meet individually with an academic counselor to interpret their transfer credit evaluation and select appropriate courses related to their interests.

Upper division transfer students are encouraged to declare a specific major field. Separate summer orientation programs are held for new freshmen and transfer students.

All new students are assigned faculty advisers.

Exchange Courses

Courses taken by undergraduate day, degree-seeking St. Thomas students at Augsburg College, Hamline University, Macalester College and the College of St. Catherine are called exchange courses. These courses may be substituted for courses at the University of St. Thomas, subject to the following conditions:

1. the course is not one specified by a specific course number in the list of core curriculum requirements; and
2. the student has the written permission of the department chair of the major or minor if the course is in the major or minor concentration and taken to satisfy a particular requirement for that major or minor; and
3. the student consults the University Registrar before registering for more than one course at Augsburg, Hamline, Macalester or the College of St. Catherine during one semester. This one course limit does not apply to students pursuing a major or minor at these schools.

Additional restrictions may apply. See the ACTC Website for additional restrictions:

www.associatedcolleges-tc.org

For exchange courses in the fall and spring semesters, St. Thomas students register at St. Thomas. Grades for these courses are automatically recorded on the St. Thomas transcript.

For courses during the summer sessions, students register at the college offering the courses and have a transcript of the completed work sent to St. Thomas. These summer courses are considered transfer courses.

Exchange courses may be used to fulfill the degree residency requirement.

Grades for exchange courses are included in the computation of the St. Thomas GPA.

Courses taken at Augsburg, Hamline, Macalester and St. Catherine by a student before he or she matriculates at St. Thomas or while the student is not an active student at St. Thomas are treated as transfer courses.

Transfer Courses

Courses taken at regionally accredited institutions of higher learning other than the University of St. Thomas and accepted for credit by St. Thomas are called transfer courses. Exchange courses, as described above, are not transfer courses.

Students who are seeking admission to the University of St. Thomas must have transcripts of all previous college work sent to the Office of Admissions.

Current St. Thomas students must have transcripts of work at other schools sent to the Office of the University Registrar if they are seeking transfer credit.

The university registrar, using official transcripts provided by the student's previous schools, will assist the faculty to determine which courses may be used to fulfill St. Thomas degree requirements. Students may be asked to provide additional materials supporting the use of transfer courses. The university may require transcripts from foreign schools to be submitted to an evaluation service for processing before considering them. A fee may be charged for this service.

Students who wish to enroll in courses at another institution after matriculation at St. Thomas must receive approval from the chair of the department if these courses are to be included in the major or minor field.

Generic Courses

A series of courses with numbers common to all departments and programs are called generic courses. These include Topics courses, Experiential Learning (which is usually an internship), Seminars, Research, and Individual Study. These course numbers may be taken more than once provided the title and content are different. See the beginning of the Curricula section of this catalog for a description of these courses.

Attendance

Students are expected to attend the first class meeting of a course for which they are registered.

Thereafter, regular attendance at classes is expected. Attendance regulations for specific courses are determined by the instructor for that course. Students who are absent for a prolonged period of time due to illness should contact the Office of Academic Counseling and Advising.

Students not attending class on the first day of a session may be dropped from the course at the discretion of the instructor. If, for some emergency situation, attendance on the first day is not possible, the student should notify the instructor of the situation by e-mail or telephone.

Students should not assume that non-attendance of a class on the first day of the session will automatically result in their being dropped from the class. Students who wish to drop a course must do so by officially withdrawing from the class.

Audit

A student may choose to audit a course rather than take it for credit. If attendance is satisfactory, the course number, title and the audit designation will appear on the transcript. If attendance is not satisfactory, the course will not appear on the transcript. In no case may a student receive credit for a course that was audited unless the course is retaken for credit.

Changes in Registration

Changes in registration can be made on the Web registration system until the published deadlines for adding and/or dropping courses. After the published deadline, all changes are made by using the *Change in Registration* Form which is available at the Office of the University Registrar, or through the Murphy On-line Web registration system. Students should consult the university calendar in this catalog for the specific deadlines for making these changes.

Courses added after the published deadline must have permission of the instructor.

First-semester freshmen must have the approval of their faculty adviser for all changes in registration.

All students are required to meet with their faculty advisers before beginning registration for any semester.

Full refund of tuition and fees is made for courses dropped up to the "last day to drop a course without notation on record" indicated in the academic calendar for each term. The refund schedule for courses dropped after this period is available from the university business office.

Withdrawal from a Course

Courses dropped between the "last day to drop a course without notation on record" and the "last day to withdraw from a course without a grade of F or R" listed in the academic calendar will receive a notation of W.

A grade of W is an official grade and is posted on the permanent record. Since there is no credit and no quality points for a W, the notation does not affect the GPA.

Registration Information

Retaking of Courses

A student may repeat a course if her or his grade or mark is F, R, W, D-, D or D+. Only the higher grade will be used to compute the GPA. Credit will not be given more than once for the same course. Both notations, however, will remain on the transcript.

A student may repeat a University of St. Thomas course only at St. Thomas. A student who transfers to the University of St. Thomas and wishes to repeat a course taken elsewhere must receive permission from the University Registrar to do so.

Withdrawal from the University

Students may withdraw from the university at any time by contacting the Office of the University Registrar. Students who withdraw must return identification cards, keys, and other items that belong to the university. Resident students must check out with the floor resident adviser.

Institutional refunds and financial aid adjustments are determined by the date on which the student initially contacts the Office of the University Registrar.

Grades

At the end of each semester or term, each student who is registered for a course receives either a grade or a mark in that course. In each case, the grade or mark is one of the following letters: A, B, C, D, F, I, R, S or W. At the discretion of the instructor, the grade A may be followed by a minus, as A-, and the grades B, C, D may be followed either by a plus, +, or a minus, -.

Regular Grades

The grades A, B, C, D, either alone or followed by a plus or minus, and the grade F are called regular grades. With each of these grades there is associated a grade point value.

A	4.0	B-	2.7	D+	1.3
A-	3.7	C+	2.3	D	1.0
B+	3.3	C	2.0	D-	0.7
B	3.0	C-	1.7	F	0.0

Regular grades have the following characterization:

A	Excellent work
B	Very good work
C	Satisfactory work
D	Poor but passing work
F	Failing work

The use of plus and minus indicates performance levels between those suggested by these characteristics.

S-D-R Grading

To encourage a wider choice of courses by lessening the student's concern for the grade point average (GPA), selected courses may be taken using the S-D-R grading option, where "S" represents a satisfactory grade (the student would have received a letter grade of A, B, or C); "D" is the same as the letter grade of D; "R" represents unsatisfactory (failing) performance. The following rules apply to courses taken on this basis:

1. The S-D-R grading option is not available for courses taken to fulfill a requirement in the core curriculum.

2. No more than one-eighth of the credits taken through the undergraduate program may be taken on the S-D-R grading option.
3. A student must complete a form at the Office of the University Registrar for any course to be taken on this basis. The published deadline date is in the academic calendar for each term. If the course is part of the major or minor program (including allied requirements), the form must be signed by the department chair.
4. If a student receives a letter grade of C- or above, the mark of S (satisfactory) and credit will be given. If the grade of D, D+, or D- is received, the student has the option of: (1) accepting a mark of R with no effect on the GPA and no credit earned, or (2) earning the credit with the grade of D, D+, or D- becoming the grade of record and used in computing the GPA.

S-R Grades

1. All Experiential Learning courses are marked with S for satisfactory work and R for unsatisfactory work.
2. For Individual Study or Research courses, the mark of S is given for satisfactory work and the mark of R for unsatisfactory work. If a student wishes to be graded according to the regular system (A, B, C, D, F), this choice must be approved by the appropriate faculty supervisor and the department chair. In addition, this choice must be indicated on the form used to outline the individual study project.
3. Several other courses in various departments are routinely marked with S for satisfactory and R for unsatisfactory work. Examples of these courses are PHED 100 and ENGR 150. The grading system for these courses is indicated as part of the regular course description.
4. Courses which are routinely graded on the S-R system are not counted among the one-eighth of a student's courses for which the S-D-R grading system may be selected.

Assignment and Removal of Incomplete (I) Marks

The mark of I is used if the student has not completed the work of the course, has good reason for delay, and has made arrangements with the instructor before the date grades for the course are due to be submitted. Ordinarily, good reason will involve matters not wholly within the control of the student, such as illness. The mark may not be used to allow a student to improve a grade by additional work over and above that ordinarily expected for the course or by repetition of work already submitted to the instructor. The mark of I should not be used without prior arrangement between instructor and student.

The student must complete the designated work and submit it to the instructor by May 1 for an I received in fall semester or January term; by December 1 for an I received in spring semester or a summer session (unless an earlier deadline has been required by the instructor).

In the absence of a final grade report on or before the deadline, the mark of I will be changed by the university registrar to a grade of F or R. The deadline may not be extended. The instructor may change a resulting F or R by means of university grade change policies and procedures.

Change of Grade

An instructor may change a grade if there has been an error in the computation, transcription, or reporting of the grade. Instructors may also change grades of F which resulted from the lapse of Incomplete notations. Changes may not be made on the basis of additional work completed by a student unless all members of the class had the option to submit additional work. After the grading deadline for a term, the instructor must submit the changes to the Office of the University Registrar using the *Official Change of Grade Form*.

Grade Reports

Final grades can be accessed by the student through the UST student Web system. Final grade reports are printed only upon request, using the student Web system.

Grade Point Total and Grade Point Average

Grade points are assigned as indicated above. Note that marks of W, I, R, and S have no grade point value.

The grade point total is the sum of grade points (multiply each grade point value by the number of credits for the course) for all courses with grade point value.

The grade point average (GPA) is determined by dividing the grade point total by the number of credits with grade point value.

For example, using a standard four-credit course as a basis, if a student received two A's (32 points), one B- (10.8 points), and one C+ (9.2 points) divided by 16 (the number of credits), the GPA would be 3.25. If the student received a grade of F (0 points) in a course, the grade point total would still be divided by 16 credits, but the GPA obviously would be lower.

Progress toward a degree

Student Classification

A degree student is one who takes courses for credit toward a degree at the university.

A student who takes courses for credit but without expectation of a degree is called a non-degree student.

An auditor is a student who takes courses without expectation of credit.

A degree student who takes 12 or more credits during a semester is considered a full-time student. A degree student who takes fewer than 12 credits for credit is considered a part-time student.

A degree-seeking student is ranked by credits successfully completed:

- fewer than 28 credits = freshman
- between 28 and 59 credits = sophomore
- between 60 and 91 credits = junior
- 92 credits or more = senior.

Catalog of Record

The catalog in effect at the time of matriculation is usually considered the catalog of record and determines the student's graduation requirements. However, a student may wish to choose a later catalog issued before being graduated to take advantage of a revision of a major, for example.

Choosing the new catalog means accepting *all* changes in that catalog from the former one. If there is a change in core curriculum requirements, for example, the student will be responsible for those changes or will need to petition for a waiver. Generally speaking, the student may choose any catalog in force during the time the student is enrolled for a degree.

Students should contact the office of Academic Counseling if they wish to change their catalog of record.

Date of Graduation

A student who completes all requirements for a degree between February 1 and June 30 will receive a diploma dated May.

A student who completes all requirements for a degree between July 1 and August 31 will receive a diploma dated July. A student who completes all requirements for a degree between September 1 and January 31 will receive a diploma dated December.

To be considered completed, the record of work must be submitted to the Office of the University Registrar. Courses which were originally noted "Incomplete" are considered complete when the final grade is received from the instructor.

A student must reapply for graduation if for any reason the student does not graduate in the month originally selected.

Diploma

One diploma is awarded for each degree earned. Diplomas are distributed to graduates after the university has verified that all requirements for graduation have been settled. This may be several weeks after commencement. Diplomas will be sent to the graduate's permanent address by mail.

The size of all diplomas is 8.5 x 11 inches. Information on the diploma includes the name of the university, the university seal, the graduate's name, the degree represented by the diploma, and the date of graduation.

Transcripts

A transcript of a student's academic record will be issued only upon receipt of a written request from the student. A form is available on the Website at www.stthomas.edu/registrar/forms/transcripts.htm. Forward a completed and signed copy along with the transcript fee to the address on the form. Transcripts will not be issued to students who have a hold placed on their records.

Academic Probation

A student who has attempted twelve credits or more at the University of St. Thomas and has not achieved a University of St. Thomas cumulative grade point average of 2.00 or better is put on academic probation.

Registration Information

Each student who is placed on probation will receive a letter from the Office of Academic Counseling and Advising informing that student of her or his probationary status and identifying both the implications of probation and the conditions under which probation will be lifted.

The student will be required to discuss her or his situation with an academic counselor or faculty adviser.

Academic Suspension

A student is suspended from the university for one semester (not a January term or summer session) if he or she is on academic probation and one or both of the following occurs:

1. the student has not achieved a University of St. Thomas semester grade point average of at least 1.75 for courses taken during a fall or spring probationary semester.
2. the student has twice not achieved a University of St. Thomas semester grade point average of at least 2.00 for courses taken during a fall or spring probationary semester.

Each student suspended will receive a letter from the Office of Academic Counseling and Advising identifying the nature of the suspension and the events leading up to it. A student may re-enroll following a semester of suspension, but must make an appointment with an academic counselor to do so.

Academic Dismissal

A student is dismissed from the undergraduate program if one or both of the following occurs:

1. the student has not achieved a University of St. Thomas semester grade point average of at least 1.75 for courses taken during a fall or spring probationary semester following Academic Suspension.
2. the student has twice not achieved a University of St. Thomas semester grade point average of at least 2.00 for courses taken during a fall or spring probationary semester following Academic Suspension.

Each student dismissed will receive a letter from the Office of Academic Counseling and Advising identifying the nature of the dismissal and the events leading up to it.

Students who are dismissed may petition the Committee on Studies for readmission after consulting with an academic adviser. A dismissed student may not register for summer school, or any other term.

Readmission after Suspension or Academic Dismissal

Academic suspension applies only to fall and spring semesters. After the semester of suspension, the student is free to register for the following term, upon consultation with an academic counselor in the Office of Academic Counseling and Advising. This semester becomes a probationary semester and is subject to the conditions listed above under Academic Dismissal.

If a student is readmitted to the university by the Committee on Studies after Academic Dismissal, the conditions of readmission will be stated by the Committee.

Committee on Studies

The Committee on Studies is charged with interpreting the general academic requirements of the undergraduate program and has the authority to grant exceptions and waivers when warranted. It is composed of five elected faculty members and two students appointed by the All College Council. The dean (or designee) of the College of Arts and Sciences serves as chair of the committee.

Requests should be made in writing and presented to the chair. The student should also fill out a *Committee on Studies Petition Form* available from the Office of the Dean of the College of Arts and Sciences. Details regarding the petition process and the signatures required for various types of petitions are contained on the form.

Requests concerning major or minor field requirements should be addressed to the appropriate department chair.

Student Records Privacy – FERPA

The Family Educational Rights and Privacy Act (FERPA) affords students certain rights with respect to their education records. These rights include:

1. The right to inspect and review the student's education records within 45 days of the day the university receives a request for access.
2. The right to request the amendment of the student's education records that the student believes are inaccurate or misleading.
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent.
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by the university to comply with the requirements of FERPA.
5. Directory information may be released without the written consent from the student, unless the student specifies to the contrary as described below.

To withhold directory information from the public, the student normally must file a form available in the Office of the University Registrar within one week from the beginning of the fall semester (or the semester in which the student enters). The order for withholding will remain in effect until the student rescinds it in writing. The form for withholding directory information will inform the student of some possible consequences. For example, if the student's name is withheld, he or she cannot participate in intercollegiate athletics where team rosters are published, or commencement ceremonies.

The complete FERPA policy is available at www.stthomas.edu/registrar/policies/privacy/annual_notice2.htm



Aquinas Scholars

The Aquinas Scholars Program is the honors program of the undergraduate program. It is designed to assist students in developing their intellectual talents, character and interests while pursuing an education of considerable depth and breadth.

See the Academic Information section of this catalog for a description of the program.

Deans' Honor Lists

A student who attains a grade point average of 3.50 or more at the end of a semester in which he or she has taken at least twelve credits for regular grades (A, B, C) will be placed on a Dean's Honor List if there are no grades of D or F or marks of I or R. (Evening program students must have taken at least eight credits in a semester and under the same requirements.)

The list is made public and the student receives a letter of commendation from the appropriate dean's office. Freshmen and first-semester sophomores will be listed by the Dean of Arts and Sciences. Second-semester sophomores, and juniors and seniors will appear on lists depending on their major – from the College of Arts and Sciences, the College of Business, the School of Education, the School of Engineering, or the School of Social Work.

Delta Epsilon Sigma

Delta Epsilon Sigma, a national honor society for students enrolled in Catholic colleges and universities, was established at St. Thomas in 1941. Students become eligible for membership in their junior year. St. Thomas students are accepted into the national organization of Delta Epsilon Sigma after they have been accepted into the University of St. Thomas *Alpha Sigma* chapter and are nominated for membership in the national organization.

Senior candidates must have earned a cumulative grade point average of 3.50, while junior candidates must have a cumulative 3.75 grade point average. Graduate students are eligible for membership upon completion of one-half of their master's degree requirements. Alumni are eligible if they have been graduated with honors or have received a graduate degree.

Student members receive the *Delta Epsilon Sigma Journal* published by the national society three times each year. In addition, student members may submit articles for publication to the Journal, and apply for senior year and graduate school scholarships. Induction ceremonies are held at the beginning of fall and spring semesters each year.

Members enjoy the following privileges: no restriction on class loads; no tuition charges for courses above the normal 16-credit semester load (although course-related fees are to be paid); and attendance as guests of the university at special academic functions.

Department Honor Societies

A number of departments offer membership in an honor society for the particular discipline. Each of these is explained in more detail in the description of the department's offerings in the Curricula section of this catalog.

- Biology – *Gamma Tau* chapter of *Beta Beta Beta*
- Communication – Beta Chi chapter of *Lambda Pi Eta*
- Drama – *Pi Epsilon Delta*
- Economics – *Omicron Delta Epsilon*
- English – *Sigma Tau Delta*
- Foreign Language – *Alpha Mu Gamma*
- Geography – *Mu Alpha Pi*
- History – *Pbi Alpha Theta*
- Political Science – *Chi Theta* chapter of *Pi Sigma Alpha*
- Psychology – *Psi Chi*
- Religious Studies and Theology – *Theta Alpha Kappa*
- Social Work – *Beta Epsilon* chapter of *Alpha Delta Mu*
- Sociology – *Iota* chapter of *Alpha Kappa Delta*

Latin Honors

Three types of academic honors are conferred upon graduates of the undergraduate program.

All students considered for graduation with Latin honors have a minimum of 52 credits taken for letter grade (A, B, C, D) at the University of St. Thomas.

All students eligible for Latin honors who have applied for graduation will be informed by the Office of the Dean of the College of Arts and Sciences before mid-term of their final semester that they are eligible for this honor.

Cum Laude

A student whose overall cumulative grade point average and St. Thomas grade point average are both between 3.500 and 3.699 receives the baccalaureate degree *cum laude*.

Magna Cum Laude

A student whose overall cumulative grade point average and St. Thomas grade point average are both between 3.700 and 3.899 receives the baccalaureate degree *magna cum laude*.

Summa Cum Laude

A student whose overall cumulative grade point average and St. Thomas grade point average are both 3.900 or higher and who is judged to be outstanding by members of an Honors Oral Examination Committee receives the baccalaureate degree *summa cum laude*.

The student has the responsibility to arrange a *summa* examination, in consultation with the chair of the major department or director of the interdisciplinary program.

The chair/director, in consultation with the student, shall then appoint an oral examination committee of at least three faculty members, one of whom shall be from the student's major department or program. The examiners shall represent at least three departments and at least two academic divisions or schools of the undergraduate program.

The faculty member from the student's major department or program shall act as chair of the examination committee. A student will multiple majors shall designate one of the majors as the major department or program for purposes of this examination.

Academic Support Programs

The examination should have a central theme so that continuity can be maintained throughout the questioning. The student, in consultation with the chair of the committee, takes the initiative in determining this theme, and conveying it to the other examiners.

Further details concerning the examination will be sent to eligible students and the chairs of their departments by the Office of the Dean of the College of Arts and Sciences.

If a student's performance is judged not outstanding by the examination committee, the chair of the committee shall, with the concurrence of the student, reconvene the examination committee at a later time for the purpose of re-examination. The examination committee for the re-examination will consist of the original members. Should the candidate's performance be judged not outstanding at this second examination, or should the student choose not to be re-examined, the student will graduate *magna cum laude*.

If the candidate for *summa cum laude* is also a candidate for departmental honors that involve an oral defense of an honors thesis, this defense may be substituted for the *summa* honors examination, provided that the examination committee represents at least three departments and two academic divisions or schools of the undergraduate program and that the student's performance is judged to be outstanding by the members of the committee following the same guidelines as set forth for the *summa* honors oral examination.

If the student who is eligible for graduation *summa cum laude* chooses not to take the Honors Oral Examination, the student will be graduated *magna cum laude*.



Academic Counseling

Academic counselors register all new undergraduate students and counsel students with special registration problems.

Counselors also work with students who are experiencing academic difficulties including test anxiety and other academically related problems.

The staff assists the students with their educational goals, helps students evaluate their achievement, and offers encouragement and support.

The Office of Academic Counseling serves as a resource for faculty advisers and their advisees.

Faculty Advisers

Full-time faculty members serve as advisers to all students. During their freshman and sophomore years at St. Thomas, faculty advisers assist students in their academic orientation and in planning their class schedules each semester.

Major field advisers guide their advisees' progress toward a degree by reviewing grade reports and degree audits, and helping students solve academic problems.

Academic Development Program

The Academic Development Program (ADP) is a team-taught combination of courses designed to help incoming freshmen develop proficiency in reading, writing, library and learning skills necessary for college success.

Students are invited to participate in this program if high school records and entrance exams (such as the ACT) indicate weakness in the areas of reading and writing.

Participants in the program register for twelve or sixteen credits in fall semester: ENGL 110 Intensive Writing; a companion course covering one of the core curriculum requirements; and one or two additional courses of the student's choice.

ADP students are required to participate in seminars offered by the Academic Support Center.

Mathematics Resource Center

The Mathematics Resource Center (MaRC) provides a variety of resources, most at no cost to students of mathematics. These resources include a tutoring staff, placement testing, self-study/review programs, math CDs, and general mathematics advising. Also available from the MaRC is a list of private tutors, whose rates are subject to individual negotiations.

Students must satisfy all prerequisites in order to enroll in a math course. Most entry-level math courses require an appropriate Math Placement Code (MPC) derived from an ACT math score or from a UST Math Placement Exam, which may be taken in the MaRC during regular hours. Students whose MPC is NONE can prepare for Math 100 or Math 101 by taking the Basic Math Skills self-study review course (MATH 005). The course has a nominal registration fee.

Consult the Website for more information and the link to practice problems for the Math Placement Exam or for the Calculus II Readiness Assessment:

www.stthomas.edu/mathematics/MaRC

Academic Support Center

The Academic Support Center (ASC) provides academic support through tutoring and referral services, individual assistance in study skills improvement, test taking preparation, college reading techniques, college survival skills, and campus seminars and workshops.

All services are confidential and free of charge.

Enhancement Program – Disability Services

The University of St. Thomas offers services for students with learning disabilities, psychiatric disorders, Attention Deficit Disorder, traumatic brain injuries, and physical disabilities. Services are offered under the philosophical premise that qualified students with disabilities can succeed academically if given appropriate programming and adequate support. All accommodations, auxiliary aids, and services are offered through the Enhancement Program.

Qualified students with disabilities are responsible for identifying themselves and making all requests for accommodations and aids or services to the staff of the Enhancement Program.

Support services are provided to enrolled students and based on assessed needs. These services include screening interviews and referral services, accommodation and academic assistance service, interagency coordination and advocacy services.

To be eligible for these services, documentation from a licensed professional is required. The documentation should state the nature of the disability and the types of accommodations recommended by the licensed professional.

For more information, please contact the Enhancement Program Office, located in OEC 119 or consult the Website:

www.stthomas.edu/enhancementprog/

Center for Writing

Undergraduate and graduate students at all levels of experience and expertise across the university use the Center for Writing. In intensive one-on-one hourly sessions, students typically work on issues such as developing ideas, creating a focus, organizing materials, and clarifying sentences. Most students work on course assignments, but may work on graduate school and job applications, extensive research papers, master's theses and dissertations.

The Center is staffed by peer writing consultants who are selected through a rigorous application and interview process conducted each spring semester. The staff does not offer an editing service, but instead provides the much more valuable service of working collaboratively with students to help them best express what they want to say in their writing.

Services are free. Computers are available to work on during a session with most software for IBMs available.

Major Field Advisers

After a student has completed 48 semester credits, the student fills out a major field card and applies to be accepted as a major in his or her chosen field.

When the student has been accepted as a major in a particular department the guidance of her or his program is then transferred from the freshman/sophomore faculty adviser to a departmental major field adviser.

Information Resources and Technologies

Information Resources and Technologies (IRT) oversees the university libraries, information and computing technology (systems and desktop application acquisition, support and service) and instructional and institutional Web and media services.

IRT provides information technology (computing and library) support and service as well as telecommunication (telephone) services to students, faculty and staff. All public computing facilities are available to students for classroom, tutorial and research applications free of charge. Long distance telephone services and voice mail are available to on-campus students for a nominal fee.



Student Life

Students will find that there are many cultural, social, and educational events to attend and many activities in which they may participate. Students can further develop their leadership skills by being an active member in one of over 70 clubs and organizations on campus. Being involved with the student life on campus helps to create a well-rounded and spirited college experience.

All College Council

The All College Council (ACC) is the student government of the undergraduate program, representing undergraduate students. All student organizations and clubs fall directly under the Council. STAR (St. Thomas Activities and Recreation) and the ACC operations are financed by an activity fee assessed each full- and part-time student each semester.

Membership in the All College Council consists of six executive officers, two off-campus and two on-campus representatives, one Residence Hall Association representative, the class president and two representatives from each class, one International Student representative, one HANA student representative, one STAR representative, one St. John Vianney representative, one student organization's representative, an external affairs representative, and an adviser, who is the executive director for Department of Campus Life.

The ACC functions in an advisory capacity to administrative and faculty decision making.

Participation in Faculty Committees

Students of the undergraduate program work cooperatively with the faculty and administration on seven committees: the Student Life Committee, the Grievance Committee, the Committee on Discipline, the Undergraduate Planning and Policy Committee, the College of Arts and Sciences Curriculum Committee, the Undergraduate Committee on Studies, and the Budget Advisory Committee.

The function and authority of these committees may be found in the *Student Policy Book*.

Electronic Student Services

Electronic Student Services (ESS) is committed to enhancing the student learning experience and advancing technological communication for students, faculty, and staff. Working collaboratively within Student Affairs and the university community, ESS promotes, creates, and supports technology initiatives, develops divisional marketing strategies, coordinates division publications, and offers access to comprehensive cultural and outdoor educational experiences. As an advocate for technology, the ESS staff work to learn more about the technological needs, expectations, and interests of students and to share this information throughout campus.

Student Organizations and Clubs

There are approximately 70 clubs organized on campus for a variety of purposes including academic,

Student Life

athletic, honor and recognition, special interest, and university service. All student organizations' recognition and funding processes are overseen by the All College Council and the Department of Campus Life. Some of these clubs are organized around the career objectives of their members or according to their major field of interest; others are organized according to common interests. Some professional, service and social fraternities have chapters on campus.

A description of all the clubs, organizations, and other types of involvement on campus is available on-line. An Activities Fair is held at the beginning of each semester to allow interested students to learn more about the clubs.

Intercollegiate Athletics

The intercollegiate athletic program includes twenty-two varsity sports.

Men's varsity sports are soccer, cross country, football, hockey, basketball, swimming, baseball, golf, tennis and indoor and outdoor track and field.

Women's varsity sports are volleyball, hockey, cross country, basketball, swimming, soccer, softball, tennis, golf and indoor and outdoor track and field.

Intramural Activities

Numerous intramural activities are offered throughout the academic year for men and women.

During the fall semester activities include: flag football, whiffle ball, 4-on-4 basketball, racquetball, coed soccer and volleyball.

During the spring semester the offerings include 5-on-5 and 3-on-3 basketball, floor hockey, sand volleyball, ultimate frisbee and softball. Several aerobic classes are also offered and students are encouraged to use the recreational facilities for leisure enjoyment. All leagues are free and open to students, faculty and staff. Sign-up forms are available at the cage in O'Shaughnessy Hall.

Student Publications

Each student publication has a faculty adviser, or a managing editor, but the university delegates editorial freedom and responsibility to the editors, giving them latitude to carry out editorial responsibilities. The university is the official publisher of all student publications which, in turn, are governed by the Board of Student Media.

The photo staff consists of student photographers who work throughout the year taking pictures for the publications. The staff is supervised by student editors and publication advisers.

The Aquin

The *Aquin* is the student-edited newspaper at St. Thomas. Its primary purpose is to serve as a voice of the St. Thomas community. Opinions, ideas and information are welcomed from students, faculty, administrators and staff. The paper is published every week during the fall and spring semesters. Applications for *Aquin* photographers and editors are made to the Department of Journalism and Mass Communication.

The Aquinas

The *Aquinas* is the university yearbook, and its student staff captures the school year's events through words, pictures, and graphic theme. The yearbook is distributed at no cost to all full-time undergraduate students in the fall of each year. Applications for *Aquinas* student staff positions are made through the *Aquinas* yearbook managing editor's office in Murray Herrick Center 112D.

Summit Avenue Review

Summit Avenue Review is the literary and visual arts magazine at St. Thomas. Designed and edited by students, the magazine publishes poetry, fiction, literary nonfiction, photography, and other visual art from the St. Thomas community. Work on the magazine begins in early fall, with a first submissions deadline in December and an April publication date. Inquiries should be sent to the Department of English. The magazine's Web address is:

www.stthomas.edu/SummitAvenueReview

Musical Organizations

Student musical ensembles appear regularly in concerts on campus, in the Twin Cities area, and tour nationally and internationally.

Instrumentalists and vocalists with diverse interests can choose from a selection of large and small ensembles – bands, orchestra, choirs, jazz ensembles (both vocal and instrumental), ensembles for pianos, guitars, woodwinds, brasses, strings, percussion, and music theater productions. Membership in most of these organizations is by audition. For details consult the current *Handbook for Music Students* available from the Department of Music.

Theater

Four productions per year are presented by the joint Department of Theater of the University of St. Thomas and College of St. Catherine. Alternating between the two campuses, the productions are presented at UST's Foley Theater and at CSC's Frey Theater, with the occasional use of the O'Shaughnessy Auditorium at CSC. The season of plays each year includes a variety of time periods and styles, from classical Greece to contemporary American. A musical is presented every year. Admission is free to all students with ACTC identification.

All students are eligible to take part in theater productions, regardless of major. Casting is by open audition. Audition notices are posted throughout campus and on the Department of Theater's Website. To work backstage, students may sign up at the annual Theater Open House in the fall, or by contacting the department's technical director.

In addition to its production season, the Department of Theater sponsors an improv comedy team, the OxyMorons. This team performs on the two campuses and in local venues. To join, sign up at the annual Theater Open House or contact the chair of the department.

Film Club

The Film Club, sponsored by the joint Department of Theater of the University of St. Thomas and College of St. Catherine, meets weekly to view and discuss outstanding current film. Admission is free, and refreshments are served. For a schedule, contact the chair of theater or check the department's Website.

Dean of Student Life Office


The Dean of Student Life Office assists and supports students in achieving their academic and personal goals. They are available to answer questions, to help resolve issues or concerns, and to refer students to the appropriate department, office or community resource.

The staff members of the Dean of Student Life Office provide a variety of programs and services for undergraduate and graduate students. These include new student orientation, student advocacy services, students' rights and responsibilities information, judicial services, emergency loans, and the publication of the on-line *Student Policy Book*.

The On-Line Student Policy Book

The *Student Policy Book* is published by the Dean of Student Life Office. It contains information regarding the Student Code of Conduct and all expectations, guidelines and policies that govern student life. All students are responsible for familiarizing themselves with the expectations outlined in the on-line *Student Policy Book* and will be held accountable for upholding the university's policies. It can be found at www.stthomas.edu/policies.

Student Affairs Life/Work Center

The Life/Work Center in 110 Terrence Murphy Hall on the Minneapolis campus, a department within the Division of Student Affairs, provides special services and resources to meet the unique needs of graduate students, education students (both graduate and undergraduate), and alumni/ae. Our core services include career counseling, personal counseling services, and the resources of the International Student Services and Multicultural Student Services staff. Legal services are provided periodically. Staff in the Life/Work Center can provide consulting services for career development, and personal life management concerns. Staff are available for in-class presentations and can provide resources and support for standardized self assessments which complement the curriculum goals. Contact the Life/Work Center at 651-962-4763 or lifework@stthomas.edu. 

Campus Ministry

Campus Ministry believes that the depth of our faith powerfully affects the way we live and what we become. Christ affects us by giving our lives meaning and purpose. But faith can be especially challenged in college. It is in response to this challenge that Campus Ministry invites students, faculty and staff to explore their faith more fully through worship, service and personal growth.

In addition to six full-time professionals, Campus Ministry employs a team of residence hall chaplains and twenty student employees. The staff coordinates the religious life of the campus and offers a variety of programs.

In the area of worship, there are daily, Sunday and special community masses, penance services, evening prayer, and ecumenical services. Students can participate in worship through the Liturgical Ministers Program, Chapel Singers and the Liturgical Choir.

In the service area, Campus Ministry sponsors the Volunteers in Action program, VISION J-term and spring break volunteer service trips, and the Student Coalition for Social Justice.

To inspire personal growth, Campus Ministry has a number of programs, including prayer groups, retreats, pastoral counseling and referral, marriage preparation, crisis intervention, special groups for support (*e.g.*, Faith in Action – a chapter of Courage ministry for those dealing with sexual orientation issues), and Common Ground – a house of hospitality where students gather to relax, pray, study, and meet new people.

Campus Ministry also offers the Rite of Christian Initiation for Adults (RCIA) to those who are preparing for baptism, eucharist and confirmation in the Catholic Church.

The Center for Campus Ministry is located in Murray-Herrick Center.

Personal Counseling and Testing

Personal Counseling is available to help students deal with a wide variety of concerns from the concerns of daily living to problems of a more serious nature. In addition to the licensed psychologists employed by the university, outside referral sources are also available. Personal Counseling also provides groups, workshops, seminars and consulting services on a variety of topics. Walk-in hours are available every day and are listed in the Daily Bulletin. Complete confidentiality is maintained in accordance with legal requirements and the professional code of ethics. The Personal Counseling Website has an extensive self-help section including anonymous screening for depression, anxiety, alcohol and eating disorders: www.stthomas.edu/pc.

Testing Services

Testing Services located in the Personal Counseling Office offers a full range of services including personality assessment, career testing, and group tests such as the Law School Admissions Test and the Miller Analogies Test.

Student Services

Career Development Services

The Career Development Center provides expertise and information to students and alumni in the area of vocation and career. This includes assistance with the tools and methods necessary for finding jobs and internships. The department provides individual assistance and convenient access to quality resources. Services are available to St. Thomas students and alumni.

Individual counseling, seminars and a variety of resources are offered to assist in:

- Self-assessment and vocational testing
- Career choice
- Major field choice and change
- Researching specific careers and employers
- Seeking internships, full-time, part-time and summer employment
- On-campus interviewing
- Utilizing technology in career development

Career Coaching and Counseling

Confidential, individual appointments and workshop presentations are used to assist students with skill building and career planning. Students explore their interests, values and abilities to determine possible career options.

Web Services

Our services can be accessed on the Web from campus, work, home, or anywhere with an Internet connection. Our Website is an invaluable asset, acting as a technological enhancement to broaden the reach of our services. It features seminars, handouts and information produced by our office, as well as suggested links to career resources on the Web.

www.stthomas.edu/career

Commuter Center and Off-Campus Services

The Commuter Center provides hospitality, information, programs, resources, and services to all students with an emphasis on commuters, non-traditional students, and students that live in the immediate neighborhood. Services include: off-campus housing listings; renter education materials; free legal advice; locker rentals; commuter e-mail updates; a student parent lending library; and lounge space with a microwave, refrigerators and computers. The Center is located in the lower level of Murray Herrick Campus Center. Phone: 651-962-6138; Website:

www.stthomas.edu/commutercenter

Multicultural Student Services

Multicultural Student Services (MSS), consistent with St. Thomas' Catholic tradition, is concerned with providing a comprehensive system of advocacy and support for U.S. students of color and permanent residents. The goal is to improve retention and the quality of the UST experience. We strive to prepare all students to think and act responsibly when confronted with the myriad diverse and changing needs of their local community and the world at large. Initiatives addressing academic support, developing partnerships and educational programming complement the academic mission of the university.

Multicultural Student Services also provides scholarships for undergraduate U.S. students of color. Information about these and other funding opportunities may be obtained from Student Financial Services.

International Student Services

International Student Services provides advising and programming to support international students as they pursue their educational, career, and personal goals. This includes promoting the full integration of international students into the university community and intercultural training for students, faculty and staff.

International Student Services provides the following services and programs:

- Orientation programs (2-4 days) for new students about academic, cultural, legal, and practical life at a U.S. university
- Immigration advising for all nonimmigrant students and documentation for F-1 and J-1 students
- Counseling and advising on academic, cultural, financial, health, practical and personal matters
- Mentor Program: US and international students are hired and trained to serve as guides and helpers to new students
- Weekly International Student Electronic Newsletter
- A Website with information on programs and services, immigration rules, activities and programs, and the newsletter:
www.stthomas.edu/oiss
- Monthly International Forums on international intercultural topics for U.S. and international students, staff and faculty
- Close cooperation with the Globally-Minded Student Association, with U.S. and international members, which promotes interaction and interchange of ideas through social and cultural activities
- Cultural and educational programming
- Career and job-search workshops in cooperation with the UST Career Resource Center

Box Office & Expeditions

The Box Office & Expeditions offers the university community the opportunity to purchase tickets to many UST campus-sponsored events (including campus dances and concerts), as well as discounted tickets to many local Twin Cities cultural, theatrical and athletic events. A sampling of tickets includes local theater productions, museums, athletic events, movie theaters, and specialty entertainment.

Expeditions is the campus outdoors programming and educational center. Expeditions offers a wide variety of outdoor camping, sporting and athletic equipment for a minimal fee. In addition to equipment and camping rentals, Expeditions also sponsors annual off-campus educational experiences which in the past have included: white water rafting, rock climbing, dog sledding and an excursion to the Florida Everglades.

Housing

The University of St. Thomas has accommodations for approximately 1,880 students in its residence halls, apartments, and other university-owned housing.

The residence halls – Brady, Cretin, Dowling, Grace, Ireland, John Paul II, Murray – are managed by professional staff and undergraduate resident advisers. Apartments in Morrison Hall, 2171 and 2175 Grand Ave are also managed by the university Campus Living Office. St. John Vianney Hall is the college seminary residence.

The residence halls have computer rooms, laundry rooms, study lounges, recreation rooms and a hall desk with some sports equipment, tools, vacuums and games available for student use. Koch Commons has a fitness center and a snack food outlet, the Pit Stop.

Upon admission to the undergraduate program, each student will receive an *Application for On Campus Student Housing*. New students desiring space in the residence halls must complete the application and return it to the Office of Admissions with a \$200 room deposit which is credited to the student's room and board charges during the first semester of residence. These applications are considered on the basis of date received.

Students currently living in university housing must complete the *Application for On Campus Student Housing* by the date established by the Office of Campus Living for the coming academic year.

For specific financial information, each student should refer to the *Residence and Food Service Agreement*, and the *Summary of Financial Procedures* for the current year. Both are available from the Office of Campus Living, Koch Commons. With the exception of the Grand Avenue apartment residents, and juniors and seniors in Morrison Hall, all students living on campus must purchase one of the available options for a meal contract.

Students who will be residents should bring their own sheets, pillows, blankets, towels and washcloths. They also should bring their own desk accessories. Laundry rooms with automatic washers and dryers are available for student use.

Each student is provided with a bed, dresser, closet space, desks, desk chair, and lounge chair. Rooms in John Paul II and Murray Hall are provided with lamps and tables. John Paul II, Murray, and Grace Halls are also carpeted and have private bathrooms. Morrison Hall includes furnished living rooms, bedrooms, full bathrooms and kitchenettes.

Each student room has telephone service at no cost except for long distance charges, and voice mail. An Internet and cable TV connection is available in each room.

Additional information regarding residence hall life is contained in the *Resident Student Handbook*.

Dining Facilities

All food locations accept Flex or Express dollars and cash.

St. Paul campus

Murray-Herrick Center houses a number of dining areas designed to meet the needs of various segments of the student population.

The *Food Court* is on the second floor, along with several areas used for special dining and catered events. The Food Court dining area is used for students on the board plan, although anyone may eat in the facilities.

The *Grill* is located on the main floor. Besides its main function of serving food – breakfast through dinner – the Grill provides a central gathering place for students.

Scooter's, located on the lower level, features pizza, gourmet burgers, Dunn Brothers coffee, espresso, various snack and beverage items. It has a dance floor, a stage for live entertainment, a large screen TV and special sound equipment.

The *C-Store* is located adjacent to Scooter's on the lower level. Assorted snacks and sundries are available.

The *Pit Stop*, is located on the lower level Koch Commons between Brady and Dowling Residences. It provides deli sandwiches, Freshens® smoothies, frozen yogurt, Pretzel Logic large fresh baked pretzels with various toppings, and snack items.

The *Binz Refectory* is located on the south campus adjacent to the soccer field. Students who have a food service contract, commuter students and guests may dine in the West dining room.

Beakers is located on the second floor in the Owens Science building. It features Dunn Brothers coffee and espresso, Deli Express Sandwiches, and various snack and beverage items.

Minneapolis campus

Food for Thought restaurant is located on the second floor of the 1000 LaSalle building, offering grilled items, salad bar, soups and a variety of other food, snacks and beverage selections.

The *Coffee Cart* is located on the first floor next to the bookstore lounge area. It features Dunn Brothers coffee and espresso, pastries and snack items.

Student Health Service

An acute health care clinic, located in the lower level of Brady Residence Hall, is designed to competently meet students' individual clinical and preventative health needs in a compassionate, culturally sensitive and confidential manner. Health care needs are addressed by either a physician, nurse practitioner or a registered nurse.

The service is available Monday through Friday 8:00 a.m. to 4:30 p.m. Same-day appointments are usually available. Please call 651-962-6750 to schedule appointments.

Most services of the center are provided free of charge. In cases of a serious illness, students will be transferred to one of the area hospitals where they will be treated with charges billed to the student's insurance company.

Student Services

Urgent Care centers and Emergency resources are listed on the Student Health Service Website. The university offers an optional health and medical care insurance plan to all UST students. International students are required to participate in this insurance plan unless they can demonstrate comparable coverage. The policy is a low-cost accident and sickness insurance plan underwritten by a national insurance company. Information on these policies is sent to returning students and incoming freshmen every year.

All students must submit a health history and immunization record. A physical exam is required for any student wishing to participate in sports or study abroad.

All students born after 1956 who are enrolled in a Minnesota public or private college or university are required by Minnesota law to be immunized against diphtheria, tetanus, measles, mumps, and rubella. Questions should be addressed to the Student Health Service. A *Record of Immunization* form is available from the Office of Admissions, Student Health Service or on-line through the UST Student Health Service Website:

www.stthomas.edu/studenthealth

Wellness Center

The Wellness Center is dedicated to assisting students, staff, and faculty in developing healthy lifestyle choices and promoting behaviors that result in enhanced well-being. The center embraces the concept of wellness in developing the whole person.

The center offers programs, resources, and educational material on health promotion and illness prevention. The center is designed to increase the overall health of the university community and promote healthy lifestyle choices that will serve individuals throughout their lives.

The center is located in the lower level of Koch Commons.

Public Safety and Parking Services

The Department of Public Safety and Parking Services is located on the first floor of Morrison Hall and is open 24 hours a day, 7 days a week for the community's convenience. Public Safety officers are always on duty to answer questions or assist in whatever way possible.

Parking

Parking lots on University of St. Thomas property are open to vehicles with the appropriate UST parking permit. Faculty, staff and students must have a permit to park on campus.

Permits may be purchased at the Department of Public Safety and Parking Services, or at designated locations throughout campus during the first week of the fall semester.

Visitors to the University of St. Thomas St. Paul campus may park in the Morrison Hall ramp, the parking meters, or in Lot T with a south campus visitor permit.

Resident students are required to enter a permit lottery in order to be eligible to purchase a parking permit. Lottery forms may be picked up

from Public Safety and Parking Services during spring semester for the following fall.

In order to purchase a parking permit, a UST identification card is required. Resident students are required to provide an accurate license plate number of the car. Persons purchasing a parking permit will receive a parking map indicating the lots available for the type of permit purchased, and a book or Web address of rules and regulations regarding parking.



Chapels

Chapel of St. Thomas Aquinas

The present Chapel of St. Thomas Aquinas was built in 1917. E.L. Masqueray, who also designed the St. Paul Cathedral and the Basilica of St. Mary, Minneapolis, was the architect. The university's chapel is an excellent example of the classicized mode of design that emanated from the Ecole des Beaux Arts during the early years of the twentieth century.

The luminous stained glass, designed by Chester Leighton of Minneapolis, and the paintings containing sacred and secular details by Joseph Capocchi and Carl Olson, were installed in the 1940s. The chapel was renovated in 1987.

In 1987, a three-manual 56-rank mechanical action pipe organ, designed and built by Gabriel Kney of London, Ontario, was installed.

St. Mary's Chapel

St. Mary's Chapel of The Saint Paul Seminary was begun in 1901 and consecrated in 1905. Designed by Minnesota architect Clarence H. Johnston in the basilica style, it blends Romanesque and Byzantine architecture. Artist Bancel LaFarge of New Haven, Connecticut, completed the installation of the stained glass and murals in the 1930s.

The chapel was renovated in 1973, and more extensively in 1988. This project was undertaken with the assistance of liturgical consultant Frank Kacmarcik. A new sanctuary area was created in the north end of the chapel allowing the apse area to become the environment of the baptismal font and new access to the chapel.

In the spring of 2000 a two-manual, 27-rank mechanical action pipe organ designed by Noack Organ Company of Georgetown, Massachusetts, was installed.

St. John Vianney Chapel

The university seminary chapel was redesigned in 1998 by the Rev. Peter Christensen, the rector at that time. The theme of the chapel is "The Tree of

Life." The chapel, an adjoining Eucharistic chapel, and an adjacent prayer room, replicating a medieval monastic cloister, are open for anyone wishing to use them. The seminary has become a focal point for contemporary religious art, including the iconic triptych in the foyer and the mosaic behind the altar.

A small one-manual Van Daalen organ was moved to the chapel in 2000.

Florance Chapel

The Florance Chapel is the lower chapel in the Chapel of St. Thomas Aquinas. An award-winning design in its renovation, it incorporates modern furnishings in the prairie school style of Frank Lloyd Wright along with some of the oldest sacred sculptural artwork owned by the university.

St. Thomas More Chapel

Located in the School of Law on the Minneapolis campus, the two-story St. Thomas More Chapel features colored art-glass windows, seating for more than 100 and a striking bronze crucifix. A meditation room overlooking the chapel on the second floor provides a quiet respite and a place for reflection.

University Libraries

The University of St. Thomas libraries contain more than 458,000 book volumes, 2,295 periodical subscriptions and provide access to nearly 150 electronic databases.

O'Shaughnessy-Frey Library

The O'Shaughnessy-Frey Library Center is the principal library on the main campus, housing (in addition to the general and reference collections) the university Archives and Special Collections Department. The latter contains the Celtic Collection, one of the most outstanding collections of its type in this country, and a notable collection of Hilaire Belloc and G.K. Chesterton.

Archbishop Ireland Memorial Library

The Archbishop Ireland Memorial Library, located on the south campus, is the graduate theological library which primarily serves The Saint Paul Seminary School of Divinity.

Charles J. Keffer Library

The Charles J. Keffer Library, located in Opus Hall on the Minneapolis campus, is the library for the School of Education, graduate programs in the College of Business, and the Graduate School of Professional Psychology.

CLIC/MINITEX

Cooperating Libraries in Consortium (CLIC) allows students to obtain books and periodical articles from other CLIC libraries. CLICnet, the computerized public access catalog, serves Augsburg College, Bethel College, Concordia College, Hamline University, Hamline Law School, Macalester College, Northwestern College, the College of St. Catherine, and the University of St. Thomas. Interlibrary loans for materials not owned by the university are available within the CLIC institutions.

Another cooperative venture, MINITEX (The Minnesota Interlibrary Telecommunications Exchange) links the university with more than 200 libraries throughout Minnesota, Wisconsin, and North and South Dakota. Periodical holdings for all MINITEX member libraries are listed in the Minnesota Union List of Serials (MULS) and are available at the reference desk as well as the necessary request forms.

Library Services

The library staff offers a wide range of services to support coursework and research. Reference librarians provide individual help as well as classroom instruction in the use of library materials. Group study rooms are available throughout the library, and a limited number of individual study carrels are assigned for a semester at a time.

National interlibrary requests are available and further information about this can be obtained from the ILL Office.

Website: www.lib.stthomas.edu.

Computer Labs

The Learning Center, on the lower level of O'Shaughnessy Educational Center, is the central computer lab and media facility at the university. IBM, Macintosh, and Alpha networks are available, plus audio and video playback and editing systems.

Computer labs are available in the Christ Child Building, McNeely Hall, and the Frey Science and Engineering Center. Some departments also have labs for use by their students.

The Department of Mathematics and Center for Applied Math have two computer labs which are open to all students enrolled in mathematics courses.

The Luann Dummer Center for Women

The Luann Dummer Center for Women was established in 1993 by a special bequest from the estate of Dr. Luann Dummer, longtime member of the Department of English and founding director of the Women's Studies Program at the university.

The center aims to foster the intellectual, spiritual and personal development of women. The center serves as a meeting place for women to share their expertise and experience and provides opportunities for students to interact with women role models. Although the center is dedicated especially to women, it is committed to the service of the entire campus community within the context of its mission.

The center sponsors a number of grants to support students, faculty and staff. These include a scholarship for a Women's Studies major, research grants for undergraduate and graduate students, professional development grants for staff and faculty, a curriculum development grant, and a leadership award to undergraduate students for participation in programs that will enhance their leadership skills, especially in programs which are directed toward public service.

Facilities

Science Facilities

The Frey Science and Engineering Center, comprising the O'Shaughnessy Science Hall and the Owens Science Hall, houses the classrooms, instructional and research labs, and faculty/staff offices for the departments of biology, chemistry, engineering, geology, mathematics, Center for Applied Mathematics, physics, and quantitative methods and computer science. It also houses special support facilities such as an attached greenhouse and one-third of the university's computer terminals.

Theater and Auditoriums

Productions by the UST/CSC Joint Department of Theater are presented in Foley Theater.

The O'Shaughnessy Educational Center (OEC) auditorium hosts a number of guest lectures, teleconferences and student assemblies.

The auditorium in the John R. Roach Center (room 126) contains state-of-the-art technology. It is used for course lectures, meetings, conferences and is the site for many student activities including film viewings.

The Baumgaertner Auditorium in Brady Educational Center (BEC) is used for musical performances and community events. Musical concerts are also presented in the St. Thomas Aquinas Chapel.

The 3M Auditorium, located in the Owens Science Building, is technologically advanced and hosts a number of course lectures, teleconferences and community events.

The Thornton Auditorium, located in the 1000 LaSalle Building at the Minneapolis campus, serves as the site for a number of lectures and presentations.

Athletic Facilities

The athletic facilities at the university provide for student participation in a variety of varsity, intramural and recreational sports.

The 30,000-square-foot Coughlan Field House contains a running track, five volleyball courts, one collegiate-size and four intramural-size basketball courts, four tennis courts and six racquetball courts.

The adjacent Schoenecker Arena accommodates varsity basketball and volleyball and various recreational sports.

Weight-training and aerobic-training facilities are housed in O'Shaughnessy Hall, in addition to a pool, squash courts, wrestling facility, a multi-purpose gymnasium and a fully-equipped training room. An aerobic-training fitness center is located in the Koch Commons.

Outdoor facilities include a 5,000-seat stadium for football, soccer, and track. The track is an eight-lane poured polyurethane surface.

A 400-seat baseball diamond is located on the north field.

Additional recreational facilities are located on the south campus. McCarthy Gymnasium has a gymnasium, pool, and four racquetball courts. Six tennis courts, soccer and softball fields provide additional outdoor facilities.

A telephone hotline is provided to keep students informed of the availability of recreational

facilities on a day-to-day basis.

University Bookstores

The St. Paul campus Bookstore is located in the Murray-Herrick Campus Center. The store sells new and used textbooks, school and office supplies, computers and computer supplies, insignia clothing and gifts, candy, jewelry, tapes and CDs, cards, gifts and magazines.

The Minneapolis campus Bookstore, located in Terence Murphy Hall, sells textbooks for classes taught on that campus. It also carries many of the same items mentioned above.

Call each store for hours of service.



Curricula

Programs and courses in this section are available to undergraduate students in all colleges and schools of the university.

Course Offerings

The courses listed in this section of the catalog are arranged alphabetically by discipline within colleges and schools in the following order: Generic Courses; Interdisciplinary Courses; College of Arts and Sciences – departments; College of Arts and Sciences – Interdisciplinary Programs; College of Business; School of Education; School of Engineering; School of Social Work. Each listing includes a description of the course, and an indication of any prerequisites. Numbers which appear in parentheses next to a course title refer to courses whose content overlaps with the course described. Students may not receive credit for both of the courses in such cases.

Course Unit

The basic unit of instruction is a four-credit course. The ordinary academic load for a student during one semester is sixteen credits. Courses that carry more or fewer credits than four are noted in the listing.

Generic Courses

Some courses are offered under the same numbers in all or most academic departments. Since the particular subject matter changes, these course numbers may be taken more than once in a given department. Departments may choose to place limitations on these courses, or may have additional requirements. Additional information will be found in the departmental listings. Generic courses include Topics, Experiential Learning, Seminars, Research, and Individual Study.

Topics Courses

The subject matter of the course will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

295, 296 Topics

2 credits

The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

297, 298 Topics

4 credits

The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

487, 488 Topics

2 credits

The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

489, 490 Topics

4 credits

The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

Experiential Learning

The university will grant credit for experience to a registered student if the student's proposal for the work (to include the method of evaluation of the learning that occurs) receives prior approval of the department involved, and the student successfully completes the experience agreed upon. The most common type of experiential learning is an internship.

Credit granted in this way is graded on an S/R basis. A maximum of eight credits of Experiential Learning may be counted toward the 132 credits required for graduation. The regular tuition for the number of credits is charged.

Prior to the occurrence of the experience for which credit is being sought, a student makes a formal request for four credits or two credits. This request includes:

- a detailed description of the experience for which credit is sought and a statement of its academic significance and validity in the student's program;
- an indication of any supplementary academic requirements to be fulfilled: papers, reports, *etc.*;
- the name of the person at the University of St. Thomas who will approve the proposal, maintain periodic contact with the off-campus supervisor and student and corroborate the evaluation of the experience;
- an outline of the evaluation procedures to be used.

Students requesting credit for Experiential Learning usually will have attained junior or senior status. The request must be approved by the chair of the department in which credit will be awarded.

The minimum number of hours of on-site work (usually 100 hours for two credits; 200 hours for four credits), meetings with St. Thomas faculty, meetings with the on-site supervisor, and evaluation of the project will be determined by the department.

Forms for requesting credit for Experiential Learning are available from the chair of the department involved. These must be completed, obtaining signatures from the faculty member, the chair of the department, and the dean. The form is then presented to the registrar at the time of registration.

Cross-College Courses and Programs

When, in the view of the department, supervision and evaluation of the experience are provided chiefly by a person at the University of St. Thomas, the student should seek credit by means of Individual Study.

475, 476 Experiential Learning 2 credits
The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

477, 488 Experiential Learning 4 credits
The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

Seminars

Seminars are offered in a number of departments. With the exception of Honors Seminars in the Aquinas Scholars program, regular tuition is charged.

483, 484 Seminar 2 credits
The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

485, 486 Seminar 4 credits
The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

Research

Some departments offer the opportunity to do research in the discipline. Research involving human subjects may not begin prior to review and approval by the Institutional Review Board (IRB) for the Protection of Human Research Subjects. Student researchers are advised to consult with a faculty adviser and secure the needed forms and other information from the IRB Web site (<http://www.stthomas.edu/irb>) early in the research planning process. Regular tuition is charged.

491, 492 Research 2 credits
The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

493, 494 Research 4 credits
The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

Individual Study

Individual Study refers to a type of learning contract in which a registered student and/or professor have the responsibility for defining, organizing and evaluating a special project of limited scope (limited in content and in the time designated for its completion). Individual Study provides an opportunity for students (usually at junior or senior status) to receive one-to-one instruction and guidance, while pursuing a subject of special interest. It also allows instructors to share their continuing personal study and to foster the abilities manifested by their students. This work is completed independently under the instructor's personal direction.

Students interested in pursuing Individual Study should discuss their plans with the appropriate faculty member. When the project has been determined, the faculty member will provide the Individual Study contract forms. These must be completed prior to registration. The Individual Study contract must be approved by the supervising faculty member, the chair of the department, and the dean of the College.

The grading for Individual Study may be standard (A,B,C, *etc.*) or Pass/Fail (S/R). This selection and a statement of explanation justifying the choice must be indicated on the Individual Study contract when it is presented to the registrar. (If the course is in the major field, grading must be on the standard system.)

Individual Study may be pursued for either two or four credits. Determination of the amount of credit awarded is at the discretion of the department, but should reflect an academic rigor commensurate with a regularly-offered course for the same amount of credit. Regular tuition is charged.

495, 496 Individual Study 2 credits
The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

497, 498 Individual Study 4 credits
The even number is normally used by the department. The odd number is used if the course has been approved to fulfill a core curriculum requirement.

Interdisciplinary Courses (IDSC)

Barretta-Herman, associate vice president for academic affairs, director

150 Development of the Natural World

This is an interdisciplinary course which examines our universe and integrates the sciences of biology, chemistry, physics, geology and astronomy. The nature of the cosmos and the Big Bang theory are first introduced, followed by a study of the basic principles of gravity, energy, thermodynamics, electromagnetic radiation, and the structure of matter, including chemical bonding and the Periodic Table. The nature and formation of the stars and planets is followed by a focus on the earth, including plate tectonics and geologic cycles. An introduction to biochemical systems includes a look at cells, biochemical molecules, genetics and evolution. An integrated unit on ecosystems ties together much of the previous work. The scientific method is emphasized throughout the course. The course consists of lecture, discussion and laboratory activities. This course fulfills the laboratory science requirement.

180 English as a Second Language I

Special and individual attention to speaking, writing, reading, listening and study skills. For students whose native language is not English. Offered in fall semester.

181 English as a Second Language II

Continuation of 180. Offered in spring semester.

Prerequisite: 180 or permission of instructor

281 Topics in American Culture

An interdisciplinary approach to a particular period in American life (the 1920s, the 1950s, *etc.*). Course will seek to isolate the basic themes that characterized the cultural life of the period and examine their manifestations in the art, music, literature and popular culture of the era. Particular emphasis will be given to the interdisciplinary perspective in approaching the topic.

284 Introduction to Teach Religion

2 credits

The course includes a six-hour seminar including at least three basic skills related to the act of teaching as well as a year of teaching in a local parish religious education program once a week. The teaching placement is done through consultation with each student and cooperating teachers who have a sound understanding of the life and ministry of teacher education in the church. Specific seminar content will enable students to do the following: define the term “concept” and explain how key concepts are developed by learners; explain the relationship of objectives to overall goals of religious education; define the term “strategy” and develop workable plans for teaching within a typical church/school setting.

Prerequisite: Acceptance into St. John Vianney Seminary

287 The German Cultural Heritage

An historic survey of German cultural development from the beginnings in antiquity through the present. Attention is given to significant events in the history of Germany, Austria, Switzerland and Liechtenstein and the development of historic events into the living German culture of today. Events and significant achievements in the areas of politics, music, literature, science, philosophy and theology are examined. The course is usually offered online with no classroom meetings.

291 The Anatomy of Violence

The purpose of this course is to increase the knowledge and understanding of cultural, racial and interpersonal violence and develop a commitment to promoting a violence-free society. Emphasis is on exploration of the extent, causes and effects of violence and strategies for intervention on the micro and macro levels. Specific areas of study include domestic/partner abuse, child abuse/neglect, peer/date violence, elder abuse, sexual assault/sexual harassment, cultural violence, racism and other systemic oppression. This course fulfills the Human Diversity requirement in the core curriculum.

293 Grief, Loss and Coping

This courses focuses on understanding loss and grief in the human experience. Emphasis is given to recognizing loss in various forms and to understand grief from different perspectives. Content includes theory from psychology, sociology, social work, and medicine/nursing along with materials from literature, lay persons and a spectrum of multicultural influences. Skills are taught for coping with personal loss and for relating in helpful ways to others who are experiencing grief. Special topics related to death and dying in our society including trauma, suicide, child loss and chronic illness are covered. A variety of teaching methods will engage learners to better understand the many influences on grief, loss and coping.

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

Cross-College Courses and Programs

310 Washington Semester

16 credits

The University of St. Thomas is affiliated with the American University's Washington Semester Program, Washington, D.C. Students selected to participate in the program have the option of studying one of the following: American Politics; Economic Policy; Education Policy and Special Education; Foreign Policy; International Business and Trade; International Environment and Development; Journalism; Justice; Peace and Conflict Resolution; Public Law; Transforming Communities; Visual and Performing Arts. The Washington Semester involves seminars, research and internships drawing on governmental and private organization resources in the Washington, D.C. area. Nominations to participate are made by the university, with final acceptance decided by American University.

312 Gender and Science

This course examines women's participation in science currently and historically. Students will examine the contributions of women scientists and explore the question: Do women do science differently from men? The course explores the way science is used to study questions related to gender. In this course students will study the ways that scientific work has, at times, been a tool for challenging cultural stereotypes and biases. This course fulfills the Human Diversity requirement in the core curriculum.

313 A Vision of Community Action and Change in Guatemala

The majority of this course will occur among the Mayan people of the Guatemalan highlands. Students will study the politics, history, cultures and economy of Guatemala as a case study on some of the major issues facing many Third World countries at the beginning of the 21st century. Particular attention will be given to topics such as Guatemala's struggles over ethnic and national identity, its place in the global economy, its peace process, and the role of the church. Speakers, readings, and field trips will allow students to compare alternative models of social change and human development in the region. Complementing academic engagement with these issues, students will engage in practical service-learning activities that relate to the goals of the course. The class will also follow the VISION Program's six-point philosophy.

Prerequisite: Permission of the instructor

320 Seminar in the Human Side of Medicine: Patient and Physician

2 credits

This course will concentrate on learning about how patients, their families, and professionals who care for them experience illness; how stories patients tell become the basis for diagnosis and therapeutic action; what it's like to be a physician; and the therapeutic relationship. Didactic presentations, interactive discussion using stories from patients', students' and the instructor's experience, and related literature will provide the content of the course. Others, including faculty members, professional colleagues, and patients will help provide material for the course work and participate in the discussions.

Prerequisite: Sophomore, junior or senior student interested in a career in medicine or related health profession

330 Renaissance Program Internship

0 credit

Participants in the Renaissance Program complete one internship in a career-related field. Students are encouraged to be creative and to search for inventive ways of implementing a plan of practical work experience. A variety of options and opportunities is available through the Career Center.

333 Renaissance Program Studies

In accord with the Renaissance Program's commitment to foster the integration of theoretical and practical learning, the design of this course is to promote the investigation of some theme or problem having a particularly interdisciplinary focus. This course will rely upon concepts and models stemming from both theoretical and practical sources in an attempt to further integrate aspects of these distinct branches of higher learning. Among the types of issues or topics that could fall within the scope of this course are: the meaning and value of work; the nature and place of technology; the relationship of individual to community; views of self – as worker and theoretician; models and parameters of authority.

340 Criminal Law and the Social Order

Sources of criminal law and traditions and values of society; characteristics of criminal law and an analysis of these characteristics; criminal responsibility and criminal intent; due process; the law at local, state and federal levels, with an emphasis on Minnesota statutes; public opinion regarding the law and its enforcement.

395 Introduction to Pastoral Ministry

2 credits

This is a semester-long pastoral education program that provides for personal involvement and the practical exercise of pastoral ministry. Designed to implement the church's documents and the U.S. Bishops' Program for Priestly Formation, emphasis is placed on the future pastoral ministry of the student. Each student is placed in one of three broad areas of ministry: family crises; chemical dependency counseling; and death, dying and grief arenas. Training and on-going supervision by qualified professionals is provided.

Prerequisite: Acceptance into St. John Vianney Seminary

466 City Arts: Reading Seminar (Creating Social Change: Art and Culture in Political, Social, and Historical Context) (HECUA)

Students critically examine the notion of dominant culture and the purposes of art and popular culture. They identify ways in which the arts and popular culture impact urban social issues and create social change. Students gain the tools to become critical analysts as both consumers and producers of art and popular culture.

467 City Arts: Field Seminar (Arts Praxis: Social Justice Theory and Practice in the Field) (HECUA)
 In the field seminar, students “test” theoretical perspectives by meeting with artists, policy makers, and community activists, as well as attending and participating in art and cultural activities. Students observe how art and popular culture maintain or change social structures.

468 City Arts: Internship (HECUA)
 Each student works in a half-time internship, with a wide variety of placements available, including arts organizations, artistic groups, and community organizations using the arts in programs and service.

469 City Arts: Internship Seminar (HECUA)
 Students reflect on their internship experience with other students in the program and connect their real-life experience with the learning taking place in the reading and field seminars.

471 MUST Seminar: Research on Urban Issues (HECUA)
 MUST focuses on issues of poverty and inequality and ways to address these critical issues. Students explore key institutions that impact urban poverty and inequality, namely the economy, education and welfare. The role of urban sprawl, segregation and racial, class and gender discrimination are also analyzed. Students examine an array of strategies to rebuild the city more equitably.

472 MUST Seminar: Field Studies in the Twin Cities (HECUA)
 Students meet with a wide variety of community leaders, educators, urban planners, corporate executives and others as a way to connect the theories studied with actual practice in the field.

473 MUST: Urban Studies Internship (HECUA)
 Each student works in a half-time internship, with a wide variety of placements available, including public, private and community non-profit organizations working on urban issues.

474 MUST: Urban Studies Internship Seminar (HECUA)
 Students reflect on their internship experience with other students in the program and connect their real-life experience with the learning taking place in the reading and field seminars.

475 Experiential Learning: Career Exploration Externship **2 credits**
 Students will be placed at work sites throughout the Twin Cities area and beyond where their career interests are matched with the cooperating company’s wants and needs. Externs must report to their workplace on at least a half-day basis for four weeks during January term, a minimum of 80 hours “in- place” time on the job. Supervisors at the co-op company will assign specific tasks, duties and projects. The placements will provide students with opportunities to observe, experience and gain a better understanding of the “real world” as it relates to their own interests, values and objectives. Students will work under the direction of a faculty member and will be responsible for additional research and written assignments. This course is offered in January term and the first summer session. May be repeated for a maximum total of 4 credits.

475, 476 Experiential Learning **2 credits**
477, 478 Experiential Learning
 See the description of these courses at the beginning of the “Curricula” section of this catalog.

479, 480 Honors Seminar **2 credits**
 These interdisciplinary seminars are intended to develop integrating insights through an analysis of topics chosen from different disciplines. Often they are taught by two faculty members or by a visiting lecturer who holds one of the endowed chairs at the university. Although these seminars are part of the Aquinas Scholars program, any student who receives the permission of the instructor(s) may enroll on a space-available basis. (IDSC 479 is used if the seminar has been approved to partially fulfill a requirement in the core curriculum.)

481 Seminar in International Studies
 Directed readings and discussions on political, economic and historical aspects of the international system and the completion of a major research paper on a specific topic to be chosen in consultation with the instructor. The seminar will feature guest lecturers in political science, economics and history.

483, 484 Seminar **2 credits**
485, 486 Seminar
 See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics **2 credits**
489, 490 Topics
 The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

Cross-College Courses and Programs

491, 492 Research 2 credits
493, 494 Research
See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study 2 credits
497, 498 Individual Study
See the description of these courses at the beginning of the “Curricula” section of this catalog.

International and Off-Campus Programs

Study Abroad Programs (SABD)

Stevenson (International Education Center), director

The University of St. Thomas encourages its students to incorporate international experience into their academic plans and offers a wide variety of overseas opportunities that serve as an integral part of a student's degree program. These opportunities encompass a wide range of options, including length of stay (semester, academic year, January, spring-embedded or summer), course selection and geographic locale. The staff of the International Education Center assists students in identifying study, work or travel programs appropriate to the individual's desires and goals. See Study Abroad Website for current year program listing:

www.stthomas.edu/studyabroad

Students may not apply for nor participate in a Study Abroad program while on academic or disciplinary probation.

Short-term Study Abroad and Off-Campus Programs

The University of St. Thomas offers a number of two-to-six week, faculty-directed programs during January, spring break or summer term. January Term Abroad programs are sponsored by the University of St. Thomas or UMAIE, a seven-member consortium which provides a broad disciplinary and geographic January curriculum.

January Term Programs

All courses for the following January are announced in February. Enrollment period extends from early April through late October. Students must be in good academic and disciplinary standing with the university in order to apply or participate. Individual programs may have additional criteria for acceptance.

Spring-Embedded Programs

A limited number of spring courses have an off-campus component ‘embedded’ in the semester, usually traveling during spring break.

Summer Programs

Students may study abroad during the summer through a co-sponsored program, or by participating in a faculty-directed course (similar to January Term). Students must apply by early March for all programs.

Semester/Year Abroad

St. Thomas offers a wide variety of semester and year-long programs around the world, including programs sponsored by St. Thomas, co-sponsored programs or direct enrollment in a university abroad.

London Business Semester

The University of St. Thomas sponsors a fall semester program in London for business majors and minors. Students, accompanied by one or more St. Thomas business faculty members, take regular St. Thomas business and liberal arts courses, as well as complete the BUS 200 Community Service requirement.

Liberal Arts Semester in Paris

A spring semester program in Paris, directed by a St. Thomas faculty member, offers students the opportunity to fulfill core curriculum requirements in the humanities (e.g. fine arts, philosophical and moral reasoning, faith and the Catholic tradition, historical studies, language and culture). Participants must complete at least one semester of French before beginning the program and continue to study French while abroad. This program is offered every two years.

Catholic Studies in Rome

Students in Catholic Studies may participate in St. Thomas' program in Rome for one or two semesters. Students are enrolled at the Angelicum, a pontifical university where they take courses in Catholic social thought, theology, and social justice, as well as Italian language. A St. Thomas faculty member directs the program on site and students live at the St. Thomas Bernardi residence.

Glasgow English Semester

English majors and minors, accompanied by a St. Thomas faculty member, study at the University of Glasgow in the spring. Students take two courses in English and/or English or Scottish Literature and one or two courses in another subject area (typically history, theology, or fine arts).

International and Off-Campus Programs

Fall Semester in Rome

A fall semester program in Rome in cooperation with St. Mary's College offers students a wide range of liberal arts courses. Students may fulfill fine arts and theology core requirements plus enroll in many other liberal arts subjects. Accommodation is at the St. Thomas Bernardi residence. No previous study of Italian is required.

London Education Semester

During fall semester, Education majors have the opportunity to take the first block of required Education courses on a semester program in London. Directed by a St. Thomas faculty member, this program allows students to fulfill Education requirements, complete their classroom practicum and enroll in one core curriculum course (either historical studies or fine arts).

Partnerships with Universities Abroad

St. Thomas also sponsors study at the following partner universities:

Australia:	Curtin University
China:	University of International Business and Economics
Egypt:	American University of Cairo
Japan:	Osaka Gakuin University
	Sophia University

In addition, the university co-sponsors over 100 programs in nearly 40 countries around the world. Students can find programs in the following locations:

Asia

China
Japan

Africa

Ghana
Kenya
Namibia
South Africa
Tanzania

Europe

Austria
Belgium
Czech Republic
Denmark
France
Germany
Great Britain
Greece
Iceland
Ireland and Northern Ireland
Italy
Netherlands
Norway
Russia
Spain

Middle East

Egypt
Israel

The Americas and the Caribbean

Argentina
British West Indies
Chile
Costa Rica
Cuba
Ecuador
Guatemala
Mexico

Oceania

Australia
New Zealand

Note: Students may seek approval for other countries and/or programs from the Study Abroad Petition Committee.

Participation in Semester/Year Programs

To participate in the University of St. Thomas study abroad programs, students must have a 2.5 minimum grade point average, be in good academic and disciplinary standing at St. Thomas, and have at least sophomore standing. All students must apply to the International Education Center for program approval by October 15 for spring semester participation, and by March 15 for fall semester or year-long programs. The overseas study program must include study of the native language in non-English-speaking countries.

Financial Aid

Financial aid in the form of grants, loans, and scholarships applies to the cost of semester and year of study abroad programs. Students should discuss their eligibility with a Study Abroad Advisor and their Financial Aid counselor in the Office of Student Financial Services.

Cross-College Courses and Programs

300 Study Abroad

Students participating in the University of St. Thomas overseas study program register for this interdisciplinary listing for the first semester they are abroad. Permission from the staff of the International Education Center required.

301 Study Abroad

A continuation of 300. Permission from the staff of the International Education Center required.

Higher Education Consortium for Urban Affairs (HECUA)

Toffolo (POL), adviser; A. Hubbard (International Education Center) co-adviser

The Higher Education Consortium for Urban Affairs offers off-campus educational experiences focused on social justice issues. HECUA provides experiential learning opportunities that link academic study with hands-on work for social change. Students earn sixteen credits in the semester-long programs and four credits in January term programs. Open to all majors. All financial aid applies to semester programs. See Website: www.hecua.org.

Development and Community in Bangladesh (January term)

Learn about the actions and intentions of development agencies and witness the realities of a moderate Islamic culture. Through lectures, discussions, and group field study (with Bangladeshi students), you will explore the policies, practices, and ideologies of socioeconomic development in one of the world's poorest countries.

Democracy and Social Change in Northern Ireland (spring semester)

Examine the historical, political, and religious roots of the conflict in Northern Ireland, the prospects for peace, and the progress being made toward it. You learn through readings, lectures, discussions, internships, group study projects, and field experiences that invite interaction with people involved in social change.

Courses:

Northern Ireland: Building a Sustainable Democracy (4 credits)

Politics of Conflict and Transformation (4 credits)

Internship Seminar and Internship (8 credits)

Scandinavian Urban Studies Term (SUST) (fall semester)

Gain a deep understanding of contemporary Norway, using the welfare state and the notion of citizenship as the focus for investigation. Three interrelated seminars give you an understanding of how the welfare state works in the context of a social democracy facing challenges posed by immigration. An option for either an independent study project or language classes rounds out the course load for the semester.

Courses:

Scandinavian International Relations (4 credits)

Urbanization and Immigration (4 credits)

Scandinavian Literature: Immigration and National Identity (4 credits)

Norwegian Language

or

Independent Study Project (4 credits)

Community Internships in Latin America (CILA) (fall semester)

CILA offers a semester of study and experience with a focus on community participation and social change. The program, centered in Quito, Ecuador, combines rigorous seminar work and independent study with a home stay and a hands-on internship to give an in-depth experience of community participation and social movements in Ecuador.

Courses:

Community Participation for Social Change (4 credits)

Independent Study Project (4 credits)

Internship Seminar and

Internship (8 credits)

Civil Rights Movement: History and Consequences (January term)

Critically examine the events of the Civil Rights Movement by visiting important sites and interviewing leaders of the movement. After several days in the Twin Cities, students embark on a two-week field study tour through the South. A final week of integration seminars in the Twin Cities helps students bring their experiences back to bear on their own lives.

City Arts (spring semester)

City Arts is a semester-long, off-campus study experience. In the program, students explore the relationships among art, culture, and social change. Field study and professional internships provide direct access to the arts community in the Twin Cities.

IDSC 466 City Arts: Reading Seminar (Creating Social Change: Art and Culture in Political, Social, and Historical Context) (4 credits)

IDSC 467 City Arts: Field Seminar (Arts Praxis: Social Justice Theory and Practice in the Field) (4 credits)

IDSC 468 City Arts: Internship

and

IDSC 469 City Arts: Internship Seminar (8 Credits)

Metro Urban Studies Term (MUST) (fall or spring semesters)

MUST is a semester-long, off-campus study experience. In the program, students examine the causes of and solutions to poverty and inequality in the urban United States. Field study and professional internships provide direct access to the non-profit sector.

IDSC 471 MUST Seminar: Research on Urban Issues (4 credits)

IDSC 472 MUST Seminar: Field Studies in the Twin Cities (4 credits)

IDSC 473 MUST: Urban Studies Internship (4 credits)

IDSC 474 MUST: Urban Studies Internship Seminar (4 credits)

Environmental Sustainability: Science, Public Policy, and Community Action (fall semester)

The program focuses on processes of ecosystem degradation and rehabilitation, the social and economic underpinnings of conflict over environmental change, and public policy and community-based strategies to achieve sustainability. Through lectures, discussions, group field experiences and internships, students explore the relationships between patterns of environmental resource use and current social inequities, analyze the effects of future environmental trends, and assess strategies for sustainability.

Courses:

Adaptive Ecosystem Management (4 credits)

Social Dimensions of Environmental Change (4 credits)

Field Methods (2 credits)

Environmental Internship (6 credits)

Superior Studies At Wolf Ridge

Hoffman (POL), director

Superior Studies at Wolf Ridge is a consortium of seven private colleges and universities in Minnesota that provides a field campus for Environmental Studies programs in Minnesota and surrounding states. Participating institutions include St. Olaf College, St. John's University, the College of St. Benedict, Gustavus Adolphus College, Hamline University, and Concordia College-Moorhead.

The program offers academic courses taught by faculty from the participating institutions, field trips to sites of environmental significance in northeastern Minnesota and Ontario, natural resource-related jobs and research opportunities for students, and wilderness experiences including backpacking, canoeing, kayaking, snowshoeing, and dogsledding. Courses are offered during both summer sessions, the Fall term and January interim session.

Academically, the program stresses environmental inquiry from the perspectives of different disciplines. It incorporates the rich ecology of the Northwoods and the contemporary issues facing Northern Minnesota into the student's coursework through regular fieldtrips and field instruction. Organized outdoor trips provide significant personal experiences and the opportunities to develop skills and confidence in wilderness travel through one-day to one-week trips into the Boundary Waters Canoe Area Wilderness, Lake Superior kayak water trails, and the Superior Hiking Trail. In addition, students are able to arrange personal trips if they possess the necessary skills.

All of the Superior Studies teaching faculty are members of one of the consortium institutions.

Specific courses to be taught in the program vary by semester. Representative courses include: Introduction to Environmental Studies, Conservation Biology (with lab), Environment and Literature, Endangered Cultures, Individualized Physical Education: Health, Fitness, and Lifelong Skills, Seminar on Sustainability, the Environmental Imagination, Environmental Ethics, Environmental Policy, Theology and the Moral Life: Environmental Stewardship, American Environmental History: Great Lakes Region, and Environmental Education.

Work-study jobs and internships are also available through the program. All financial aid is applicable to the program.

Students receive elective credit for all courses taught in the program. Students should consult with departmental and program advisers regarding major and minor field credit.

See the director regarding program costs and applicable fees.

Washington Semester

Farlow (POL), adviser

The University of St. Thomas is affiliated with American University's Washington Semester Program, Washington, D.C.

Students selected from across the nation to participate in the program have the option of studying one of several subjects: American Politics, Economic Policy, Foreign Policy, Gender and Politics, Information Technology and Telecom, International Business and Trade, International Environment and Development, Journalism, Justice, Law Enforcement vs. Liberty, Peace and Conflict Resolution, Public Law, and Transforming Communities.

Cross-College Courses and Programs

The Washington Semester involves seminars, research and internships drawing on governmental and private organization resources in the Washington area. Nominations to participate are made by the university, with final acceptance decided by American University.

Upon successful completion of four courses, 16 semester credits are earned and transferred to St. Thomas.

IDSC 310 Washington Semester (16 credits)

Pre-Professional Programs

A carefully-crafted baccalaureate degree can prepare a student for entrance to a professional school. The following programs of study will be helpful for students planning such a career.

Preparation for the Catholic Priesthood

Preparation for entering a postgraduate seminary takes place best in a college-level seminary. St. John Vianney college seminary, located on the St. Thomas campus, provides an integrated program of spiritual and apostolic formation, along with the academic coursework available through the university.

Seminarians may major in a variety of fields. However, they must complete certain prerequisites in philosophy, theology and languages according to the direction of their diocese.

In addition to the usual major field and graduation requirements for the University of St. Thomas that provide in large measure the balance needed for the study of theology, St. John Vianney students will be expected to complete the following academic requirements in compliance with the Program of Priestly Formation:

Twenty-four credits of philosophy

Twenty credits of theology

Language requirements: Latin or Spanish if determined by the student's diocese.

Interested students should contact the rector, Rev. William Baer, at St. John Vianney Seminary:

wjbaer@stthomas.edu

Pre-Engineering (PNGR)

Tommet (PHYS), Marsh (CHEM), Jalkio (ENGR), advisory committee

Besides offering degree programs in electrical and mechanical engineering, the University of St. Thomas offers a choice of pre-engineering programs to provide the student with a broad range of engineering fields. The program prepares for all engineering fields which include: aeronautical, aerospace, agricultural, architecture, biomedical, chemical, civil, computer, electrical, engineering science, geological, industrial, materials science, mechanical, metallurgical, mineral and nuclear.

The programs of study are arranged so that a student may transfer to an engineering school with a maximum number of acceptable credits and yet, if a change in major is made while at the university, a maximum number of credits will be applicable to the St. Thomas requirements for graduation. In addition to the liberal arts, courses pre-requisite to an engineering school program are available in areas of mathematics, physics, chemistry, computer programming, and engineering. There are few significant differences in courses taken in the first two years of undergraduate study toward any type of engineering field. All pre-engineering students take mathematics, physics, and chemistry courses, along with a seminar introducing them to the various fields of engineering and to the work of engineers.

A Liberal Arts-Engineering (3-2) program is offered formally in cooperation with the University of Notre Dame, Washington University in St. Louis, and the University of Minnesota, and informally with virtually any other engineering school. The student will normally spend three years at St. Thomas and, upon approval of St. Thomas and acceptance by the engineering school, two additional years at the engineering school in an engineering field. Upon satisfying the requirements for graduation of both institutions, the student will receive a bachelor of arts (B.A.) degree from the University of St. Thomas and a bachelor of science degree in the selected field of engineering from the engineering school.

A four-year (4-2) program is offered formally in cooperation with the University of Minnesota, and informally with virtually any other engineering school. The student normally spends four years at St. Thomas and graduates with a major in Physics, Mathematics, Chemistry, or Quantitative Methods and Computer Science. The student then enters a masters or bachelors program at an engineering school.

A two-year (2-2) program is offered in which the student normally spends two years at St. Thomas (although transfer may be initiated at any time) and two years in a selected engineering field at an engineering school. No St. Thomas degree is awarded.

For all these programs, students are strongly encouraged to discuss with a pre-engineering adviser their own individual program. Each student, field, and school has different needs and requirements.

Liberal Arts – Engineering Program

CHEM 111 General Chemistry I

CHEM 112 General Chemistry II

ENGR 150 Introduction to Engineering (0 credit)

ENGR 151 Introduction to Engineering Design (1 credit)

MATH 113 Calculus I

MATH 114 Calculus II

MATH 200 Multi-Variable Calculus
MATH 210 Linear Algebra and Differential Equations
PHYS 111 Introduction to Classical Physics I
PHYS 112 Introduction to Classical Physics II
QMCS 230 Software Design Using the JAVA Language

At least three additional courses are required. Which technical courses are needed will depend upon the field of engineering. Students must discuss their program with a pre-engineering adviser.

Pre-Health Professions

Ovechka, adviser

The pre-health professions adviser will help students interested in any of the health professions to plan a specific program of coursework in preparation for a professional school.

To aid students in making an informed choice of a health professions career, there are four non-credit health professions internships:

BIOL 215 Regions Hospital Volunteer Program (0 credit)
BIOL 216 Basic Nursing Skills Training Program (0 credit)
BIOL 217 Students and Physicians Program (0 credit)
BIOL 218 Pre-Dental Internship Program (0 credit)

Pre-dentistry

Most schools of dentistry require a minimum of three years of college coursework prior to admission to their programs. The University of Minnesota School of Dentistry requires at least 87 semester credits. However, the majority of first-year dental students complete four or more years of college.

Specifically required or highly recommended courses vary from one dental school to another. The University of Minnesota School of Dentistry requires study in each of the following subjects:

two semesters of biology
two semesters of general chemistry
two semesters of organic chemistry
one semester of biochemistry
two semesters of physics
two semesters of English
one semester of psychology
college algebra, pre-calculus, computer science or statistics

Pre-medicine

Most medical schools require a baccalaureate degree before entrance into their programs.

Two semesters of study in each of the following subjects are required for admission to most medical schools:

biology
general chemistry
organic chemistry
physics
English

A number of medical schools also require one semester of calculus or other college-level mathematics or statistics. The University of Minnesota (Twin Cities and Duluth) also require one semester of biochemistry. Medical schools generally do not require a specified undergraduate major.

The health professions adviser is available to help students choose the specific coursework necessary to meet admissions requirements, explain admissions procedures, provide information to students about career alternatives, *etc.* Students interested in a career in medicine should consult with the health professions adviser early in their freshman year to plan an appropriate four-year program.

Pre-pharmacy

Required courses vary from one school to another, and students are encouraged to research various programs early in their undergraduate program. The Pharm.D. program at the University of Minnesota requires completion of the following courses:

one semester of biology
two semesters of anatomy and physiology
one semester of microbiology
two semesters of general chemistry
two semesters of organic chemistry
two semesters of physics
one semester of calculus
two semesters of behavioral science
two semesters of English
one semester of economics
one semester of public speaking

Cross-College Courses and Programs

Pre-veterinary

Required courses vary from one school to another, and students are encouraged to research various programs early in their undergraduate program. The veterinary school at the University of Minnesota requires the following coursework:

- two semesters of biology
- two semesters of general chemistry
- one semester of organic chemistry
- one semester of biochemistry
- one semester of mathematics
- two semesters of physics
- one semester of genetics
- one semester of microbiology
- two semesters of English

Four courses from history and social sciences, arts and humanities are also required. No more than two of these courses should be from one single department.

Other Pre-Health Professions

Many courses are offered at St. Thomas to prepare students for admission to the following health professional schools: chiropractic, optometry, osteopathic medicine, physical therapy, physician assistant, podiatric medicine, and public health.

Students are encouraged to research the programs at each professional school and to seek the guidance of the pre-health professions adviser.

Pre-Law

Hatting (POL) and Marsnik (BLAW) advisers

The best preparation for the study of law is a rigorous undergraduate program that combines depth of study in a major field with breadth of study in the liberal arts. The only true criterion for choice of a major is that it challenge the student's intellectual capabilities.

Regardless of major, pre-law students should include as wide a selection of the following courses, listed alphabetically by departmental designation, as their degree program allows. Each is beneficial for:

A. Increasing the student's knowledge of law

- BLAW 301 Legal Environment of Business
- BLAW 303 International Business Law
- BLAW 401 Legal Research, Advocacy, and Dispute Resolution
- ECON 321 Law and Economics
- ECON 332 Industrial Organization
- HIST 326 English Law and Government before the American Revolution
- HIST 365 U.S. Constitutional History
- IDSC 340 Criminal Law and the Social Order
- JOUR 304 Media Law
- POL 205 Introduction to American Public Policy Process
- POL 312 Judicial Process
- POL 313 Constitutional Law and Politics
- POL 314 Constitutional Rights and Liberties
- POL 326 International Law and Organizations
- POL 414 Seminar in Law and Judicial Politics

B. Fostering critical thinking about society

- ENGL 402 Writing Literary Nonfiction
- HIST 361 American Thought and Culture Since the Civil War
- PHIL 357 Political Philosophy
- PHIL 359 Philosophy of Law
- POL 373 Political Thought from Marx to the Present
- POL 375 American Political Thought

C. Providing useful skills and improving analytical ability

- ACCT 205 Introduction to Accounting
- COMM 100 Public Speaking
- COMM 250 Argumentation and Advocacy
- ECON 251 Principles of Macroeconomics
- ECON 252 Principles of Microeconomics
- ENGL 251 Writing in the Academy
- ENGL 252 Writing Nonfiction Prose
- ENGL 403 Analytical and Persuasive Writing

JOUR 311 Persuasion in Writing
MATH 101 or 113 Finite Mathematics or Calculus I
PHIL 220 Logic

Special Programs

Renaissance Program

The Renaissance Program minor is a means for students to combine a liberal arts education with career preparation.

See Renaissance Program in the "College of Arts and Sciences Interdisciplinary Programs" section in this catalog.

Parents-on-Campus Program

Effective fall semester 2005, parents of full-time students in the undergraduate day program are eligible to take up to two undergraduate courses (or eight credits) on a space-available basis in fall and spring semesters without tuition charge. Parents enrolled in the program prior to that date are governed by the pre-existing rules.

The dependent daughter/son must be a full-time day student taking at least twelve credits.

Graduate courses, courses at ACTC schools, courses taught in January term or summer sessions, and courses in the HECUA program are not part of this program.

Parents may audit courses or take them for credit. Parents may be non-degree or degree-seeking students. If the parent chooses to become a degree-seeking student, an application must be made through the Office of Undergraduate Admissions.

Fees will be charged for books, music lessons, laboratory charges, individual studies, and experiential learning.

Further information on the program can be obtained from the Office of the University Registrar.



Aerospace Studies (AERO)

Skierski (chair), Cubstead, Montgomery

Aerospace Studies is the official designation of the Air Force Reserve Officer Training Corps (AFROTC) program of instruction. Aerospace Studies is a dynamic college discipline designed to give female and male students an opportunity to concurrently complete ROTC coursework with degree coursework so that participants qualify for commissions in the United States Air Force as they complete their bachelor's degree requirements. Cadets are commissioned as second lieutenants upon graduation. Coursework offers students the occasion to widen their perspective; sharpen their sense of responsibility; develop their ability to organize, motivate, and lead others; and acquire a maturity of judgment that can be a source of strength and self-confidence throughout their careers.

The Aerospace Studies program does not require a student to major in any certain field, but rather, complements the academic major of choice. It is possible to minor in Aerospace Studies and use Aerospace Studies courses as elective credits. These courses are offered at St. Thomas, but students at any of the five Associated Colleges of the Twin Cities (ACTC) consortium – St. Thomas, St. Catherine, Augsburg, Hamline, and Macalester – may take the courses. Through cross-town agreements, students at Bethel, Concordia, North Central University, Northwestern, William Mitchell, Anoka-Ramsey, Inver Hills, Century, Normandale, North Hennepin, and the University of Wisconsin-Stout may also take aerospace studies courses.

The aerospace studies curriculum is divided into two phases: the General Military Course (GMC) in the freshman and/or sophomore years, and the Professional Officer Course (POC) in the junior and senior years. Cadets in the GMC have no service commitment whatsoever, unless they receive an Air Force ROTC scholarship. Students must voluntarily apply for the POC. Currently, all POC cadets are obligated to serve as an officer for a minimum of four years on active duty after commissioning, depending on the career field to which they are assigned.

An integral part of all aerospace studies classes is Leadership Laboratory. Instruction is conducted within the framework of an organized cadet corps with a progression of experiences designed to develop leadership potential. Leadership Laboratory involves a study of Air Force customs and courtesies, drill and ceremonies, career opportunities in the Air Force, and the life and work of an Air Force junior officer. Leadership potential is developed in a practical, supervised laboratory.

The Air Force offers four-, three-, two- and one-year college scholarships. See “Scholarships not awarded by the university” in the Financial Services section of this catalog.

Most students complete Air Force ROTC via the four-year program, during which both the GMC and the POC are completed. If a student does not enroll in the freshman year, both the freshman and sophomore classes can be taken during the sophomore year. This is followed by a four-week field training session at an active-duty Air Force base, normally between the sophomore and junior years. Students in the program receive a salary and room and board while at field training.

In the summers between the freshman and sophomore, and the junior and senior years, the student may opt to go on an internship in a chosen career field at an active Air Force base. All advanced training is paid by the Air Force.

If the student does not enroll in Air Force ROTC until spring semester of the sophomore year, a commission can be earned through the two-year program. However, the student will attend a six-week field training session instead of the four-week session. The extra two weeks provide the academic training that would have been received in the GMC. Upon successful completion of the six-week field training session, the cadet may enter the POC to complete the remaining two years. The student is still eligible for the internships and advanced training in the junior year, and can compete for a scholarship.

St. Thomas offers its students who are winners of Air Force ROTC scholarships up to full subsidy (room and board and remaining tuition) on almost every Air Force ROTC scholarship awarded. For information on Air Force scholarships, call the AFROTC Unit Admissions Officer at 651-962-6329.

The Minor in Aerospace Studies is open to all undergraduate students at the University of St. Thomas. Students need not also enroll in Air Force ROTC. If they choose to take AERO classes without also enrolling in Air Force ROTC, they are not eligible to take the second option listed below. Also, these students are excused from the accompanying Leadership Laboratories. However, a student who enrolls in AERO courses without also enrolling in Air Force ROTC may participate in Leadership Laboratory if s/he would otherwise be eligible for Air Force ROTC, with approval from the department chair. Further, if a student did not complete the Leadership Laboratories and later wished to enroll in AFROTC, s/he must make up the missed Leadership Laboratories.

While the courses are intended to be taken sequentially, students may complete the minor by taking more than one AERO class per term, with the permission of the department chair.

All of the coursework generally contributes to and enhances the human diversity objectives of the university. Additionally, AERO 321, 322, 421, and 422 also enhance the university's computer competency goals, particularly in their requirement for submission of written papers and verbal presentations requiring visual aids (computer generated, for the most part).

Minor in Aerospace Studies

Student must complete twenty credits. This requirement must be accomplished by completing one of the following sequences:

111 Foundations of the United States Air Force I (1 credit)

- 112 Foundations of the United States Air Force II (1 credit)
 211 Evolution of USAF Air and Space Power I (1 credit)
 212 Evolution of USAF Air and Space Power II (1 credit)

or

- 250 Six-Week Field Training*
 *Open only to students enrolled in Air Force ROTC

Plus:

- 321 Air Force Leadership Studies I
 322 Air Force Leadership Studies II
 421 National Security Affairs I
 422 National Security Affairs II

111 Foundations of the United States Air Force I **1 credit**

This course introduces students to the United States Air Force and Air Force Reserve Officer Training Corps. Featured topics include: mission and organization of the Air Force, officership and professionalism, military customs and courtesies, Air Force officer opportunities, and an introduction to communication skills. Leadership Laboratory is mandatory for AFROTC cadets and complements this course by providing cadets with followership experiences.

112 Foundations of the United States Air Force II **1 credit**

Continuation of 111

Prerequisite: 111 or permission of instructor

211 Evolution of USAF Air and Space Power I **1 credit**

This course examines general aspects of air and space power through a historical perspective. Utilizing this perspective, the course covers a time period from the first balloons and dirigibles to the space-age global positioning systems of the Persian Gulf War. Historical examples are provided to extrapolate the development of Air Force capabilities (competencies), and missions (functions) to demonstrate the evolution of what has become today's USAF air and space power. The course also examines several fundamental truths associated with war in the third dimension: e.g. Principles of War and Tenets of Air and Space Power. As a whole, this course provides the students with a knowledge level understanding for the general element and employment of air and space power, from an institutional, doctrinal and historical perspective. In addition, the students will continue to discuss the importance of the Air Force Core Values with the use of operational examples and with historical Air Force leaders and will continue to develop their communication skills. One class-hour per week, plus a weekly 1.5 hour Leadership Laboratory consisting of Air Force customs and courtesies, Air Force environment, drill and ceremonies, and field training orientation.

Prerequisite: 112 or permission of instructor

212 Evolution of USAF Air and Space Power II **1 credit**

Continuation of 211

Prerequisite: 211 or permission of instructor

250 Six-Week Field Training (111, 112, 211, 212)

Training and evaluation on an Air Force base during the summer. Training is designed 1) to fulfill the course goals of the General Military Course (GMC) normally taken during the regular school year; 2) the experience is designed to develop military leadership and discipline, provide AF officership training, orientation and motivation, and determine officer potential. These objectives are provided to conform to the standards of a structured military environment as well as teach the participant how an Air Force base operates. The syllabus provides a minimum of 370 hours of scheduled activities – 170 hours of total core curriculum hours consisting of Air Force orientation, leadership training, and officership training. Additional hours are required for Flight Training Officer Time (FTOT) and cadet meetings, *etc.* Required for all two- and one-year program cadets prior to entry into 321.

321 Air Force Leadership and Management Studies I

This course is a study of leadership, management fundamentals, professional knowledge, Air Force personnel and evaluation systems, leadership ethics, and communication skills required of an Air Force junior officer. Case studies are used to examine Air Force leadership and management situations as a means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences in officer-type activities, giving students the opportunity to apply leadership and management principles of this course.

Prerequisite: 212 or 250

322 Air Force Leadership and Management Studies II

Continuation of 321.

Prerequisite: 321 or permission of instructor

College of Arts and Sciences – Departments

421 National Security Affairs I

This course provides future Air Force officers with a background in the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A mandatory Leadership Laboratory complements this course by providing advanced leadership experiences, giving students the opportunity to apply the leadership and management principles of this course. Prerequisite: 322 or permission of instructor

422 National Security Affairs II

Continuation of 421.

Prerequisite: 421

Cadet Internship Program

Offered during the AERO 422 semester, students can participate in an internship program with the 934th Airlift Wing, Air Force Reserve Command. This internship program's purpose is to demonstrate leadership and management skills through advanced leadership experiences. The students are matched with mentors from the 934th Airlift Wing and assigned specific projects, usually in career fields the students are most interested in pursuing in the active duty Air Force. This is a 40-hour program that replaces Leadership Laboratory credit for the semester; participation is limited and strictly voluntary.

The following courses allow students to gain credit for certain non-classroom experiences. Permission of department chair is required. A maximum of three credits may be applied, two of which must be from 450, Four-Week Field Training (FT), except for cadets participating in 451, Cadet Training Assistant (CTA), who are able to accrue a maximum of five credits of non-classroom experiences toward the 132 credits required for graduation. Graded on S-R basis.

450 Four-Week Field Training

2 credits

Training and evaluation on an Air Force base during the summer. The experience is designed to develop military leadership and discipline, provide AF officership training, orientation and motivation, and determine officer potential. These objectives are provided to conform to the standards of a structured military environment as well as teach the participant how an Air Force base operates. The syllabus provides for a minimum of 270 hours of scheduled activities—157 hours of total core curriculum hours consisting of Air Force orientation, leadership training, and officership training. Additional hours are required for Flight Training Officer Time (FTOT) and cadet meetings, *etc.*

Prerequisite: 212

451 Cadet Training Assistant (CTA)

2 credits

A cadet who previously completed Field Training and who successfully competes to be assigned as a staff member in a 4- or 6-week field Training. Discharges staff responsibilities to meet the objectives described in AERO 450.

452 Professional Development Training (PDT)

1 credit

The objective of PDT is to provide opportunities to cadets to gain knowledge and appreciation for the human relations and leadership challenge encountered by junior Air Force officers. Further, the program is designed to motivate cadets in their pursuit of an Air Force career. Normally open to junior and senior contracted cadets who have completed Field Training. However, selected AERO 100 cadets may participate in some of the PDT programs.

Art History (ARTH)

Webster (chair), Becker, Eliason, Stansbury-O'Donnell; Nordtorp-Madson, Sheehy, Welch, Young

The visual arts constitute the physical legacy of past as well as present civilizations. Whether in the form of painting, sculpture, architecture, pottery, textiles, photography, or other media, they express the myths, beliefs, and structures of society, allowing us to glimpse the vision of the individuals and culture who created the works. Understanding the art and artifacts of earlier times and of other cultures gives us greater insight into our own culture and its legacy.

The art history program offers a comprehensive, chronological and geographical exploration of the arts and architecture of the western and non-western worlds. Courses include an emphasis upon the critical evaluation and analysis of works of art, and exploration of the cultural, social, political, and religious contexts behind the arts, and an examination of the broader relationships between different arts and cultures.

With its interdisciplinary approach, an undergraduate art history major is an important part of liberal arts studies. It includes a wide-ranging knowledge of mythological and religious beliefs and draws parallels to historical, literary, theological, and technological developments of a period. It also develops analytical thinking and writing skills through research papers and projects.

Students graduating with a major in art history should have a broad and general knowledge of the history of art, including western and non-western cultures. They should be able to define and carry out a major research project. They should be able to present an art historical topic in an oral format.

The liberal arts and interdisciplinary nature of the major can be combined with other majors such as theology, history, philosophy, or English, or with other programs emphasizing professional skills, including journalism, communication, or elementary education.

With careful planning of one's program of studies along with an internship in one of the metropolitan area museums, galleries, or corporate collections, this major can lead to entry level employment related to the visual arts. It can also prepare students for graduate study of art history, which in turn can lead to academic or professional museum positions.

The department offers a number of courses for the non-major to fulfill the Fine Arts component of the core curriculum.

Major in Art History

- 151 Introduction to Art History I
- 152 Introduction to Art History II
- 211 Methods, Approaches, and Problems in Art History
- 480 Senior Presentation and Paper

Plus four credits from each of the following areas:

- Ancient Art (300, 305, 310, or equivalent)
- Medieval Art (330, 335, or equivalent)
- Renaissance & Baroque Art (320, 340, 342, 345, 347, or equivalent)
- Modern Art (351, 352, 356, 361, 450, or equivalent)
- Non-Western Art (285, 286, 289, 291, 320, 391, or equivalent)
- Media Studies (architecture and media other than painting and sculpture – 280, 282, 285, 286, 391, or equivalent)

Note: A single course may fall into more than one area, but may only be applied to a single area. Students taking courses abroad may also substitute one course taken abroad for one of the advanced studies course areas (with the exception of Non-Western Art) with prior approval of the chair of the department.

Plus four credits meeting one of the following criteria:

- a second course in one of the above six areas
- an internship or other form of experiential learning, including research and preparation of exhibits
- an art history course taken abroad
- a studio art course

Allied requirements

Eight credits, chosen from the following four options:

A second course in History or a fourth course in one foreign language

Four credits total in Music or Theater

COMM 160 Electronic Media Production

JOUR 220 Design Concepts of Communication

Minor in Art History

- 151 Introduction to Art History I

or

- 152 Introduction to Art History II

Plus:

Sixteen credits chosen with the approval of the department chair or a department adviser.

151 Introduction to Art History I

An introduction to the development of architecture, sculpture, and painting from prehistoric times to about 1400. Includes ancient and medieval European, Near Eastern, Chinese, Japanese, South Asian and pre-Columbian art. Particularly recommended for non-art majors. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

152 Introduction to Art History II

An introduction to the development of architecture, sculpture, and painting from about 1400. Includes Renaissance, Baroque, and Modern European art, as well as Chinese, Japanese, African and Native American art and considers the role of women in art. Particularly recommended for non-art majors to fulfill the fine arts requirement. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

159 Principles of Art History

2 credits

This course will introduce and familiarize students with the stylistic and formal qualities of art through lecture, discussion, and field trips. The course will cover certain themes such as the human figure from a historical and contextual perspective. Students will be required to analyze art in these terms in discussions, tests, and papers in the class. This course partially fulfills the Fine Arts requirement in the core curriculum.

College of Arts and Sciences – Departments

211 Methods, Approaches, and Problems in Art History

An introduction to the methods and problems of art history, including the theoretical approaches to art and its history, the examination and analysis of the work and its medium, the role of the museum and gallery in the study of art, and bibliographic tools of the different disciplines of the field.

Prerequisite: 151 or 152 or permission of chair.

280 Sacred Architecture and Space

Throughout history, humans have set aside spaces for religious purposes. Frequently these are the most visible remains or representatives of a culture and are keys to understanding the place of humans within the world and universe. This course examines sacred architecture and spaces from a variety of perspectives, including materials and structure, ritual function and liturgy, decoration, symbolism, physical context, and social/religious context. The course will examine not only Christian churches, but will also examine non-Christian and non-western traditions of religion and architecture. This course fulfills the Fine Arts requirement in the core curriculum.

282 The History of American Architecture

A survey of high style and vernacular architecture in the United States from the Native Americans to the present day. Upon completion of this course, the student will be able to: identify the major themes and styles in American architecture; recognize major monuments and their designers; and understand how an American identity was projected in architecture. This includes understanding American architecture and its relationship to corresponding developments in art, landscape, and the urban fabric. Emphasis will be placed on structures in Minnesota and the upper Midwest. This course fulfills the Fine Arts requirement in the core curriculum.

285 Arts of Africa and the African Diaspora

The continent of Africa presents a world of contrasts: from the powerful trading empires of the Sahel to the small scale, nomadic societies of the Kalahari. This course will survey the arts and cultures of Africa, drawing on recent breakthroughs in archaeology, anthropology, and art history to explore the diversity and creativity of past and present African artists. In addition, the course will address the expansion of African culture to the New World, a process that began tragically in the Middle Passage, but emerged triumphantly in the artistic traditions of the Diaspora peoples. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

286 Women's Art in Cross-cultural Perspective

What is "women's art"? Is the definition of women's art consistent across cultures? What are the conditions of women's artistic practice, and how do women address vital social, spiritual, and political issues through their art? These are the questions to be addressed in this course, an interdisciplinary study of women's art that focuses on case studies in Africa, the Americas, the Pacific, and Asia. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

289 Asian Art

This course is a survey of South and East Asian art, from its beginnings in the Bronze Age until the present. The course will emphasize regional characteristics as well as cross-cultural influences of Asian art in a variety of media, including architecture, painting, calligraphy, sculpture, and pottery. The course will also examine the impact of social class on artists and patronage and upon the influence of Hinduism, Buddhism, Confucianism, Taoism, and Shintoism play in the form and function of Asian art. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

291 Topics in Non-Western Art

This course number covers a range of offerings in the art and architecture of Asia, Africa, Oceania and Latin America. Offerings will vary from year to year, but will usually provide a comprehensive survey of the arts of a wide region such as Asia or Africa or of a major religion such as Buddhism or Islam. A more detailed examination of a single country such as China or Mexico may also be included among offerings. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html. Topics listed under 297 fulfill the Fine Arts requirement in the core curriculum.

300 The Ancient Near East and Egypt

A survey of the arts of the Stone and Bronze Ages, including the civilizations of Mesopotamia, the Indus Valley, Egypt, the Near East, and the Aegean Sea. The use and problems of archaeology in the understanding of ancient cultures will be discussed. This course fulfills the Fine Arts requirement in the core curriculum.

305 Greek Art and Archaeology

A survey of the art and architecture of ancient Greece from the fall of the Bronze Age civilizations to the end of the Hellenistic period. Particular attention will be given to sculpture, vase painting, and the relationship of art to the broader culture, to the art of the ancient Near East and Egypt, and to gender relations in ancient Greece. This course fulfills the Fine Arts requirement in the core curriculum.

310 Roman Art and Archaeology

A survey of the art of the Roman Republic and Empire to the emperor Constantine in the early fourth century C.E. Issues include the use of art and architecture as an expression of imperial political programs, the creation of urban architecture and the everyday environment of the Romans, and Rome's relationship to Greece and the Near East. This course fulfills the Fine Arts requirement in the core curriculum.

320 Art and Culture of Colonial Mexico

In 1521, the Spaniard Hernando Cortés and his army conquered the Aztec city of Tenochtitlan and assumed control of a land that later came to be known as Mexico, initiating a period of transformation, innovation, and synthesis called the Colonial era (1524 to ca. 1810). The art and architecture created during this time reflects the processes of conflict, resistance, and adaptation that ensued as a result of the collision of two cultures. This course surveys the historical context in which the painting, sculpture, and architecture of Mexico were created, from the conquest to the rise of the independent Mexican nation. A knowledge of major works and monuments will be stressed; however, the emphasis of this course is placed on an understanding of the general concepts and issues that affected art and culture in the Colonial era. Both Spanish and pre-Columbian art and culture will be investigated in order to understand the unique context and characteristics of the visual culture of Mexico during this formative period. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

330 Churches and Mosques in the First Millennium

This course examines the formation and development of the first Christian and Islamic art and architecture during the first millennium C.E. of Europe and the Mediterranean. The class will examine the development of religious structures for these new religions, the role of visual images in both religious and secular contexts, and the influences that these cultures exerted on each other. Areas to be covered include: the Early Christian period; the Germanic, Celtic, Anglo-Saxon, Scandinavian cultures of the sixth to eighth centuries; the Carolingian and Ottonian periods; Byzantine art and architecture; Islamic art and architecture. This course fulfills the Fine Arts requirement in the core curriculum.

335 Cathedrals, Monasteries, and Caliphates

A survey of the arts in Europe during the Romanesque and Gothic periods, c. 1000-1400. Emphasis will also be given to contemporaneous currents in Byzantine and Islamic art and their influence on the art of the West. This course fulfills the Fine Arts requirement in the core curriculum.

340 Southern Renaissance Art and Society

A survey of the art and architecture of Italy, Spain and Portugal from the fourteenth through the sixteenth centuries. The course will focus on issues of style, patronage and iconography. This course fulfills the Fine Arts requirement in the core curriculum.

342 Renaissance and Reformation in Northern Europe

A survey of the art and architecture of northern Europe from the fourteenth through the sixteenth centuries. This course will examine the impact of the Protestant Reformation on the art of this era, and examine issues of style, patronage and iconography.

345 Baroque and Rococo Art

A survey of the art and architecture of western Europe in the seventeenth and eighteenth centuries. Emphasis will be given to issues of iconography, patronage, and style. This course fulfills the Fine Arts requirement in the core curriculum.

347 Golden Age of Spain

The sixteenth and seventeenth centuries were an age of great triumph for the kingdom of Spain. For a brief but glorious era, the Spanish empire was the most powerful force in the western world. Suffused in gold and riches from its colonies in the New World, Spanish culture prospered and flourished. It was during this intoxicating "Golden Age" that Spain's greatest artistic masterpieces were produced. This course explores the historical development of Spanish painting, sculpture, and architecture, focusing on the social, political, and religious issues that affected artistic production. Particular emphasis is placed on the key figures in the history of Spanish art: El Greco, Zubarán, Ribera, Velázquez, Murillo, Martínez Montañés, and Pedro Roldán. The art of Spain's New World colonies is also examined. This course fulfills the Fine Arts requirement in the core curriculum.

351 Romanticism to Impressionism

This course will investigate the history of European painting and sculpture from 1800 to 1880. It will consider the major trends of Neoclassicism, Romanticism, Realism, and Impressionism. It will also address art's response to and role in a European society marked by colonialism, industrialization, and the rise of urban mass culture. This course fulfills the Fine Arts requirement in the core curriculum.

352 Art in the United States

This course will investigate the history of the visual arts (primarily painting and sculpture) in the United States from 1776 to 1960. Artists to be considered include colonial portraitists; Romantic landscape painters; Neoclassical sculptors; Realist, Luminist, and Impressionist painters; artists associated with New York Dada and the Harlem Renaissance; Precisionists, Regionalists and Social Realists; and Abstract Expressionists. Participants

College of Arts and Sciences – Departments

will consider artists' responses to key historical developments such as the founding of the nation, westward expansion, the Civil War, industrialization, and emergence as a superpower. Several issues will run throughout the course: What is the relationship between the art of Euro-Americans and that of Europe? and that of Native Americans? Is there something "American" about American art? How do the visual arts reinforce or challenge our sense of American history and identity? This course fulfills the Fine Arts requirement in the core curriculum.

356 Modernism in European Art

Modernist artists strove to find a visual language of expression appropriate to their time; yet many contemporaries found their works incomprehensible, as do many people today. An open-minded and historically informed investigation of modern art helps to make sense of it. This course will explore the history of European painting and sculpture from 1880 to 1940. It will consider the many movements that characterized modernism, such as Post-Impressionism, Symbolism, Fauvism, Cubism, Futurism, Expressionism, Dada, Surrealism, and Constructivism. Issues to be addressed include the rejection of tradition, the development of abstraction, the impact of World War I and its aftermath, the influence of science and technology on art, and the fate of modernism under Hitler's and Stalin's regimes. Particular attention will be paid to the theoretical underpinnings of modern art. This course fulfills the Fine Arts requirement in the core curriculum.

361 Contemporary Art

This course will investigate the history of the visual arts since 1960, from Pop Art and Minimalism through recent trends. Art from around the globe will be considered, but primary emphasis will be placed on art in the United States. In addition to surveying the most significant artists, works, and trends, participants will consider issues such as: the commodification of art; the dematerialization of the art object; art's role in sociopolitical discourse; definitions of postmodernism; the legitimating institutions that comprise the "artworld;" and the relationship of aesthetic or critical theory to artistic creation. This course fulfills the Fine Arts requirement in the core curriculum.

391 Native American Art

An examination of the art of the Native Americans from the prehistoric period to the present within the context of distinct geographical regions: Woodlands, Plains, Plateau, Northwest, and Arctic. This course fulfills the Fine Arts and Human Diversity requirements of the core curriculum.

450 Modern Scandinavian Art History

The golden age of Scandinavian art history witnessed the establishment of national art academies and museums in the nineteenth century and the amassing of *avant garde* collections of European masters and non-Western art in the twentieth, along with the emergence of prize-winning Nordic designers in industrial settings. Although on the periphery of Europe, Scandinavian masters' art reflected contemporary styles but also displayed the austerity and fantasy of traditional folk designs which evolved out of the poverty and isolation of its largely rural population in the centuries before the modern era. The art of the five Nordic countries provides a model for examining the integration of ethnic folk art motifs with mainstream European styles as well as the acceptance of both fine and applied arts as equal in importance. In addition, indigenous art of the Sami and the Greenlandic Inuit enriched folk and international design motifs. The art of those artists who participated in the great emigration of Scandinavian peoples to North America in the late nineteenth into twentieth centuries will also be examined in relation to the influences of mother country and the American artistic mainstream.

Prerequisite: one ARTH course or permission of instructor

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

These courses allow students to gain credit for certain non-classroom experiences. (These do not include studio art courses.) Normally open to junior and senior students. Permission of the department chair is required. Credit for experience is normally sought prior to its occurrence. See the complete description of these courses at the beginning of the "Curricula" section of this catalog.

Prerequisite: previous course or courses in art history

480 Senior Presentation and Paper

0 credit

During the senior year or earlier, art history majors are expected to write a major research paper with an abstract and to describe the results of their research in a short oral presentation. The purpose of this paper and presentation is to allow the student to demonstrate competency in art historical methodology and to gain some experience from presenting the results to a group of peers.

Normally, this requirement is done in lieu of the regular paper assignment for one of the upper-level courses. The topic should be chosen in consultation with the instructor of the course by the end of the second week of the semester and should be completed no later than six weeks prior to graduation. In addition, students will present a short oral report on their research to a departmental symposium to be held prior to graduation. Registration for 480 should be made during the semester that the student anticipates writing the paper. A mark of pass or fail will be assigned upon completion.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics	2 credits
489, 490 Topics	
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html .	
491, 492 Research	2 credits
493, 494 Research	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	
495, 496 Individual Study	2 credits
497, 498 Individual Study	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	
Prerequisite: permission of the instructor or supervisor and previous work in art history	

Biology (BIOL)

Emms (chair), Chaplin, Cruise, DeJong, Ditty, Hartung, Manske, Nelson, Sherer, Steyermark, Verhoeven, Zimmer, Lewno, Schroeder, Wilson

Modern biology encompasses an extraordinary range of disciplines, from molecular genetics at one end of the spectrum to global ecology at the other. The biology curriculum at St. Thomas reflects this diversity, providing the breadth of experience that students need in their freshman and sophomore years with the depth that they value as juniors and seniors. Courses at all levels of the curriculum emphasize two fundamentals: mastering the essential material of each discipline and developing the intellectual skills needed to do science – asking the right questions, developing methods to answer these questions and critically evaluating the results of these investigations. As well as providing a broad-based liberal arts education in the biological sciences, the biology program serves as an excellent basis for students planning careers in academia, agricultural and forest science, bioinformatics and genomic research, biotechnology, biomedical research, conservation biology, environmental science, forestry and wildlife management, medicine, dentistry, and other health professions, and veterinary medicine.

A principle objective of the Department of Biology is to provide students with an excellent preparation for post-graduate pursuits. Graduates of the program command an understanding of core concepts in biology as well as an ability to design and implement studies of biological questions. The department evaluates its success in achieving these objectives using several tools, including assessments of seniors and alumni.

The curriculum for a major in biology is divided into three tiers, offering increasing levels of challenge, greater emphasis on independent work, and more extensive use of the primary literature. All biology majors take an introductory series of fourteen credits (201, 202, 204 and 206) in the first of these tiers. These core courses cover the central concepts of modern biology and provide a foundation for more specialized study at higher levels of the curriculum.

The second-tier courses (301-399) build on this foundation and offer a broad range of topics at an intermediate level, including research (391-392). Some second-tier courses may be taken by students prior to completion of BIOL 204 and/or 206.

All third-tier courses (401-498) require the completion of specific second-tier courses and involve advanced scholarship, independent research projects, and extensive use of the primary literature. Research courses (491-494) are available to students wishing to pursue in-depth studies in laboratory and/or field situations. Individual Study courses (495-498) allow for tutorial study in a specialized subject area of the student's choosing that is not otherwise available. Additional offerings in the form of Seminar (483-486) or Topics (487-490) courses are available from time to time. Courses numbered between 483-498 may, with approval of the department chair, be used to fulfill the 400-level requirement for the major.

Courses numbered 101-199 are intended for non-biology majors and cannot be used to fulfill either the major or minor requirements in biology. All of these courses fulfill the laboratory science requirement in the core curriculum.

Students planning to enter graduate school or a professional program after leaving St. Thomas should consult the entrance requirements of these programs while planning their choice of undergraduate courses. Students are strongly encouraged to consult with their biology adviser while making these plans.

Courses taken at other colleges by students already matriculated at St. Thomas may be credited toward the requirements of the major only with prior and explicit written approval of the departmental transcript evaluator. Approval will be granted only to reconcile schedule conflicts which otherwise would be unavoidable, to provide opportunities to enroll in appropriate courses that are not available in the St. Thomas curriculum, or to rectify problems arising from other special circumstances. These limitations apply to all requirements of the major, including courses in the allied requirements.

Transfer students desiring credit toward the major for work completed prior to matriculation at St. Thomas should contact the transcript evaluator in the Office of the University Registrar before seeking departmental approval.

Students receiving a 4 or 5 on the Biology Advanced Placement Exam or 5-7 on the International Baccalaureate exam will receive college credit for BIOL 101 (fulfills a natural science with laboratory course requirement), and the first core course of the majors' sequence may be waived, depending on laboratory experi-

College of Arts and Sciences – Departments

ence. Nine courses will still be required to complete the major. Placement of AP or IB students in the core sequence must be determined in consultation with the chair and the department transcript evaluator.

Departmental Participation

Students are encouraged to further engage the discipline of biology by participating in various departmental activities. Valuable experiences in the department include both paid and volunteer roles as research assistants (with ongoing faculty projects), teaching assistants, lab preparators, biology tutors and summer research or teaching assistants. Together with off-campus internships, membership in the Biology Club and the Beta Beta Beta National Biology Honor Society, as well as the Biology Seminar Program and various special events, these opportunities offer many ways to explore the vast discipline of biology and become better acquainted with faculty members and other students.

Biology Honor Society

Beta Beta Beta, the national biology honor society, chartered the *Gamma Tau* chapter at St. Thomas in 1990. The purpose of this organization is to recognize and encourage excellence in the study of biology, and to sponsor events and services of interest to biology students. The organization has a particular interest in promoting and recognizing student research, and encouraging students to consider vocations in the field of biology. *Beta Beta Beta* provides opportunities for presenting and publishing student work on a regional and national level.

Students are eligible for full membership when they have completed twelve credits in the department, with at least four credits at the 300-level, and have a grade point average of 3.0 or better in biology department courses. Associate membership in the chapter is available to all interested students.

Biology Honors Program

Candidates for graduation with honors in biology must complete four credits in 400-level biology Research (491-494), present and defend a thesis based on their work; achieve a final cumulative grade point average of at least 3.50 in biology department courses, 3.25 in biology and allied courses and 3.00 overall; and present their research at a scientific meeting beyond the St. Thomas community.

Interdisciplinary Programs

The Departments of Biology and Chemistry jointly offer a biochemistry major leading to a Bachelor of Science degree that draws upon the faculty and courses of both departments.

Students interested in concentrating in biology in an Environmental Studies major listed in this catalog should consult with a Department of Biology adviser to select appropriate courses.

Pre-Health Professions Programs

Students interested in a career in the health professions should consult the university's pre-health professions adviser in the Owens Science building. See Pre-Professional Programs in this catalog for coursework suggestions, internships, and other information.

Life Science Education

For information on the teaching licensure program in Life Sciences, see the School of Education Teacher Education section in this catalog. Students interested in specializing in biology at the elementary school level should consider the integrated major in Science and mathematics for Elementary Education (SMEE) described in the School of Education section of this catalog.

Major in Biology

- 201 Diversity and Adaptation
- 202 Genetics and Population biology
- 204 Cellular and Molecular Biology
- 206 Global Ecology (2 credits)

Note: The normal expectation is that students will complete BIOL 201, 202, 204, and 206 by the end of their sophomore year.

Plus twenty-two credits, at least four of which must be in courses numbered 400-498, from:

- 210 Introduction to Laboratory Research (2 credits)
- 211 Introduction to Field Research
- 298 Topics
- 302 Animal Diversity
- 315 Biology of Plants
- 330 Animal Behavior
- 333 Ecology
- 349 Comparative Anatomy and Physiology I
- 350 Comparative Anatomy and Physiology II
- 353 Microscopic Anatomy
- 354 Neurobiology
- 356 Microbiology
- 360 Genetics
- 371 Cell Biology

391, 392 Research (2 credits)*

415 Plant Physiology and Adaptations to Stress

430 Behavioral Ecology

435 Aquatic Biology

462 Molecular Biology

463 Immunology

465 Developmental Biology

471 Evolution

483, 484 Seminar (2 credits)

485, 486 Seminar

487, 488 Topics (2 credits)

489, 490 Topics

491, 492 Research (2 credits)*

493, 494 Research*

495, 496 Individual Study (2 credits)*

497, 498 Individual Study*

CHEM 440 Biochemistry I**

*A maximum of eight credits in Research and/or Individual Study will be credited toward the requirements of the major.

**CHEM 440 may be counted toward the major as a 300-level elective course.

Allied requirements

CHEM 111 General Chemistry I

CHEM 112 General Chemistry II

CHEM 201 Organic Chemistry I

Plus one of:

MATH 303 Statistics for the Applied Sciences

QMCS 220 Statistics I

Note: The normal expectation is that students will complete the above allied requirements by the end of the sophomore year.

Plus at least two of the following selected in consultation with the departmental adviser:

CHEM 202 Organic Chemistry II

MATH 109 Calculus with Review II or MATH 113 Calculus I

PHYS 109 General Physics I or PHYS 111 Introduction to Classical Physics I

Note: Alternative course combinations to satisfy elective allied requirements may be proposed by majors for approval by the departmental curriculum committee.

Major in Biochemistry (B.S.)

See College of Arts and Sciences Interdisciplinary Programs

Teacher Licensure

Elementary Education with a Co-major in Science and Mathematics for Elementary Education

Elementary Education with a Specialty in Science (5-8)

Co-major in Science (5-8) – Life Science (9-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Minor in Biology

201 Diversity and Adaptation

202 Genetics and Population Biology

Plus:

Twelve additional credits in biology courses numbered 200 or above, selected in consultation with a biology faculty member.

101 General Biology

Emphasizing biology as a creative, investigative process and its relevance in today's world, this course provides an overview of cell biology, genetics, physiology, and human impact on the environment. Two laboratory hours per week. Not open to biology majors, pre-professional students, or students who have completed BIOL 105.

102 Conservation Biology

An introduction to the basic concepts of conservation biology, including the history of conservation, the value of biological diversity, threats to biodiversity, conservation at the population, species, and community levels, and applications to human activities. Laboratories will emphasize data collection and analysis, and the practical application of conservation practices. This course is designed to meet the needs of the Environmental Studies major for a core course in environmental biology. Two laboratory hours per week.

College of Arts and Sciences – Departments

105 Human Biology

An introduction to cells, genetics, development and the human body, and the impact of humans on the environment. Laboratories will emphasize investigative scientific problem solving and creative thinking. Does not fulfill entrance requirements for some health professions programs. Pre-health professional students should consult the Health Professions Adviser. This course is designed to meet the need of social work and psychology majors. Two laboratory hours per week. Not open to biology majors, or students who have completed BIOL 101.

201 Diversity and Adaptation

A survey of living organisms with emphasis on their origins, relationships, and adaptation to their environment. An examination of structural and functional bases of adaptation. Laboratory work will emphasize hypothesis testing, experimental design, data collection and analysis. Three laboratory hours per week.

Prerequisite: Concurrent registration in CHEM 111 or CHEM 101 strongly recommended.

202 Genetics and Population Biology

A consideration of the mechanisms of heredity, evolution, and population ecology, using a problem-solving approach. Topics include: Mendelian genetics, genetic mapping, population genetics, selection theory, speciation, and the growth and regulation of populations. Laboratory work will emphasize techniques for data analysis. Computer simulation will be employed. Three laboratory hours per week.

Prerequisite: 201; concurrent registration in CHEM 112 strongly recommended.

204 Cellular and Molecular Biology

An examination of structure and function emphasizing unifying principles and regulatory mechanisms in cells. Coverage includes biologically important molecules and macromolecules, organelles and organellar systems, growth, metabolism, gene expression, and cellular differentiation. Laboratory work emphasizes experimental methods and data-based reasoning. Four laboratory hours per week.

Prerequisites: 202, CHEM 112, and concurrent registration in CHEM 201

206 Global Ecology

2 credits

A study of ecological processes operating at the community, ecosystem, and global level. Case studies will be used to integrate cellular, organismal, and ecological approaches to understanding these processes, and to explore the effects of human activities on the global environment. Classes will meet weekly and will combine lecture material with student presentations and discussion of reading assignments. Assessment will be based on the quality of these presentations, contribution to class discussions, and written assignments chosen by the faculty members teaching each section.

Prerequisites: 201 and 202; 204 and CHEM 101 or 111 strongly recommended

210 Introduction to Laboratory Research

2 credits

An introductory experience in the pursuit of laboratory based research problems in biology. Students work in teams to perform experiments designed to answer questions in a specified area of biology, maintain a journal of these experiments and their observations, and study and discuss pertinent literature. Emphasis on the application of the scientific method to biological problem solving, the role of research teams in science and the communication of findings to others as the end product of science. Area of investigation varies with the research interests of the instructor(s) for the course. Offered only in January term.

Prerequisite: Open to biology majors or prospective majors; BIOL 201. First-year or sophomore status or permission of instructor

211 Introduction to Field Research

An introductory experience in field-based research problems in biology. Students will work individually or in small teams to define appropriate questions, design research methods, collect and analyze data, and present oral and written reports. Emphasis is on the application of the scientific method to biological problem solving and the communication of findings to others as the end product of science. Areas of investigation vary with the interests of the students and instructors and with the availability of research organisms. Generally offered in January term. Field trip of 2-3 weeks to a tropical site (Mexico, Belize, Ecuador, Jamaica, or Costa Rica) and additional fees required.

Prerequisites: Open to biology majors or prospective majors; BIOL 201. Preference given to students in their first or second year of study in the discipline.

215 Regions Hospital Volunteer Program

0 credit

Students volunteer for four hours a week at Regions Hospital in St. Paul serving in various patient care areas. Included in this year-long program, the student will have experience with the emergency room, the burn center, physical and occupational therapy, nursing stations specializing in orthopedics, pediatrics, surgery, medicine and obstetrics. This service gives the students the opportunity to test their interest in health care, obtain knowledge, gain experience, and provide service to the community.

216 Basic Nursing Skills Training Program

0 credit

Volunteers who have completed 215 are eligible for the Nursing Assistant Training Program offered at Regions Hospital in St. Paul. Topics include hospital organization, patient care techniques, CPR, sterile techniques, medical ethics and patient communication. Students will also become eligible to apply for paid positions as patient-

care assistants at the hospital. Offered in January term.

Prerequisite: A minimum grade of C- in 215

217 Students and Physicians Program

0 credit

The Students and Physicians Program at St. Joseph's Hospital provides students who are nursing assistants with the opportunity to accompany a physician during his/her duties at the hospital. This one-on-one experience allows students the opportunity to observe the daily work of physicians and to discuss with them the nature of a medical career. Offered in January term.

Prerequisite: A minimum grade of C- in 216

218 Pre-dental Internship Program

0 credit

The Pre-dental Internship Program, a cooperative program between the university, the School of Dentistry at the University of Minnesota, and the American College of Dentists, provides students with the opportunity to learn about the dental profession through observation at a variety of dental practices. The program also includes seminar sessions at which students learn about the business and management sides of dentistry, admissions procedures for dental school, trends in the dental profession, different models for establishing a dental practice, *etc.*

291, 292 Topics without laboratory

Same as 295-298 except that these courses do not have a laboratory component.

Prerequisite: Permission of the instructor

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Courses in this category may be credited toward the requirements of the major depending on appropriateness of content, and with prior and explicit written approval of the instructor and the department chair. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

Prerequisite: Permission of the instructor

302 Animal Diversity

This course emphasizes the variety of morphological and physiological solutions that have evolved to satisfy the requirements of life as an animal in water and on land. Primary focus is on invertebrates. Students have access to marine and freshwater aquaria and to natural habitats for class study and individual projects. Three laboratory hours per week.

Prerequisite: 202 and CHEM 111

315 Biology of Plants

This course explores the biology of plants from several perspectives. Major topics include the evolution and diversity of plants, plant structure and physiology, as well as an introduction to local flora. Special topics may include such areas as the history of agriculture and the impact of genetic engineering on modern agriculture. Four laboratory hours per week. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 202; completion of or concurrent registration in CHEM 101 or CHEM 111 or permission of instructor

330 Animal Behavior

The study of animal behavior from an evolutionary perspective. The adaptive value of behaviors such as display, habitat selection, foraging pattern, and mating system is examined. Theoretical analyses of sexual selection and the evolution of cooperation and altruism are considered. Laboratory work emphasizes the measurement and analysis of animal behavior under natural conditions. Three laboratory hours per week.

Prerequisite: 202; QMCS 220 or MATH 303 recommended

333 Ecology

An exploration of the major concepts in modern ecology, including ecophysiology and adaptation, population growth and regulation, community and ecosystem ecology, and biodiversity and conservation biology. Laboratory and field work will complement these topics and will emphasize careful experimental design and statistical analysis of data. Four laboratory hours per week. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 202; QMCS 220 or MATH 303 recommended

349 Comparative Anatomy and Physiology I

Examination of the functional morphology of the vertebrate skeletal, muscular, nervous, endocrine and reproductive systems. Emphasis will be placed upon the evolution, development and function of these systems as well as the control and integration of all organ systems in vertebrates. This course may be taken as part of a two-semester sequence with BIOL 350 but may also be taken alone. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 204 or permission of instructor

350 Comparative Anatomy and Physiology II

An examination of the functional morphology of the vertebrate cardiovascular, respiratory, renal, and digestive systems, including control and integration of organ systems, adaptation to environment, and evolutionary development in vertebrates. Laboratory work will emphasize functional comparisons of vertebrate organ systems and an experimental approach to physiological problems. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 204, 349, and QMCS 220 or Math 303 strongly recommended

353 Microscopic Anatomy (Vertebrate Histology)

Microscopic structure and its relationship to physiological function among the basic tissue types and in selected organ systems. Focus includes levels of biological organization from subcellular to organismal, with emphasis on humans and other mammals. Special consideration is given to the organization and function of integrating systems, including glandular, vascular, and neural, and to the molecular structure of, and functional integration among, cellular junctions and transport mechanisms, cytoskeletal components, and extracellular matrices. Participation in an experimental or other investigative project is expected. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 204

354 Neurobiology

An introduction to the study of neuroscience from the cellular, systems, and behavioral perspectives. Topics will include how information is carried by neural tissues, the ionic basis for neuronal potentials, neurotransmitters and synaptic transmission, sensory and motor systems, and the neural mechanisms of learning, memory and behavior. Psychology and Behavioral Neuroscience students not meeting the prerequisites are encouraged to discuss enrollment with the instructor. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: A minimum grade of C- in 204; completion or concurrent enrollment in CHEM 202, or permission of instructor

356 Microbiology

An in-depth study of the biology of microorganisms directed at gaining an understanding of the mechanisms that underlie the functions of bacteria and viruses. The importance of microorganisms as they relate to human disease, industry and the environment will be explored through lectures, readings from the literature and discussions. Laboratory includes an independent research project done in collaboration with the professor and peers. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 204; completion of or concurrent registration in CHEM 201

360 Genetics

Detailed consideration of specific topics in transmission, molecular, and population genetics. Eukaryotic and prokaryotic systems discussed. Genetic reasoning and analysis will be emphasized. Three laboratory hours per week.

Prerequisite: A minimum grade of C- in 204; CHEM 202

371 Cell Biology

An advanced investigation of topics in cell structure and the regulation of cellular activities, including signal transduction, protein transport, cell-cycle regulation, and cellular movement, emphasizing molecular mechanisms, current concepts and their experimental basis. Includes significant use of the primary literature. Four laboratory hours per week.

Prerequisites: A minimum grade of C- in 204; CHEM 202

391, 392 Research

2 credits

Original laboratory, field, library or other analytical investigation under the direction of a member of the biology faculty, culminating in either a written research paper or an oral presentation. Upper-class standing not required.

Prerequisite: 201

415 Plant Physiology and Adaptations to Stress

An examination of fundamental principles in plant physiology, such as photosynthesis and plant water transport. In addition, special focus will be given to understanding how plants survive and adapt to adverse environmental conditions, e.g. drought, nutrient limitation, and extreme temperatures. Four hours laboratory per week. The laboratory will include an independent research project. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: A minimum grade of C- in 204; any 300-level BIOL course

430 Behavioral Ecology

The influence of natural selection on behavior in relation to ecological conditions. Emphasis is on integration of theoretical and experimental methods. Includes critical reading of papers from the primary literature and completion of a significant independent research project. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 330 or 333; QMCS 220 or MATH 303 strongly recommended

435 Aquatic Biology

Characteristics of lakes, streams and other aquatic habitats; including plant and animal communities, water chemistry and productivity. Use of recent primary literature to learn and evaluate field techniques, data collection and data analyses. Both individual and class research projects focus on aquatic systems. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 330 or 333; QMCS 220 or MATH 303 strongly recommended

462 Molecular Biology

An investigation of current concepts in molecular biology including gene expression and its regulation, the organization of genetic information, recombinant DNA techniques, oncogenes and genetic engineering. The laboratory consists of a collaborative research project. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 360 or 371

463 Immunology

A study of the mammalian immune system emphasizing the genetic and cellular basis of the immune response. Basic immunological concepts will be used to explore the mechanisms of transplantation rejection, autoimmunity, AIDS and other topics of interest. Laboratory will consist of an independent research project done in collaboration with the professor and peers. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 360 or 371

465 Developmental Biology

Examines current concepts of the mechanisms underlying developmental change and their experimental basis. Considers both genetic and epigenetic controls and their investigation in animal embryogenesis, metamorphosis, and cell-culture systems. Laboratory work comprises an experimental investigation and a written report that draws substantially from the primary literature. Four laboratory hours per week.

Prerequisite: A minimum grade of C- in 360 or 371, or permission of the instructor

471 Evolution

An advanced exploration of the major concepts in modern evolutionary biology, including adaptation and natural selection, evolutionary genetics and microevolution, paleontology and macroevolution, and molecular evolution. Three laboratory/recitation hours per week.

Prerequisites: A minimum grade of C- in 204; any 300-level BIOL course

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the "Curricula" section of this catalog.

483, 484 Seminar

2 credits

485, 486 Seminar

Investigation of selected problems in biology at an advanced level, involving student presentations based on the primary literature. The subject will vary and will be announced in the annual Class Schedule. These courses may, with approval of the department chair, be used to fulfill the 400-level requirement for the major.

Prerequisite: Upper-class standing and permission of the instructor

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html. Courses in this category may be credited toward the requirements of the major depending on appropriateness of content, and with prior and explicit written approval of the instructor and the department chair. These courses may also, with approval of the department chair, be used to fulfill the 400-level requirement for the major.

Prerequisite: Permission of the instructor

491, 492 Research

2 credits

Same as for 493 and 494, except that written research paper is not a formal research paper.

493, 494 Research

Original laboratory, field, library, or other analytical investigation under the direction of a member of the faculty, culminating in the writing of a formal research paper in standard scientific format that incorporates a review of the appropriate literature. Oral presentation of the work at a research symposium required. These courses may, with approval of the department chair, be used to fulfill the 400-level requirement for the major.

Prerequisite: Upper-class standing and permission of the instructor and the department chair

495, 496 Individual Study

2 credits

497, 498 Individual Study

These courses provide a means for obtaining credit on a tutorial basis for courses not otherwise available at UST or other institutions in the ACTC consortium, and are intended to satisfy unusual needs and circumstances. Students interested in Individual Study should discuss their plans with the faculty member most likely to be their

College of Arts and Sciences – Departments

tutor. Individual Study contract forms must be completed and approved by the faculty member, the department chair, and the dean of the College prior to registration. These courses may, with approval of the department chair, be used to fulfill the 400-level requirement for the major.

Prerequisite: Permission of the instructor and the department chair

Catholic Studies (CATH)

Thompson (chair), Joncas, Jordan, R. Kennedy, Reichardt, Ruddy; Boyle (THEO), Lemmons (PHIL), Naughton (THEO), Wojda (THEO)

The Department of Catholic Studies is designed to allow students to encounter the broad and diverse expressions of Catholic culture. While grounded in Catholic philosophy and theology, the curriculum engages students with the imaginative and sacramental expressions of Catholic life in literature, the arts, social systems and personal experience. The interdisciplinary dimension gives students insight into the Church's dynamic interaction with and interpenetration of cultures, traditions, and intellectual life throughout history. By examining the role the church has played in various cultures, students are challenged to take seriously Catholicism's transforming power in every aspect of intellectual, spiritual, and social life.

Faculty are united by a profound respect for Catholicism, and are committed to a high degree of interaction among themselves as well as with students. Students thus enter into a community at once faithful and intellectual.

The curriculum can appeal to students of any faith tradition who seek to deepen their knowledge of Catholicism's rich and living heritage. Its interpersonal approach and opportunities for sustained reflection on important issues invite students to a more profound and mature experience of faith.

Students graduating with a major in Catholic Studies will have a knowledge of the living Catholic tradition, and will be conversant with resources from the Catholic intellectual tradition that will permit them to explore critically the history and contemporary significance of Catholicism. They will be familiar with major Catholic figures from a variety of cultural and historical settings, and will be able to demonstrate a knowledge of the complex and broad history of the Catholic intellectual tradition.

The major consists of 32 credits: 20 credits in core courses and 12 credits in electives (eight elective credits for double majors). The minor consists of 16 credits: 12 credits in core courses and four elective credits. Many courses are cross-listed with another department. Students majoring or minoring in other disciplines are invited to take an occasional course in the program at any time.

Please consult the on-line catalog or the department chair for up-to-date major/minor requirements.

Major in Catholic Studies

240 Faith and Doubt
301 The Catholic Vision
312 Catholic Social Thought
334 Literature from a Christian Perspective
one additional CATH course

Plus:

Twelve credits in electives chosen from three of the following four categories:

CATH 222 The Catholic Literary Tradition: Medieval to Modern

THEO 310 Christian Worship

An historically-based course from the Catholic Studies curriculum or a course approved by the chair

An aesthetics course from the Catholic Studies curriculum or a course approved by the chair

Minor in Catholic Studies

240 Faith and Doubt
301 The Catholic Vision
334 Literature from a Christian Perspective

Plus:

Four credits chosen from the following five categories:

CATH 222 The Catholic Literary Tradition: Medieval to Modern

CATH 312 Catholic Social Thought

THEO 310 Christian Worship

An historically-based course from the Catholic Studies curriculum or a course approved by the chair

An aesthetics course from the Catholic Studies curriculum or a course approved by the chair

222 The Catholic Literary Tradition: Medieval to Modern (ENGL 222)

This course surveys literary works with theological or spiritual themes that have contributed to the vitality of Catholic culture. The purpose of the course is to help students realize that Catholic culture has fostered a variety of literary expressions and has produced works that speak compellingly of human experience and sacramental life. Prerequisites: ENGL 111 and 112 or 190

234 Love, Sex and Friendship (PHIL 234)

A philosophical examination of the nature of human love. Possible topics include reciprocity and permanence, fidelity, romantic love, human sexuality, kinds of friendship. Special attention will be given to the thought of John Paul II.

Prerequisite: PHIL 115

240 Faith and Doubt (PHIL 240)

Philosophical arguments for and against the possibility of divine revelation. Special attention will be given to the claim that the faith of the Catholic Church is revealed. Possible topics include tests of alleged revelations and miracles, evil as a barrier to belief in revelatory claims, the compatibility of science and religion, the role of reason and faith in religious commitment, and personal decision-making in a state of doubt about evidence.

Prerequisite: PHIL 115

250 Christian Mysteries from a Philosophical Viewpoint (PHIL 250)

A consideration of philosophical problems associated with Catholicism. Possible topics include divine providence, creation, the soul, freedom of the will, faith, the Eucharist, the Incarnation, and the variety of religious beliefs.

Prerequisite: PHIL 115

272 Evolution and Creation (PHIL 272)

A philosophical examination of the relation between the doctrine of creation and theories in the evolutionary sciences. The course will consider arguments concerning evolution and creation from a variety of disciplines (including philosophy, theology, and natural science). The course will also examine historical and philosophical aspects of the relation between science and religion on the origins of the material world and the human race.

Prerequisite: PHIL 115

295, 296 Topics**2 credits****297, 298 Topics**

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

301 The Catholic Vision

At the center of the Catholic vision are the two great works of divine love: creation and salvation. This course considers the implications of these divine works for a radical reconsideration of the world and the human person. Readings are drawn from sacred Scripture, councils, and theologians throughout the tradition with specific attention given to the intellectual and spiritual consequences of Catholic doctrine. Possible authors studied include Augustine, Basil, Francis, Ignatius, Teresa of Avila, Pascal, Newman, Maritain and de Lubac. In addition, the visual arts and works of literature by such figures as Dante, Hopkins, O'Connor and Percy will provide important illustrative examples.

Prerequisite: THEO 101 (or 102 and 103)

306 Christian Faith and the Management Professions (THEO 306)

What is a good manager and how does he or she contribute to the common good? This course pursues these questions within the Christian social tradition broadly understood through an exploration of the theological relationship between work as a vocation and leisure as contemplation. Within this theological context, the course examines the financial, organizational, technological, and cultural forces that managers and organizations encounter daily.

Prerequisites: THEO 101 (or 102 and 103) and one 200-level THEO course

308 Woman and Man

This course examines the definition of "woman" and "man" from both the historical and the philosophical perspective. Readings and discussion center on the question of (1) whether there are important philosophical differences between women and men and (2) whether such differences are natural or socially constructed. The implications of various answers to those questions are then examined, with special attention given to the Catholic tradition's reflections on the nature and ends of marriage, the character of priestly ordination, friendship between women and men, and human sexuality. This course fulfills the core curriculum requirement in Human Diversity.

Prerequisite: PHIL 115

312 Catholic Social Thought

Rooted in Scripture, Catholic thought on social questions has always constituted a challenge to communities to protect human dignity from the concrete threats of the day. As it matured, Catholic social thought developed both a theoretical framework as well as a set of principles and guidelines for structuring communities in ways that protect and advance human dignity. The purpose of this course will be to explore both dimensions of Catholic social thought in their historical origins and in their contemporary expressions. Although the course presupposes a theological context, the principal focus will be on the interdisciplinary contributions to and implications of Catholic social thought.

Prerequisites: THEO 101 (or 102 and 103) and PHIL 115

College of Arts and Sciences – Departments

334 Literature from a Christian Perspective (ENGL 334)

This course examines methods of reading and literary texts from a Christian perspective. The general question of the course is, “how does a reader engage works of imaginative literature from an intellectually serious Christian perspective?” The course studies works of criticism representing a variety of Christian viewpoints and applies them to literary texts that are explicitly Christian in themes as well as those which invite, or are enriched by, a Christian perspective.

Prerequisites: ENGL 111 and 112 or 190

346 Christian Faith and the Education Profession (THEO 346)

This course explores education through its grounding in the Christian understanding of God and the human person. Theological topics relevant to education include: the nature of truth, the relationship between faith and reason, and freedom in moral and intellectual formation. We will also examine questions about faith-based education in a pluralistic context and the relevance of an interdisciplinary search for truth. In light of the growing trend toward academic specialization, this course aims to help students learn how various disciplines are integrated in the search for wisdom.

Prerequisites: THEO 101 (or 102 and 103) and one 200-level THEO course

356 Music and the Bible (THEO 356)

This course explores the social, cultural and religious contexts for music-making among biblical peoples and the primitive Christian communities. Students will learn to do detailed analysis of psalm and canticle texts in the Old Testament and acclamations, infancy canticles, God-hymns, Christ-hymns and psalmody in the New Testament. Implications for present-day worship and spirituality will also be addressed.

Prerequisites: THEO 101 (or 102 and 103) and one 200-level THEO course

357 Sacred Music of the Catholic Heritage (THEO 357)

Music both expresses and shapes religious experience. This course explores the practice and theory of music-making in Catholic worship and devotion. Special emphasis will be given to the study of Gregorian chant as foundational for Roman Rite worship music, the historical development of other forms of Catholic church music, and contemporary issues of music, culture and spirituality.

Prerequisites: THEO 101 (or 102 and 103) and one 200-level THEO course

364 Science and Christian Theology (THEO 364)

This course is an introduction to the interrelationship between Christian theology (the understanding of the Christian faith), and the natural sciences. It explores the relationship between scientific and theological methods and modes of knowledge, and considers some of the central topics of Christian theology – God, creation, providence, resurrection, and afterlife – in the light of modern scientific evidence and theories.

Prerequisites: THEO 101 (or 102 and 103) and one 200-level THEO course, PHIL 115, some college-level background in science, preferably biology, physics, or chemistry

366 Psychology and Moral Theology (THEO 366)

Although the fields of psychology and moral theology are in some ways similar in that they each address questions of human nature and human growth, they are also quite distinct in their conceptions of the human person. This course will explore some of the relationships between psychology and moral theology, especially in matters of human wellness and personal well-being. Areas of disparity between the disciplines as well as points of commonality and fruitful exchange will be discussed.

Prerequisites: THEO 101 (or 102 and 103) and one 200-level THEO course

378 Christian Faith and the Legal Profession (THEO 378)

If to work is to share in the creative activity of God, then what specific challenge does this pose for an attorney given the grinding realities of the legal profession? If to be a professional is to live out a tripartite relationship between self, client, and a higher standard, then how does an attorney determine, much less respond to such a standard? Through a close reading of a variety of theological texts, treatises, case studies and rules of professional conduct, this course will address these questions and, in so doing, attempt to fashion a paradigm for the Christian practice of law. Within this paradigm, emphasis will be placed on the meaning of justice, law, rights and responsibilities. An ethic of care that fosters the development of a compassionate world and a common life will be emphasized.

Prerequisites: THEO 101 (or 102 and 103) and one 200-level THEO course

379 Christian Faith and the Medical Profession (THEO 379)

What is a good doctor? This course pursues this question and possible answers to it, from a historical, moral, and theological point of view. Reading and discussion will be guided by a detailed investigation of the scientific/technological, economic, and cultural forces that are presently complicating our traditional understanding of medical practice. Emphasis throughout will be on the Christian tradition of moral inquiry as a resource for responding to this question.

Prerequisites: THEO 101 (or 102 and 103) and one 200-level THEO course

397, 398 Topics

This course will examine in detail a small focused set of questions arising from one or more areas of the interdisciplinary program in Catholic Studies. Topics will vary from year to year but will not duplicate existing courses. The selection in any given semester will depend upon the interest of the students and instructors and on the availability of community resources (for example, guest lecturers). Some examples of subject matter include: Is Christian tragedy possible? Does Catholic belief conflict with the findings of modern science? What is the relationship of Catholicism to various economic systems? The odd number is used if the course fulfills a core curriculum requirement.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the "Curricula" section of this catalog.

Chemistry (CHEM)

Boyd (chair), Bilek, Borgerding, Brom, Glorvigen, Hartshorn, Ippoliti, Mabbott, Marsh, Olson; Cain, Krueger, Ojala, Ovechka

The Department of Chemistry offers two degree programs in the field of chemistry: a Bachelor of Science (B.S.) degree and a Bachelor of Arts (B.A.) degree. The department is on the list of schools approved by the American Chemical Society (ACS) for the professional training of chemists, and the B.S. degree is certified by the American Chemical Society. The B.S. has either a chemistry or a biochemistry concentration option. This degree is recommended for students who plan to pursue graduate study in chemistry in preparation for college teaching or advanced research in academic, industrial or government laboratories.

The B.A. degree requires fewer chemistry courses and offers the possibility of completing a double major if students have a strong interest in another field. Both degrees offer some latitude in the selection of upper level courses, thus allowing the student some flexibility to pursue an interest in a particular area of chemistry. Students graduating with either the B.S. or the B.A. may also qualify for departmental honors.

Students graduating with a major in chemistry will have the necessary knowledge to prepare them for a career in chemistry or for graduate school, and the confidence and skill to succeed. They will have the ability to read, understand, write and speak with clarity and understanding in technical areas. They will constantly apply critical thinking to their readings in the technical literature. They will have developed good laboratory skills and be familiar with modern instrumentation and with the use of computers in technical fields. They will have developed the skills necessary to analyze their data and to draw conclusions from it.

Chemistry is an excellent major for students interested in biochemistry, food science, forensic science, medicine, medicinal chemistry, dentistry, pharmaceutical chemistry, pharmacology, pharmacy, patent law, polymer science, chemical engineering, environmental science, materials science and other interdisciplinary fields. The major is also suited to students with a complementary interest in other sciences, or in computers, education, economics or business.

Students interested in teacher licensure should consider the various combinations of science education in the Department of Teacher Education in this catalog.

The Departments of Chemistry and Biology jointly offer a B.S. degree in biochemistry. The curriculum for this degree may be found under "Interdisciplinary Programs" in this catalog.

All graduating senior majors are required to take an achievement test for purposes of assessment of the major and College accreditation.

In order to receive a degree in chemistry from the University of St. Thomas, transfer students must complete a minimum of sixteen credits in chemistry at the university in addition to the two-credit seminar sequence.

The department offers a number of courses for non-majors to fulfill the laboratory science component of the core curriculum.

Graduation with Honors in Chemistry

Students graduating with a B.A. or B.S. degree in chemistry may also qualify for departmental honors. Students interested in this designation must consult with the department chair one year (or more) prior to their graduation date. Requirements include:

College of Arts and Sciences – Departments

1. a minimum cumulative GPA of 3.25 and a major field GPA of 3.50;
2. completion of four credits in research (CHEM 491-494); (participation in one summer of research in chemistry at St. Thomas may be applied in place of two credits; research must be completed at least one semester before graduation);
3. preparation of a written thesis in the format of the primary literature;
4. successful defense of the thesis before a panel composed of:
 - thesis director (chair of committee)
 - two additional UST chemistry faculty
 - one UST faculty member outside the chemistry department
 - one faculty member from another institution selected in consultation with the thesis adviser (while off-campus examiners are typically chemists, committee members from other disciplines such as biochemistry and physics may be employed when appropriate).
5. presentation of research at an off-campus meeting such as the Minnesota Section ACS Undergraduate Research Symposium, Minnesota Academy of Sciences, NCUR, regional ACS meeting, or national ACS meeting.
6. All requirements must be completed by April 20 for spring commencement, or similarly early enough to allow for notification of the registrar and academic dean.

Major in Chemistry (B.S.) (ACS-certified)

- 111 General Chemistry I
and
112 General Chemistry II
or
115 Accelerated General Chemistry

Plus:

- 201 Organic Chemistry I
202 Organic Chemistry II
300 Quantitative Analysis
320 Instrumental Analysis
331 Chemical Thermodynamics and Reaction Dynamics
332 Quantum Chemistry and Molecular Spectroscopy
340 Organic Spectroscopy (2 credits)
400 Advanced Inorganic Chemistry
440 Biochemistry I
481-484 Student Seminar Sequence (2 credits total)
491 Research (2 credits) (or a summer research project sponsored by the department)

Plus four credits from:

- 250 Organometallic Chemistry (2 credits)
296 Topics (2 credits)
298 Topics
391, 392 Research (1 credit)
420 Bioanalytical and Forensic Chemistry (2 credits)
430 Polymer Chemistry (2 credits)
442 Biochemistry II*
488 Topics (2-credits)
491, 492 Research (2 credits)
493, 494 Research

*required for a B.S. in Chemistry with a biochemistry concentration, plus a research project in biochemistry

Allied requirements

- MATH 113 Calculus I (or equivalent)
MATH 114 Calculus II
PHYS 111 Introduction to Classical Physics I
PHYS 112 Introduction to Classical Physics II

Strongly recommended:

- MATH an additional course numbered 200 or above

Course Sequence

All chemistry majors are advised to take General Chemistry (CHEM 111-112 or CHEM 115) and MATH 113-114 (Calculus) during the freshman year, then CHEM 201-202 and PHYS 111-112 (Introductory Physics) during the sophomore year. (Note that PHYS 109-110 is not acceptable for the chemistry major). Other sequences of math and physics are much less desirable. If necessary, MATH 113 can be started in the second semester of freshman year; then MATH 114 can be taken concurrently with PHYS 111 during first semester sophomore year.

Major in Biochemistry (B.S.)

See College of Arts and Sciences Interdisciplinary Programs

Major in Chemistry (B.A.)

The minimum requirement for a major is 38 credits as specified below; 30 credits (including seminar) comprise the core.

- 111 General Chemistry I
and
 112 General Chemistry II
or
 115 Accelerated General Chemistry

Plus:

- 201 Organic Chemistry I
 202 Organic Chemistry II
 300 Quantitative Analysis
 320 Instrumental Analysis
 481-484 Seminar (2 credits total)

Plus one of:

- 331 Chemical Thermodynamics and Reaction Dynamics
 332 Quantum Chemistry and Molecular Spectroscopy

Plus at least eight credits in courses chosen from the following list:

- 250 Organometallic Chemistry (2 credits)
 331 Chemical Thermodynamics and Reaction Dynamics
 340 Organic Spectroscopy (2 credits)
 391, 392 Research (1 credit)
 400 Advanced Inorganic Chemistry*
Note: 332 is a prerequisite for 400
 420 Bioanalytical and Forensic Chemistry (2 credits)
 430 Polymer Chemistry (2 credits)
 440 Biochemistry I
 442 Biochemistry II
 491, 492 Research (2 credits)
 493, 494 Research

Note: Only 4 credits of research may be applied to the degree.

Allied requirements

MATH 113-114 Calculus I and II*

PHYS 111-112 Introductory Physics I-II

*Students not placing into MATH 113 must take MATH 108, 109 and 114 in order to satisfy the overall calculus requirement.

Note: Math and physics requirements are as specified above plus MATH 200 and/or 201 are highly recommended. The ACS also requires familiarity with computer programming; although many chemistry courses make use of computers, the interested student is well-advised to take an additional course in quantitative methods and computer science.

Teacher Licensure

Elementary Education with a Co-major in Science and Mathematics for Elementary Education

Elementary Education with a Specialty in Science (5-8)

Co-major in Science (5-8) – Chemistry (9-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Minor in Chemistry

A minimum of 8 credits in chemistry must be successfully completed at St. Thomas to earn a minor in the field.

- 111 General Chemistry I
and
 112 General Chemistry II
or
 115 Accelerated General Chemistry

Plus:

- 201 Organic Chemistry I

Plus sufficient credits from the following to yield a total of 24:

Note: Some of these courses have prerequisites beyond the core, or require permission of the instructor.

- 202 Organic Chemistry II
 250 Organometallic Chemistry (2 credits)

College of Arts and Sciences – Departments

296	Topics (2 credits)
298	Topics
300	Quantitative Analysis
320	Instrumental Analysis
331	Chemical Thermodynamics and Reaction Dynamics
332	Quantum Chemistry and Molecular Spectroscopy
340	Organic Spectroscopy (2 credits)
420	Bioanalytical and Forensic Chemistry (2 credits)
430	Polymer Chemistry (2 credits)
440	Biochemistry I
442	Biochemistry II
491, 492	Research (2 credits)
493, 494	Research*

*A student may take four credits of research for the minor with the approval of the department chair. No special approval is needed for 491 or 492 (2 credits).

100 Chemistry in Our World (111, 115)

An introduction to chemistry and its applications to modern society and personal life. The course is intended for non-majors and satisfies a general requirement for one semester of a laboratory science course. The chemistry studied includes the structure of matter, elements and compounds, chemical bonding, reactions, energy changes and an introduction to organic chemistry. The emphasis in the course is the relevance of chemistry in everyday life, and the applications studied will include various topics such as environmental problems, energy resources, chemistry and health, and consumer chemistry. Lecture plus three laboratory hours per week.

101 Environmental Chemistry

An introduction to chemistry with particular emphasis on environmental science. Basic chemistry topics covered include the structure of matter, elements, compounds, reactions, energy and energy changes. These topics lead to studies of topical environmental problems and their proposed solutions, including the depletion of ozone in the stratosphere, the Greenhouse Effect and global warming, acid rain, smog, waste disposal, water pollution and the study of energy resources, both renewable and non-renewable. Lectures and laboratory. This course satisfies the lab science requirement in the core curriculum for non-majors.

111 General Chemistry I (100, 115)

This course and its sequence 112 provide a two-semester introduction to chemistry. Topics include atomic structure, molecular structure, chemical bonding, the periodic table, states of matter, reaction types, stoichiometry, thermochemistry, intermolecular forces, and properties of the common elements and their ions in aqueous solution. Lecture plus four laboratory hours per week.

Prerequisite: Math placement at 108 or above

112 General Chemistry II (115)

This course continues the study of chemistry begun in 111. Topics include thermodynamics, kinetics, equilibrium, acid-base chemistry, electrochemistry, and nuclear chemistry. Lecture plus four laboratory hours per week.

Prerequisite: A minimum grade of C- in 111

115 Accelerated General Chemistry (100, 111, 112)

A one semester general chemistry class that blends significant topics from CHEM 111 and 112 for very strong students interested in majoring in science or engineering. Approximately one-third of the course content is drawn from CHEM 111 with the balance coming from CHEM 112. Topics include atomic theory, stoichiometry, gas laws, phases of matter, atomic and molecular structure, bonding, kinetics, thermodynamics, equilibrium, electrochemistry, nuclear chemistry, and descriptive chemistry. Lecture plus four laboratory hours per week.

Prerequisite: Math placement at the 113 level, high school chemistry, and satisfactory performance on the chemistry placement examination.

201 Organic Chemistry I

Study of the various families of organic compounds. Emphasis is placed on structure determination, reaction mechanisms, stereochemistry and spectroscopy in addition to a survey of various reaction types. An introduction to biochemical topics is included. Lecture plus four laboratory hours per week.

Prerequisite: A minimum grade of C- in 112 or 115

202 Organic Chemistry II

Continuation of 201.

Prerequisite: A minimum grade of C- in 201

250 Organometallic Chemistry

2 credits

A study of the structure, bonding, and reactions of compounds that contain direct metal-carbon bonds. Emphasis is placed on the role these compounds play as stoichiometric and catalytic reagents in organic and inorganic synthesis. Additional topics include electronic and structural theory, reaction mechanisms, and the role of

organometallics in biochemistry and material science.

Prerequisite: 201

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Quantitative Analysis

An introduction to quantitative chemical analysis. Topics include sample treatment, the statistical handling of data, equilibria governing acid/base relationships, complexation and redox reactions and the fundamentals underlying titrimetry, spectrophotometry, luminescence and potentiometric methods of analysis. Lecture plus four laboratory hours per week. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: A minimum grade of C- in 112 or 115

320 Instrumental Analysis

Principles and techniques of operation of modern chemical instrumentation. Topics include the capabilities, limitations and data interpretation of HPLC, GC, capillary electrophoresis, voltammetry, and mass spectrometry. Fundamentals of signal processing, basic circuitry and optical components are also included. The laboratory consists of both structured exercises and a student designed project and report based on an analysis problem of interest to the student. Lecture plus four hours of lab each week.

Prerequisites: 202, 300

331 Chemical Thermodynamics and Reaction Dynamics

Physical chemical introduction to the fundamentals of kinetic-molecular theory, statistical thermodynamics, classical thermodynamics, and chemical reaction dynamics. Emphasis on the in-depth study of chemical reaction equilibria, phase equilibria, and chemical reaction kinetics in gaseous, liquid and solid systems. Laboratory work involves modern computational methods in physical chemistry, as well as physicochemical measurements related to thermodynamics and reaction dynamics. Lecture plus six laboratory hours per week. This course fulfills the second level Computer Competency requirement in the core curriculum.

Prerequisites: 202, MATH 114 and PHYS 111

332 Quantum Chemistry and Molecular Spectroscopy

Study of chemical systems from the point of view of molecular theory. Introduction to the fundamentals of quantum chemistry and atomic/molecular spectroscopy. Laboratory work involves computational methods in molecular quantum mechanics and spectroscopic measurements of atomic/molecular systems. Lecture plus six laboratory hours per week. This course fulfills the second level Computer Competency requirement in the core curriculum.

Prerequisites: 202, MATH 114 and PHYS 112

340 Organic Spectroscopy

2 credits

A more detailed study of various spectroscopic methods, especially as they are employed to determine structures of organic molecules. Coverage includes H-1, F-19, and C-13 NMR, mass spectrometry, ultraviolet and visible and infrared spectroscopies.

Prerequisite: A minimum grade of C- in 202

391 Research

1 credit

Work on a problem under the direction of the staff. Primarily literature work.

Prerequisite: Permission of the department chair

392 Research

1 credit

Work on a problem under the direction of the staff. Primarily laboratory work.

Prerequisite: 391

400 Advanced Inorganic Chemistry

A study of the preparation, structure, bonding and reactions of inorganic compounds. Selected topics include group theory, periodicity, catalysis, bonding theories; main group, coordination, solid state and organometallic chemistry. Lecture plus four laboratory hours per week.

Prerequisites: 202 and 332 or permission of the instructor

420 Bioanalytical and Forensic Chemistry

2 credits

The chemistry behind criminal investigations as well as some developments in analysis of biologically important molecules. Topics to be covered include enzyme and DNA analysis, the detection and identification of explosives and fire accelerants, methods of connecting the suspect to the scene of a crime (analysis of fingerprints, fibers, glass fragments, soil and gunshot residue), the analysis of drugs and poisons, and the detection of forgeries using ink, paint and materials analysis. The course is designed to have a lab component that uses both instrumental and "wet chemical" methods of analysis. The culminating examination is a mystery that the students will work

College of Arts and Sciences – Departments

in teams to solve. It requires some lab work as well as a written report that interprets the information for the “district attorney’s office.” Offered in January term in even-numbered years.

Prerequisite: 201

430 Polymer Chemistry 2 credits

An introduction to the science associated with polymers accomplished by discussing some of the fundamental aspects of polymer science and engineering. Three general subject areas will be addressed: 1) polymer synthesis and characterization, 2) polymer structure including melt, glassy, semicrystalline, rubbery, and solution states, and 3) selected physical properties (e.g. viscoelasticity, toughness, failure, permeability) and processing characteristics.

Prerequisite: 202

440 Biochemistry I

The chemistry of biological molecules. Emphasis on the structure, energetics, kinetics and mechanisms of biologically important molecules. Topics include: protein structure; enzyme kinetics, mechanisms and regulation; anabolic and catabolic pathways; structure, organization and regulation of nucleic acids; bioenergetics; protein synthesis; and student-chosen special topics. Laboratory integrated with lecture topics: protein isolation and characterization, enzyme kinetics, DNA isolation, cloning, and protein overexpression. Lecture plus four laboratory hours per week.

Prerequisite: A minimum grade of C- in 202

442 Biochemistry II

Continuation of Biochemistry I (440). Lecture plus four laboratory hours per week.

Prerequisite: A minimum grade of C- in 440

475, 476 Experiential Learning 2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

481, 484 Student Seminar 1 credit each

482, 483 Student Seminar

0 credit

This sequence of courses is begun first semester of the junior year and progresses for a total of four semesters. The first (481) and last (484) courses are each one credit and are graded on the usual letter grade scale. The interior two courses (482, 483) are no credit and are graded on a pass-fail basis (S/R). Throughout all four courses meetings are held with seminars given by guest speakers. UST faculty also present seminars on their own research. In 481, juniors are introduced to the chemical literature and search techniques including use of computer databases and write a short paper based on literature research. In 483, seniors meet in small groups with faculty and discuss articles from the chemical literature. In 484, seniors research a topic from the chemical literature and present it in both written and oral formats. Information about career opportunities for students holding a chemistry degree is presented throughout the seminar sequence. Required of all chemistry majors.

487, 488 Topics 2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research 2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study 2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Communication Studies (COMM)

Armada (chair), Bruess, Cook, Cragan, Friedline, Petersen, K. Sauter, Scully

The Department of Communication Studies fosters in students an understanding of the nature of human communication by examining the processes by which people create, send, receive and are affected by symbolic messages.

This is done by exploring and analyzing verbal and nonverbal communication in a number of settings including political campaigns, small groups, work and volunteer organizations, personal and family relationships and intercultural situations. Students analyze communication through the study of rhetorical theory and social science methodology, both developing their skills as communicators, and understanding ways to investigate how the communication process works.

The department also emphasizes the production of electronically mediated communication, looking at how to communicate effectively using mediated communication, as well as the ways in which mediated communica-

tion expands our communication options and influences our lives. Students have the opportunity to study the art of audio and video production, and acquaint themselves with new electronic media technologies. They also study the television, radio, and corporate industries that have developed to support and distribute those messages.

In keeping with the UST emphasis on diversity, the department seeks to integrate the issues of gender, race, and class into all communication studies.

The study of communication is at the forefront of a liberal education, preparing students to analyze carefully, to think creatively, critically, and ethically, and to develop skills that can be applied to a variety of careers.

Majors must complete a minimum of eighteen credits in communication studies at St. Thomas.

Communication Studies Honor Society

Lambda Pi Eta, the National Communication Honor Society, chartered the St. Thomas *Beta Chi* chapter in 1994. The society recognizes communication studies majors who have demonstrated a commitment to the discipline. To be eligible, students must have completed 60 semester hours, 16 of those in communication studies; have an overall 3.00 GPA, with a 3.25 GPA within the major; and be a full-time student in good standing.

Major in Communication Studies

- 100 Public Speaking
- 120 Communication Theories and Methods
- 140 Rhetorical Criticism
- 160 Electronic Media Production

Note: Two of the above four courses must be completed before taking additional courses within the major.

- 480 Capstone Course in Communication

Note: Thirty-two credits in the major must be completed prior to enrolling in 480. With 28 credits completed, one concurrent registration is allowed.

Plus two of:

Note: at least 8 of the 16 elective credits listed below must be at the 300- or 400-level

- 220 Small Group Communication
- 222 Interpersonal Communication
- 240 Persuasion
- 250 Argumentation and Advocacy
- 260 Audio Production
- 264 Electronic Media and Society
- 270 Videography: Television Production in the Field
- 320 Organizational Communication
- 322 Intercultural Communication
- 330 Investigating Communication
- 340 Rhetoric of Race, Class, and Gender
- 350 Modern American Rhetoric
- 360 Television Criticism
- 370 Advanced Video Production
- 440 Classical Rhetoric

Plus:

Eight additional credits which may be in courses from the list above, or any other departmental offering, including 215, 217, 315, 325, 365, 425, 455, 465, individual study, internships, or topics courses. (105 is not an option for majors.)

Teacher Licensure

Elementary Education with a Specialty in Communication Arts and Literature (5-8)

Co-major in Communication Arts and Literature (5-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Minor in Communication Studies

Three of:

- 100 Public Speaking
- 120 Communication Theories and Methods
- 140 Rhetorical Criticism
- 160 Electronic Media Production

Plus:

Eight additional credits in courses at the 200-level or higher, but not including 480.

College of Arts and Sciences – Departments

100 Public Speaking

Preparation, presentation, and evaluation of original speeches by each student throughout the semester; special emphasis given to selecting and researching topics, organizing evidence, analyzing audiences, sharpening style and tone, communicating ethically and listening critically.

105 Communication in the Workplace

Introduction to basic communication theories and skills as they pertain to the business setting. Text, lecture, class discussion and exercises, and individual and group presentations will better prepare students to become more effective communicators at work. The course will focus on presentational skills, dyadic communication and interviewing, and group communication. This class is not open to Communication majors or minors.

120 Communication Theories and Methods

This course will focus on the differing methods used by communication scholars to ask and answer questions about the nature of human interaction. Emphasis will be on the process of symbolic message exchange as it intersects all communication contexts. Various approaches to conceptualizing and measuring communication acts will be addressed in topic areas such as: perceptions and attributions; creating shared meaning; linguistic and non-verbal message systems; persuasive and ethical dimensions of communication; and the nature of inquiry. While lecture oriented, the class also may participate in discussions, experiential exercises, and group projects.

140 Rhetorical Criticism

This course teaches students to become more critical consumers and producers of public messages. Students will examine a mix of historical and contemporary examples of persuasive communication in order to develop and awareness of the rhetorical power of messages in everyday life. Critical tools will be covered to help the student learn how to approach a communicative act systematically, identifying crucial interactions and suggesting ways of understanding how those interactions function. The emphasis on critical consumption also enables students to become more effective creators of public messages.

160 Electronic Media Production

Students will learn the process of producing electronically mediated messages in the studio and in the field. Students produce projects designed to develop their skills in the planning and execution of a variety of media genres. Students will operate studio and field equipment, act as talent, and do final editing of individual and team-produced work. Analysis and criticism of student produced programs is integral to the course.

215 Oral Interpretation (THR 204)

Sense and sound of literature; analysis of selected works and projection of their meaning to an audience. Includes public performance and attention to Reader's Theater.

Prerequisite: 100 or sophomore standing

217 Survey of Communication Disorders

A survey of diagnosis and current treatment of communication disorders such as delayed language development, stuttering, hearing loss, *etc.* Appropriate course for future teachers, especially those in elementary education, and majors in occupational therapy, nursing and psychology.

Prerequisite: 100 or sophomore standing

220 Small Group Communication

This course covers the theory and principles of communication in task-oriented small groups, including role emergence and functions, leadership development, stages of decision-making, and development and effects of group culture. Students apply theory through participation in small group class projects.

Prerequisite: 120 or sophomore standing

222 Interpersonal Communication

Theory and practice of interpersonal communication, including how self-concept, language, nonverbal communication, and relationships effect and are affected by communication. Common problems in interpersonal communication, options for managing these problems, and ethical issues in interpersonal communication are examined. Students apply theory and concepts through class exercises, simulations and individual projects.

Prerequisite: 120 or sophomore standing

240 Persuasion

Study of the various strategies used to influence choice in modern society, including sources, content (such as evidence and argumentation) and audience factors (such as beliefs, attitudes, and values) which influence the persuasive process. Current research about attitude change is examined. Students apply theory through analysis of contemporary discourse and preparation of original projects.

Prerequisite: 140 or sophomore standing

250 Argumentation and Advocacy

This course provides an introduction to practical reasoning in public controversy. Students will apply argumentation theories and methods to the analysis of public controversy and the development of their own oral advocacy skills. Topics include: Tests of evidence, invention, reasoning, oral presentation or arguments. Activities may

include: Lecture, discussion, examinations, analysis papers, speaking assignments, small group discussion and presentation.

Prerequisite: 140 or sophomore standing

260 Audio Production

An introduction to radio production. Students will produce projects digitally that are designed to acquaint them with genres, styles and production techniques, with emphasis on the radio industry. Production planning, scripting, the use of sound effects, field production, multi-track recording, mixing and editing are covered. In addition, the students in this course will operate RadioCOMM, UST's cablecast radio station that is distributed on campus. Each student will learn how to operate live production techniques, as with radio DJs, announcers and interviewers. This course fulfills the second-level Computer Competency requirement.

Prerequisite: 160 or sophomore standing

264 Electronic Media and Society

A survey of the electronic media industry, providing a fundamental grounding in the history, regulation, programming strategies, advertising and rating systems of television, radio, and new forms of electronic media. The course will develop an increased awareness of the social, economic, and political roles that the electronic media play in our society.

Prerequisite: 160 or sophomore standing

270 Videography: Television Production in the Field

This course will examine the aesthetic and technical components associated with producing video projects outside of the television studio. Students will examine current theory and practice of field production and will engage in the conceptualization, execution and analysis of field-produced video. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 160 or permission of instructor

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

315 Media Communication Skills

The components and requirements of effective media performance are addressed. Development of critical assessment skills is emphasized via the evaluation of news, commercial and informational broadcasts in both the audio and video media. Particular attention is given to students' development of performance techniques, emphasizing the use of voice, interviewing, ad-libbing and TelePrompTer use. Application and evaluation of performance choices are achieved through the production of video and audio projects.

Prerequisite: 100 or junior standing

320 Organizational Communication

This course will examine organizational structures and the dynamics of the communication process. Major components of this class include the analysis of organizational communication including culture, socialization, roles, leadership, formal and informal communication structures, and issues of cultural diversity. Students will be involved in activities such as applying theories, examining case studies, and analyzing communication in real-life organizations.

Prerequisite: 120 or junior standing

322 Intercultural Communication

Study of the influence of cultural values on social behavior; examination of theories of intercultural communication; emphasis on effective intercultural interaction. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 120 or sophomore standing

325 Nonverbal Communication

Exploration of the types, purposes and significance of nonverbal behavior in human communication. Topics include use of voice, face, eyes, gestures, posture, physical appearance, use of space, architecture, decor, and time. Emphasis on the application of nonverbal concepts to relational, workplace, and cultural contexts.

Prerequisite: 120 or junior standing

330 Investigating Communication

This course is designed to familiarize students with various methods of research utilized in the communication field. This includes: Developing an understanding of the purpose of research, research designs, and various forms of data collection. Students examine quantitative and qualitative methods and the process of determining appropriate strategies for specific research problems. Methods introduced will include survey research and experimental research, with emphasis on the skills required to design and successfully conduct ethical research projects, how to develop and test hypotheses, and how to interpret and evaluate communication research.

Prerequisite: 120 or junior standing

College of Arts and Sciences – Departments

340 Rhetoric of Race, Class, and Gender

Study of research and theories about the correlation between gender, race, class, and rhetorical practice, including the influence of historical and contemporary gender stereotypes and roles on rhetorical practice. Topics include the influence of gender stereotypes and roles on: credibility, legitimization, authority, “voice” in U.S. culture, and verbal and nonverbal behavior. Students are encouraged to analyze and evaluate their own rhetorical style in light of issues of race, class, and gender. This course fulfills a requirement in American Cultural Studies, Justice and Peace Studies, Women’s Studies, and the Human Diversity requirement in the core curriculum.

Prerequisite: 140, junior standing, or permission of instructor

350 Modern American Rhetoric

This course focuses on the creation and use of rhetoric in public persuasion settings, including social movements and political campaigns. The diversity of rhetorical acts examined may include campaign ads, speeches, films, advertisements, music, memorials, architecture and other nonverbal strategies. Topics of study may include: The rhetoric of domination and resistance, national identity formation, and the rhetoric of public memory. This course fulfills a requirement in American Cultural Studies and the Human Diversity requirement in the core curriculum.

Prerequisite: 140, junior standing, or permission of instructor

360 Television Criticism

This course will provide students with the opportunity to understand television as a text situation in a cultural context. It will examine television from a critical perspective, review a wide variety of program genres and incorporate several theoretical orientations to the qualitative analysis of TV. Students, along with reading about and discussion of critical perspectives, watch programs such as comedies, dramas, news, advertisements, miniseries, *etc.*, and write several critical analyses of the programs.

Prerequisite: 160 or junior standing

365 Documentary in American Television

This course will explore the documentary form in American Television. We will cover the historical development of documentary through the network news departments and then investigate how the documentary form has been expanded, and often exploited, as television (both broadcast and cable) channels have proliferated. We will consider both the form and content of documentary and how that form and content operate both politically and socially within our culture. We will explore the concepts of reality, truth and authority, through a variety of readings and viewings.

Prerequisite: 160 or junior standing

370 Advanced Video Production

This course offers students familiar with basic video production a chance to further develop their skills and to acquire a greater understanding of the video communication process. Students will plan, script, produce and edit pieces of extended length that combine studio and field production techniques. This course is for majors who have sufficient interest and prior experience in video production. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: 160 and 270, or permission of instructor

425 Family Communication

Examination of communication dynamics within the family system. Patterns of interaction, message exchange, developmental stages, and satisfaction and stability will be explored in light of today’s ever-changing family structure. Focus will include traditional (nuclear) and non-traditional family types.

Prerequisite: 120 or junior standing

440 Classical Rhetoric

In a seminar format the class studies the development of rhetorical theories and practice in ancient Greece and Rome, includes works by Plato, Aristotle, Cicero, Quintillian, St. Augustine, and modern commentators on classical ideals, emphasis on sharing oral and written presentations.

Prerequisite: 140 or junior standing

455 Political Communication and Television

Political communication and TV is a survey of how political candidates have used and continue to use television to communicate in the elections from 1952 to the present. This course looks at a particular communication setting which is important to us all. Class activities may include lecture, screening of sample ads, student oral presentation on newspaper editorials in national and local newspapers, and class discussion.

Prerequisite: 140 or junior standing

465 Current Issues in Electronic Media

A survey of recent developments in the field of electronic media. Some possible subject areas include: Regulation, programming, distribution systems, reception technologies, economic considerations and social implications.

Prerequisite: 264 or permission of instructor

475, 476 **Experiential Learning** 2 credits

477, 478 **Experiential Learning**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

480 **Capstone Course in Communication**

The purpose of this course is to allow students to integrate what they have learned throughout their major and to provide them an appreciation of the work of other students in communication. The course will review foundational methods and perspectives of the field, and will focus on the development of a senior project by each student which will be shared with and discussed by the class. Other activities may include group discussions, in-class interviews, and assessment measures.

Prerequisites: Open to majors only who have taken the four 100-level core courses and at least three other communication courses.

483, 484 **Seminar** 2 credits

485, 486 **Seminar**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 **Topics** 2 credits

489, 490 **Topics**

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 **Research** 2 credits

493, 494 **Research**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 **Individual Study** 2 credits

497, 498 **Individual Study**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Economics (ECON)

Langan (chair), Alexander, Blumenthal, Combs, Fairchild, Gray, Hartmann, Kim, Marcott, Papagapitos, Powers, Riley, Saavedra, Spry, Vincent, Walsh, Wilson

The economics program develops a logical, consistent and rigorous method of thinking about the world and its problems. The economic way of thinking can be applied to a wide variety of topics including inflation, unemployment, international trade, poverty, income inequality, currency depreciation, monopoly power, bank failures, budget deficits and health-care costs.

The Department of Economics offers two majors and a minor in economics. All three programs are designed to provide excellent career-entry skills and those skills providing preparation for possible career shifts.

Whether a major or minor in economics is pursued, students are strongly encouraged to complement their studies with work in other fields. In recent years, for example, graduates have done complementary coursework in such fields as mathematics, foreign languages, business, environmental studies, computer sciences, international studies and English.

The choice of major and of a complementary field depends upon the path the student wishes to pursue. For example, students pursuing a liberal arts major, wishing to double major, or who are interested in continuing studies in professions other than economics would likely find the Bachelor of Arts (B.A.) best suited to their needs. Students wishing to engage the discipline at a much broader and deeper level would find the Bachelor of Science (B.S.) a better alternative.

Students graduating with a major in economics will be able to integrate the tools and concepts of the discipline in the analysis of an economic issue. The background provided by this major should prepare the student for a sound preparation for career advancement.

The core for each degree consists of five economics courses and two allied requirements. The B.A. requires three additional elective of the student's choosing. The B.S. has three possible paths. Each path requires three specified electives, two additional electives of the student's choosing, and additional allied requirements.

Students wishing to pursue graduate study in economics should consider the path in Mathematical Economics. Students interested in international affairs should consider the path in International Economics. Students seeking an economics degree supplemented with additional technical skills and an introduction to the business field or who are looking towards an eventual MBA degree should consider the Business Economics path.

Majors must complete a minimum of twenty credits in economics at St. Thomas. Minors must complete a minimum of twelve credits in economics at St. Thomas.

Economics Honor Society

Omicron Delta Epsilon, the international fraternity in economics, was organized at St. Thomas in 1967. Candidates must have completed at least sixteen credits in economics and have an average of 3.00 or better in both economics and their overall work.

College of Arts and Sciences – Departments

Economics Honors Program

Candidates for honors in economics must complete a research paper and an additional four credits in economics chosen in consultation with the department chair. The research papers of honors candidates are to be read by a committee of three faculty, appointed by the department chair. Each will determine if the paper is suitable for the honors requirement, with a majority rule determining honors designation. Candidates must achieve a grade-point average of 3.50 or higher in the major and 3.25 or higher overall.

Major in Economics (B.A.)

- 251 Principles of Macroeconomics
- 252 Principles of Microeconomics
- 315 Empirical Methods in Economics
- 351 Macroeconomic Theory
- 352 Microeconomic Theory

Plus:

Twelve credits in courses numbered 300 and above.

Note: Students are strongly encouraged to take 315, 351 and 352 by the end of the junior year.

Allied requirements

One of:

- MATH 109 Calculus with Review II
- MATH 111 Calculus for Business and Social Science
- MATH 113 Calculus I

Plus either:

- QMCS 220 Statistics I or MATH 303 Statistics for the Applied Sciences
- or*
- MATH 313 Probability and MATH 314 Mathematical Statistics

Major in Economics (B.S.)

- 251 Principles of Macroeconomics
- 252 Principles of Microeconomics
- 315 Empirical Methods in Economics
- 351 Macroeconomic Theory
- 352 Microeconomic Theory

Note: Students are strongly encouraged to take 315, 351 and 352 by the end of the junior year.

Plus:

A set of courses in one of the three paths below.

Allied requirements

One of:

- MATH 109 Calculus with Review II
- MATH 111 Calculus for Business and Social Science
- MATH 113 Calculus I

Plus either:

- QMCS 220 Statistics I or MATH 303 Statistics for the Applied Sciences
- or*
- MATH 313 Probability and MATH 314 Mathematical Statistics

Business Economics

A path which emphasizes additional tools for analyzing business situations as well as incorporating a basic foundation in the field of business.

- 311 Forecasting
- 332 Industrial Organization
- 401 Managerial Decision Making

Plus:

Eight credits in elective economics courses numbered 300 or above

Plus:

- ACCT 205 Introduction to Accounting
- BUS 201 Ethics and Practice: Foundations of Business

Plus one of:

- FINC 300 Finance for Non-Business Majors
- FINC 321 Financial Management

International Economics

A path which prepares students for careers in which an understanding of the complexities of cultural differences and international economic relationships is crucial.

- 345 Economics of Development and Growth
- 346 Country and Area Studies in Economics
- 348 International Economics

Plus:

Eight credits in elective economics courses numbered 300 or above (ECON 346 can only be included one time in fulfillment of the path requirement, and not as one of the additional electives)

Plus:

A minor in a foreign language or significant study abroad experience approved by the department chair

Mathematical Economics

A path which prepares students for the core competencies necessary for graduate study in economics.

- 355 Game Theory
- 418 Mathematical Economics

Plus one of:

- 301 History of Economic Thought
- 337 Economics of the Public Sector
- 339 Labor Economics
- 348 International Economics

Plus:

Eight credits in elective economics courses numbered 300 or above

Plus:

- MATH 114 Calculus II
- MATH 200 Multi-Variable Calculus
- MATH 210 Linear Algebra and Differential Equations

Note: MATH 333 Applied Statistical Methods may be substituted for ECON 315

Teacher Education

Elementary Education with a Specialty in Social Studies (5-8)

Co-major in Social Studies (5-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Minor in Economics

- 251 Principles of Macroeconomics
- 252 Principles of Microeconomics

Plus one of:

- 351 Macroeconomic Theory
- 352 Microeconomic Theory

Plus:

Twelve credits in elective economics courses numbered 300 and above.

101 The American Economy (251)

The organization and functioning of the American economy; the course is designed to provide general education in economics for the average citizen. Each semester, topics of current interest will be analyzed using the tools and viewpoint of economic theory and policies. Designed for non-economics and non-business students.

211 Current Economic Issues

Poverty, health care, tax reform, international trade, crime, income inequality, inflation, and business mergers are some of the contemporary topics that raise interesting questions for public policy and economic analysis. This course will focus on a series of these macroeconomic and microeconomic topics. The goal is to develop economic concepts and analytical tools within a context of direct application to economic issues. Consideration of equity or fairness will be included in discussions of public policy. Student preferences will be considered in selecting many of the issues. Not open to students who have completed 251 or 252. This course fulfills the Social Analysis requirement in the core curriculum.

251 Principles of Macroeconomics (101)

An introduction to macroeconomics: national income analysis, unemployment, price stability, and growth; monetary and fiscal policies; international trade and finance; application of economic theory to current problems. Students who enroll in this course are expected to be able to use high-school algebra. This course fulfills the Social Analysis requirement in the core curriculum.

College of Arts and Sciences – Departments

252 Principles of Microeconomics

An introduction to microeconomics: theory of household (consumer) behavior, theory of the firm, market structures, market failures, economic efficiency, factor markets, and income distribution. Students who enroll in this course are expected to be able to use high-school algebra. This course fulfills the Social Analysis requirement in the core curriculum.

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

301 History of Economic Thought

A survey of the content and method of economics and an analysis of the theories of the great economists from the ancient Greeks to the present; mercantilism, physiocracy, the classical school and its critics, particularly Marx; the marginalist school; Alfred Marshall and Keynes, recent developments in economic thought.

Prerequisites: 251 and 252

311 Forecasting

An introduction to techniques used in forecasting with emphasis on analyzing economic and business data. The emphasis is on time-series data, although cross-sectional analysis is also covered. Techniques presented include variants of moving averages, variants of exponential smoothing, regression and ARIMA processes. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: 251, 252 and QMCS 220

315 Empirical Methods in Economics

An introduction to the application of statistical models and methods to economic problems; simple and multiple linear regression models; generalized least-squares; model building and related topics. Emphasis is on use of econometric software to analyze data and to test hypotheses. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: 251 and 252, QMCS 220 or MATH 303

321 Law and Economics

The relationship between legal and economic aspects of selected issues: property rights, liability laws, product-safety legislation, discrimination, crime control, and related topics.

Prerequisites: 251, 252 or permission of instructor

326 Industry Studies

This course provides an analysis of a particular industry or sector of the U.S. economy. Among the topics included in the analysis will be: identification and description of the industry in question, past and present performance of the industry, the importance of the industry within the national and global economy, the level of competition present in the industry, and the role of government in this industry. Among the anticipated course offerings are Agricultural Economics, Economics of the Arts, Economics of Sports, Economics of Health Care, and Transportation Economics.

Prerequisites: 251 and 252

332 Industrial Organization

Relationship between market structure, behavior and performance of business enterprises; government intervention and regulation; antitrust and other public-policy issues.

Prerequisites: 251 and 252

333 Regional and Urban Economics

Principles underlying the location of economic activity; land-use patterns; transfer cost; location and structure of urban areas; growth of cities and regions; urban and regional problems and policies.

Prerequisite: 252

335 Money, Financial Markets, and the Economy

The nature, evolution, and functions of money; the role of depository financial institutions; structure of financial markets; principles of central banking; monetary theory and monetary policy; introduction to international banking and finance.

Prerequisites: 251 and 252

337 Economics of the Public Sector

This course examines the role of government in a modern economy. It develops a set of concepts that will allow students to evaluate policy alternatives. The following are among the particular topics likely to be addressed: externalities and environmental protection, education, the redistribution of income, health care, social insurance, taxation and tax reform, cost-benefit analysis, fiscal federalism, and state and local government finance. In each case, the focus is on whether intervention by government is appropriate, what the most effective form of any such intervention is, and how alternative policy interventions affect the private decisions made by citizens and business firms.

Prerequisite: 252

339 Labor Economics

Labor supply and demand; determinants of the wage structure; education and training decisions; the role of labor unions; mobility and migration, discrimination; public policies in labor markets.

Prerequisite: 252

345 Economics of Development and Growth

Nature and measures of economic growth and development; theories of growth; developed and less-developed nations; economic planning; selection and financing of projects for economic growth and human development; environment, resources, and limits to growth. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisites: 251, 252

346 Country and Area Studies in Economics

An analysis of the economic system(s) of a particular country or region of the world. Among the topics included in the analysis will be: functioning of key sectors of the system; the role of government in the economy; the resource base; the income distribution; trade and financial relations with other countries; contemporary economic issues and policies; past and present economic performance. Course offerings are anticipated for Japan, Russia, European Union, Latin America and Australia. Students may take this course more than once provided the specific country/region is not duplicated. Some offerings of this course fulfill the Human Diversity requirement in the core curriculum.

Prerequisites: 251 and 252

348 International Economics

Analysis of trade between nations and regions of the world; trade and trade policy; economic integration; foreign-exchange markets; global financial system and world payments; cross-border movement of resources; economic interdependency of nations and regions; the economic system in a global framework.

Prerequisites: 251 and 252

349 Comparative Economic Systems

Analysis of the tools used to evaluate alternative economic systems; study of the structure and performance of *laissez faire*, centralized planning, democratic socialism and market socialism; historical evolution of economic systems; consideration of efficiency, growth, and social welfare; case studies: United States., CIS, China, the new market economies of Central Europe, others.

Prerequisites: 251 and 252

351 Macroeconomic Theory

Theories of money, interest, income and expenditure, employment, and inflation; monetary and fiscal policies; introduction to the theory of growth.

Prerequisites: 251 and 252

352 Microeconomic Theory

Analysis of consumer behavior and demand theory; theory of production and costs; analysis of the firm and industry under various market structures; factor pricing; general equilibrium. Selected additional topics such as market failure, economics of information, welfare economics, income distribution.

Prerequisites: 251, 252 and MATH 109 or 111 or 113 or equivalent.

355 Game Theory

Game theory seeks to explain how rational people make decisions when outcomes are mutually interdependent. This course introduces the methods of game theory from a historical perspective with primary emphasis on applications to economics. Applications to the other social sciences, business and biology are also considered. Topics covered include: normal and extensive forms of games, strict and weak dominance, sub-game perfections, pure and mixed strategies, Nash equilibrium, bargaining, oligopoly, New Keynesian and Classical Economics, trade policy, environmental economics and conflict resolution.

Prerequisites: 251 and 252, plus completion of the core curriculum mathematics requirement.

360 Experimental Economics

Experimental economics refers to the practice of testing economic hypotheses by conducting controlled experiments rather than relying on more traditional econometric testing. This course provides a survey of experiments conducted by economists in a variety of areas. Discussion will focus on the basics of the theory being tested, the methodology employed, and the results for each experiment. In addition, attempts will be made to replicate some results by conducting these same experiments in the classroom. Topics may include experiments conducted in the theory of competitive markets, oligopoly markets, auctions, decision-making under risk and uncertainty, public goods and search theory.

Prerequisites: 251, 252, and one additional ECON course numbered 300 or higher

370 Environmental and Natural Resource Economics

This course employs economic principles to analyze the problems of environmental pollution and natural-resource depletion. Economic systems, such as the private-market mechanism, are evaluated with respect to their

College of Arts and Sciences – Departments

effectiveness in the management of natural resources and the environment. Domestic and international environmental policies are examined and critiqued.

Prerequisite: 252

401 Managerial Decision Making

Microeconomic theory applied to business decision making. Emphasis on quantitative techniques applied to business decision making under uncertainty, demand and cost estimation, linear production models, pricing decisions, capital budgeting, inventory problems, and group decision making. Quantitative tools include linear regression, statistical decision analysis and linear programming.

Prerequisites: 352, and QMCS 220 or MATH 303 or permission of the instructor

418 Mathematical Economics

Introduction to a mathematical treatment of models of economic behavior; economic content includes consumer theory, theory of the firm and selected topics in macroeconomics.

Prerequisites: 352, and MATH 200 or MATH 114 with permission of instructor

470 Research in Economics

The Research in Economics course deals with data collection and statistical analysis of economic hypotheses. It culminates in writing a research paper on a topic of the student's choosing.

Prerequisites: Senior standing and 315, or permission of the instructor

475, 476 Experiential Learning 2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the "Curricula" section of this catalog.

483, 484 Seminar 2 credits

485, 486 Seminar

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics 2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research 2 credits

493, 494 Research

See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 Individual Study 2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the "Curricula" section of this catalog.

English (ENGL)

Mikolajczak (chair), An, Bellamy, Bouwman, Callaway, Challakere, Chowdhury, Choy, Craft-Fairchild, Erdrich, Frisicaro, Garritano, Jordan, Larson, Lawrence, MacKenzie, L. Miller, R. Miller, Muse, O'Reilly, Otto, Piorkowski, Powell, Redshaw, Reichardt, Ringnalda, Scheiber, Scheurer, Warren

The aims of the department are to:

- help students develop maturity in thinking, reading, and writing;
- extend to all interested students, regardless of their major, the opportunity for the self-enrichment which a study of language and literature affords;
- provide students with a solid foundation for graduate study in English and other professional fields such as law and medicine, the teaching of English in secondary and middle schools, and all careers that emphasize analysis and communication.

To attain these goals, the programs outlined below focus on different methodologies and approaches to the study of language, literature, and writing while allowing students to pursue areas of particular interest.

The Department of English offers three emphases.

1. The general major that allows students to take a variety of literature courses and to incorporate writing and cultural studies into their programs.
2. The writing emphasis that combines a foundation of literary study with a sequence of writing courses focused on poetry, fiction, and literary nonfiction, or on a range of nonfiction prose forms, including analytical, persuasive, and academic writing.
3. The Minnesota teacher licensure program in Communication Arts and Literature that prepares students for teaching elementary, middle, and secondary school. This program requires courses in linguistics, literature, writing, and writing pedagogy. It requires, therefore, early and careful planning. Students completing this program may complete a major in English.

Students graduating with a major in English will be able to write thoughtfully about literature and life, in forms that range from engaged responses, to close readings of primary texts, to critical papers using secondary resources. They will understand and practice writing as a process that involves substantial revision and be able to reflect thoughtfully upon the writing process that works best for them. They will be able to read sophisticated literary works with imagination and intelligence and will be able to respond critically to their empathic, ethical, and aesthetic dimensions.

The Major in English and the Major in English with Writing Emphasis consist of 44-credits each. ENGL 111 and 112 students fulfill either major by taking nine additional upper-level courses, while ENGL 190 students fulfill either major by taking ten additional upper-level courses.

The department offers courses for non-majors to fulfill the Literature and Writing component of the core curriculum and the Human Diversity requirement.

English Honor Society

Sigma Tau Delta, the national English honor society, formed a chapter at St. Thomas in 1988. The honor society brings together students and faculty with a love of literature, language and writing; it sponsors a variety of scholarships, holds regional and national conventions, and provides a forum for both creative and critical writing. Students who have a grade point average of at least 3.0 in English courses, rank at least in the highest 35 percent of their class in general scholarship, and who have completed at least three semesters of college are eligible to apply for membership.

Major in English

111 Critical Reading and Writing I: Fiction and Nonfiction Prose

112 Critical Reading and Writing II: Drama and Poetry

Note: Qualified students may substitute 190 Critical Reading and Writing: Major Genres and an additional upper-level literature course for 111 and 112

Besides the above core curriculum courses, students must also select courses that fulfill the following *course-level* and *area distribution* requirements:

Course-Level Requirements

At least 12 credits at the 200-level

At least 16 credits at the 300-level

Note: 4 of these credits must be from 380 Issues in English Studies

At least 4 credits at the 400-level

Note: 481 Seminar in English is strongly recommended for all majors, especially those preparing for graduate or professional school

Plus:

4 additional credits beyond the 100-level

Distribution Requirements

Four (4) credits from each of the following areas:

Early Literature

211, 214, 220, 221, 360, 361, 362, 364, 370, 371, and section 11 of 325, 390, 395

American Literature

214, 215, 370, 371, 372, 373, and section 21 of 217, 324, 325, 337, 341, 390, 395

British Literature

211, 212, 360, 361, 362, 364, 365, 366, 367, and section 31 of 324, 325, 341, 390, 395

Diversity Literature

217, 218, 337, 341, and section 61 of 297, 325, 390, 395

Writing

251, 252, 253, 300, 321, 322, 326, 401, 402, 403

Issues in English Studies

380

ENGL 111 and 112 students should take a total of thirty-six (36) credits in English beyond the 100-level

ENGL 190 students should take a total of forty (40) credits in English beyond the 100-level

Major in English with Writing Emphasis

111 Critical Reading and Writing I: Fiction and Nonfiction Prose

112 Critical Reading and Writing II: Drama and Poetry

Note: Qualified students may substitute 190 Critical Reading and Writing: Major Genres and an additional upper-level literature course for 111 and 112

Besides the above core curriculum courses, students must also select courses that fulfill the following *course-level* and *area distribution* requirements:

Course-Level Requirements

At least 12 credits at the 200-level

College of Arts and Sciences – Departments

At least 16 credits at the 300-level

Note: 4 of these credits must be from 380 Issues in English Studies

At least 4 credits at the 400-level

Plus 4 additional credits beyond the 100-level

Distribution Requirements

Sixteen (16) credits from the following writing courses:

251, 252, 253, 300, 321, 322, 326, 401, 402, 403, 480

Note: The writing courses should include one of the following sequences:

Academic, persuasive, and nonfiction writing sequence:

first – 251 and/or 252

then – 300 and/or 326

then – 402 and/or 403

Creative writing sequence

first – 253

then – 321 and/or 322

then – 401 and/or 402

Plus:

Twelve (12) credits in literature to include:

Four (4) credits in Early Literature

211, 214, 220, 221, 360, 361, 362, 364, 370, 371, and section 11 of 325, 390, 395

Four (4) credits in Diversity Literature

217, 218, 337, 341, and section 61 of 297, 325, 390, 395

Four (4) additional English credits in literature beyond the 100-level

Four (4) credits in ENGL 380 Issues in English Studies

Four (4) credits in another English course beyond the 100-level

ENGL 111 and 112 students should take a total of thirty-six (36) credits in English beyond the 100-level

ENGL 190 students should take a total of forty (40) credits in English beyond the 100-level

Teacher Education

Elementary Education with a Specialty in Communication Arts and Literature (5-8)

Co-major in Communication Arts and Literature (5-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Literary Studies

See College of Arts and Sciences Interdisciplinary Programs

Minor in English

The minor in English consists of twenty-four (24) credits:

111 Critical Reading and Writing I: Fiction and Nonfiction Prose

112 Critical Reading and Writing II: Drama and Poetry

Note: Qualified students may substitute 190 Critical Reading and Writing: Major Genres and an additional upper-level literature course for 111 and 112

Plus:

Eight credits at the 200-level

Eight credits at the 300-level

110 Intensive Writing

The course provides students with intensive practice in writing, enabling them to adapt to the demands of differing rhetorical contexts. Emphasis on understanding writing processes and learning to respond thoughtfully to writing at various stages. Critical reading will be practiced as an integral part of the writing process.

Prerequisite: participation in the Academic Development Program

Critical Reading and Writing

These courses develop students' awareness of language by helping them to recognize the relationship between their own experience and the interpretive possibilities of literature. Attention will be paid to the integration of the individual's composing process and the process of reading and understanding texts. These courses foster attentive reading, critical thinking and effective writing.

111 Critical Reading and Writing I: Fiction and Nonfiction Prose

Emphasis on reading and writing to explore ideas and to inform readers, with special attention to the writing process and to basic rhetorical concerns such as audience and purpose. Writing assignments will be linked to reading consisting primarily of prose fiction and nonfiction. This course fulfills the Literature and Writing requirement in the core curriculum.

112 Critical Reading and Writing II: Drama and Poetry

Emphasis on interpreting literary texts and writing about them persuasively, with special attention to close reading and to the use of textual evidence. Writing assignments will be linked to readings consisting primarily of drama and poetry. This course fulfills the Literature and Writing requirement in the core curriculum.

Prerequisite: 111 or permission of department chair

190 Critical Reading and Writing: Major Genres

This course for specially qualified students combines the study of composition with the study of literary readings drawn from fiction, drama, poetry and nonfiction prose. The course emphasizes responsive engagement with literature and provides instruction in writing ranging from the exploratory to the persuasive and analytical modes. This course, and an additional upper-level literature course, fulfills the Literature and Writing requirement in the core curriculum. Offered only in fall semester.

205 Literature in Perspective

This course, whose subject will change from year to year, will reflect particular interests in a given theme, genre, author, or period. Subjects will be announced in the annual Class Schedule and will not duplicate existing courses. The course is designed for non-majors, and credit may be earned more than once under this number for different emphases. Possible courses are: Madness in Literature, American Short Stories, Virginia Woolf, Holocaust Literature. Open to non-English majors only.

Prerequisites: 111 and 112 or 190

211 British Authors I

This course will focus on extensive reading of a broad selection of British authors from the medieval period through the eighteenth century. Students will engage in close analysis of literary texts by such authors as Chaucer, Shakespeare, Donne, Milton, and Behn, with some attention to historical and cultural contexts.

Prerequisites: 111 and 112 or 190

212 British Authors II

This course will focus on extensive reading of a broad selection of British authors from Romanticism to the present. Students will engage in close analysis of literary texts by such authors as Blake, Wordsworth, Tennyson, Conrad, and Woolf, with some attention to historical and cultural contexts.

Prerequisites: 111 and 112 or 190

214 American Authors I

The study of significant American authors from the beginnings of American literature to the turn of the twentieth century. This survey course will consider the diverse literary, cultural, and historical contexts from which the American literary tradition has arisen. Possible authors studied include Hawthorne, Douglass, Jacobs, Fuller, Dickinson, Clemens, Jewett, Cooper, Wheatley, Whitman, and Native American voices.

Prerequisites: 111 and 112 or 190

215 American Authors II

The study of significant American authors from the turn of the century to the present. This survey course will consider the diverse literary, cultural, and historical contexts from which the American literary tradition has been formed. Possible authors studied include Hemingway, Faulkner, Hurston, Wright, Morrison, Cather, Wharton, Rich, and O'Neill.

Prerequisites: 111 and 112 or 190

217 Multicultural Literature

This course will focus on extensive reading of a broad selection of authors drawn from the literature of one of the following: (a) American communities of color; (b) postcolonial peoples; (c) diasporic peoples. Students will engage in close analysis of literary texts from at least one such literary tradition, with some attention to historical and cultural contexts. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisites: 111 and 112 or 190

218 Literature by Women: Critical History

This course will focus on the history of literature by women. It will concentrate on the traditions in Britain and America, but also will include some attention to non-Western women writers. It will address issues of canon formation as well as the role of gender in the composition and reading of literary texts. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisites: 111 and 112 or 190

220 The Classical Tradition

This course will focus on representative texts of Western literature in translation, from the origins of Greek literature through Early Modern Europe. Authors may include Homer, Sappho, Aeschylus, Sophocles, Virgil, Ovid, Dante, and Marie de France.

Prerequisites: 111 and 112 or 190

College of Arts and Sciences – Departments

221 The Modern Tradition

This course will focus on representative texts of Western literature in translation from the seventeenth century through the present, including some attention to the interactions of the European traditions with modern African, Latin American or Asian literatures. Authors may include Racine, Goethe, Flaubert, Dostoevsky, Sand, and Achebe.

Prerequisites: 111 and 112 or 190

222 The Catholic Literary Tradition: Medieval to Modern (CATH 222)

This course surveys literary works with theological or spiritual themes that have contributed to the vitality of Catholic culture. The purpose of the course is to help students realize that Catholic culture has fostered a variety of literary expressions and has produced works that speak compellingly of human experience and sacramental life.

Prerequisites: 111 and 112 or 190

251 Writing in the Academy

This course focuses on principles of effective academic writing. Attention will be paid to strategies for development, patterns of organization, and rhetorical concerns such as voice, audience, purpose and style. Students will consider conventions of academic discourse, both as they are shared and as they vary across disciplines.

Prerequisites: 111 and 112 or 190

252 Writing Nonfiction Prose

This course will aim to develop fluency, voice and style in a range of rhetorical situations within the genre of non-fiction prose, including memoir, the informal essay, experimental nonfiction, review, and argument. Intended to prepare students for advanced courses in literary nonfiction and analytical and persuasive writing.

Prerequisites: 111 and 112 or 190

253 Writing Poetry and Fiction

This course introduces students to the skills necessary for writing literary fiction and poetry. It includes close readings of literary texts that model the basic techniques of imaginative writing, weekly writing exercises that encourage exploration and development of craft, and peer critique sessions to develop students' critical skills. This course will include instruction in imagery, figurative language, rhythm and sound patterns, tone, point of view, literary structures, character development, and style.

Prerequisites: 111 and 112 or 190

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

Prerequisites: 111 and 112 or 190

300 Theory and Practice of Writing

Working from a base of contemporary rhetorical theory, advanced writing students will write essays in a variety of forms. They will be encouraged to develop a vocabulary for talking about writing, as well as the ability to critique their own and others' work. Directed reading in contemporary writing pedagogy for the elementary and secondary composition teacher. Required for secondary licensure in communication arts and literature.

Prerequisites: 111 and 112 or 190; advanced writing skills

305 Linguistics: English Language

The study of the historical, structural, and semantic features of the English language; systems of English grammar.

Prerequisites: 111 and 112 or 190

321 Writing Poetry

This intermediate course explores traditional and innovative patterns of poetry writing. Emphasis on experimentation with a variety of techniques and development of individual voice. This course will include critique sessions, readings to broaden possibilities of form and subject, and individual instruction. Open to students with some previous experience in writing poetry.

Prerequisite: 253 or permission of instructor.

322 Writing Fiction

This intermediate course explores traditional and innovative patterns of fiction writing. Emphasis on experimentation with a variety of techniques and development of individual voice. This course will include critique sessions, readings to broaden possibilities of form and subject, and individual instruction.

Prerequisite: 253 or permission of instructor.

324 Genre Studies

This course will examine genre as an ordering principle in the study of literature. The particular genres to be studied will vary from year to year, namely, prose fiction, nonfiction prose, drama, and poetry. Credit may be earned more than once under this number for different emphases.

Prerequisites: 111 and 112 or 190

325 Special Studies in Genre, Region, or Theme

This course will offer an intensive focus on a body of literature defined by its association with a special genre, locale, or theme. Such specialized topics as the epic poem, contemporary autobiography, Minnesota literature, or Genesis in literature might be studied. Students will also consider relevant critical approaches and issues. Credit may be earned more than once under this number for different emphases.

Prerequisites: 111 and 112 or 190

326 Topics in Writing Literary Nonfiction

This intermediate course explores traditional and innovative topics and forms of writing literary nonfiction. Emphasis on experimentation with a variety of techniques and development of literary voices. The focus of writing for each section offered will vary. Some examples of possible topics include "Environmental Writing," "Memoir," and "Writing Gender/Race." This course will include peer review, readings to broaden possibilities of form and subject, and individual instruction.

Prerequisites: 251, 252, or permission of the instructor

334 Literature from a Christian Perspective (CATH 334)

This course examines methods of reading and literary texts from a Christian perspective. The general question of the course is, "how does a reader engage works of imaginative literature from an intellectually serious Christian perspective?" The course studies works of criticism representing a variety of Christian viewpoints and applies them to literary texts that are explicitly Christian in theme as well as those which invite, or are enriched by, a Christian perspective.

Prerequisites: 111 and 112 or 190

337 The Literature of Human Diversity

Offered with specific subtitles, this course provides an intensive focus on a selected body of literature concerning one of the following aspects of human diversity: race, ethnicity, class, gender, sexual orientation. Students will also consider relevant critical approaches and concepts. Credit may be earned more than once under this number for different emphases. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisites: 111 and 112 or 190

341 Literature by Women: Critical Questions

This course will offer an in-depth study of selected women's writing, organized by period, genre, or theme. In any particular semester, the course might focus, for example, on 18th century women writers, contemporary women poets or marriage in women's literature. The texts will be approached with regard to questions of canon formation, women's history, and cultural constructions of gender. Credit may be earned more than once under this number for different emphases. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisites: 111 and 112 or 190

360 Chaucer and the Medieval Period

This course offers an intensive focus on the literature and culture of the medieval period. Such authors as the Pearl poet, medieval dramatists, and Malory will provide a context for reading Chaucer's *Canterbury Tales*. Critical approaches and issues will also be studied.

Prerequisites: 111 and 112 or 190

361 Shakespeare and the Early Modern Period

This course offers an intensive focus on the literature and culture of the English early modern period. Such authors as Sidney, Spenser, Elizabeth I and Cary will provide a context for reading Shakespeare's works. Critical approaches and issues will also be studied.

Prerequisites: 111 and 112 or 190

362 Milton and Seventeenth-Century British Literature

This course offers an intensive focus on the literature and culture of the British seventeenth century. Such authors as Donne, Lanyer, Wroth and Herbert will provide a context for reading Milton's *Paradise Lost*. Critical approaches and issues will also be studied.

Prerequisites: 111 and 112 or 190

364 Eighteenth-Century British Literature: The Age of Satire and the Novel

This course offers an intensive focus on the literature and culture of eighteenth-century Britain. Such authors as Pope, Swift, Burney, and Johnson will be studied, along with critical approaches and issues relevant to the period.

Prerequisites: 111 and 112 or 190

365 The Romantic Age in Britain

This course offers an intensive focus on the literature and culture of the Romantic Age in Britain. Such authors as Austen, Blake, Wollstonecraft, Byron, and the Shelleys will be studied, along with critical approaches and issues relevant to the period.

Prerequisites: 111 and 112 or 190

College of Arts and Sciences – Departments

366 The Victorian Age in Britain

This course offers an intensive focus on the literature and culture of the Victorian Age in Britain. Such authors as Tennyson, the Brownings, the pre-Raphaelites, Dickens, and Eliot will be studied. Special attention will be paid to the historical context, as well as to relevant critical approaches and issues.

Prerequisites: 111 and 112 or 190

367 Twentieth-Century British Literature

This course offers an intensive focus on select aspects of the literature and culture of twentieth-century Britain. Such authors as Woolf, Joyce, Eliot, Lessing, and Walcott will be studied, along with critical approaches and issues relevant to the period.

Prerequisites: 111 and 112 or 190

370 Colonial and Early-American Literature

This course offers an intensive focus on selected aspects of American literature from its beginnings to approximately 1820. Attention will be given to the diverse literary, cultural, and historical contexts of the literature being studied, as well as to relevant critical approaches and issues. Possible authors studied include Bradstreet, Franklin, Wheatley, Irving, Native American voices.

Prerequisites: 111 and 112 or 190

371 Nineteenth-Century American Literature

This course offers an intensive focus on selected aspects of American literature from the early Romantic movement (approximately 1820) to the turn of the century. Attention will be given to the diverse literary, cultural, and historical contexts that inform the literature being studied, as well as to relevant critical approaches and issues. Possible authors studied include Emerson, Fuller, Douglass, Clemens, Dickinson.

Prerequisites: 111 and 112 or 190

372 Modern American Literature

This course offers an intensive focus on selected aspects of American literature of the first half of the twentieth century, from approximately 1900 to 1945. Attention will be given to the diverse literary, cultural, and historical contexts that inform the literature being studied, as well as to relevant critical approaches and issues. Possible authors studied include Hemingway, Faulkner, Hurston, Eliot, Wharton, O'Neill.

Prerequisites: 111 and 112 or 190

373 Contemporary American Literature

This course offers an intensive focus on selected aspects of American literature from approximately 1945 to the present. Attention will be given to the diverse literary, cultural, and historical contexts that inform the literature being studied, as well as to relevant critical approaches and issues. Possible authors studied include Erdrich, Morrison, Bellow, Ginsberg, Tennessee Williams, Adrienne Rich.

Prerequisites: 111 and 112 or 190

380 Issues in English Studies

This course focuses on ideas and practices central to advanced work in the field of language and literature. In addition to refining students' facility with critical concepts and scholarly methodology, this course will explore a number of key questions for current work in the discipline: How do we define such concepts as literacy, literature, and interpretation? How do we understand the relationship between reader, writer, and text? How do such factors as gender, culture, and history affect our understanding of literature and of ourselves as writers and readers? This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: 111 and 112 or 190; at least two courses in ENGL above the 100-level

390 Major Literary Figures

This course will study a significant body of work by a major writer or pair of writers. Typical offerings: Jane Austen, Charles Dickens, Hawthorne and Melville, T.S. Eliot. Credit may be earned more than once under this number for different emphases.

Prerequisites: 111 and 112 or 190

395 Issues in Literature and Culture

This course offers an intensive focus on a selected body of literature in relation to some significant "extraliterary" context, *e.g.*, history, popular culture, other disciplines, other arts. The course will emphasize critical approaches and issues appropriate to this focus. The content of this course will vary from semester to semester. Some sections of this course may fulfill the Human Diversity requirement in the core curriculum.

Prerequisites: 111 and 112 or 190

400-level courses have a prerequisite of 5 courses beyond the 100-level, plus additional prerequisites as noted.

401 Advanced Poetry or Fiction Writing

This advanced course focuses on the student's development of a polished body of work in poetry and/or fiction. Students will review, revise and select writing they have done previously, as well as produce new work. Readings will include theoretical and creative texts.

Prerequisite: 321 or 322, or permission of instructor based on examination of a portfolio

402 Writing Literary Nonfiction

This advanced course will focus on the theory and practice of literary nonfiction, that is, the writing of prose drawn from personal experience, reflection, observation and analysis. Essays by such writers as E.B. White, Annie Dillard and Lewis Thomas will be considered as examples of the genre. For self-motivated writers who wish to develop voice, fluency and precision.

Prerequisite: 252 or 253 or 300 or consent of the instructor based on examination of a portfolio

403 Analytical and Persuasive Writing

Intended for the experienced writer, this course will emphasize the theory and practice of writing in analytical, persuasive and research-based rhetorical modes as preparation for advanced or professional writing in a variety of disciplines.

Prerequisite: 251 or 252 or 253 or consent of instructor

411 Criticism of Literature

Study in theoretical and applied literary criticism. Particular authors and works are closely examined in relation to various critical systems.

Prerequisites: 111 and 112 or 190 and 380

450 Advanced Literary Studies

This advanced course will focus on a closely defined group of literary and critical texts. Students will be asked to synthesize as they read and write, using extensive critical analysis to integrate their experience of literary texts with relevant critical insights and ongoing scholarship. Students will also be expected to take part in and lead discussion, and to write a substantial critical essay.

Prerequisites: 5 courses beyond the 100 level including ENGL 380. Open to limited undergraduate student enrollment by permission of instructor and the graduate program director.

475, 476 Experiential Learning**2 credits****477, 478 Experiential Learning**

See the description of these courses at the beginning of the "Curricula" section of this catalog.

480 Literary Magazine Practicum

Participants will study the history and character of literary magazines from 1912 to the present and apply their knowledge to editing the university's literary and visual-arts magazine. Editing activities include selection of material, copyediting, desktop publishing, book and Webpage design, and communication with publishing professionals. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: Permission of the instructor (arrange in early fall for course credit in the spring semester).

481 Seminar in English

A seminar focused on the study of an issue or problem of literary significance. Through discussion and intensive reading, the seminar will consider common texts pertinent to an English major's whole curriculum. Each student will execute and present a substantial critical or interpretive essay.

Prerequisites: completion of five English courses beyond the freshman level including 380; or, for non-majors, permission of the instructor and the department chair.

483, 484 Seminar**2 credits****485, 486 Seminar**

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics**2 credits****489, 490 Topics**

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

Prerequisites: 111 and 112 or 190

491, 492 Research**2 credits****493, 494 Research**

See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 Individual Study**2 credits****497, 498 Individual Study**

See the description of these courses at the beginning of the "Curricula" section of this catalog.

Prerequisites: 111 and 112 or 190

College of Arts and Sciences – Departments

Geography (GEOG)

Lorah (chair), Kelley, Werner

The interdisciplinary field of geography studies both the human and physical elements of the landscape by focusing on the interaction between populations, economies, cultures and the environment. Many complex contemporary problems and issues exist within a spatial context, and geography is uniquely suited to their exploration and resolution.

The Department of Geography offers a major and minor in geography, as well as a Geographic Information Systems (GIS) minor (for non-geography majors) and a concentration area in GIS for majors. The GIS minor is well-adapted to majors in the physical and social sciences and complements studies in education, marketing, real estate, and entrepreneurship.

The department emphasizes classroom and laboratory work, field experience, internships, collaborative faculty-student research and community service to give our students a solid foundation in geographic principles and techniques, as well as an appreciation for the diversity of people and places. It makes extensive use of computer skills to explore a wide range of topics, from regional studies to remote sensing.

With foundations in both the natural and social sciences, geography prepares students for a wide range of careers in government, the private sector, and education. Geographers create digital maps, perform location analyses for retail and service stores, analyze land use and urban planning, work with census data, teach, and hold a wide variety of other jobs. Graduates also pursue advanced degrees in geography, architecture, business, urban and regional planning, community development, GIS, and natural resource management.

Geography Honor Society

The honor society in geography at St. Thomas is *Mu Alpha Pi*. The purpose of the society is to further the professional development of geographers through research and academic experiences outside the classroom and laboratory. Students are eligible for membership when they have taken three courses in geography with at least a B average and rank in the upper 35 percent of their class.

Major in Geography

- 111 Human Geography
- 112 Physical Geography
- 113 World Geography
- 480 Seminar in Geography

Plus eight credits in methods courses:

- 221 Computer Skills in Geography
- 222 Geographical Analysis
- 223 Remote Sensing
- 321 Geographic Information Systems
- 421 Advanced Geographic Information Systems

Plus four credits in a topical course:

- ECON 333 Urban and Regional Economics
- GEOG 230 Weather and Climate
- GEOG 330 Geography for Business and Planning
- GEOG 430 Urban Geography
- GEOL 252 Geomorphology

Plus four credits in a regional course:

- 240 Geography of East and Southeast Asia
- 241 Geography of Minnesota
- 340 Geography of the U.S. and Canada
- 384 Field Study in Geography

Plus:

Eight elective geography credits

Concentration in Geographic Information Systems (GIS)

Many fields use GIS, from the demographic and economic problems of marketing and store location to the natural resource management applications of erosion and groundwater modeling. Necessary subjects range from map projections and coordinate systems to remote sensing and database management. This concentration is open only to those students majoring in geography.

- 111 Human Geography
- 112 Physical Geography
- 113 World Geography
- 221 Computer Skills in Geography
- 321 Geographical Information Systems

- 330 Geography for Business and Planning
- 421 Advanced Geographic Information Systems
- 480 Seminar in Geography

Plus four credits from the following:

- 222 Geographical Analysis
- 223 Remote Sensing

Plus four credits in a regional course:

- 240 Geography of East and Southeast Asia
- 241 Geography of Minnesota
- 340 Geography of the U.S. and Canada
- 384 Field Study in Geography

Plus:

- QMCS 220 Statistics I
- QMCS 230 Software Design Using the JAVA Language

Minor in Geography

Eight credits in core courses
 Eight credits in methods courses
 Eight elective geography credits

Minor in Geographic Information Systems (GIS)

The GIS minor will appeal particularly to students majoring in geology biology, marketing, entrepreneurship, and sociology. This minor is only available to non-geography majors.

- 221 Computer Skills in Geography
- 321 Geographic Information Systems
- 421 Advanced Geographic Information Systems

Plus:

- QMCS 230 Software Design Using the JAVA Language

Plus eight credits from the following methods courses:

- GEOG 222 Geographical Analysis
- GEOG 223 Remote Sensing
- GEOG 330 Geography for Business and Planning
- QMCS 220 Statistics I
- QMCS 281 Object-oriented Design and Programming

Teacher Licensure

Elementary Education with a Specialty in Social Studies (5-8)
 Co-major in Social Studies (5-12) and a Co-major in Secondary Education
See School of Education Department of Teacher Education

111 Human Geography

This course explores the effects of social, economic, environmental, political, and demographic change from a geographic perspective. It introduces students to a broad range of topics, including the effects of population growth, human impact on the environment, economic development, and globalization. Usually offered every semester. This course fulfills the Social Analysis and Human Diversity requirements in the core curriculum.

112 Physical Geography

This course asks why the natural environment looks and acts the way it does and addresses the interrelationships between climate, soils, water, landforms, and the biosphere. The emphasis of the course is on natural processes with some discussion of how humans interact with their surroundings. Exercises from a lab manual written specifically for this course provide hands-on experiences through inquiry-based learning and GIS. This course fulfills the second-level Computer Competency requirement in the core curriculum.

113 World Geography

A country-by-country study of the world. The goal of this course is to emphasize whatever best explains the character of each country. This may be population, economics, resources, or any aspect of nature or humanity that gives an insightful understanding of each country. Usually offered every semester. This course fulfills the Social Analysis and Human Diversity requirements in the core curriculum.

221 Computer Skills in Geography

A course with an emphasis on useful computing, especially computer-generated maps. Topics include the basic operation of a computer, editors and word processing, spreadsheets, databases, graphics, thematic maps, map design, and webpage design. An applications-oriented course that teaches the use of ArcView GIS. This course fulfills the second-level Computer Competency requirement in the core curriculum.

College of Arts and Sciences – Departments

222 Geographical Analysis

This course uses quantitative methods to explore questions of geographic concern. It focuses on collecting, organizing, analyzing and presenting spatial data. Statistical methods are applied in a real-world context - in the spheres of population, production, pollution, and climate change. This course fulfills the second-level Computer Competency requirement in the core curriculum. Usually offered alternate years.
Recommended: 221 or consent of instructor.

223 Remote Sensing

The principles and techniques of remotely sensed data are presented including photographic and digital sensing. The applicability of these techniques to land use analysis and environmental studies will be emphasized. Students will become familiar with aerial photography and digital imagery interpretation through inquiry-based learning and GIS. This course fulfills the second-level Computer Competency requirement in the core curriculum. Usually offered spring semester.

230 Weather and Climate

The causes and consequences of weather and climate, from global-scale processes of climate dynamics, the greenhouse effect and El Niño to regional and local-scale processes of fronts, thunderstorms, hurricanes and tornadoes. Students are introduced to weather map analysis and simple forecasting and observational techniques.

240 Geography of East and Southeast Asia

A regional study of East and Southeast Asian countries with special emphasis on China and Japan. The course examines the resources and physical geography but emphasizes the population, culture and economy in this dynamic region of the world. Usually offered alternate years.

241 Geography of Minnesota

Minnesota is a land rich with diversity. In this course, students will explore the state's people, landscapes, natural resources, rural issues, economic opportunities, and many other aspects of Minnesota. The course will examine regional and topical issues to develop an understanding of what makes Minnesota unique. This will be accomplished through class discussions, hands-on activities, and readings.

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

321 Geographic Information Systems

A sequel to 221, the theme of this course is how to perform data analysis using vector-based geographic information systems. Specific topics include spatial database operations, buffers, map overlay and address matching. The course illustrates the principles of Geographic Information Systems using workstation ArcInfo and a variety of real-world applications from demography to environmental studies. This course fulfills the second-level Computer Competency requirement in the core curriculum. Usually offered spring semester.
Prerequisite: A minimum grade of C- in 221

330 Geography for Business and Planning

Geographic techniques for business and planning applications include demographic analysis of customer characteristics, consumer's geographic behavior, trade areas, patterns of retailing, store location problems, site appraisals, optimal routing, and marketing.

340 Geography of the U.S. and Canada

What does the notion of "America" mean? How is this different from other global regions? This course examines the historical creation and expansion of North America from European, African and Asian influences. It then explores the contemporary geography of the continent: different cultural regions, economic characteristics, political variations, and places both special and commonplace that help define the North American experience. Usually offered alternate years.

384 Field Study in Geography

A geographic analysis through field experience. Includes study-abroad courses.
Prerequisite: consent of instructor

421 Advanced Geographic Information Systems

A sequel to 321, this course uses Spatial Analyst to illustrate advanced uses of computers in raster-based spatial analysis. Principles of geographic information systems will be implemented in a wide variety of applications using Spatial Analyst. This course fulfills the second-level Computer Competency requirement in the core curriculum. Usually offered fall semester.
Prerequisite: A minimum grade of C- in 321

430 Urban Geography

This course will focus on themes in the development of contemporary cities with special attention to patterns and trends within the Twin Cities metropolitan area e.g. ethnicity, housing, transportation, historical evolution, and urban growth. Usually offered alternate years.

Prerequisite: 111 or 113 or consent of instructor

475, 476 **Experiential Learning** 2 credits

477, 478 **Experiential Learning**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

480 Seminar in Geography

The seminar explores the nature of geography as a discipline. The areas to be covered: history of geographic thought, the position of geography relative to the arts and sciences, different ways of interpreting geographical phenomena, and geography as a vocational and academic career. Research projects will cover these themes and be tailored to the student’s interests. Usually offered alternate years.

Prerequisites: four geography courses, including one methods course

481 Advanced Field Study in Geography

A geographic analysis through field experience. Designed for advanced students in geography. Includes study-abroad courses.

Prerequisite: consent of instructor

483, 484 **Seminar** 2 credits

485, 486 **Seminar**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 **Topics** 2 credits

489, 490 **Topics**

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 **Research** 2 credits

493, 494 **Research**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 **Individual Study** 2 credits

497, 498 **Individual Study**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Geology (GEOL)

Hickson (chair), Lamb, Theissen

Geologists study the Earth, not as a static lump of rock, but as a dynamic, changing system with a long, deep, and rich history. The science of geology focuses on the processes that have sculpted and continue to shape the planet and its life. The Department of Geology seeks to provide a solid foundation in the Earth sciences for its majors, preparing them for a variety of career paths.

The geology curriculum has been designed to provide students with a solid core, but with sufficient flexibility to allow students with particular interests to pursue a more customized program. At the heart of this program is the field laboratory experience, a fundamental and basic component of a St. Thomas geoscience degree. Department faculty emphasize the fact that geology must be learned in the field and as a result offer field laboratory experiences in all courses that extend from a short afternoon trip to a multi-week field course on field methods and regional geology. Majors will visit many of the geologically significant localities throughout the upper Midwest as part of their program.

Major in Geology

One of:

- 110 Geology of the National Parks
- 111 Introductory Physical Geology
- 113 The Earth’s Record of Climate
- 114 The Science of Natural Disasters
- 115 Environmental Geology

Plus:

- 211 Mineralogy
- 260 Regional Geology and Field Methods
- 320 Sedimentology and Stratigraphy
- 340 Fundamentals of the Lithosphere I (Petrology)
- 360 Fundamentals of the Lithosphere II (Structural Geology)
- 430 Advanced Earth History

College of Arts and Sciences – Departments

Plus three of (one of which must be at the 400-level):

- 130 Earth History
- 220 Oceanography
- 252 Earth Surface Processes and Geomorphology
- 410 Hydrogeology
- 460 Advanced Field Methods
- 494 Research

Note: GEOG 321 Geographic Information Systems and geology courses offered at Macalester College may fulfill one of these courses with permission of chair

Allied requirements

MATH 113 Calculus I

or

MATH 108 and 109 Calculus with Review I and II

Plus one of the following sequences:

CHEM 111 and 112 General Chemistry I and II

PHYS 111 and 112 Introduction to Classical Physics I and II

CHEM 111 General Chemistry I and PHYS 111 Introduction to Classical Physics I

For students wishing to pursue careers in paleontology, geobiology, or geomicrobiology:

BIOL 201 Diversity and Adaptation and 202 Genetics and Population

Biology may be substituted for one of the CHEM/PHYS sequences with permission of chair

Strongly recommended for students considering graduate study:

additional courses in the allied sciences and mathematics

Teacher Licensure

Elementary Education with a Co-major in Science and Mathematics for Elementary Education

Elementary Education with a Specialty in Science (5-8)

Co-major in Science (5-8) – Earth and Space Science (9-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education.

Minor in Geology

One of:

- 110 Geology of the National Parks
- 111 Introductory Physical Geology
- 113 The Earth's Record of Climate
- 114 Natural Disasters
- 115 Environmental Geology

Plus one of:

- 211 Mineralogy
- 320 Sedimentology and Stratigraphy

Plus:

- 340 Fundamentals of the Lithosphere I (Petrology)

Plus two of:

- 130 Earth History
- 211 Mineralogy (if not chosen above)
- 220 Oceanography
- 252 Earth Surface Processes and Geomorphology
- 260 Regional Geology and Field Methods
- 320 Sedimentology and Stratigraphy (if not chosen above)
- 360 Fundamentals of the Lithosphere II (Structural Geology)
- 410 Hydrogeology

102 Origins and Methods (110, 111, 113, 114, 115)

A study of the basic concepts of geology that were first developed by James Hutton in the late 18th century and their application today. This is an introductory science course specifically designed to reduce the mystique that often is associated with the scientific method. Following Hutton's example, the student will focus on the materials which make up the Earth and on the geologic processes that operate on these materials. Offered in January term.

110 Geology of the National Parks (102, 111, 113, 114, 115)

This course introduces fundamental geologic concepts, processes and materials using examples from the national parks. Emphasis is placed on the specific geologic materials, natural processes, landforms and sequence of

events responsible for the outstanding scenery in selected U.S. national parks. Laboratories will include study of the rocks common to the national parks; analysis of geomorphic, topographic and geologic maps of the national parks; and field studies of local sites. Lecture and two laboratory hours per week.

111 Introductory Physical Geology (102, 110, 113, 114, 115)

A study of the Earth's properties; the formation and classification of minerals, rocks, ore deposits, and fuels; and the nature and origin of the Earth's surface and interior. Emphasis will be placed upon a changing Earth, and the geologic processes operating at the surface and in the interior. Lecture and two laboratory hours per week.

113 The Earth's Record of Climate (102, 110, 111, 114, 115)

Climate change is a pressing issue for all of humanity, yet we cannot understand modern climate change without an awareness of the Earth's natural climate variability over the billions of years of geological time. In this course we will first explore modern climate and the controls on it; then focus on the methods used to understand how climate has changed over recent and distant geological time; explore the factors and theories that explain changes in the Earth's climate system; and finally analyze human-induced climate changes in light of the past geological evidence. Labs will focus on the analysis of climate data and geological evidence for changes in climate.

114 The Science of Natural Disasters (102, 110, 111, 113, 115)

This introductory geology course focuses on how and why natural disasters occur, as well as on their effects and how scientists study them. The course will examine internal and external Earth processes and in particular how these processes impact humans. Course emphases will be upon the principles underlying natural disasters such as earthquakes, volcanic eruptions, landslides, floods, coastal processes, and extinctions. We will use case studies of recent and historic events to understand these natural processes.

115 Environmental Geology (102, 110, 111, 113, 114)

This course emphasizes the interactions between humans and their environment, focusing on those processes and issues that are fundamentally geological in nature. Early in the course, students will be introduced to basic geoscience concepts and principals, the scientific method, plate tectonics, and Earth materials (rocks and minerals). The remainder of the course will focus on specific topics at the interface between humans and their environment, including volcanic and earthquake hazards, human impacts on the hydrological cycle, surface and groundwater contamination, climate and the carbon cycle, nuclear waste storage, soil erosion, non-renewable resources, and slope stability.

130 Earth History

The course introduces fundamental geologic concepts while examining the major tectonic, chemical and biological events that shaped the Earth through time. It will include a study of fossils, sedimentary structures, depositional environments, radiometric dating techniques, and other tools geoscientists use to interpret the past. Throughout the course global events will be studied but focus will be on the North American continent.

211 Mineralogy

A systematic approach to mineral study involving crystallography, analysis of physical and chemical properties, mineral formation, and methods of identification and classification. The course includes fieldwork in northern Minnesota and an emphasis on understanding the development of local minerals in the context of the geologic history of Minnesota. Lecture and three laboratory hours per week.

Prerequisite: one of 102, 110, 111, 113, 114 or 115

220 Oceanography

The Earth's surface is dominated by vast oceans known for the beauty of their wildlife and waters. The oceans are also increasingly recognized for their critical importance to the functioning of the Earth's climate system and for their endangered natural resources. For example, the ocean-atmospheric climate phenomenon known as the El Niño Southern Oscillation has gained household name recognition for its global impact on the weather, economy, and public health. In this course we will explore the physical, chemical, and biological processes that characterize the oceans. Students will develop research and analytical skills by making observations and interpretations of oceanographic processes using data, demonstrations, and field experiences.

Prerequisite: one of 110, 111, 113, 114, 115, 130, or permission of the instructor

252 Earth Surface Processes and Geomorphology

This course emphasizes the physical processes that are responsible for shaping the Earth's surface. The qualitative description of landforms is pursued, in light of student's newly-gained analytical and quantitative understanding of processes. The labs focus on techniques used by geomorphologists to characterize landforms, soils, and the processes that shape, including: air photo interpretation, analysis of digital topographic data, experimental simulation of landforms evolution, and field techniques in geomorphology.

Prerequisite: one of 102, 110, 111, 113, 114 or 115

260 Regional Geology and Geological Field Methods

The field is geology's laboratory. This course is an introduction to the major concepts of geology, as well as the methods of field geology. Students will learn how to collect, synthesize, and analyze geological data in the field. Techniques will be taught in the context of the regional geology of an area so students will gain a critical appre-

College of Arts and Sciences – Departments

ciation of a geological terrain outside of their usual experience. Students will spend 2-3 weeks in the field examining geological structures, modern-day faults, modern processes that shape the Earth's surface, and examining the ancient record of past climate and environments preserved in the rock record. Student teams will learn basic techniques and instruments of geological mapping and rock description, how to recognize geological structures like faults and folds, ways to interpret the evolution of the Earth from sedimentary, igneous, and metamorphic rocks, and to link surface processes with the rock record. Offered in January-term.

Prerequisite: one of 102, 110, 111, 113, 114, 115, or permission of instructor

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

320 Sedimentology and Stratigraphy

Sedimentology is the study of sediment, particularly focusing on how it is transported and deposited. Stratigraphy emphasizes the analysis of sedimentary strata, the layers of sedimentary (and some volcanic) rocks that cover about three-quarters of the Earth's surface. Sedimentary rocks illuminate many of the details of the Earth's history: effects of sea level change, global climate, tectonic processes, and geochemical cycles are all recorded in the sedimentary strata of the Earth. This course will cover basics of fluid flow and sediment transport, sedimentary structures and textures, and – forming the bridge between modern landforms and ancient rocks – depositional sedimentary environments.

Prerequisite: one of 110, 111, 113, 114, 115; 211 recommended

340 Fundamentals of the Lithosphere I (Petrology)

This is the first course in a year-long sequence that covers the fundamentals of petrology and structural geology in a global tectonic framework. The course begins with a discussion of plate tectonics and then examines each of the major plate settings and their boundaries. It will include the formation of igneous, sedimentary and metamorphic rocks. Labs will include hand specimen identification and the use of the petrographic microscope. The course will also examine the conditions of rock deformation and the typical structural features of each tectonic setting. Labs will cover structural geology techniques including recognition and analysis of features in the field and in hand samples. In the fall semester the focus will be on the petrology of the mantle and lithosphere as well as divergent margins. In the spring semester, the focus will be on convergent margins. There will be several field trips as part of this course, ranging from 1-4 days, in the early fall and late spring.

Prerequisites: one of 110, 111, 113, 114 or 115; 211 and 320 or permission of the instructor

360 Fundamentals of the Lithosphere II (Structural Geology)

Continuation of 340.

Prerequisite: 340

410 Hydrogeology

This course focuses on groundwater and how geology influences its recharge, movement, storage, and withdrawal. The course will cover basic concepts of surface- and subsurface water flow, aquifer properties, well testing, heterogeneity in aquifers, groundwater chemistry and contamination, the role of groundwater in geological processes, and regional groundwater systems. Examples, labs, and projects will focus on groundwater in Minnesota and its immediate surroundings.

Prerequisite: one of 110, 111, 113, 114 or 115; 360 recommended

421 Geophysics

Fundamental principles of geophysical methods commonly used for subsurface exploration, including: gravity, magnetic, seismic and electrical measurements. Emphasis on field procedures and interpretation techniques used for geologic investigations. Lecture and three laboratory hours per week.

Prerequisite: 360

430 Advanced Earth History

This course serves as a senior capstone experience in the geology major. Using the tools and concepts from previous coursework—including geochronology, plate tectonics, and other Earth processes—students will examine in-depth some aspect of Earth history. The specific subject matter and focus of this course will vary from year to year, and will be chosen based on input from the students in consultation with the instructor. Some examples of topics include: Precambrian tectonics of the Great Lakes region; Global Mesozoic tectonics; Sedimentary basins and basin analysis; or the Phanerozoic amalgamation of Asia.

Prerequisite: C- or better in 260, 320, and 340

460 Advanced Field Geology

In this course, students will use skills developed in the introductory field methods course, Geology 260, to tackle more complex geologic problems. We will spend 3 weeks in the field mapping in an area that is more structurally complicated and learning additional techniques not introduced in the first course. Students will have the option of starting a research project and collecting data to be analyzed and written up in the following semester. Students not choosing this option will complete a field project during the course.

Prerequisites: 260 and permission of the instructor

475, 476	Experiential Learning	2 credits
477, 478	Experiential Learning	
See the description of these courses at the beginning of the “Curricula” section of this catalog.		
483, 484	Seminar	2 credits
485, 486	Seminar	
See the description of these courses at the beginning of the “Curricula” section of this catalog.		
487, 488	Topics	2 credits
489, 490	Topics	
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlinechedule.html .		
491, 492	Research	2 credits
493, 494	Research	
See the description of these courses at the beginning of the “Curricula” section of this catalog.		
495, 496	Individual Study	2 credits
497, 498	Individual Study	
See the description of these courses at the beginning of the “Curricula” section of this catalog.		

Health and Human Performance

Parsley (chair), Carey, Derry, Duoos, Grochowski; Flood, Hodgson, Mathre, Ofstead, Oliphant, Pham, Roney, Skrypek, Stenzel, Sweeney, Tschida

The Department of Health and Human Performance offers the following undergraduate professional programs of study:

1. a major in physical education teaching which leads to licensure at the elementary, middle, and secondary levels. Students graduating with a major in physical education will be able to effectively make application of the skills required for conducting the teaching-learning process in an extended practicum setting. They will also demonstrate the skill and knowledge to evaluate the teaching-learning process, the analysis of motor performance, and an assessment of theory to interface it with practice.
2. a major in health education teaching, which leads to licensure at the middle and secondary school levels. Students graduating with a major in health education will be able to effectively apply the knowledge and skills required for conducting the teaching-learning process in health education.
3. a major in community health education, which prepares the student for work in community health. Students graduating with a major in community health education will be able to effectively apply the knowledge and skills required in community health education settings.
4. a major in health promotion which prepares the student for work as a fitness specialist outside the school setting. Students graduating with a major in health promotion will have had experience at a work site. They will demonstrate the skill and knowledge expected of the entry-level exercise science professional in the areas of fitness evaluation, exercise prescription, and delivery of exercise programs to normal and special populations. They will effectively assess theory and interface it with practice.
5. a major in health promotion science which prepares the student for entrance into a masters of physical therapy program or other related medical field. A student graduating with a major in health promotion science will be trained on highly sophisticated assessment equipment and gain real-world experience outside the classroom.
6. a non-teaching major in health education or physical education for students who have career objectives other than teaching.
7. a minor in community health education.

The department also offers a course to fulfill the Health and Fitness competency of the core curriculum.

Teacher Licensure

Major in Physical Education (K-12)

Major in Health Education (5-12)

See School of Education Department of Teacher Education

Major in Community Health Education

HLTH	345	Nutrition for Health and Fitness
HLTH	350	Personal Health and Wellness
HLTH	353	Consumer, Community and Environmental Health
HLTH	375	Lifelong Stress Management (2 credits)
HLTH	400	Epidemiology
HLTH	441	Community Health Education: Curriculum, Assessments, and Administration
HLTH	451	Community Health Education: Methods, Resources, and Partnerships
HLTH	462	Human Sexuality Education
HLTH	464	Critical Issues in Health Education

College of Arts and Sciences – Departments

Plus one of:

- HLTH 470 Health Internship I
- HLTH 471 Health Internship II extended (6 credits)

Allied requirements

- BIOL 101 General Biology
- PHED 410 Human Anatomy and Physiology

Plus one of:

- PSY 111 General Psychology
- SOC 100 Introduction to Sociology

Plus one of:

- CHEM 100 Chemistry in our World
- CHEM 101 Environmental Chemistry

Plus one of:

- COMM 100 Public Speaking
- COMM 105 Communication in the Workplace

Recommended:

One of:

- PSY 200 Psychology of Infancy and Childhood
- PSY 203 Psychology of Adolescence
- PSY 204 Psychology of Adulthood and Aging

Major in Health Promotion (B.S.)

- HLTH 345 Nutrition for Health and Wellness
- HLTH 350 Personal Health and Wellness
- HLTH 375 Lifelong Stress Management (2 credits)
- PHED 113 Introduction to Health Promotion (2 credits)
- PHED 205 Principles of Strength Training (2 credits)
- PHED 206 Principles of Aerobic Training (2 credits)
- PHED 250 Emergency Care
- PHED 410 Human Anatomy and Physiology
- PHED 420 Kinesiology
- PHED 426 Biomechanics
- PHED 430 Measurement and Evaluation (2 credits)
- PHED 431 Exercise Physiology (2 credits)
- PHED 432 Advanced Exercise Physiology
- PHED 433 Exercise in Special Populations (2 credits)
- PHED 449 Health Promotion Seminar (2 credits)

Plus one of:

- PHED 450 Health Promotion Internship I
- PHED 451 Health Promotion Internship II extended (6 credits)

Allied requirements

- BIOL 101 General Biology
- BUS 201 Ethics and Practice: Foundations of Business
- CHEM 100 Chemistry in our World
- COMM 105 Communication in the Workplace
- MKTG 300 Principles of Marketing

Plus one of:

- ENGL 251 Writing in the Academy
- ENGL 252 Written Nonfiction Prose

Note: Eighty-four credits are required outside the areas of PHED and HLTH.

Major in Health Promotion – Science Emphasis (B.S.)

This program is designed for students interested in applying to a masters of physical therapy (MPT) program. The University of St. Thomas has a cooperative program with the College of St. Catherine in that the College of St. Catherine holds three places per year for qualified UST students. Completion of this degree also enables students to apply to other MPT schools throughout the country. Students not accepted into a MPT program will be degreed and prepared to work in the field of Health Promotion.

- HLTH 345 Nutrition for Health and Fitness
- HLTH 350 Personal Health and Wellness
- PHED 113 Introduction to Health Promotion (2 credits)
- PHED 250 Emergency Care

PHED	420	Kinesiology
PHED	426	Biomechanics
PHED	430	Measurement and Evaluation (2 credits)
PHED	431	Exercise Physiology (2 credits)
PHED	432	Advanced Exercise Physiology
PHED	433	Exercise in Special Populations (2 credits)
PHED	449	Health Promotion Seminar (2 credits)

Plus one of:

PHED	450	Health Promotion Internship I
PHED	451	Health Promotion Internship II extended (6 credits)

Allied requirements

BIOL	201	Diversity and Adaptation
BIOL	202	Genetics and Population Biology
CHEM	111	General Chemistry I
CHEM	112	General Chemistry II
PHYS	109	General Physics I
PHYS	110	General Physics II
PSY	111	General Psychology
PSY	301	Psychopathology
QMCS	220	Statistics I

Plus:

MATH	113	Calculus I
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or

MATH	108	Calculus with Review I and 109 Calculus with Review II
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Plus:

BIOL	251C and 252C	Human Anatomy and Physiology I and II (CSC)
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or

PHED	410	Human Anatomy and Physiology and BIOL 349 Comparative Anatomy and Physiology I
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Note: Eighty four credits are required outside the areas of PHED and HLTH.

Application Procedure for St. Catherine's MPT Program

A minimum cumulative grade-point average of 3.00 for undergraduate course work is required. Completed applications for admission are due to St. Catherine no later than February 15 of the senior year.

To request an application, please contact Office of Admissions, College of St. Catherine, 2004 Randolph, St. Paul, MN 55105 or phone 651-690-6505. Applicants are informed of their status no later than April 1.

Major in Health Education – Non-Licensure

HLTH	345	Nutrition for Health and Fitness
HLTH	350	Personal Health and Wellness
HLTH	353	Consumer, Community and Environmental Health
HLTH	375	Lifelong Stress Management (2 credits)
HLTH	400	Epidemiology
HLTH	440	Health Education: Curriculum, Assessments, and Administration
HLTH	450	Health Education: Methods, Resources, and Partnerships
HLTH	462	Human Sexuality Education
HLTH	464	Critical Issues in Health Education

Allied requirements

BIOL	101	General Biology
PHED	410	Anatomy and Physiology

Plus one of:

PSY	111	General Psychology
SOC	100	Introduction to Sociology

Plus one of:

CHEM	100	Chemistry in Our World
CHEM	101	Environmental Chemistry

Plus one of:

COMM	100	Public Speaking
COMM	105	Communication in the Work Place

Plus:

American Red Cross Instructor Certifications: First Aid, CPR, HIV/AIDS

Minor in Community Health Education

HLTH	350	Personal Health and Wellness
HLTH	353	Consumer, Community and Environmental Health
HLTH	441	Community Health Education: Curriculum, Assessments, and Administration
HLTH	451	Community Health Education: Methods, Resources, and Partnerships
HLTH	470	Health Internship I

Plus one of:

HLTH	345	Nutrition
HLTH	462	Human Sexuality

Physical Education Courses (PHED)

100 Foundations for Fitness **0 credit**

This course seeks to improve the student's knowledge and understanding of the role of physical activity and how it contributes to one's lifelong health and wellness; and to develop personal fitness that will enable the student to effectively integrate physical activity into her or his lifestyle. The course includes lecture and discussion sessions, a battery of physical assessments, and a selection of higher-intensity fitness activities (e.g. aerobic dance, strength training, circuit training and jogging). Students choose from among the various physical-fitness activity offerings with guidance from the physical education staff. The course emphasizes discussion topics such as stress, nutrition, components of fitness, and drug and alcohol abuse.

The primary purpose of this course is to provide the student with the knowledge, skills, and techniques necessary to become a physically educated person; that is, a person who is able to design and maintain a lifestyle of fitness and wellness. Implied is the philosophy that students will learn to perform physical skills that contribute to personal participation in social and recreational activities – not the skills learned in competitive sports. St. Thomas graduates should not only be able to communicate the components of health-related fitness and wellness, but have the ability to assess, design, implement and maintain their personal fitness and wellness program. Ultimately, St. Thomas graduates will become advocates for the benefits of a healthy and active lifestyle. This course fulfills the Health and Fitness requirement in the core curriculum.

104 Physical Education Curriculum, Instructions, and Assessment (K-12)

Students will examine a variety of curriculum models and look at teaching as a goal-oriented activity, study criteria for learning experiences and the instructional process. Factors that influence learning, designing learning experiences, task presentation, content analysis and development will be experienced. Teaching strategies, teacher responsibilities, student motivation, and establishing goals and objectives for learning will be addressed. Evaluation and assessment of cognitive, psychomotor and affective effects in physical education will be studied. Students will learn how to use the AAHPERD Fitnessgram computer program.

113 Introduction to Health Promotion **2 credits**

This course offers the learner opportunities to explore the field of Health Promotion. The learner will study the philosophies, theories, and current practices of Health Promotion as a means to gain a better understanding of the field. The student will have the opportunity to listen to and interact with employees in the field explain what they do, skills and competencies needed, and job marketability. The student will also work in small groups to design and implement a health promotion program.

204 Physical Education Methods for Elementary Level

Orientation to the physical education profession: the nature of the profession, professional opportunities, certification requirements, including current trends and research in elementary physical education. Skills include accelerated units of elementary physical activities and the different methods of presenting lessons. Students learn to perform and teach activities at each of the three developmental levels of elementary school children. Successful completion of a clinical site teaching experience at the elementary level is required.

205 Principles of Strength Training **2 credits**

This course provides an overview of the principles of strength training, strength acquisition and program design for diverse populations. Students will be provided with the opportunity to gain practical, hands-on experience in assessing, designing, implementing and evaluating strength training programs for a variety of clients. Additional topics to be discussed include equipment selection and maintenance, facility design, management and safety.

206 Principles of Aerobic Training **2 credits**

This course provides an overview of the principles of aerobic conditioning and the various methods used to train diverse populations, i.e., children, adults, elderly, athletes, and non-athletes. Students will be provided with the opportunity to gain practical, hands-on experience in assessing, designing, implementing and evaluating cardiovascular testing and training programs for a variety of clients.

215 Rhythms and Dance **2 credits**

This course is designed to introduce future elementary and secondary physical education teachers to rhythms and dance education. Students will participate in and learn how to instruct rhythm activities, folk dance, square dance, creative dance, aerobic dance, and popular dance. Students learn to write lesson plans, teach and assess rhythmic activities and dance.

250 Emergency Care

This course is designed to develop the emergency-care skills and understanding currently considered to be within the scope of a first responder. Consists of classroom, laboratory and internship experience. Upon satisfactory completion of this course, students will be first responder certified.

295, 296 Topics**2 credits****297, 298 Topics**

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

304 Physical Education Methods for Middle School

Orientation to the physical education profession pertaining to current trends and research in middle school physical education. Factors affecting adolescent and multicultural students in physical education will be discussed and analyzed. Appropriate and effective teaching methods utilizing the Tactical Approach to Teaching Games will be introduced and practiced through peer and clinical site teaching experience. Successful completion of a clinical site teaching experience at the middle school level is required.

311 Motor Development**2 credits**

This course provides an overview of the principles of human growth and motor development and studies in-depth fundamental movement abilities, perceptual motor development and developmental physical activity.

351 Teaching of the Special-Needs Student**2 credits**

Education of special-needs students with particular reference to a legal basis, analysis of functional and organic disabilities, assessment procedures, class-activity modification, and mainstreaming principles as related to the role of school health and physical education programs.

404 Physical Education Methods for Secondary Level

Current trends, research, and teaching methods specific to the secondary physical education environment will be identified. Appropriate and effective teaching methods/strategies/curricular choices will be discussed utilizing the Sport Education Model and the Tactical Approach to Teaching Games. Successful completion of a clinical site teaching experience at the middle and/or secondary level is required.

405 Physical Education Methods for Teaching Aquatics/First Aid

Learners will study the biomechanics of swimming, techniques for teaching and analyzing appropriate skill performance for the six strokes, long shallow dive, and standing dive. In addition water safety and victim assistance are addressed. Successful completion of this course will provide the learner with an American Red Cross Water Safety Instructor certification, in addition to one of the following: 1) a current American Red Cross Health and American Red Cross CPR certification, 2) an Instructor Candidate Training Certificate (Cert. 3007), issued within one year, 3) Successfully pass the precourse written test and skills test. The written test and Skills 1-5 in the skills test are based on a proficiency level equal to the American Red Cross Community Water Safety course. Skills 6-10 in the skills test are based on a proficiency level equal to Level VI of the American Red Cross Learn-to-Swim program. Prospective candidates who hold current certification in Lifeguard Training will exceed the requirements for taking the safety skills pretest. However, all candidates must undergo pretesting.

410 Human Anatomy and Physiology

A course of study designed to meet the needs of the student requiring fundamental knowledge of the structure and function of the body and its tissues and fluids. The human skeleton, bones, articulations and the muscular system will be examined with regards to human movement. The student will understand the function of the cardiovascular, respiratory, nervous, muscular and metabolic systems.

420 Kinesiology

Learners will gain a basic understanding of the skeletal and muscular systems as they relate to human movement. Neuromuscular aspects of movement, forces, torque, balance and stability are explored. Observing and analyzing skill performance are experienced.

Prerequisites: PHED 410

426 Biomechanics

Principles of human movement, interaction with a sporting implement, observing and analyzing performance are stressed. Torque, angular momentum, projectiles, fluid forces, aerodynamics, hydrodynamics, and throw-like and push-like movement patterns are studied. Research techniques will be covered and students will have the opportunity to conduct research in sports biomechanics.

Prerequisite: PHED 420

430 Measurement and Evaluation**2 credits**

The primary objective of this course is to prepare the student to design, measure and evaluate original research. Topics include study design, descriptive statistics, frequency distribution, percentile ranks, correlation, z-scores, t-scores, and measurement error. This course prepares the student to conduct his/her original research for PHED 449.

College of Arts and Sciences – Departments

- 431 Exercise Physiology** **2 credits**
Application of the principles of anatomy and physiology to the study of metabolic, respiratory, circulatory and nervous adjustments of the body resulting from physical activity. The student will gain an understanding of the acute and chronic long-term adaptation of the cardiovascular, respiratory, nervous, muscular and metabolic systems of the body. In addition, they will gain hands-on experience in testing and measurement in an exercise physiology laboratory.
Prerequisite: PHED 410
- 432 Advanced Exercise Physiology**
This course is designed to prepare the student for certification by the American College of Sports Medicine. Students will apply knowledge and skills of exercise physiology to the practical setting, including fitness assessment, body composition, flexibility, blood pressure measurement, EKG testing, and exercise prescription.
Prerequisites: PHED 410 and 431
- 433 Exercise in Special Populations** **2 credits**
This course is designed to prepare students to evaluate fitness, assess risk factors, and write exercise prescriptions for special populations, including obesity, hypertension, coronary artery disease, and arthritis. Students completing this course will have the knowledge, skills and abilities to pass the American College of Sports Medicine Exercise Test Technologist Certification Examination.
Prerequisite: PHED 431
- 449 Health Promotion Seminar** **2 credits**
This seminar course provides Health Promotion majors with opportunities to enhance their expertise in teaching, demonstration, assessment, prescription, program development and program evaluation as related to Health Promotion. Learners will be required to demonstrate the understandings and skills necessary to effectively work with diverse populations including children, youth, adults, and elders in the field of Health Promotion. The student will work individually in developing, conducting, and evaluating original research. This research will be presented to the department at the end of the course. The student must also choose one of a number of options to advance their career and/or to improve their marketability in the field.
Prerequisite: Junior standing and PHED 420, 430, 431 and HLTH 345, 350
- 450 Health Promotion Internship I**
The health promotion intern will obtain practical experience at the clinical, exercise, corporate health promotion, or community health promotion level. The internship will be under the supervision of an experienced exercise fitness specialist. Students will assist in the marketing and management of health promotion programs including the administration of a variety of assessments as prescribed by the exercise fitness specialist. Individual research project(s) will be assigned. A minimum of 250 hours of clinical experience will be required in at least one or more of the following areas: 1) clinical exercise and fitness; 2) corporate health promotion; 3) health promotion and education. Grading will be on an S/R basis.
Prerequisites: Current CPR and first aid cards and permission of the instructor (6 months prior to registration)
- 451 Health Promotion Internship II extended** **6 credits**
The health promotion intern will obtain practical experience at the clinical, exercise corporate health promotion, or community health promotion level. The internship will be under the supervision of an experienced exercise fitness specialist. Students will assist in the marketing and management of health promotion programs including the administration of a variety of assessments as prescribed by the exercise fitness specialist. Individual research project(s) will be assigned. A minimum of 400 hours of clinical experience will be required in at least one or more of the following areas: 1) clinical exercise and fitness; 2) corporate health promotion; 3) health promotion and education. Grading will be on an S/R basis.
Prerequisites: Current CPR and first aid cards and permission of the instructor (6 months prior to registration)
- 475, 476 Experiential Learning** **2 credits**
477, 478 Experiential Learning
See the description of these courses at the beginning of the “Curricula” section of this catalog.
- 483, 484 Seminar** **2 credits**
485, 486 Seminar
See the description of these courses at the beginning of the “Curricula” section of this catalog.
- 487, 488 Topics** **2 credits**
489, 490 Topics
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.
- 491, 492 Research** **2 credits**
493, 494 Research
See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Health Courses (HLTH)**345 Nutrition for Health and Fitness**

An examination of essential nutrients, energy balancing, metabolism, nutritional deficiencies and over-consumption, diet fads and fallacies, healthful eating patterns and nutritional needs throughout the life cycle. Individual nutritional analysis and prescription will be included.

350 Personal Health and Wellness

This course will entail an examination of the components of a healthful lifestyle. The interrelationship of physical, intellectual, spiritual and emotional health will be the focal point. Specific areas such as mental health, stress and coping, human sexuality, resiliency enhancement, disease prevention, aging, grief and loss will be addressed.

353 Consumer, Community and Environmental Health

Health education as it relates to the consumer, the community, and the environment. Units of study include: consumerism, quackery, control and prevention of infectious and non-infectious diseases, community health services and resources, and current environmental issues.

375 Lifelong Stress Management

2 credits

This course is open to individuals from all fields. The focus is on exploration of effective, healthful strategies of stress management. This course is an opportunity to expand one’s understanding of how to redirect stress responses into positive sources of energy.

400 Epidemiology

Epidemiology provides an overview of the approaches used in epidemiological studies to measure the disease or health state in a population and to identify possible causes of a disease or health state. Included will be an examination of study designs, strengths and weaknesses of each. The ability to evaluate the findings from epidemiological studies will be emphasized. Learners will explore associations, correlations, between disease or health state and possible causes. The factors of bias, confounding or chance causes will be included. This course invites learners to study causality and criteria for assessing causality.

Prerequisite: a course in BIOL is recommended

440 Health Education: 5-12 Curriculum, Assessment and Administration

Learners will explore effective strategies for development and evaluation of 5-12 health education curriculum with emphasis on comprehensive and coordinated school health education concepts. This exploration will include growth and developmental concerns, innovative learning theories, learner-centered and proactive learning, dynamic partnerships with families and communities (including medical, business, and health agencies), interactive and interdisciplinary learning paradigms, global networking, appreciation for diversity, and current mind-body-spirit approaches to health care. There will be opportunities for learners to actively engage in review and development of authentic assessment strategies. Learners also will evaluate real-world health programs in the field and demonstrate effective in-service strategies and networking. Within this course, learners will engage in leadership approaches in enhancement of quality coordinated health education programs for families, schools, and communities. This course fulfills the second-level Computer Competency requirement in the core curriculum.

441 Community Health Education: Curriculum, Assessment and Administration

Learners will explore effective strategies for development and evaluation of Community Health Education curriculum with emphasis on comprehensive and coordinated health education concepts. This exploration will include growth and developmental concerns, innovative learning theories, client-centered and proactive learning, and dynamic partnerships with clients, work sites, and communities (including medical, business, and health agencies). There is an emphasis on interactive and interdisciplinary learning paradigms, global networking, appreciation for diversity, and current mind-body approaches to health care. There will be opportunities for learners to actively engage in review and development of authentic assessment strategies with emphasis on knowledge over information. Learners will also evaluate health delivery programs in the field and demonstrate effective in-service strategies and networking. Included in this course are opportunities to explore and assess various resources from medical, insurance, health agency, business and private organizations that could effectively be used in community health settings. Within this course, learners will engage in virtual administration and leadership approaches in the enhancement of total quality community health education programs. Off-campus observations and presenting of health issues in community settings are required. This course fulfills the second-level Computer Competency requirement in the core curriculum.

450 Health Education: 5-12 Methods, Resources and Partnerships

Learners will identify, practice, and demonstrate effective methods of facilitating 5-12 health education. Off-campus observations and teaching of health lessons in middle and secondary school settings are included in the requirements. An off-campus tutorial experience with middle school or high school aged learners is required.

College of Arts and Sciences – Departments

Learners will also explore and assess various educational resources from medical, insurance, health agency, business and private organizations that effectively could be used with 5-12 learners. This will include development of a professional telecommunications network. Learners will learn strategies for effectively using and evaluating telecommunications and interactive multimedia for 5-12 health education. Learners will also investigate and design active partnerships with parents/guardians and communities.

451 Community Health Education: Methods, Resources and Partnerships

Learners will identify, practice, and demonstrate effective methods for facilitating community health education. Off-campus observations and presentations of health issues in community settings are required. Learners will explore and assess various resources from medical, insurance, health agency, business and private organizations that could effectively be used in community health settings. This will include development of a professional telecommunications network. Learners will learn strategies for effectively using and evaluating telecommunications and interactive multimedia in community health programs. In addition, learners will investigate and design active partnerships with clients, representatives of the medical field, health insurance agencies and business communities.

462 Human Sexuality Education

The examination of the strategies and techniques for the development of human sexuality education for personal and professional needs. The course also addresses the needs of 5-12 students and concerns of the community. The nature of sexual functioning, sexual development, ethics and attitudes will be addressed with the cooperation of the nursing, theology and health education disciplines. Effective and appropriate teaching strategies reflecting approved educational guidelines will be examined and practiced.

Prerequisite: Sophomore standing

464 Critical Issues in Health Education

An in-depth examination of relevant, critical health issues. Techniques for identifying and researching the issues plus appropriate teaching strategies will be addressed along with effective health and wellness promotional strategies. Examples of health issues include stress management, death education, HIV/AIDS, teen pregnancy, *etc.* Advanced helping skills will be included. Emphasis on mastery of telecommunication including: Web page design, Internet research, grant writing, and computer-enhanced presentations and teaching. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: HLTH 440/441 and 450/451 (may be taken concurrently) or permission of instructor

470 Health Internship I

The community health education intern will obtain health education experience at a medical clinic, community center, or public health center. The internship is under the supervision of an experienced health education specialist and the course professor. Interns will engage in the development and delivery of health education programs. Each intern will complete an individual research project relevant to the clinic or center's clientele. The intern will complete a minimum of 250 internship hours.

Prerequisite: Permission of instructor

471 Health Internship II extended

6 credits

The community health education intern will obtain health education experience at a medical clinic, community center, or public health center. The internship is under the supervision of an experienced health education specialist and the course professor. Interns will engage in the development and delivery of health education programs. Each intern will complete an individual research project relevant to the clinic or center's clientele. The intern will complete a minimum of 400 internship hours.

Prerequisite: Permission of instructor

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the "Curricula" section of this catalog.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the "Curricula" section of this catalog.

History (HIST)

Jordan (ENGL) (chair), Chrislock, Fitzharris, Howe, Hwa, Klejment, Mega, Schrunk, Woytanowitz, Wright

The Department of History offers courses dealing with the principal periods and topics of American, European and ancient classical history, as well as in selected non-European/non-U.S. fields (such as China, Japan, Latin America, *etc.*). In these classes an effort is made not only to impart information but also to develop the habits of mind needed for the critical investigation and appreciation of the past.

The history major provides a concentration of courses useful as preparation for teaching, for further professional studies or for a variety of careers in business and government. Major requirements are designed to allow the history student the freedom to develop a substantial foundation in another field through elective courses.

Students graduating with a major in history will have knowledge in European, American, and non-Western history. They will demonstrate a proficiency in the methods and techniques of history. They will be conversant with the content of the history of at least one non-Western culture.

As part of the student outcomes assessment program at the university, all majors in history will be required to take the major field examination.

The department also offers courses for the non-major in fulfillment of the Historical Studies component of the core curriculum.

History Honor Society

A campus chapter of *Phi Alpha Theta*, the national honor society in history, was established at St. Thomas in 1950. Candidates must have completed three courses in history and meet high qualitative standards for membership.

Major in History

Forty-four credits in major, of which at least four must be from each of four areas:

- The Ancient and Medieval World
- Modern Europe since 1450
- The United States or its Colonial Antecedents
- The non-Western World

One of:

- 111 Origins of the Modern World to 1550
- 112 The History of the Modern World since 1550

Plus one of:

- 113 Early America in Global Perspective
 - 114 The Modern U.S. in Global Perspective
- (no more than one additional 100-level course may be applied to major)

Plus one thematic course from:

- 326 English Law and Government Before the American Revolution
- 345 Family and Women in Chinese History
- 360 Early American Thought and Culture
- 361 American Thought and Culture Since the Civil War
- 363 Business in American Life
- 365 U.S. Constitutional History
- 366 The Catholic Church in the United States
- 368 Women in the United States
- 369 African-American History
- 371 History of U.S. Foreign Policy
- 382 Careers in History
- 384 Uses of History: Decision-Making
- 391 Development of Industrial Economies

Plus one limited period course from:

- 314 Modern Europe since 1945
- 328 The French Revolution and Napoleonic Era
- 333 Eastern Europe, 1914 to the Present
- 347 The Modernization of Taiwan, Hong Kong, and China
- 353 History of the American Revolution
- 355 The Civil War Era
- 358 Twentieth-Century United States
- 372 The United States and Vietnam

Plus one of:

- 463 Seminar in European History
- 464 Seminar in Non-Western History
- 465 Seminar in U.S. History

College of Arts and Sciences – Departments

Plus:

Twenty-four credits in history chosen in consultation with student's major adviser

Teacher Licensure

Elementary Education with a Specialty in Social Studies (5-8)

Co-major in Social Studies (5-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Minor in History

Twenty credits in history, no more than eight of which may be at the 100-level and four of which must be a 400-level seminar (463 or 465). Selection of the specific courses to fulfill the requirements should be done in consultation with a member of the department faculty.

111 Origins of the Modern World to 1550

Ancient origins of Eurasian traditions. The rise of Europe. Traditional societies in Europe and Asia. Foundations of modernization in Renaissance Europe. Africa and America before Europe's expansion. Europe and the wider world. This course fulfills the Historical Studies requirement in the core curriculum.

112 The History of the Modern World since 1550

The Modern World Since 1550 surveys the sixteenth century European foundation and expansion throughout the world down to the end of the twentieth century. The course examines the resulting breakthroughs in communication and cultural exchanges between Western civilization and the Middle East, Asia, Africa, and Latin America. Emphasis is placed on the emergence of an interdependent global civilization. This course fulfills the Historical Studies requirement in the core curriculum.

113 Early America in Global Perspective

Social, political, cultural, and economic history of the peoples of North America from the European-American encounter through the aftermath of the U.S. Civil War. Special emphasis is given to the relation of minority groups (American Indians, African Americans, Hispanic peoples, European immigrants, *etc.*) to the dominant culture. Major themes include: colonization, slavery, revolution, nation building, territorial expansion, industrialization, reform movements, nativism, sectionalism, and the Civil War. This course fulfills the Historical Studies requirement in the core curriculum.

114 The Modern U.S. in Global Perspective

Social, political, cultural, and economic history of the peoples of the United States from the Reconstruction period following the Civil War to the present. Special emphasis is given to the relation of minority groups (American Indians, African Americans, Hispanic peoples, Asian and European immigrants, *etc.*) to the dominant culture, and to the changing role of the U.S. within its larger global context. Major themes include: Reconstruction, domestic and overseas expansion, industrialization, racism and nativism, world wars, cold war, movements of liberation and reform, and other contemporary issues. This course fulfills the Historical Studies requirement in the core curriculum.

210 Modern Latin America, 1800 to the Present

A survey of the historical and cultural developments of Latin America from the movement for Latin American independence to the present. Selected topics include: the struggle for social justice, political instability, economic dependence, race relations, revolution, rural societies, militarism and the relationship between the United States and Latin American countries. This course fulfills the Human Diversity requirement in the core curriculum.

220 Introduction to Japanese History and Culture

An overview of Japanese history and culture from the beginning to the present day with particular emphasis on the period following initial contact with the West at the end of the 16th century. Topics of special emphasis will include: formative aspects of Japanese culture; the early history of Western influence and Christianity; the Tokugawa Period and centralized feudalism; the Meiji Era and renewed contact with the West; late 19th and early 20th-century development; World War II and postwar occupation; and a look at contemporary Japan. This course fulfills the Human Diversity requirement in the core curriculum.

230 Canadian History

A survey of Canadian history from New France to the present. Emphasis will be on the history of English-speaking Canada since 1763. Topics will include: Canadian beginnings; Canada at the time of the American Revolution; 19th century political development and Confederation; western expansion; and Canada in the 20th century. Special emphasis will be given to the significant parallels and contrasts with the historical and political development of the U.S.

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

301 Egypt and the Near East, 8000 B.C. to A.D. 750

A historical, comparative survey of the origins and diversity of human societies in northeastern Africa (Egypt, Nubia) and western Asia (Anatolia, Levant, Mesopotamia, Arabia, Persia), from the earliest organized political and religious communities to the Arab conquest. Historical processes of special emphasis will include: transition to agriculture; urbanization; state and empire building; emergence of major religious traditions; migrations and cultural crosscurrents. Topics will be explored taking into account the latest textual and archaeological evidence. The course should provide historical understanding of the current ethnic, linguistic, and religious diversity in the region.

302 Classical and Early Hellenistic Greece

The political vicissitudes of the Peloponnesian and Athenian Leagues in the fifth and in the earlier fourth century before Christ and the emergent dominance of Macedon in the later fourth century. The final topic is the new cosmopolitan order presided over by the immediate successors of Alexander. Attention is paid to the concurrent cultural developments.

304 The Roman Republic and the Early Principate

The rise of Rome from Etruscan tutelage to dominance over the Mediterranean world and over Western Europe, with special attention to the internal development of the Roman government from aristocratic collective rule to the new monarchic order of the Julio-Claudian dynasty. Concurrent cultural developments are noted.

306 The World of Late Antiquity: A.D. 284-641

An examination of the Roman Empire in its final centuries, in its prolonged "Indian Summer." Reorganization of the Empire after 50 years of chaos. Accelerating Christianization of the empire beginning with the reign of Constantine. Heretical dissent and political compulsion. The Golden Age of the Fathers. Recurrent danger from the Goths: invasions in the East and in the West. Fall of the Latin West to the barbarians. The Age of Justinian. The first flowering of Byzantine art. Passing of the old order in the Greek East with the Muslim conquest of Syria and Egypt.

307 The Church in the Roman Empire to A.D. 395

Internal development of the church from the beginnings to the reign of Theodosius I; interaction of the ideology and organization of the church with the political and cultural forces dominant in the Roman world.

310 The Making of Europe: Middle Ages to 1215

Origins of the middle ages: the late Roman Empire; Germanic migrations and settlements; the Christian church. Separation of western and eastern Mediterranean areas. Carolingian revival and decline. Economies and societies of rural Europe. Twelfth century Europe: economic and urban expansion; church reform and the papacy; schools and learning; the Crusades; kingdoms and their governance.

311 The Dawn of a New Era: Europe from 1215 to 1450

Medieval Christendom in the 13th century: papacy; mendicant orders; universities; heresy; Inquisition. Growth of secular culture. The western monarchies. Political and economic crises of the 14th century. Ecclesiastical crises of the late middle ages. Recovery and renaissance in the 15th century. Europe's medieval expansion.

312 Early Modern Europe: 1450-1750

Europe from the 15th century to the 18th century studied with particular reference to the background, development and results of religious reformations.

313 Europe 1750 to 1945

An examination of the 18th century legacies of competition for empire, the Enlightenment, and the French and Industrial Revolutions with emphasis on the emerging ideologies of the 19th century including nationalism. A study of imperialism leads to the origins and outbreak of World War I. Major themes of the 20th century include the Russian Revolution and the Soviet State, the rise of Fascism, politics of the inter-war period, and the origins, outbreak, and Holocaust associated with the Second World War.

314 Modern Europe since 1945

The Cold War; post-war reconstruction; the end of colonialism; West European prosperity and reform; the German Question; de Gaulle; Thatcherism; social movements; collapse of the Soviet Empire; European integration.

322 Tudor and Stuart Britain

England from the accession of the Tudor dynasty down to the Glorious Revolution. Modernization of English society and government. The English Reformation. Anglicanism. The Elizabethan period. Puritanism. Crown and Parliament in Tudor and Early Stuart times. Civil War, Revolution and Restoration. The Revolution of 1688.

324 England, Scotland and Ireland Since 1688

An examination of the British economy, society, politics and culture since 1688. The course surveys the rise of modern Britain through such developments as the Industrial Revolution, democratic government, the empire, the two world wars and post-1945 contemporary issues.

326 English Law and Government Before the American Revolution

Anglo-Saxon foundations of kingship and law. Norman and Angevin kingship. Origins of the Common Law. Limitation of monarchy. Maturing of the Common Law. Rise of the legal profession. Crown and Parliament in Tudor times. Seventeenth-century conflicts. The Revolution Settlement.

328 The French Revolution and Napoleonic Era

A background in the ancient regime and the Enlightenment. An examination of the origins and outbreak of the Revolution of 1789 and the collapse of the absolute monarchy. An emphasis on the Second French Revolution, the Terror in theory and practice, and the Thermidorian Reaction with a survey of the Directory and Napoleonic France and Europe.

331 Eastern Europe, 1699-1914

Internal developments and external pressures on Eastern Europe from the Treaty of Karlowitz to the outbreak of World War I. Decline of the Ottoman Empire; the Eastern Question; rivalries of the great powers; national revivals; cultural and political nationalism; emergence of East European states; diplomatic crises.

333 Eastern Europe, 1914 to the Present

International developments and external pressures on Eastern Europe from World War I to the present. World War I; 20 years of independence; World War II; sovietization; Stalinism; Titoism; national communism; collapse of communism; recent cultural developments. Emphasis may shift slightly from year to year.

340 Foundations of Chinese Civilization

This course introduces students to the formation and evolution of fundamental elements of Chinese civilization to about 1800. Topics include: major Chinese thought, Confucianism, Taoism and Legalism with special emphasis on how Confucianism became a prevailing influence on Chinese government, family and society; the development of the Chinese imperial government including the Civil Service Examination; the flourishing of Buddhism in a Confucian China; Chinese written characters, calligraphy and poetry; the cosmopolitan T'ang dynasty; the T'ang-Sung commercial transformation; the Mongol rule in China; and the state and society before encountering Western expansion. This course fulfills the Human Diversity requirement in the core curriculum.

341 The History of Modern China

This course studies the impact of Imperialism on Chinese state and society and China's subsequent transformation from about 1800 to the 1980s. Topics include: early Chinese and Western contacts; the Canton System; the Opium War and unequal treaties; China's reforms and domestic tensions – the Taiping Rebellion, the Boxer Uprising and the 1911 Revolution; the May Fourth cultural iconoclasm; Chiang Kai-shek and the Nationalist government; the Sino-Japanese War; the nature of Mao Zedong's Communism; the Great Proletarian Cultural Revolution; Deng Xiaoping, revisionism and the democratic crackdown. This course fulfills the Human Diversity requirement in the core curriculum.

345 Family and Women in Chinese History

This course examines Chinese family and women prior to the early twentieth century. It studies the nature of the traditional Chinese family, the role of different women in the Confucian patriarchal family and how Confucian values affect their lives. Topics include Confucian ritual text concerning family and women; Confucian female educational text; women's marriage, life and work in the family; famous women in Chinese history; constraints on women's body and mind such as footbinding, widow chastity and concubinage; the social environment and women's own perceptions of themselves. The course is both topically and chronologically arranged to reflect changing perceptions and practices. This course fulfills the Human Diversity requirement in the core curriculum.

347 The Modernization of Taiwan, Hong Kong, and China

This course examines the unconventional patterns of economic modernization and political transformation of the Greater China Zone – Taiwan, Hong Kong and China. It studies Taiwan's transformation from a poor and embattled island in 1949 to a prosperous and democratic state. It traces Hong Kong's growth from a colonial port to a "special entity" within China, and it studies China's paradoxical development of both market economy and Socialism. It also examines the intricate political and economic relationships among Taiwan, Hong Kong and China, the issue of Taiwan independence or its unification with China and the concern over stability and balance of power in the Pacific region. This course fulfills the Human Diversity requirement in the core curriculum.

352 American Colonial History

An examination of several aspects of colonial history including the European background to colonization, and the political, economic and social development of British North American colonies to the end of the Seven Years War.

353 History of the American Revolution

A study of the American Revolutionary Period from the end of the Seven Years' War through the Constitutional Convention of 1787. Emphasis will be placed on the changes wrought by the Revolution in American society, politics and constitutional arrangements.

355 The Civil War Era

The American Civil War was a pivotal event, followed by incomplete efforts at changing the shape of the nation through Reconstruction. The causes of the war, its conduct on both sides, and the consequences of this “War of Rebellion,” including Reconstruction, form the three parts of this course.

358 Twentieth-Century United States

An intensive study of 20th-century United States domestic history, with emphasis on homefront issues during World War I, World War II, the Cold War and the Vietnam War. Issues of social, political and intellectual history are considered.

360 Early American Thought and Culture

An examination of early American culture using examples drawn from the literature, music, art and political thought of the colonies and early national experience to 1865. Major topics dealt with will include: 17th-century Puritan and Quaker thought; the impact of the Enlightenment (Franklin and Jefferson); the Romantic movement and reform; the beginnings of American literature; and the development of an American folk tradition.

361 American Thought and Culture Since the Civil War

An examination of American culture from the Civil War to the present. A major theme will be the adjustment to an urban-industrial culture as reflected in literature, music, art and social thought. Specific topics examined will include: the impact of the theory of evolution, pragmatism, the Progressive Era, the Lost Generation, and the counterculture of the 1960s.

363 Business in American Life

This course examines the many relations between business and the larger American society since the first explorations of North America. Major topics include business structure and change, the great leaders of business, the interplay between business and the government and the people, and the global context and operations of American business firms and foreign firms doing business in America. A particular emphasis will be placed on using history in business.

365 U.S. Constitutional History

The origins and evolution of the American constitutional system from the colonial period to the present. Students explore the constitutional system created by Americans, and the way in which this system and its corresponding institutions have articulated Americans’ constantly changing perception of the proper relationship between the people and their government.

366 The Catholic Church in the United States

An overview of the role of the Catholic Church from the early republic to modern times, with emphasis on the period from 1880 to the present. Topics include church and state, anti-Catholicism and nativism, the mission church, the immigrant church, the national church, the public role of Catholicism and Catholics, social issues, renewal, the charismatic movement and traditionalism. This course fulfills the Human Diversity requirement in the core curriculum.

368 Women in the United States

An overview of the changing social, cultural and political roles of women from the 17th century to the present. Topics include: family economy, industrialization of home and workplace, servitude and slavery, voluntary associations, women’s rights, the development of women’s professions, and an evaluation of various approaches to equalizing opportunity for women. This course fulfills the Human Diversity requirement in the core curriculum.

369 African-American History

A survey of the African-American experience from the beginnings of the trans-Atlantic slave trade to the present. Topics will include: African backgrounds and the origins of the slave trade; the history and development of slavery in the U.S.; the failure of post-Civil War Reconstruction and the rise of Jim Crow; the civil rights movement of the 1950s and 1960s; and contemporary issues in race relations and civil rights. Particular emphasis will be placed upon African-American contributions to American history and culture. This course fulfills the Human Diversity requirement in the core curriculum.

371 History of U.S. Foreign Policy

Historical analysis of principles and conduct of U.S. foreign policy; emergence of the United States as a world power; isolationism; interventionism; development of the cold war. Emphasis may vary from year to year.

372 The United States and Vietnam

The causes, events, personalities and consequences of U.S. involvement in the controversial Vietnam War. Background on Vietnamese culture, nationalism, colonial status under French and Japanese rule, and development of two distinct governments and societies. Role of culture, politics and military strategy in defining the U.S. commitment in Vietnam. Issues of controversy and role of media and public opinion in policy formulation. Historical models used in explaining the nature of the war. The aftermath of the war. Extensive use of documentary films and printed primary sources. This course fulfills the Human Diversity requirement in the core curriculum.

College of Arts and Sciences – Departments

376 Minnesota History

Minnesota from the French explorations of the 17th century to the present, with an examination of political, social and economic development and with intensive research in selected topics of local history.

377 The History of the Twin Cities

This course explores the development of the Twin Cities metropolitan region from pre-European contact to the present. Emphasis is on the impact that increasing urbanization of the seven-county region has had on those who have lived, worked and played here.

382 Careers in History

This course is an introduction to the field of public history. It examines the various technical skills employed by public historians including collections management, preservation and conservation of historical resources, exhibiting purposes and techniques, archival management, and research and writing in the field of public history. Students in the course also examine career opportunities in public history, ranging from historical agency management to corporate historian and professional consulting.

384 Uses of History: Decision-Making

This course examines the uses of history. Government, business and the military all can and often do use the past in evaluating the present and planning for the future. Selected case studies will be used to investigate some of these possible uses and users of history.

386 Historical Archaeology

The course offers an understanding of archaeological theories, methods, and interpretations in discovering, reconstructing, and understanding past societies in Africa, the Americas, Asia, Australia, and Europe. Archaeology primarily deals with material remains of societies and time periods that lack written documents. Historical archaeology combines the methods of archaeology with analysis of written and oral sources. Together, archaeology and history provide a critical reappraisal of historical events and cultural change around the world.

391 Development of Industrial Economies

This course examines the development of the industrialized economies of Europe, the Americas, Russia and Japan from the mid-18th century. Several selected topics will be examined in depth, such as technological change or the agricultural revolution.

398 History Internships

Students in this course will be placed in apprenticeships in private businesses, public agencies or nonprofit historical agencies and museums. The apprenticeship will require 10 hours per week on site and a weekly seminar session.

Prerequisite: one history course or consent of the instructor.

463 Seminar in European History

History seminars involve students (primarily, though not exclusively, majors and minors) with the methodological and historiographical dimensions of research in the seminar's topic. Some topics may be drawn from existing 300-level courses; when this occurs students are able to earn credit for both courses. Students in the seminar will complete and present to other members of the class a significant research project. Majors normally will offer one of their seminar papers as their senior paper.

464 Seminar in Non-Western History

History seminars involve students (primarily, though not exclusively, majors and minors) with the methodological and historiographical dimensions of research in the seminar's topic. Some topics may be drawn from existing 300-level courses; when this occurs students are able to earn credit for both courses. Students in the seminar will complete and present to other members of the class a significant research project. Majors normally will offer one of their seminar papers as their senior paper.

465 Seminar in U.S. History

History seminars involve students (primarily, though not exclusively, majors and minors) with the methodological and historiographical dimensions of research in the seminar's topic. Some topics may be drawn from existing 300-level courses; when this occurs students are able to earn credit for both courses. Students in the seminar will complete and present to other members of the class a significant research project. Majors normally will offer one of their seminar papers as their senior paper.

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 **Research** 2 credits
 493, 494 **Research**
 See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 **Individual Study** 2 credits
 497, 498 **Individual Study**
 See the description of these courses at the beginning of the “Curricula” section of this catalog.

Journalism and Mass Communication (JOUR)

Neuzil (chair), Barger, Boros, Bunton, Christy, Craig, Gillies, O'Donnell, Steele

Journalism and mass media education equips students with the knowledge needed to understand the function of mass media and with the skills needed to work for the mass media. Students learn to gather and assess information; to write for, edit and design publications; to write and produce for broadcasting; and to use and take photographs. Students also acquire an understanding of the cultural role of mass media, as well as an appreciation of the social responsibility of the media.

Coupled with a firm foundation in the liberal arts, the department's courses provide a sound background in the ethical, legal, philosophical, political, social and historical principles that will enable students to interpret human affairs and communicate intelligently and effectively through the various forms of mass communication.

Courses in journalism and mass communication prepare students for a variety of careers with newspapers, magazines and other publications, with public relations and advertising agencies, with television and radio stations, with video companies, and with corporate and government communication departments.

All students take four core courses and follow one of five major tracks: Print Journalism, Broadcast Journalism, Public Relations, Advertising, and Media Studies. A student may also minor in one of those areas, or in Visual Communication.

Students graduating with a major in journalism and mass communication will be able to produce mass media messages clearly, accurately, and thoughtfully. They will understand how ethical principles apply to mass media messages and will realize that the mass media have a social responsibility to serve the common good, understanding that with first amendment freedoms come obligations.

Much of the work in the department's skills courses is done in Macintosh computer labs. In addition, students who work on the school newspaper do all the writing, editing and design work on Macintosh computers. Other on-the-job training may be obtained in internships.

The department sponsors chapters of the Society of Professional Journalists, the Public Relations Student Society of America (PRSSA) and the American Advertising Federation.

Major in Journalism and Mass Communication

All journalism and mass communication majors must take these four courses:

- 100 Mass Communication and Society
- 105 Visual Communication
- 110 Media Writing and Information Gathering
- 480 Media Ethics

Plus:

One of the concentrations below

Allied requirements

All majors must also take a group of courses outside journalism and mass communication. These allied requirements can be fulfilled in various ways.

A student may take a minor, double major, or a mixture of six beginning, intermediate and advanced courses (24 credits) from two or more related disciplines.

The student has considerable freedom and flexibility in selecting courses or a minor to fulfill this requirement, but the department does have some recommendations based on the student's interests. Before choosing an option, students should consult with the department chair and the academic adviser.

Concentration in Print Journalism

- 210 Reporting for Print Media
- 211 Editing
- 410 Advanced Reporting

Plus one of:

- 220 Design Concepts of Communication
- 225 Writing and Designing for the Web
- 311 Persuasion in Writing
- 370 Magazine Writing

College of Arts and Sciences – Departments

Plus one of:

- 301 Journalism History
- 302 Literary Journalism
- 304 Media Law
- 305 Gender, Race and Mass Media
- 402 Society, Culture and the Media
- 404 Media Structure and Power

Concentration in Broadcast Journalism

- COMM 160 Electronic Media Production
- COMM 270 Videography: Television Production in the Field
- JOUR 260 Broadcast Reporting
- JOUR 460 Advanced Broadcast Reporting

Plus one of:

- COMM 365 The Documentary in American Television
- COMM 465 Current Issues in Electronic Media
- JOUR 301 Journalism History
- JOUR 303 Newsroom Management
- JOUR 304 Media Law
- JOUR 305 Gender, Race and Mass Media
- JOUR 402 Society, Culture and the Media
- JOUR 404 Media Structure and Power
- JOUR 410 Advanced Reporting

Concentration in Public Relations

- 250 Public Relations Principles
- 300 Mass Communication Research
- 350 Public Relations Writing
- 450 Advanced Public Relations

Plus one of:

- 211 Editing
- 220 Design Concepts
- 225 Writing and Designing for the Web
- 305 Gender, Race and Mass Media
- 311 Persuasion in Writing
- 402 Society, Culture and the Media
- 404 Media Structure and Power

Concentration in Advertising

- 240 Advertising Principles
- 445 Advertising Campaign Strategies

Plus one of the following concentrations:

Creative

- 340 Advertising Copywriting

Plus two of:

- 220 Design Concepts of Communication
- 225 Writing and Designing for the Web
- 420 Graphic Design Studio
- 440 Advanced Advertising Copywriting

Account Services

Three of:

- 300 Mass Communication Research
 - 340 Advertising Copywriting
 - 345 Media Planning
- One course in Marketing

Concentration in Media Studies

The Media Studies major provides students the opportunity to closely examine the social and cultural effects of mass media. The track is particularly suited for those more interested in graduate school or law school than in careers in the mass media.

- 300 Mass Communication Research
- 305 Gender, Race and Mass Media
- 402 Society, Culture and the Media
- 404 Media Structure and Power

Plus one of:

- 301 Journalism History
- 302 Literary Journalism
- 304 Media Law

Minor in Print Journalism

- 100 Mass Communication and Society
- 110 Media Writing and Information Gathering
- 210 Reporting for Print Media
- 211 Editing
- 410 Advanced Reporting

Minor in Broadcast Journalism

- COMM 160 Electronic Media Production
- JOUR 100 Contemporary Mass Communication
- JOUR 110 Media Writing and Information Gathering
- JOUR 260 Broadcast Reporting
- JOUR 460 Advanced Broadcast Reporting

Minor in Public Relations

- 100 Mass Communication and Society
- 110 Media Writing and Information Gathering
- 250 Public Relations Principles
- 350 Public Relations Writing
- 450 Advanced Public Relations

Minor in Advertising

- 100 Mass Communication and Society
- 110 Media Writing and Information Gathering
- 240 Advertising Principles

Plus one of:

- 220 Design Concepts of Communication
- 340 Advertising Copywriting
- 345 Media Planning

Plus one of:

- 420 Graphic Design Studio
- 440 Advanced Advertising Copywriting
- 445 Advertising Campaign Strategies

Minor in Visual Communication

- 100 Mass Communication and Society
- 105 Visual Communication

Plus two of:

- 220 Design Concepts of Communication
- 225 Writing and Designing for the Web
- 230 Photojournalism

Plus one of:

- 330 Advanced Photojournalism
- 420 Graphic Design Studio

Minor in Media Studies

- 100 Mass Communication and Society
- 300 Mass Communication Research
- 402 Society, Culture and the Media
- 404 Media Structure and Power

Plus one of:

- 301 Journalism History
- 302 Literary Journalism
- 304 Media Law
- 305 Gender, Race and Mass Media
- 480 Media Ethics

College of Arts and Sciences – Departments

100 Mass Communication and Society

Examines the nature of mass communication and the contributions of other disciplines to a knowledge of the media. Concentrates on newspapers, radio, television, magazines, and motion pictures for comparative functions and their influence on society.

105 Visual Communication

Introduction to the history, theory and principles of communicating visually through art, illustration, photography, design, typography, film, video and other visual forms.

110 Media Writing and Information Gathering

Basic techniques for gathering information and presenting it in writing for the various mass media. Strategies for gathering and assessing information, including use of databases, public documents, libraries and interviews. Writing news and feature articles, news releases, and newsletter, broadcast and ad copy.

Prerequisite: 100

210 Reporting for Print Media

This course concentrates on print media reporting, emphasizing interviewing, sources and honing news judgment. Development of observational skills, story organization and clear writing. Students write complex news stories, and spot news and develop several major writing projects, including magazine articles.

Prerequisite: 110

211 Editing

Preparation of copy for publication; evaluation of news; headline writing; news display, including typography; picture editing; and editing magazines.

Prerequisite: 110

215 Journalistic Writing in the Workplace

The course focuses on the fundamentals of gathering and writing information through observation, interviews and research. The emphasis is on clear, concise and straightforward writing of news releases, reports, letters, office memoranda and other kinds of writing in a business setting. In addition, the course includes rewriting and editing of the student's own and others' work and preparation of copy for publication. For non-majors only.

220 Design Concepts of Communication

This course has been developed to provide students with an elementary understanding of graphic design elements and principles. Applied projects in typography and publication layout will be completed via the Macintosh. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 105 or ARTH 351 or ARTH 352 or ARTH 356 or ARTH 361 or permission of department chair

225 Writing and Designing for the Web

This course teaches students HTML and Web-page production. The goal is to help students develop strategies for writing, editing, designing and publishing a Website that meets professional standards. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 105 or ARTH 351 or ARTH 352 or ARTH 356 or ARTH 361

230 Photojournalism

An entry-level course on still photography as used in the mass media. Imparts mechanical skills to practice photography, creates an awareness of the aesthetics involved and introduces principles of communicating via photojournalism. Students supply own camera. Lecture and laboratory.

Prerequisite: 105 or permission of department chair

240 Advertising Principles

An attitudinal approach to the principles and practices of advertising in today's society. Correlation between advertising and sales, marketing, economics and research. Newspaper, magazines, radio, television and graphics as advertising channels.

Prerequisite: 100 or permission of instructor

250 Public Relations Principles

Public Relations in the modern world of communication, marketing, business and institutions. A case history approach to public relations as a career and how public relations fits into the total picture of communication.

Prerequisite: 100 or permission of instructor

260 Broadcast Reporting

The nature and execution of broadcast news, including the preparation and writing of news and features for broadcast, with special emphasis on writing and reporting for television.

Prerequisite: 110

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Mass Communication Research

This course examines theories and methodologies underlying mass communication research, including quantitative and qualitative approaches. Among the areas covered: public opinion research, content analysis, participant observation, historical and legal methods, and discourse analysis. Students will be expected to design and conduct a mass communication research project.

Prerequisite: 110 or permission of instructor

301 Journalism History

European background of the American press system; development of American journalism; historical relationship of the news media to political, social and economic trends; the news media as a cultural institution; rise of the broadcast media.

Prerequisite: Juniors and seniors only

302 Literary Journalism

A look at journalistic writing style as a literary prose form, with emphasis upon late 19th- and 20th-century American writing, and upon the tradition of literary journalism. Newspaper and magazine articles from both centuries and book-length works from the past 50 years will be read and discussed. Students will have the option of writing a research essay or a literary journalistic article for the final project.

Prerequisite: Juniors and seniors only

303 Newsroom Management

Examines the general economic realities of the media business, investigates the nature of relationships within the newsroom, explores priorities and goal-setting in the newsroom, reviews techniques and methods of managing and encouraging employees. The course also identifies the moral and legal dilemmas and guiding principles of newsroom managers.

Prerequisite: Seniors only or permission of department chair

304 Media Law

Freedom and responsibility of the news media viewed as public institutions; constitutional and legal developments with emphasis upon landmark court decisions; interpretation of current areas of tension.

Prerequisite: Juniors and seniors only

305 Gender, Race and Mass Media

This course examines two broad ways in which issues of gender and race intersect with U.S. mass media: employment in mass media and depiction in mass media. In examining media employment, the course considers questions such as the decision-making status of women and minorities in media organizations. In examining media depictions, the course examines such questions as how media depictions may stereotype and trivialize women and minorities, and what social and cultural values are reflected by these media portrayals. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 100 or permission of instructor

311 Persuasion in Writing

Effective writing based upon principles of rhetoric. Student writing directed to the execution of editorials, advertising copy and promotion.

Prerequisites: Juniors and seniors only; 110 or permission of instructor

316 Environmental Reporting

This course focuses on the gathering, writing and understanding of news about the environment. Students will examine what makes (and what has made) environmental news historically; newsgathering techniques like interviewing and researching are stressed; and an emphasis on clear, crisp writing is a given. Students also will study the effect of the mass media on the environmental movement and environmental topics. Journalistic standards of ethics and other conventions, like Associated Press style, will be expected.

Prerequisite: 110 or permission of instructor

330 Advanced Photojournalism

A realistic journalistic application of color and black and white 35 mm photography. Emphasis on original conceptualization and timely execution in the following subject areas: news, sports, feature, fashion and commercial illustrations using print and/or multi-media presentations.

Prerequisite: 230

340 Advertising Copywriting

The acquisition of advertising copywriting skills as applied to the creative advertising process. The dovetailing of creative copy with the marketing and media strategies. Execution of advertising copy.

Prerequisites: 110 and 240

345 Media Planning

Students will develop an understanding of the use of mass media as advertising vehicles, the language of media planning, key media information sources, and how to develop a media plan.

Prerequisites: 110 and 240

College of Arts and Sciences – Departments

350 Public Relations Writing

This course provides practical experience in public relations writing including: news releases, position statements, brochure writing, features, query letters and a variety of other public relations writing forms. The emphasis is on weekly assignments which are critiqued by the instructor and discussed in class. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: 110 and 250

370 Magazine Writing

Explores the nature of writing for magazines as a staff writer or free-lance writer. Students will write service articles, profiles, human interest pieces and in-depth issue articles common to both commercial and trade magazines.

Prerequisites: Juniors and seniors only; 110 or permission of instructor

402 Society, Culture and the Media

Society, Culture and the Media examines the role media play in social and cultural formations. The course looks beyond the media as transmitters of information to their broadest social and cultural effects. Students study media as agents of enlightened social modernism, as political and economic institutions, as purveyors of popular culture, and as aspects of cultural and subcultural rituals. History, political economy, critical studies, cultural anthropology, semiotics and sociology are among the areas from which approaches for studying the media are considered in the course.

Prerequisite: 300 or permission of instructor

404 Media Structure and Power

Examines recent changes in mass media structures. Readings focus on how changes in ownership, media regulation and new technology have affected media-organizations and their performance. Subjects and issues covered include: media ownership trends, including internationalization and their effect on content; media monopolies; the effects of new media technology; the effects of advertising on news; media choice in society; the media's role in the political system; and the increasing globalization of mass media.

Prerequisite: 300 or permission of instructor

410 Advanced Reporting

Refinement of reportorial and writing skills. Advanced work in interviewing, investigating, and use of public documents. Focuses on the development of news stories. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: 210 and permission of department chair

420 Graphic Design Studio

Graphic Design Studio is an advanced graphic design course. Students study the history of graphic design and typography, the elements of fine typography, and produce a portfolio of graphic designs.

Prerequisite: 220 and permission of instructor

440 Advanced Advertising Copywriting

This course is highly selective and designed for those wishing to pursue advertising copywriting as a career. It builds on 340. It develops strengths in the team concept of creative advertising, refines skills used in evaluating the effectiveness of messages and strategies used in various media, and develops greater awareness of production skills used in copywriting. Students will develop a major, multimedia campaign and have it evaluated by advertising professionals.

Prerequisites: 340 and permission of department chair

445 Advertising Campaign Strategies

This course will study the role of the advertising campaign and media plan as key components in the analysis and planning of broad marketing strategies for various products. Students are involved in determining budgets, the role of advertising vs. sales promotion, diagnosing current advertising campaigns, and the theories and principles upon which they are based.

Prerequisite: 340 or 345 or 420 or permission of instructor

450 Advanced Public Relations

Emphasis upon public relations projects in which students engage in problem solving. The focus is on strategy, planning and public relations communications techniques – magazine article, position paper, news release, press kit, and other types of public relations writing.

Prerequisite: 350

460 Advanced Broadcast Reporting

This course builds on 260, Broadcast Reporting. It further develops the ability to gather information through interviews, background research, and use of public documents and reports. The entire broadcast story process is emphasized: story selection, reporting, taping, editing and writing.

Prerequisite: 260

475, 476	Experiential Learning	2 credits
477, 478	Experiential Learning	
See the description of these courses at the beginning of the “Curricula” section of this catalog.		
480	Media Ethics	
Communication study as ordered by moral and legal principles and their application to current problems of the major media. Individual term project.		
Prerequisites: graduating seniors only and permission of instructor		
483, 484	Seminar	2 credits
485, 486	Seminar	
See the description of these courses at the beginning of the “Curricula” section of this catalog.		
487, 488	Topics	2 credits
489, 490	Topics	
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html .		
491, 492	Research	2 credits
493, 494	Research	
See the description of these courses at the beginning of the “Curricula” section of this catalog.		
495, 496	Individual Study	2 credits
497, 498	Individual Study	
See the description of these courses at the beginning of the “Curricula” section of this catalog.		

Mathematics (MATH)

Kemper (chair), Belik, Dayananda, Dokken, Kroschel, McLean, Rezac, Scholz, Shakiban, Shemyakin, Shepard-Loe, Shvartsman, Turcajova, Van Fleet, Yang, Youn; Komro

The Department of Mathematics offers major programs that can satisfy a variety of student interests and careers. Majors in mathematics can prepare themselves for graduate study in mathematics or related areas, for the teaching of mathematics at the secondary school level, for professional school in law or health science, or for the application of mathematics and statistics in science, business, industry and government.

Students majoring in mathematics are encouraged to use elective courses to broaden their background in mathematics or in a related area of special interest. Coursework in biology, chemistry, economics, engineering, finance, geology, physics, psychology and quantitative methods/computer science combines well with a major in mathematics.

Students graduating with a major in mathematics will be able to demonstrate an understanding of the fundamental notions of mathematics, including rigorous proof. They will be able to model and solve real-world problems arising in business and industry. They will be able to effectively communicate, both orally and in writing, mathematical concepts to their peers and to an audience of non-majors. They will be able to learn and apply mathematics on their own through independent study, research and participation in non-class-related lectures.

In all major programs, a student must successfully complete at least 16 credits in mathematics courses numbered 300 and above at the University of St. Thomas.

In addition to the mathematics programs described below, the department has programs to prepare students for careers in actuarial science (see Interdisciplinary Programs) or teacher licensure. A minor in mathematics is available to support majors in many other departments.

Students should see the chair of the Department of Mathematics for advice in selecting courses for a particular purpose. The department offers a number of courses for non-majors to fulfill the mathematics portion of the core curriculum.

Center for Applied Mathematics

Within the Department of Mathematics, the Center for Applied Mathematics provides opportunities for students to work on significant mathematical problems of current interest to business, industry, and government.

Major in Mathematics

- 113 Calculus I (or 108 and 109)
- 114 Calculus II
- 200 Multi-Variable Calculus
- 210 Linear Algebra and Differential Equations
- 317 Real Analysis

Plus one of the mathematics programs below:

Allied requirement for all programs

- QMCS 230 Software Design Using the JAVA Language

College of Arts and Sciences – Departments

Pure Mathematics Program

One of:

- 301 Abstract Algebra I
- 310 Modern Linear Algebra

Plus one of:

- 302 Abstract Algebra II
- 385 Mathematical Methods of Numerical Analysis
- 400 Dynamical Systems and Chaos
- 419 Complex Variables
- 420 Topology

Plus:

eight credits of courses 300 or higher not already taken

Plus one of the following sequences of applications of mathematics:

- ACSC 264 and 464
- ACSC 351 and 352
- ECON 351 and 352 and 418
- MATH 303 and 333
- MATH 313 and 314
- MATH 315 and 316
- MATH 325 and 450
- PHYS 111 and 112
- QMCS 410 and 411

Applied Mathematics Program

- 300 Differential Equations and Applied Mathematics
- 310 Modern Linear Algebra
- 315 Applied Mathematics and Modeling I
- 316 Applied Mathematics and Modeling II

Plus one of:

- 303 Statistics for the Applied Sciences
- 313 Probability

Plus one of:

- 385 Mathematical Methods of Numerical Analysis
- 419 Complex Variables

Statistics Program

- 310 Modern Linear Algebra
- 313 Probability
- 314 Mathematical Statistics
- 333 Applied Statistical Methods: Regression, Time Series, Forecasting
- 385 Mathematical Methods of Numerical Analysis

Plus:

- QMCS 320 Statistics II

Teacher Licensure

Elementary Education with a Co-major in Science and Mathematics for Elementary Education

Elementary Education with a Specialty in Mathematics (5-8)

Major in Mathematics with a Co-major in Secondary Education (5-12)

See School of Education Department of Teacher Education

Minor in Mathematics

- 113 Calculus I (or 108-109)
- 114 Calculus II

Plus at least one of:

- 200 Multi-Variable Calculus
- 210 Linear Algebra and Differential Equations

Plus:

A minimum of twelve additional credits in courses numbered above 200 (or approved by the department chair)
A student minoring in mathematics must successfully complete a minimum of 8 credits in mathematics numbered 200 and above at St. Thomas.

005 Basic Math Skills

0 credit

This review of arithmetic and elementary algebra is designed to prepare the student to study MATH 100 (Mathematical Sampler) or MATH 101 (Finite Mathematics). The course is designed as a self-directed study experience. The student will have access to textbook explanations and exercises, videos, CD-ROMs and tutors to gain mastery of the material. Appropriate testing is done with the tutors in the Mathematics Resource Center (MaRC). A nominal registration fee is charged.

100 Mathematical Sampler

This survey of basic mathematical concepts includes both modern and historical perspectives. Emphasis is on the development and appreciation of mathematical ideas and their relationship to other disciplines. Topics include, among others: mathematical problem-solving, set theory, graph theory, an introduction to randomness, counting and probability, statistics and data exploration, measurement and symmetry, and recursion. This course satisfies the core curriculum requirement for a core-area course in mathematics and is also recommended as the first course in mathematics for prospective elementary teachers.

Prerequisite: A satisfactory score on the mathematics placement exam

101 Finite Mathematics

Elementary set theory, linear equations and matrices, linear programming, finite probability, applications primarily in business and the social sciences.

Prerequisite: A satisfactory score on the mathematics placement examination

105 Precalculus (108, 109)

The real numbers; basic algebra; analytical treatment of the elementary functions emphasizing the exponential, logarithmic and trigonometric functions and their graphs. (This course is intended as preparation for 113 and does not fulfill a general graduation requirement.)

Prerequisite: A satisfactory score on the mathematics placement examination

108 Calculus With Review I (105, 111, 113)

The first course of a two-course sequence designed to integrate introductory calculus material with the algebraic and trigonometric topics necessary to support that study. Review topics include: number systems, basic algebra, functions, the Cartesian coordinate system, graphing and inverse functions. Calculus topics include limits, continuity, derivatives for algebraic functions, applications of derivatives and more graphing. This course is intended only for students planning to take 109 and does not satisfy the mathematics requirement in the core curriculum. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: A satisfactory score on the mathematics placement examination

109 Calculus With Review II (105, 111, 113)

The second course of a two-course sequence designed to integrate introductory calculus material with the algebraic and trigonometric topics necessary to support that study. Review topics include: exponential and logarithmic functions, trigonometric functions and their inverses and associated graphs. Calculus topics include: derivatives of the transcendental functions, applications of those derivatives and an introduction to integration. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: a grade of C- or better in 108

111 Calculus for Business and Social Science (108, 109, 113)

An introductory course in calculus with motivation and examples drawn from business and the social sciences whenever possible. Does not include the calculus of trigonometric functions.

Prerequisite: a grade of C- or above in 105 or a satisfactory score on the mathematics placement examination. (Four years of high school mathematics, including college algebra, also are recommended as background for this course.) Students intending to continue in calculus are strongly advised to take 113.

113 Calculus I (108, 109, 111)

An introductory course in calculus: limits; derivatives and integrals of algebraic, exponential, logarithmic and trigonometric functions of one real variable; applications primarily in the natural sciences. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: a grade of C- or above in 105 or a satisfactory score on the mathematics placement examination. (Four years of high school mathematics, including college algebra and trigonometry, also are recommended as background for this course.)

114 Calculus II

Techniques of integration; applications of integration; infinite series; L'Hospital's rule; improper integrals. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: a grade of C- or above in 113 or 109 (or 111, with permission of the department chair)

121 Structures of Elementary Mathematics

An examination of the mathematical underpinnings of the elementary school curriculum with an emphasis on the understanding of mathematical concepts. Topics will include foundations of integer and rational arithmetic, notions of place-value and base, number sense and estimation, functions and their applications, Euclidean geom-

College of Arts and Sciences – Departments

etry, and mathematical problem-solving. This course is recommended as a second course in mathematics for prospective elementary teachers, and also satisfies the core curriculum requirement for the third course in the Natural Sciences and Mathematical and Quantitative reasoning requirement in the core curriculum.

Prerequisite: 100 and an EDUC course, or permission of the instructor

128 Introduction to Discrete Mathematics

A survey of basic discrete mathematical concepts. Topics include: Boolean algebra, logic, analysis of algorithms, mathematical induction and matrices. Focus on applications to computer science.

Prerequisite: 111 or 113 or 109 (may be taken concurrently with consent of the instructor)

200 Multi-Variable Calculus

Vector algebra in two and three dimensions, partial derivatives, multiple integrals, line integrals, surface integrals, Green's Theorem, Stoke's Theorem, divergence theorem. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: a grade of C- or higher in 114

210 Linear Algebra and Differential Equations

The course will introduce the student to linear algebra, differential equations and applications of linear algebra to differential equations. Topics to be covered will include: vector spaces, matrices, determinants, eigenvalues and eigenvectors, linear transformations, systems of ordinary differential equations, and applications to science and engineering. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: a grade of C- or higher in 114

259 Elements of Geometry and Statistics

Intended for elementary education majors who plan a specialization in mathematics for grades 5-8. Includes intermediate concepts in geometry and statistics essential for a middle school teacher of mathematics. Topics will include: axiomatic systems of geometry with emphasis on Books I and VI of Euclid's Elements; an introduction to non-Euclidean geometry; geometric and inductive reasoning, with applications; introduction to geometric probability and the geometric display of data; organization and analysis of data sets; statistical support of decisions, including applications in education; prediction; the role of randomness in both formal and empirical probability.

Prerequisites: 100 and 121

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Differential Equations and Applied Mathematics

Linear ordinary differential equations and systems; standard methods of solution; Laplace transforms; series solution; introduction to nonlinear differential equations and dynamical systems. Models and applications in the physical, biological, behavioral, and social sciences.

Prerequisites: 200 and 210 or permission of the department chair

301 Abstract Algebra I

Properties of sets, relations and mappings; introduction to groups, rings and fields. Offered in fall semester.

Prerequisite: 210

302 Abstract Algebra II

Topics in modern algebra with applications. Includes material selected from the theory of groups, rings, and fields; linear algebra; Boolean algebra and discrete structures.

Prerequisite: 301

303 Statistics for the Applied Sciences (313, 314)

Probability, Estimation, Hypothesis Testing, Analysis of Variance, Regression Analysis, Topics selected from Experimental Design, Statistical Process Control, Non-Parametric Methods, Factor Analysis as time permits. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 200

310 Modern Linear Algebra

Linear algebra and applications. Topics include linear equations, matrix theory, linear spaces, linear mappings, canonical forms, and inner product spaces. Applications chosen from such topics as numerical linear algebra, least squares, hermitian and positive definite matrices, and electrical networks.

Prerequisite: 210

313 Probability (303)

Probability theory in discrete and continuous sample spaces; random variables and distribution functions; moments; the moment-generating function; functions of random variables; law of large numbers; central limit theorem. Offered in spring semester.

Prerequisites: 200 (may be taken concurrently with consent of instructor)

314 Mathematical Statistics (303)

Populations and random sampling; sampling distributions. Theory of statistical estimation; criteria and methods of point and interval estimation. Theory of testing statistical hypotheses; non-parametric methods. Offered in fall semester.

Prerequisite: 210 and 313

315 Applied Mathematics and Modeling I

This is a topics course in applied mathematics offered through the Center for Applied Mathematics (CAM). Course content will be drawn from areas of applied mathematics, including: mathematical analysis of data, data-base theory, discrete and continuous modeling, simulation, applied statistics, coding theory, expert systems, neural network analysis, signal processing, optimization theory, and wavelet theory. Students will work in teams on projects of current interest in applied mathematics.

Prerequisites: 200 and 210, or permission of instructor

316 Applied Mathematics and Modeling II

This is a second topics course in applied mathematics offered through the Center for Applied Mathematics (CAM). It does not necessarily require 315 as a prerequisite. Course content will be drawn from the topics listed under MATH 315. Students will work in teams on projects of current interest in applied mathematics.

Prerequisites: 114 and 210, or permission of instructor

317 Real Analysis

Topology of the real numbers. Functions of one real variable. Rigorous development of continuity and uniform continuity; differentiability; uniform convergence. Sequences and series. Offered fall semester.

Prerequisites: 200 and 210

325 Geometry

Axioms for geometries; geometrical transformations and their invariants; non-Euclidean geometries; additional topics. Offered in spring semester.

Prerequisites: 200 and 210 or permission of the instructor

333 Applied Statistical Methods: Regression, Time Series, Forecasting

Regression and exponential smoothing methods; Stochastic Time Series: auto- and cross-correlation, autoregressive moving average models; application to forecasting.

Prerequisites: 303 or 314 or permission of instructor

385 Mathematical Methods of Numerical Analysis

Rigorous mathematical treatment of standard topics in numerical analysis including solutions to linear and non-linear systems, interpolation, numerical integration and differentiation, differential equations, and iterative techniques in matrix algebra. This course provides a theoretical foundation for the numerical solution of mathematical problems. Offered in spring semester.

Prerequisites: 210 and QMCS 230 or permission of instructor

400 Dynamical Systems and Chaos

An introduction to discrete and continuous dynamical systems and applications with topics including: iterated mappings in one and two dimensions, phase-plane theory, nonlinear differential equations, and chaos. Additional topics will be chosen from among bifurcations, stability, attractors, Lyapunov functions, Julia sets and Mandelbrot sets.

Prerequisite: 210 or 317 or permission of instructor

419 Complex Variables

Analytic functions; theorems of Cauchy; Laurent series; residue calculus; entire and meromorphic functions; conformal mapping.

Prerequisite: 317

420 Topology

Properties of Euclidean spaces; general spaces; mappings; separation properties; connectedness; compactness; metrizable spaces.

Prerequisite: 317

450 Advanced Mathematics: Exploration and Exposition

This course gives students a sense of the history, applicability and currency of one or more mathematical ideas and serves as a capstone mathematics course for students seeking to teach secondary mathematics. In the course, students make substantial oral and written presentations on topics carefully selected to have a strong relationship to secondary school mathematics. Topics are included from discrete mathematics and from continuous mathematics. Students use publications, e.g. The American Mathematical Monthly, Mathematics Magazine, Mathematical Intelligencer and Scientific American, as well as standard texts, as sources for their work.

Prerequisite: one of 301 or 317 with concurrent registration in the other; senior or graduate standing and declared intent to complete secondary licensure in mathematics. Other students having the course prerequisites may be admitted, but it is their responsibility to determine the relationship of this course to their program of study.

College of Arts and Sciences – Departments

475, 476 Experiential Learning	20 credits
477, 478 Experiential Learning	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	
483, 484 Seminar	2 credits
485, 486 Seminar	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	
487, 488 Topics	2 credits
489, 490 Topics	
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html .	
491, 492 Research	2 credits
493, 494 Research	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	
495, 496 Individual Study	2 credits
497, 498 Individual Study	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	

Modern and Classical Languages

Sauter (COMM), (acting chair); **French** – Bibbee, Dziekowicz (coordinator), Shams; Hartlaub, Pelletier-Skoog; **German** – Fullard (coordinator), Schons; **Spanish** – Badessich (coordinator), Chavarría-Mendoza, Córdoba Jr., Raschio, Sandmann, Scham, Tar; Johnston, Martín-Morán, Milstein, Pelletier-Skoog; Classics – Killings; Preus; Irish Gaelic – Moore; Japanese – Heberlein; Russian – Shambour

The Department of Modern and Classical Languages offers major and minor concentrations in classical languages, French, German, Latin and Spanish, with additional minors in Greek and Japanese. A Russian major and minor and a Japanese major are available through the Associated Colleges of the Twin Cities. In cooperation with the ACTC, courses also are available in Chinese and Italian.

The department also offers major concentrations in language with business (international business – language intensive) and language with English (literary studies).

Students graduating with a major in Classical languages will have acquired a working vocabulary and a knowledge of the structures of Greek and/or Latin adequate to read the works of Greek and/or Latin authors. They will have gained experience in reading major authors in the languages, and will perceive the relationship between the authors and their cultural context.

Students graduating with a major in French will have a solid understanding of the French language and the ability to use the language effectively in speaking, comprehension, reading, and writing. They will have developed the skills necessary for the study, analysis, and interpretation of a wide range of cultural texts, including literary texts.

Students graduating with a major in German will have acquired a command of the German language for use in academic and/or professional life. They will have become acquainted with the culture of the German-speaking countries and with the role these countries and their culture have historically played and continue to play in the world today.

Students graduating with a major in international business – language intensive will be able to demonstrate a command of the appropriate language for use in business and professional life, will understand the historical and cultural development of the countries of that language, and will understand the business practices and economic structure of those countries.

Students graduating with a major in Spanish will have a solid understanding of the Spanish language and the ability to use the language effectively in speaking, comprehension, reading, and writing. They will have developed the skills necessary for the study, analysis, and interpretation of a wide range of cultural texts, including literary texts.

The department also offers courses for the non-major to fulfill the Language and Culture component of the core curriculum.

Teacher Licensure

Elementary Education with a Specialty in World Languages and Cultures (K-8)

World Languages and Cultures (K-12) with a Major in French, German, or Spanish and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Classical Languages

This major engages students in the study of the languages, literatures and cultures of two ancient cultures that have left a lasting impact upon the modern world: classical Greece and Rome. This major prepares students to read both languages, introduces significant works of essential authors, and provides analytical tools for examining the relationship between language and the unique identity of different cultures.

Major in Classical Languages

A minimum proficiency in each language at the 211-level for a total of 28 credits in Latin and Greek.

Plus:

Twelve additional credits in Latin or Greek, ancient history, ancient philosophy, classical art, mythology, or classical literature in translation.

Minor in Classical Languages

Twelve credits in Latin

Twelve credits in Greek

Latin (LATN)

The courses in Latin are offered with the following objectives:

1. To give students the necessary grasp of the language to read the works of Latin authors, and to read them with some degree of appreciation
2. To acquaint students with the unique character of Roman culture and its contribution to succeeding ages
3. To improve students' understanding of the structures of language.

These objectives are pursued with a view to the needs of students who are preparing to do graduate work in the field of Latin, who are preparing to teach Latin in secondary schools, or who are seeking a background for the study of theology, philosophy, history, law, science, English or the Romance languages.

The major engages students in the study of the language, literature and culture of ancient Rome. It prepares students to read Latin, introduces significant works of essential authors, and provides analytical tools for examining the relationship between language and the unique identity of different cultures.

Major in Latin

Four years of high school Latin or the completion of 212 or 255

Plus:

Twenty-eight credits in Latin numbered above 255

Plus:

Eight additional credits in ancient history, ancient philosophy, classical art, mythology or classical literature in translation.

Minor in Latin

Completion of twelve credits above 211

Plus:

Eight additional credits in ancient history, ancient philosophy, classical art, mythology or classical literature in translation.

111 Elementary Latin I

A beginning course, with emphasis on reading Latin prose in passages of increasing complexity. Introduction to essential forms, syntax and vocabulary. Practice in reading Latin aloud and composing simple sentences. Exploration of the social and cultural context of the Latin language.

112 Elementary Latin II

Continuation of 111. More graded readings, further mastery of forms, syntax and vocabulary.

Prerequisite: 111 or equivalent

211 Intermediate Latin I

Readings of narrative prose. Review and further study of grammar.

Prerequisite: 112 or equivalent

212 Intermediate Latin II

Selections from Vergil's epic poem, the Aeneid.

Prerequisite: 211 or equivalent

255 Latin Readings in the Old and New Testament

Readings from St. Jerome's Latin translation of the Old and New Testament.

Prerequisite: 211 or equivalent

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

311 Latin Composition

A thorough review of Latin grammar. Practice in the writing of continuous Latin prose.

Prerequisite: 212 or 255 or equivalent

College of Arts and Sciences – Departments

325 Catullus and Horace

Selections from the lyric poetry of Catullus and Horace. Poetic sources, influence, the principal lyric meters.
Prerequisite: 212 or 255 or equivalent

360 Philosophy in Latin Texts

A survey of various kinds of treatises principally from the works of St. Thomas Aquinas for students who want to acquire a facility in reading philosophical and theological texts in medieval Latin.
Prerequisites: 211 and three courses in PHIL or permission of the instructor.

421 Vergil

Reading of extensive selections from the Aeneid in Latin and of the entire poem in English translation. Discussion of the sources, themes and techniques of the epic.
Prerequisite: 212 or 255 or equivalent

430 Caesar and Cicero

Extensive reading of the Gallic War and of the Orations of Cicero. A study of the character and career of each author.
Prerequisite: 212 or 255 or equivalent

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Greek (GREK)

Through courses in Greek, the student learns to read classical Greek, and at the intermediate level begins reading selections from ancient Greek authors. In addition to facility in reading classical Greek, the student gains an awareness of the unique character of classical Greek culture and its contribution to succeeding ages.

Minor in Greek

Sixteen credits in Greek language

Plus:

Eight additional credits in Greek, Latin, ancient history, ancient philosophy, classical art, mythology or classical literature in translation.

111 Elementary Greek I

A beginning course, with emphasis on reading classical Greek prose in passages of increasing complexity. Introduction to essential forms, syntax and vocabulary. Practice in reading Greek aloud and composing simple sentences. Exploration of the social and cultural context of the Greek language.

112 Elementary Greek II

Continuation of 111.

Prerequisite: 111

211 Intermediate Greek I

Selected readings in Greek prose; review of grammar.

Prerequisite: 112 or equivalent

212 Intermediate Greek II

Readings in classical Greek prose, particularly Plato.

Prerequisite: 211 or equivalent

Modern and Classical Languages – Greek - French

- 295, 296 Topics 2 credits
297, 298 Topics
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.
- 342 Greek Reading and Exegesis: John
Careful reading of the Gospel of John in Greek combined with theological commentary from the Greek text, adapted to intermediate-level Greek students.
Prerequisite: 112 or equivalent (Recommended: THEO 205 or THEO 210)
- 475, 476 Experiential Learning 2 credits
477, 478 Experiential Learning
See the description of these courses at the beginning of the “Curricula” section of this catalog.
- 483, 484 Seminar 2 credits
485, 486 Seminar
See the description of these courses at the beginning of the “Curricula” section of this catalog.
- 487, 488 Topics 2 credits
489, 490 Topics
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.
- 491, 492 Research 2 credits
493, 494 Research
See the description of these courses at the beginning of the “Curricula” section of this catalog.
- 495, 496 Individual Study 2 credits
497, 498 Individual Study
See the description of these courses at the beginning of the “Curricula” section of this catalog. The content of seminars, topics, and individual study courses will vary. Material will be chosen from Homer, Greek philosophers, tragedians or historians.

French (FREN)

The primary goal of the department is to provide opportunity to its majors for acquiring:

- A solid command of the French language
- A thorough introduction to the literary and cultural origins of France and the role of French in today’s world
- Enough diversity in courses to prepare for a variety of potential careers or possible co-careers for which their French skills will be of primary importance
- The intellectual background which characterizes those educated in a liberal arts setting.

Major in French

Four years of high school French or the completion of Intermediate French II or its equivalent.

Each prospective major will present a program to the major French adviser for departmental approval. Two tracks are allowed: a literary track stressing courses needed for graduate study; and a general track stressing the cultural and communication skills necessary for double, combined or co-career majors. A minimum of 28 credits beyond 212 is required for a French major. At least twelve of these credits must be completed at the University of St. Thomas.

The major normally consists of eight credits in civilization or culture, eight credits in literature, and eight credits in advanced language study (grammar, composition or oral-intensive), plus elective courses at the 300-level or beyond.

Courses in a second foreign language are highly recommended.

The department strongly encourages all students planning a major in French to spend some time (a summer, a January term, a semester or an academic year) in a French-speaking country and to participate in a French course on campus upon their return.

Minor in French

Note: A minimum of eight credits in FREN must be completed at St. Thomas.

Completion of 212 or equivalent

Plus:

Four credits in French language study at the 300-level or beyond

Four credits in French literature

Four credits in French civilization

Four additional credits in FREN to be selected in consultation with the French faculty.

College of Arts and Sciences – Departments

111 Elementary French I

Practice in understanding, speaking, reading and writing simple French for beginners.

112 Elementary French II

Continuation of 111.

Prerequisite: 111 or its equivalent

211 Intermediate French I

Introduction to cultural and literary materials along with rapid review of basic skills in reading, speaking, writing and understanding oral French.

Prerequisite: 112 or its equivalent

212 Intermediate French II

Continuation of 211 with emphasis on oral and written use of complex sentence structure.

Prerequisite: 211 or its equivalent

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Advanced Oral and Written French I

A course required for all potential majors or co-majors as a preliminary to the upper-division courses they may take, as well as for any student wishing to investigate fine points of grammar and inherently intricate areas of pronunciation and intonation.

Prerequisite: 212

301 French Poetry

Individualized and group exercises in oral expression and comprehension focusing on the elements of French versification from the 16th century to the present.

Prerequisite: 300 or equivalent

302 *Questions de langage*

Intensive practice in both oral and written French using selected materials to acquire a high level of oral comprehension and communication as well as competence in writing French.

Prerequisite: 300 or its equivalent

309 Introduction to French Literature I

Excerpts of French literature from the Middle Ages to the 18th century will be studied. Emphasis will be placed on reading skills and the tools for literary analysis. Recommended as a prerequisite for upper-level literature courses.

Prerequisite: 300 or equivalent

310 Introduction to French Literature II

Excerpts of post-revolutionary French literature. Emphasis will be placed on reading skills and the tools for literary analysis. Recommended as a prerequisite for upper-level literature courses.

Prerequisite: 300 or equivalent

311 French Civilization I

An introduction to the most significant historical, cultural, social, religious and economic realities of France from the prehistoric period through the 17th century.

Prerequisite: 300 or equivalent

312 French Civilization II

An introduction to the most significant historical, cultural, social, religious and economic realities of France from the 18th century to the present.

Prerequisite: 300 or equivalent

370 French Phonetics

A course designed to improve pronunciation and intonation by means of phonetic transcription and technological aids.

Prerequisite: 300 or equivalent

371 French Conversation

Individualized French conversation practice in comprehension and speaking involving group and individualized activities.

Prerequisite: 300 or permission of instructor

401 French Theater

Intensive study of the trends in French theater with analysis and interpretation of selected works from the seventeenth century to the present.

Prerequisite: 300 or equivalent

402 The French Novel

In depth study of selected works of fiction primarily from the 19th and 20th centuries.

Prerequisite: 300 or equivalent

475, 476 **Experiential Learning** 2 credits

477, 478 **Experiential Learning**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

483, 484 **Seminar** 2 credits

485, 486 **Seminar**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 **Topics** 2 credits

489, 490 **Topics**

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 **Research** 2 credits

493, 494 **Research**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 **Individual Study** 2 credits

497, 498 **Individual Study**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

German (GERM)

The department strives to offer a diversified program capable of accommodating a variety of student interests and professional goals connected with German studies. The aims of the department are:

1. To give a command of the German language for use in professional and academic life
2. To acquaint students with the history, literature and culture of the German-speaking countries
3. To familiarize students with the role these countries and their culture play in the world today.

Lectures, reports, and discussion in courses numbered above 300 will be conducted in German.

Major in German

Completion of GERM 212 or its equivalent

300 Introduction to German Studies

Plus:

Twenty-four additional credits numbered above 300

At least six of these 28 credits must be literature courses.

At least twelve of these 28 credits must be completed at the University of St. Thomas.

No more than twelve credits may be in the area of advanced language skills development.

Elective courses for the major in German should be selected in consultation with a member of the German faculty.

Plus:

Four credits in European history

Recommended:

Courses in a second foreign language.

The department strongly urges all students planning to major in German to spend some time, usually one semester, studying in a German-speaking country. See a member of the German faculty for information on study-abroad opportunities for St. Thomas students in Germany or Austria.

Minor in German

Completion of GERM 212 or its equivalent

300 Introduction to German Studies

Plus:

Twelve additional credits numbered above 300

At least three of these credits must be a literature course.

Elective courses for the minor in German should be selected in consultation with a member of the German faculty.

College of Arts and Sciences – Departments

111 Elementary German I

Introduction to fundamentals of language structure and vocabulary. Practice in speaking, reading, writing and understanding.

112 Elementary German II

Continuation of 111.

Prerequisite: 111 or equivalent

211 Intermediate German I

Review of fundamentals. Study of cultural texts with practice in speaking, reading, writing and understanding.

Prerequisite: 112 or equivalent

212 Intermediate German II

Continuation of 211.

Prerequisite: 211 or equivalent

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Introduction to German Studies

Intended as an introduction to more advanced work in German, this course, which is required of all majors and minors, will offer an overview of the evolution of German culture and civilization (society, politics, the arts) within an historical context. The course will also contain a review of advanced grammar and offer students an opportunity to improve their reading, writing, and speaking skills.

Prerequisite: 212 or equivalent

311 Conversation and Composition

Advanced practice in speaking and writing German in formal and informal situations. Instruction in the social patterns that govern language usage in various situations and discussion of contrasting linguistic and social practices among the German-speaking nations and among the regions within those nations.

Prerequisite: 300

315 Influential Ideas in Non-fictional German

A study of the initiation and development of influential ideas on the part of German-speaking thinkers such as Hildegard von Bingen, Luther, Angeles Silesius, Novalis, Büchner, Marx, Nietzsche and Freud. Works selected have had a profound impact not only in German-speaking areas, but also on a worldwide scale. In addition, students will read selections from the writings and speeches of influential German political figures, past and present.

Prerequisite: 300

320 Contemporary Germany and Current Events

Examinations of the development of the Federal Republic of Germany since 1949, and examination, evaluation and discussions of events as they develop during the course of the semester. Course materials include German pamphlets, newspapers, magazines, speeches by leading figures, and materials from the Internet. Attention is given to domestic developments in the Federal Republic of Germany as well as to international events as they concern Germany.

Prerequisite: 300

341 Highlights of German Literature I

A survey of German literature from 1770 to 1890. The course will focus on important works by Goethe and Schiller, German Romanticism, and the literature of the later-19th century.

Prerequisite: 300

342 Highlights of German Literature II

Continuation of 341 with emphasis on literary developments in the 20th century. The course will focus on the period preceding World War I, on literary developments during the Weimar Republic, and on the attempts by postwar German authors to deal with the legacy of the World War II. The course also will discuss more recent literature.

Prerequisite: 300

345 Austria: The Golden Age

The course will examine historical and cultural developments in Austria from 1815 to 1918 with special emphasis on the literature and culture of turn-of-the-century Vienna. Students will read works by important Austrian writers such as Stifter, Nestoy, Schnitzler, Hofmannsthal, Freud and Stefan Zweig; listen to music by composers such as Schubert, Mahler and Lehar; and discuss relevant topics such as the Habsburg Empire, Biedermeier culture, art nouveau and operetta.

Prerequisite: 300

Modern and Classical Languages – International Business-Language Intensive

401 German Poetry

A critical study of selections from important German poets.

Prerequisite: 300

410 The German Opera

Operas of the German masters from Mozart to Weill are studied. The primary emphasis is given to the German texts of the operas, but students are given the opportunity to listen to German language recordings of the operas and to investigate the unity of poetry and music. Attention is given to the literary trends of the times.

Prerequisite: 300

440 Introduction to Business German and German Business

An introduction to the vocabulary of business and economics in German. A survey of German business structure, economic principles, business-government-union interrelationships and international trade status. Readings, discussions and tests are primarily in the German language.

Prerequisite: 300

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

International Business – Language Intensive

Students seeking a good mastery of a language (French, German, Spanish) and training in one or more business areas may enroll in this major which is administered by the Department of Modern and Classical languages.

A program of study abroad is strongly recommended.

International Business – French Intensive

300 Advanced Oral and Written French

One course in French on contemporary France

Plus:

Twenty additional credits in French courses numbered above 300, including literature and civilization, selected in consultation with the French section coordinator

International Business – German Intensive

300 Introduction to German Studies

440 Introduction to Business German and German Business

Plus:

Twenty additional credits in German courses numbered above 300

International Business – Spanish Intensive

300 Oral and Written Spanish

320 Business Spanish

Plus:

Twenty additional credits in Spanish courses numbered above 300

Allied requirements for all languages

Twenty credits in business administration

Plus:

ECON 251 Principles of Macroeconomics

ECON 252 Principles of Microeconomics

College of Arts and Sciences – Departments

ECON 348 International Economics
QMCS 110 Introduction to Information Processing and Programming

Plus one of:

MATH 101 Finite Mathematics
MATH 111 Calculus for Business or Social Science
MATH 113 Calculus I

Other recommended courses:

ECON 345 Economics of Development and Growth
ECON 349 Comparative Economic Systems
IDSC 481 Seminar in International Studies
JPST 250 Introduction to Justice and Peace Studies
POL 105 Politics and Government in Comparative Perspective
POL 326 International Law and Organizations
POL 350 Comparative Politics of the New Europe
THEO 325 The Catholic Social Traditions

Irish Gaelic (IRGA)

111 Spoken Modern Irish Gaelic I

Introduction to the pronunciation, structure, and culture of Irish Gaelic by developing basic skills in conversation, writing, and reading. Progress is evaluated through classroom interaction (dialogue, role-playing, oral drills, *etc.*), written assignments, song-learning, and an interview in Irish with the instructor.

112 Spoken Modern Irish Gaelic II

Continuation of 111 with further development of the same skills in conversation, writing, and reading and an expanded awareness of the culture of Irish Gaelic. Progress is evaluated through classroom interaction (dialogue, role-playing, oral drills, *etc.*), written assignments, and a brief presentation in Irish before the class at the end of the semester.

Prerequisite: 111 or equivalent with instructor's approval

211 Spoken Modern Irish Gaelic III

Continuation of 112 with an emphasis on increasing comprehension of, and fluency in, Irish Gaelic. The course will take place in a Gaelic-speaking community in Co. Galway, Ireland at a campus of the National University of Ireland. Students will learn and practice their Gaelic in the classroom and in the community with native speakers. Students will engage the Gaelic culture, history, and traditions at seminars in the late afternoon and evening and on four field trips to locations of literary and cultural importance. Students will be evaluated on the basis of three interviews with their instructor and a third party.

Prerequisite: 112 or equivalent with instructor's approval

Japanese (JAPN)

Courses in Japanese are offered with the assumption that many of the students will be visiting Japan in the near future. Thus, the Japanese program strives to:

1. lay a solid foundation in the areas of speaking, listening, reading and writing. All three writing systems (hiragana, katakana and kanji) are covered.
2. give students basic language skills sufficient to manage day-to-day life in Japan
3. promote interest in Japan, Japanese people, and their culture
4. help students fulfill professional and personal endeavors at an international level
5. eliminate fear of speaking Japanese in front of people.
6. To provide the foundation for earning a major or minor in the language.

Students wishing to major or minor in Japanese may do so by special arrangement with Macalester College and approval of the St. Thomas Department of Modern and Classical Languages.

Minor in Japanese

Completion of 212 or equivalent

Plus:

Eight additional credits selected in consultation with the department adviser

111 Elementary Japanese I

Mastering 46 hiragana alphabets. Introduction to basic sentence structures, particles, polite forms of verbs, and simple kanjis (Chinese characters). Students are encouraged to converse in given situations utilizing whatever has been learned in the class.

112 Elementary Japanese II

Continuation of 111. Mastering 46 katakana alphabets. Further study of kanjis. Conjugation of adjectives, plain forms, te-forms. Noun modification. Action-in-progress as well as resultant-state forms of verbs. Main and subordinate clause construction. Daily free speaking in Japanese at simple level.

Prerequisite: 111 or placement test result

211 Intermediate Japanese I

Continuation of 112. Some of the volitional forms, hypothetical forms, and desiderative forms are introduced. Continued study of kanjis. Daily free speaking. Introduction to the use of Japanese word processor.

Prerequisite: 112 or placement test result

212 Intermediate Japanese II

Continuation of 211. Potential forms, transitive-intransitive verbs, respectful-humble forms, giving-receiving verbs, and some more hypothetical forms are introduced. Practice in situational and functional Japanese. Daily free conversation and further study of kanjis are continued.

Prerequisite: 211 or placement test result

Russian (RUSS)

The objectives of the Russian program are to provide students the opportunity:

1. To learn the basics of Russian language for reading and for communicating in everyday situations
2. To acquire an elementary knowledge of the culture of the people using this study of the language – at home or abroad – for purposes of business, government work, teaching, literacy or linguistic studies
3. To provide the foundation for earning a major or minor in the language

Four courses are currently offered (which fulfill the language requirement for the Russian, Central and East European area studies major). Classes meet three periods a week, with a flexible fourth period devoted specifically to oral proficiency taught usually by a native Russian speaker. Students with previous high school study of Russian will be tested for appropriate placement. Students wishing to major or minor in Russian may do so by special arrangement with Macalester College and approval of the St. Thomas ACTC Russian, Central and East European area studies representative.

Major in Russian

Completion of 212 or equivalent

Plus:

Thirty-two additional credits in Russian and related courses, plus a study abroad program in Russia jointly approved by Macalester College and the University of St. Thomas

Minor in Russian

Completion of 212 or equivalent

Plus:

Two advanced Russian language or literature courses

111 Elementary Russian I

Introduction to the Russian sound system and grammar encompassing reading, writing, speaking and listening skills. Some exposure to Russian culture. Offered in fall semester.

112 Elementary Russian II

Continuation of 111 with further development of same skills. Offered in spring semester.

Prerequisite: 111 or permission of instructor

211 Intermediate Russian I

Continuation of 112 expanding on the fundamentals, with more emphasis on listening and speaking skills needed in everyday situations in the culture, more reading of authentic short texts of various types. Offered in fall semester.

Prerequisite: 112 or permission of instructor

212 Intermediate Russian II

Further development of skills begun in 211 plus learning to translate and use more advanced grammatical forms (complex verbs of motion, participles, *etc.*) in written and oral presentations. Upon successful completion of this course, the student should be prepared to study in Russia. Offered spring semester.

Prerequisite: 211 or permission of instructor

College of Arts and Sciences – Departments

Spanish (SPAN)

The Spanish program provides students the opportunity to develop a solid command of the Spanish language, and an understanding of the literature and culture of the Hispanic world. Diverse course offerings allow students, in consultation with their advisors, to tailor a program of studies consistent with various goals: to prepare for graduate school, to usefully complement a variety of majors (business, political science, psychology, *etc.*), to interact with Spanish-speaking people in the US and abroad, and to read great Spanish and Spanish American literature. We offer (and strongly recommend) study abroad as a fundamental component of the Spanish major.

Major in Spanish

In consultation with their major field adviser, students must complete twenty-eight (28) credits in courses numbered 300 and above with a minimum of six (6) credits in each of the following areas:

Oral and Written Spanish – 300 (required); 301, 305, 310, 315, 320, 330, 396, 440

Culture/Civilization – 331, 332, 397

Literature – 335, 340, 341, 380, 381, 385, 390, 398, 405, 410

Students in teacher licensure programs must include a course in linguistics.

Students majoring in Spanish must take a minimum of twelve (12) credits in Spanish at the 300-level or above at St. Thomas or in a St. Thomas approved study abroad program.

Minor in Spanish

In consultation with their minor field adviser, students must complete sixteen (16) credits in courses numbered 300 and above with a minimum of three (3) credits in each of the following areas:

Oral and Written Spanish – 300 (required); 301, 305, 310, 315, 320, 396, 440

Culture/Civilization – 330 (recommended); 331, 332, 397

Literature – 335 (recommended); 340, 341, 380, 381, 385, 390, 398, 405, 410

Students minoring in Spanish must take a minimum of eight (8) credits in Spanish at the 300-level or above at St. Thomas or in a St. Thomas approved study abroad program.

111 Elementary Spanish I

Pronunciation, essentials of grammatical structures, aural-oral practice, writing, reading of simple Spanish prose, introduction to the culture of the Spanish-speaking world.

112 Elementary Spanish II

Continuation of 111. Emphasis on grammatical structure, aural-oral practice, writing, reading. Continuation of Hispanic culture.

Prerequisite: 111 or its equivalent

211 Intermediate Spanish I

Designed to increase listening, speaking, reading, and writing skills in Spanish. Intensive review of grammatical structures of Elementary Spanish I and II. Continued exposure to Hispanic culture.

Prerequisite: 112 or its equivalent

212 Intermediate Spanish II

Continuation of 211. Emphasis on Hispanic culture, conversation, writing, and expansion of vocabulary based on thematic discussions and cultural readings.

Prerequisite: 211 or its equivalent

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Oral and Written Spanish

Conversation and composition through the study of contemporary issues in Hispanic societies. Emphasis on review of basic structures and expansion of vocabulary. Writing of basic structures in expository prose.

Prerequisite: 212 or its equivalent

301 Advanced Oral and Written Spanish

Intensive practice in both oral and written Spanish using selected materials to acquire a high level of oral comprehension and communication as well as competence in writing Spanish.

Prerequisite: 300 or its equivalent

305 Spanish Oral Expression

The aim of this course is to develop aural and oral skills through the analysis and interpretation of representative cultural expressions of the Spanish-speaking world.

Prerequisite: 300 or its equivalent

310 Advanced Spanish Writing

This writing course aims to improve technique, expand syntactic depth and increase vocabulary. Students will write essays in a variety of forms. The goal of the course is to learn good writing through a process approach involving stages of idea development, re-evaluation of ideas and rewriting of the text.

Prerequisite: 300 or its equivalent

315 Hispanic Linguistics

An introduction to both contemporary and historical Hispanic linguistics. Descriptive Spanish phonetics and phonology. History of the Spanish language with emphasis on historical sound-change phenomena. Systematic study of dialectal variation in both Spain and Spanish America. Offered in fall semester.

Prerequisites: Eight credits numbered 300 or above

320 Business Spanish

Practice in the language skills and vocabulary needed to conduct business in the Hispanic world; an overview of political, economic, social and cultural factors which affect business in the Hispanic countries. Offered in fall semester.

Prerequisites: Eight credits numbered 300 or above

330 *Temas Hispánicos*

This course focuses on the integration of the various components that have forged the diverse Spanish and Spanish American cultures. Lectures and class discussions are based on major topics that relate to the foundations of the Hispanic world. This course meets the civilization distribution area for minors; it contributes to the language area for majors.

Prerequisite: 300 or equivalent

331 Survey of Spanish Culture and Civilization

A study of the evolution of the civilization of Spain from the time of early human settlements through the present. This course examines socio-economic developments, political movements and artistic creations within an historical context. Offered in fall semester.

Prerequisites: Eight credits numbered 300 or above

332 Survey of Latin American Culture and Civilization

Physical and human geography. History of Latin America from pre-Hispanic civilizations through independence. Political problems. Rural Latin America. Latin American society, cultural values. Religion. Economic problems. Offered in spring semester.

Prerequisites: Eight credits numbered 300 or above

335 Introduction to Spanish Literature

An introduction to Spanish and Spanish American narrative, drama and poetry. Strongly recommended for students who minor in Spanish. The course is designed to teach students the skills of critical reading and literary analysis.

Prerequisites: Eight credits numbered 300 or above

340 Survey of Spanish Literature I

Readings in Spanish literature from the Poema de Mio Cid through the Golden Age.

Prerequisites: Eight credits numbered 300 or above

341 Survey of Spanish Literature II

Readings in Spanish literature from the 18th through the 20th centuries.

Prerequisites: Eight credits numbered 300 or above

380 Spanish-American Literature I

Readings in Spanish-American literature from the colonial period through the 19th century.

Prerequisites: Eight credits numbered 300 or above

381 Spanish-American Literature II

Readings in 20th century Spanish-American literature.

Prerequisites: Eight credits numbered 300 or above

385 Modern Spanish-American Short Story

Intensive readings in the modern Spanish-American short story from Horacio Quiroga to the contemporary period (Rulfo, Fuentes, Cortazar, Onetti, Borges, *etc.*).

Prerequisites: Eight credits numbered 300 or above

390 Contemporary Spanish-American Novel

Latin American society as reflected by a study of major contemporary Spanish-American novelists. Selected works from some of the following authors: Asturias, Cortazar, Carpentier, Fuentes, Garcia Marquez, Rulfo, Vargas-Llosa.

Prerequisites: Eight credits numbered 300 or above

College of Arts and Sciences – Departments

405 Spanish Genre Studies

An examination of particular genres of Spain and Spanish America during defined literary periods. Topics will vary with each offering and may include the 19th-century novel, non-fictional prose and contemporary poetry, theater and narrative of Spain and Spanish America. Credit may be earned more than once under this number for different emphases.

Prerequisites: Eight credits numbered 300 or above

410 Hispanic Women Writers

An exploration of the writings of selected Spanish/Spanish American women authors, highlighting both their literary significance as well as their importance as an expression of the cultural milieu of their countries and times. Content of the course will vary with each offering.

Prerequisites: Eight credits numbered 300 or above

440 Advanced Spanish Oral Expression

This course is intended to stimulate creative, critical thinking in Spanish through activities which require students to argue, persuade, analyze, and interpret other points of view. The course is geared toward the advanced level of the ACTFL guidelines for speaking.

Prerequisites: Eight credits numbered 300 or above

475, 476 **Experiential Learning** 2 credits

477, 478 **Experiential Learning**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

483, 484 **Seminar** 2 credits

485, 486 **Seminar**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 **Topics** 2 credits

489, 490 **Topics**

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 **Research** 2 credits

493, 494 **Research**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 **Individual Study** 2 credits

497, 498 **Individual Study**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Music (MUSC)

George (chair), Broeker, Bryan, Callahan, Gleason, Gonzo, Johnson, Kachian, Orzolek, Schmalenberger, Trinkka; Allaire, K. Banfield, W. Banfield, Britton, Brudnoy, Dumas, Duna, Faricy, Garvin, Gerth, Griffith, Haugen, Hauser, Heberlein, Jenkins, Jorstad, Kemperman, Keno, Kolarov, Kotulski, Lilienthal, Mensah, Merz, Morgan, Ohanessian, Reed, Rinear, Schrooten, Skaar, Strasser, Strusinski, Stuckey, Thygeson, Titus, Van Nostrand, Volpe, Zimmerman

The faculty, students and staff of the University of St. Thomas Department of Music honor the innovations of the present and the traditions of the past by providing a vital, cohesive and creative environment by educating, facilitating and leading all individuals to realize their full potential in the development of their musical, artistic and career goals. Through performance, composition, research and teaching, the department enhances the cultural, spiritual and intellectual life of the university and the community.

Students majoring in music take courses in four areas: music theory, music history, performance studies, and ensembles.

Through the study of music theory, students develop an aural comprehension of tonal and non-tonal music, an understanding of the harmonic language and voice-leading principles of the “common-practice” style, and an understanding of the musical vocabulary, analytical systems, and structural and formal principles that apply to classical music since 1600. Students develop the necessary skills to read orchestral scores and to write in standard musical notation for the instruments of the orchestra. Students develop the ability to understand a wide range of musical traditions and cultural practices, ranging from the western classical tradition to the music of selected non-western cultures. Students will be able to discuss music critically, and will be prepared to engage in meaningful research in musical fields. Student performers will develop an expressive interpretation of solo repertoire through an understanding of compositional process and historical style with the necessary technical proficiency. Students will demonstrate advanced ensemble skills and contextual understandings of repertoire by artistically performing music representing a variety of genres, stylistic periods and cultures.

Transfer students majoring in music must pass the UST music theory (IV) placement test, pass the performance-level audition, perform their final-level recital at UST, take at least one semester of music history (contingent upon diagnostic history test), take a minimum of four semesters of performance-level lessons, and a minimum of four semesters of an appropriate ensemble.

Students majoring in music may not have a letter grade lower than C- in a required music course.

The department offers minors for those students who have an interest in music, but do not wish to major in the field.

A variety of musical ensembles are available for instrumentalists and vocalists, regardless of major.

For information concerning the department's current policies and procedures, consult the *Handbook for Music Students*, which is available in the department office.

The department also offers a number of courses for non-majors that fulfill the Fine Arts, Human Diversity, and second-level Computer Competency components of the core curriculum.

The University of St. Thomas is a member of the National Association of Schools of Music.

Major in Music

- MUSC 112 Introduction to Music (students testing out of 112 take MUSC 115)
- MUSC 113 Theory I
- MUSC 212 Theory II
- MUSC 213 Theory III
- MUSC 312 Theory IV
- MUSC 411 History and Literature of Music I
- MUSC 412 History and Literature of Music II
- MUSN 1xx Ensemble participation (see note below)
- MUSP 102 or 103 Skills for Piano Proficiency
- MUSP 2xx Eight semesters of performance studies in the same performance medium (2 credits per semester)
- MUSR 200 Piano Proficiency (0 credit)
- MUSR 270 Level I Recital (0 credit)
- MUSR 350 Level II Recital (0 credit)
- MUSR 450 Level III Recital (0 credit)

Guidelines for choosing an ensemble:

Every music major is required to register for and successfully complete an ensemble during each semester of full-time enrollment. A minimum of eight semesters of ensemble participation is required for graduation regardless of full- or part-time status. (Students majoring in music register for ensembles on an audit basis.)

If principal instrument is:

Piano – at least two semesters in 171; at least two semesters in 172; at least two semesters in one of: 143, 160, 181, 185, 186, 190; two semesters may be in 161, 182, 183

Voice – voice majors whose emphasis is in an area other than Liturgical Music must participate in a minimum of eight semesters in 140, 142, 143, or 160

Woodwind, brass, or percussion – at least eight semesters in 185 or 186

Orchestral string – at least eight semesters in 181

Guitar – at least six semesters in 173; at least two semesters in 174

Other instruments – at least eight semesters chosen from: 143, 160, 171, 172, 181, 185, 190

Allied requirements

PHYS 105 Musical Acoustics

Four credits in Art History or Theater

Concentration in Liturgical Music

Note: This concentration is available only to students whose principal instrument is voice, keyboard, guitar, or by special permission of the chair.

- MUSC 112 Introduction to Music (students testing out of 112 take MUSC 115)
- MUSC 113 Theory I
- MUSC 212 Theory II
- MUSC 213 Theory III
- MUSC 312 Theory IV
- MUSC 351 Introduction to Conducting (2 credits)
- MUSC 411 History and Literature of Music I
- MUSC 412 History and Literature of Music II
- MUSP 231 Performance Studies (14 credits over seven semesters)
- MUSR 200 Piano Proficiency (0 credit)
- MUSR 270 Level I Recital (0 credit)
- MUSR 350 Level II Recital (0 credit)

Plus ensemble participation for eight semesters (audit):

Liturgical Music majors must participate for a minimum of six semesters in MUSN 143. Voice majors are required to have a minimum of eight semesters of choir.

Plus four semesters (if principal instrument is not voice) (1 credit each semester)

MUSP 133 Voice: Elective

College of Arts and Sciences – Departments

Allied requirements

THEO 101 Christian Theological Tradition

Plus one of:

THEO 205 Old Testament

THEO 210 New Testament

Plus one of:

THEO 310 Christian Worship

THEO 313 Christian Sacramentality

Plus one of:

THEO 356 Music and the Bible

THEO 357 Sacred Music of the Catholic Heritage

Plus:

IDSC 478 Experiential Learning

PHYS 105 Musical Acoustics

Plus one of:

ARTH 280 Sacred Architecture and Space

ARTH 335 Cathedrals, Monasteries, and Caliphates

ARTH 340 Southern Renaissance Art and Society

ARTH 342 Renaissance and Reformation in Northern Europe

Recommended:

MUSC 352 Choral Conducting

Concentration in Music Business

This emphasis allows a person to have a solid music foundation while pursuing a related field in business. The seminar and internship included in this emphasis help the student focus on the type of music business that is of interest to him/her.

MUSC 112 Introduction to Music (students testing out of 112 take MUSC 115)

MUSC 113 Theory I

MUSC 212 Theory II

MUSC 213 Theory III

MUSC 312 Theory IV

MUSC 411 History and Literature of Music I

MUSC 412 History and Literature of Music II

MUSC 480 Music Business Seminar

MUSN 1xx Ensemble participation (see note under Major in Music)

MUSP 102 or 103 Skills for Piano Proficiency

MUSR 200 Piano Proficiency

MUSP 2xx Six semesters of performance studies in the same performance medium (2 credits per semester)

MUSR 270 Level I Recital (0 credit)

MUSR 350 Level II Recital (0 credit)

Allied requirements

ECON 252 Principles of Microeconomics

ENTR 300 Entrepreneurship for Non-majors

IDSC 475 Experiential Learning: Career Exploration Externship (2 credits)

Plus:

Sixteen additional credits in business courses chosen in consultation with the program adviser (all prerequisites for the courses selected must be satisfied)

Plus:

PHYS 105 Musical Acoustics

Four credits in Art History or Theater

Major in Music Education

Instrumental and Classroom Music (K-12)

Vocal and Classroom Music (K-12)

See School of Education Department of Teacher Education

Minor in Music

MUSC 112 Introduction to Music (students testing out of 112 take MUSC 115)

MUSC 113 Theory I

MUSC 412 History and Literature of Music II

MUSN 1xx Four semesters in appropriate ensemble for principal instrument

- MUSP 1xx Four semesters (50-minutes lessons) in same performance medium (1 credit per semester)
 MUSR 270 Level I Recital

Plus one of the following:

- MUSC 212 Theory II
 MUSC 411 History and Literature of Music I

Minor in Electronic Music Production

- 112 Introduction to Music (students testing out of 112 take MUSC 115)
 113 Theory I
 212 Theory II
 150 MIDI Studio (2 credits)
 180 Multi-Track Tape Recording (2 credits)
 220 Digital Recording/Sampling (2 credits)
 240 Musical Audio Post Production (2 credits)

Allied requirement

- PHYS 105 Musical Acoustics

Minor in Jazz Studies

- MUSC 125 Jazz Theory I (2 credits)
 MUSC 126 Fundamentals of Jazz Musicianship I (2 credits)
 MUSC 216 Jazz in America
 MUSC 223 Jazz Arranging (2 credits)
 MUSC 226 Fundamentals of Jazz Musicianship II (2 credits)
 MUSP 1xx Four semesters of performance jazz studies (50-minute lessons)
 MUSR 290 Jazz Recital

Plus two of:

- MUSC 224 Jazz Composition/Song Writing (2 credits)
 MUSC 225 Jazz Theory II (2 credits)
 MUSC 228 Advanced Jazz Arranging (2 credits)

Plus four semesters in:

- MUSN 182 or 183 Instrumental Jazz Ensemble or Jazz Singers

Music Courses (MUSC)

112 Introduction to Music (115, 217, 219)

An introduction to the history, literature, and theory of music. This course establishes fundamental theoretical concepts and skills, provides an historical overview of western art music, and includes an introduction to world music. Meaning, expression, and music in culture are explored through discussion, critical listening, reading, and writing. Offered fall semester.

113 Theory I

Basic materials and structures of music, approached through analysis and experience. This course is the first of a four-semester sequence that integrates sight-singing and ear-training with the analysis of harmony, form and contrapuntal procedures from the 16th through the 20th centuries. Assignments will include the development of compositional and arranging skills including those skills needed to write for the standard instruments of the wind ensemble and orchestra. Lecture plus 100 minutes laboratory per week. Offered spring semester.

Prerequisite: 112

115 Understanding Music and Culture (112, 118, 119)

This survey course explores the classics of European and American music in their historical, cultural and social contexts. It will investigate the many ethnic, religious, political, philosophical, economic and scientific influences that have shaped these traditions. This course is designed to enable students, regardless of musical background, to increase their understanding of music. The listening skill and knowledge acquired will provide a foundation for students to become more critical and discerning listeners of music of all types. This course fulfills the Fine Arts requirement in the core curriculum.

118 Understanding Music and Culture to 1850 (112, 115)

2 credits

The first half of 115, the general survey of music up to approximately 1850. This course partially fulfills the Fine Arts requirement in the core curriculum. Offered in January term.

119 Understanding Music and Culture 1850 to Present (112, 115)

2 credits

The second half of 115, the general survey of music, beginning around 1850 and continuing the survey to the present. This course partially fulfills the Fine Arts requirement in the core curriculum. Offered in January term.
 Prerequisite: 118

College of Arts and Sciences – Departments

120 Orchestral Literature

This course presents an overview of orchestral and instrumental chamber music, combining a critical and historical study of music with the regular experience of hearing live music. The course includes preparation for seven Wednesday evening concerts at Orchestra Hall as well as in-class presentations which cover knowledge and appreciation of music, musical performance, and the creative process. This course fulfills the Fine Arts requirement in the core curriculum.

125 Jazz Theory I

2 credits

This course will present a detailed exploration of the harmonic vocabulary used in jazz performance. The course will cover basic chord construction as well as chord extensions and alterations. The chords will be presented with their related modes and scales so the student may be able to analyze the relationship of melody to harmony. The student will learn several approaches to chord substitution including the chromatic dominant approach and substitution based on plurality.

Prerequisite: Ability to read music

126 Fundamentals of Jazz Musicianship I

2 credits

This course is designed to give the student a working knowledge of the skills required for jazz performance and research of historical performance practice. Study will include rhythm (how to swing); melody (how to jazz it up); harmony (how to jazz it up part 2). All styles of jazz will be examined, beginning with blues, modal tunes and the study of jazz standards. A systematic approach to the art of improvisation with emphasis placed on ear training exercises, in-class improvisation and performance. This course is open to all instrumentalists and singers.

130 Introduction to World Music

This course studies the phenomenon of music as an activity in people's lives. Students will be guided to think critically about music employing a multicultural perspective. Models will be presented to provide a context in which music serves as part of larger social ritual. The music of selected cultures such as Africa, the Middle East, China, Japan, India, Native American and American popular music in addition to European classical music will be covered. Designed for the non-major. This course fulfills the Fine Arts and the Human Diversity requirements in the core curriculum.

150 MIDI Studio

2 credits

Work with synthesizers and record the results with a Macintosh computer in a state-of-the-art MIDI studio. Special emphasis is placed on sequencing techniques and music editing on multi-track arrangements. Basic-to-advanced MIDI functions will be explained and utilized in team studio sessions. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

176 German Diction for Singers

1 credit

An introduction to German pronunciation, utilizing the International Phonetic Alphabet. A guide to the use of the dictionary in the language. Special emphasis on the problems encountered by the singer.

177 French Diction for Singers

1 credit

An introduction to French pronunciation, utilizing the International Phonetic Alphabet. A guide to the use of the dictionary in the language. Special emphasis on the problems encountered by the singer.

180 Multi-Track Tape Recording

2 credits

Students will learn to record and mix music in an up-to-date multi-track recording studio: effects processors, compressor/limiter, vocal booth, large console, 8-track deck and more. Add to the recording by synchronizing the Macintosh computer and sequenced synthesizers. Operation of a mixing board and stereo mixdown will be covered early in the semester. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 150

212 Theory II

Continuation of 113. Offered in fall semester.

Prerequisite: 113 or successful placement test

213 Theory III

Continuation of 212. Offered in spring semester.

Prerequisite: 212 or successful placement test

216 Jazz in America

The origins and history of jazz in the United States. Various phases in the development of jazz style are discussed. Blues, ragtime, Dixieland, swing, bop, cool jazz, fusion, as well as other recent developments in jazz performances are investigated. An essential part of the course is the analysis and evaluation of recorded performances by outstanding jazz musicians. Designed for non-majors as well as an elective for music majors interested in jazz. Offered fall semester. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

217 Music of the Americas (112)

A survey of music from the sixteenth century to the present as found in the Western hemisphere. Primarily concerned with the European influence brought by the various colonizing nations, some time is spent with the folk music of Canada, the United States and Latin America. Music of non-Western cultures are discussed as they relate to the native American and African-American influences in the New World. Designed for the non-major. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

218 Black American Music: An Historical Survey

This course explores and examines the history and musical practices of Black American artists and music dating from Francis Johnson of the late 18th century to contemporary artists such as Prince, Sweet Honey in the Rock, and Wynton Marsalis. Styles examined and discussed begin with the formation of the spirituals, blues and jazz to contemporary concert composers (Anthony Davis, Tania Leon), to Motown, soul, rap, and other popular American music forms. This course fulfills the Fine Arts and Human Diversity requirements in the core curriculum.

219 Music in the United States (112)

A survey of music heard in the United States from pre-Revolutionary days to the present, including discussions of the popular, folk and concert music. Particular emphasis will be given to forms of music which are unique to this country because of the diversity of its population. Designed for the non-major. This course fulfills the Fine Arts requirement in the core curriculum. Offered in fall semester.

220 Digital Recording and Sampling

2 credits

Recording music and sound effects into the Macintosh and combining the results with MIDI sequences will be covered in this course. Students will sample both live sounds and material from compact-disc libraries, then edit them and finally place them alongside instrumental MIDI tracks. Subjects covered: digital recording theory and practice, digital media, evolution of digital technology, new equipment, musical applications. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 150

222 The Theology of American Popular Music

An examination of contemporary popular American music (spirituals, blues, jazz, rock, pop, and hip-hop) and discussion of the theological and artistic implications of these styles and traditions. The course will place an emphasis on their dual nature as cultural products expressing political and physical liberation as well as road maps for specific theological and spiritual world views. This course fulfills the Fine Arts requirement in the core curriculum.

223 Jazz Arranging

2 credits

The emphasis of this course is to introduce arranging concepts for instrumental and vocal applications. A basic overview of arranging materials (i.e. chord voicing, discussion of forms, music notation, ranges, vocal and instrumental differences, transpositions, rhythm section writing, and the construction of introductions and codas) will be covered. In addition, several scores will be discussed and analyzed.

224 Jazz Composition/Song Writing

2 credits

Introduces the concept of the nine basic chord families and the scales that play through each chord. Also covers polychords and their applications to conventional chord symbols. Study the craft of song and lyric writing.

Prerequisite: 125 or 126 or permission of the instructor

225 Jazz Theory II

2 credits

Continuation of 125. This course covers complex modes, altered scales, bitonality and advanced application of pentatonic scales. The student also will study tritonic and tetratonic scale structures and analyze selected jazz solos to understand their melodic and harmonic content.

Prerequisite: 125

226 Fundamentals of Jazz Musicianship II

2 credits

Continuation of 126. Further study of standards, including bebop, post bop, jazz-rock fusion and other contemporary styles.

Prerequisite: 126

228 Advanced Jazz Arranging

2 credits

Continuation of 223 with emphasis on both vocal and instrumental writing. The student will arrange selected jazz standards for the following ensembles: three horns with rhythm section, vocal jazz group (four voices, with and without rhythm section), and big band. The student also will study existing arrangements of Horace Silver, Duke Ellington, Manhattan Transfer and Gil Evans.

Prerequisites: 125 and 223 and 226

240 Music/Audio Post Production

2 credits

Emphasis is placed on the creation of soundtracks for video. Source material will come from taped television broadcasts, commercial tapes and in-house video productions. Elements of synchronization (VITC, SMPTE) will

College of Arts and Sciences – Departments

be explored. Writing musical soundtracks for advertisements and programs, students will have the opportunity to lay-in sound effects and dialogue using the Macintosh computer and digital recording and sequencing software and hardware. This course partially fulfills the second-level Computer Competency requirement in the core curriculum. Offered in spring semester of even-numbered years.

Prerequisite: 220

281 Introduction to Accompanying 2 credits

This course focuses on topics related to the accompanying of singers and solo instrumentalists.

295, 296 Topics 2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Introduction to Piano Pedagogy 2 credits

This class will survey methods and materials for piano study at various levels of advancement. Discussions will include principles of technique, learning theories, musicianship and performance skills. Class members will be required to observe piano lessons. Although the course is designed primarily for music majors (pianists), other qualified students may be admitted with the consent of the instructor.

303 Music Notation on Computer 2 credits

Develop skills in using music publishing software. Intended for composers, music educators, choral and instrumental conductors and anyone interested in producing print-quality music using the Macintosh or IBM. This course partially fulfills the second-level Computer Competency requirement in the core curriculum.

307 Guitar Pedagogy 2 credits

Historical overview of teaching methods beginning through advanced primers and student repertoire, exposure to all types of notational systems and discussion of professional teacher preparation.

312 Theory IV

Continuation of 213. Offered in fall semester.

Prerequisite: 213, or successful placement test

318 Voice Literature

A survey of song literature by outstanding composers in Italy, France, Germany, Spain, Russia, Great Britain and America from 1800 to the present. Areas explored include performance, analysis of poetry and music, and comparison of nationalistic styles.

319 Piano Literature

A survey of keyboard literature from the beginning of the 18th century to the present day. Primarily for the music major (pianist) but open to all interested in piano literature.

320 Guitar Literature

A selected chronological survey of solo, ensemble and chamber ensemble literature for guitar from the 15th through the 20th centuries, including transcriptions from early music to popular.

335 Topics in World Music 2 credits

Each time this course is offered, it presents an in-depth survey of the music of a particular culture, exploring the music of: East India, Java, the Orient, Africa, the Middle East, Native Americans, *etc.*

351 Introduction to Conducting 2 credits

Content of the course includes basic conducting patterns and gestures, general knowledge of score types (choral, orchestral, band), score study and basic rehearsal planning. Practice in conducting small ensembles will be provided. Offered in fall semester of even-numbered years.

352 Choral Conducting

Includes advanced choral conducting and rehearsal techniques, the study of performance practices, and a survey of choral literature appropriate for use in school or church choirs. Consideration is given to the daily rehearsal plan, rehearsal techniques and classroom management as these relate to the expected outcome of the entire unit. Laboratory method. Offered in spring semester of odd-numbered years.

Prerequisite: 351

353 Instrumental Conducting

As a continuation of 351, the conducting student will learn more complex conducting patterns and refined expressive gestures. A survey of the literature for orchestra and band with an in-depth study of selected pieces. An introduction to directing the jazz ensemble and marching band, including computer-assisted field show charting. Consideration also is given to the daily rehearsal plan, rehearsal techniques and classroom management as these relate to the expected outcome of the entire unit. Offered in spring semester of odd-numbered years.

Prerequisite: 351

411 History and Literature of Music I

A survey of Western European music to 1800: the medieval, Renaissance, Baroque and Classical periods. Historical development, social context, forms, styles and issues of expression are explored. Offered in fall semester.

412 History and Literature of Music II

A survey of Western European music from 1800 to the present: the Romantic period and the twentieth century. This course includes traditional musics of the world and selected American popular styles. Emphasis is on social context and issues of meaning and expression. Continuation of 411. This course fulfills the Fine Arts requirement in the core curriculum. Offered in spring semester.

416 Orchestration

2 credits

Ranges, timbres, and performance characteristics of string, winds and percussion instruments in the western tradition. Scoring for small and large ensembles of such instruments.

Prerequisite: 200, 312

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

480 Music Business Seminar

A course involving individual research that is shared among the participants. Guest speakers from various areas of music business, the electronic media industries and arts management make presentations to the seminar, which is under the direction of a faculty coordinator. A major research project is required.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Music Ensembles (MUSN)

Membership in music ensembles is based upon a successful audition. Students may register for the same ensemble in as many semesters as desired.

The Fine Arts requirement may be fulfilled by four semesters of participation in one of the following ensembles: 140, 142, 143, 160, 185, 186. A total of four semesters in 142 and 160 or 185 and 186 will also fulfill the requirement. Other combinations must be approved by the department chair. There is no tuition charged for ensemble registration.

Students majoring in music are required to register for and successfully complete an ensemble during each semester of full-time enrollment. A minimum of eight semesters is required for graduation regardless of full- or part-time status. (See specific ensemble requirements for various major emphases in the first part of the music section of this catalog, or consult the *Handbook for Music Students* available from the Department of Music office.) Music majors audit all ensembles.

140 Women’s Choir

1 credit

A vocal ensemble that explores the wide variety of secular and sacred repertoire composed for women’s voices. Major performances are given each semester and may include exchange/joint concerts with other choirs. Three rehearsals a week. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement in the core curriculum.

142 Chamber Singers

1 credit

A mixed vocal ensemble of 20-30 members that will study and perform materials appropriate to the chamber ensemble; repertoire will include secular and sacred literature. Major performances are given each semester and may include exchange/joint concerts with other choirs. Three rehearsals per week. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement in the core curriculum.

College of Arts and Sciences – Departments

- 143 Liturgical Choir** 1 credit
Liturgical Choir is an ensemble of students of varied faith and cultural backgrounds that sings for services in the UST chapel. Local, regional and international tours are part of the choir's ministry as well as concert performances with other Music Department ensembles. Two rehearsals a week plus bi-weekly Sunday chapel liturgies. Membership by audition. Four semesters of participation fulfills the Fine Arts requirement in the core curriculum.
- 151 Schola Cantorum** 1 credit
This vocal ensemble focuses primarily on early Plainchant from the Gregorian chant tradition as well as contemporary chant repertoire. Historical and modern chant notations are studied and repertoire will be performed in the context of both liturgical service and concert. Membership by audition.
- 160 Concert Choir** 1 credit
A mixed vocal ensemble that performs a variety of secular and sacred repertoire from the Middle Ages to the 20th century. Choral literature performed includes unaccompanied works as well as works with professional chamber orchestra. Major performances are given each semester and may include exchange/joint concerts with other choirs. Tours locally, nationally and internationally. Three rehearsals a week. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement in the core curriculum.
- 161 String Ensembles** 1 credit
Formation of string trios, quartets, quintets. Ensembles meet once a week and are coached by a member of the string faculty. Membership by audition.
- 162 Flute Ensembles** 1 credit
Formation of trios, quartets and other small ensembles, dependent upon personnel available. Ensembles may include piccolo, soprano flutes, alto flute and bass flute. Ensembles meet once a week and are coached by a member of the woodwind faculty. Membership by audition.
- 163 Clarinet Ensembles** 1 credit
Formation of small ensembles involving various members of the clarinet family. Ensembles meet once a week and are coached by a member of the woodwind faculty. Membership by audition.
- 164 Saxophone Ensembles** 1 credit
Formation of small ensembles involving various members of the saxophone family. Ensembles meet once a week and are coached by a member of the woodwind faculty. Membership by audition.
- 165 Chamber Wind Ensembles** 1 credit
Formation of mixed woodwinds, brass and percussion. Ensembles meet once a week and are coached by a member of the faculty. Membership by audition.
- 166 Brass Choir** 1 credit
Formation of small and large ensembles using only brass and sometimes percussion instruments. The choir, directed by a member of the brass faculty, gives regularly scheduled public performances. Membership by audition.
- 167 Percussion Ensembles** 1 credit
A variety of mallet and stick instruments are used to form these ensembles. Ensembles meet once a week and are coached by a member of the percussion faculty. Membership by audition.
- 169 African Music Ensemble** 1 credit
This course provides a non-Western music performance experience. The repertoire to be studied includes traditional genres such as Adowa, Agbadza, Gota, Kpanlogo, Boboobo, and includes contemporary compositions. Three main areas in the ensemble are drumming, flutes and vocal. No prior experience is necessary for this ensemble. An audition is required.
- 170 Handbell Choir** 1 credit
This instrumental ensemble performs with both English and Dutch handbells. Repertoire consists of arrangements for two to five octaves from a variety of musical periods and styles as well as music composed specifically for the expanding contemporary handbell literature. Performances include monthly appearances in chapel liturgical settings as well as regular campus and public performances. No previous handbell experience necessary but ability to read music is required. Membership by audition or permission of instructor.
- 171 Piano Ensembles** 1 credit
Study and performance of duets and two-piano music. One major performance per semester. Membership by audition.
- 172 Accompanying Ensembles** 1 credit
Qualified pianists have the opportunity to accompany solo vocalists and solo instrumentalists through individual instruction. Membership by audition.

173 Guitar Ensemble 1 credit
 Study, performance and recording of music for multiple guitars and bass from Renaissance through twentieth-century composers including American jazz and rock styles. Repertoire includes original works, transcriptions, and arrangements. Opportunities provided for students to learn improvisation, composition, and arrangement.

174 Guitar Small Ensemble 1 credit
 The study and performance of music for guitar and diverse instruments, including bass and drums. At least one major performance per semester.

181 Orchestra 1 credit
 Study and performance of music from early Baroque through contemporary. Basic orchestral performance skills and player responsibilities are discussed for ensemble playing. Four major performances a year. Membership by audition.

182 Instrumental Jazz Ensemble 1 credit
 Study and performance of instrumental jazz in various styles with exposure to improvisation. Formal concert is presented each semester, and informal campus appearances occur on a regular basis. Membership by audition.

183 Jazz Singers 1 credit
 Study and performance of vocal jazz in various styles. Group is limited in size, thus allowing each member to develop independence in singing and microphone technique. Membership by audition.

185 Symphonic Band 1 credit
 Study and performance of original works for wind-band; transcriptions, manuscripts, and solo repertoire with band accompaniment. Three rehearsals per week; regular series of concerts, including regional, national and international tours. Private lessons recommended. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement in the core curriculum.

186 Symphonic Wind Ensemble 1 credit
 This course is designed for the advanced woodwind, brass and percussion student. A select group of approximately forty musicians studies and performs music primarily written for the wind ensemble genre. Literature studied and performed comes from a diversity of cultures and style periods. The Wind Ensemble gives public performances on a regular basis throughout the school year including regional, national and international tours. Meets three times a week. Membership by audition. Four semesters of participation fulfill the Fine Arts requirement in the core curriculum.

190 Music Theater Production 1 credit
 Musical and dramatic preparation of a musical show or opera, leading to complete performance with costumes, set and orchestra. Participation by audition.

191 Music Theater Scenes 1 credit
 Musical and dramatic preparation of scenes from musical shows or operas. An informal performance may be presented. Participation by audition.

196 Topics Ensembles 1 credit
 The ensemble(s) will be announced in the annual Class Schedule. Content will vary but will not duplicate existing ensembles.

Performance Studies (MUSP)

Performance studies are generally on an individual basis, although some group lessons are available.

A course fee is charged for all performance studies, based on the length of the lesson.

Elective Level

Performance studies on the elective level are available for all students. No audition is required for elective studies. These courses are designed for non-majors who are interested in beginning or continuing study on an instrument or voice. Students wishing to study piano, having little or no previous study on the instrument, are encouraged to register for group lessons. Half-hour or 50-minute lessons are available. Twelve lessons are scheduled each semester. A minimum of six hours a week practice is required. These courses must be taken for credit. They cannot be audited. Performance studies do not fulfill the Fine Arts requirement.

101 Group Piano 1 credit
 This course is designed for students who have little or no piano background. The small group setting includes work on keyboard technique, reading music, transposing, improvising, playing by ear and harmonizing melodies. Groups are limited to eight students and meet for an hour each week. This course may be repeated.

102 Skills for Piano Proficiency (non-piano majors) 0 credit
 This course teaches the skills required for the piano proficiency exam, which include basic keyboard technique, sight-reading simple melodies, basic accompanying, transposing and harmonizing melodies, scale and arpeggio technique. Students whose principal instrument is other than piano are required to enroll in this course.
 Prerequisite: Music major with principal instrument other than piano.

College of Arts and Sciences – Departments

103	Skills for Piano Proficiency (piano majors)	0 credit
	This course is similar to 102, but designed for the piano proficiency exam required of music majors whose principal instrument is piano.	
108	Class Voice	1 credit
	Designed for non-music majors who wish to study voice and also for non-vocal music majors who wish to develop their singing in a class situation.	
110	Digital Music Lessons	1 credit
	These lessons focus on Hard-Disk Recording and MIDI-Sequencing and are designed with the modern musician in mind. Each week students witness the demonstration of professional recording techniques in one of the UST computerized recording studios. Then they apply their new skills to original compositions in scheduled studio sessions. Some of the subjects covered: Multi-tracking, Automation, Groove Quantizing, Harmonizing, Music Notation, and Miking. Students may have their choice of MIDI-controllers: guitar, keyboard, or drum-machine pads.	
	Prerequisite: Basic computer and music-making skills	
121	Harpichord: elective	1 credit
122	Lute: elective	1 credit
128	Recorder: elective	1 credit
131	Piano: elective	1 credit
133	Voice: elective	1 credit
135	Organ: elective	1 credit
136	Flute: elective	1 credit
137	Oboe: elective	1 credit
138	Clarinet: elective	1 credit
139	Bassoon: elective	1 credit
141	Saxophone: elective	1 credit
144	Trumpet: elective	1 credit
145	French horn: elective	1 credit
146	Trombone: elective	1 credit
147	Euphonium: elective	1 credit
148	Tuba: elective	1 credit
149	Percussion: elective	1 credit
152	Jazz/Pop Vocal: elective	1 credit
	Covers techniques for communicative lyric singing, including repertoire from different eras of the American music spectrum. Considers stage presence, microphone technique, vocal inflection and communication with an accompanist or rhythm section. Improvisation may also be explored.	
153	Jazz Piano: elective	1 credit
	Individual studies with a jazz pianist, developing jazz style and working on improvisation.	
	Prerequisite: Some facility on the piano.	
154	Violin: elective	1 credit
155	Viola: elective	1 credit
156	Cello: elective	1 credit
157	Double Bass: elective	1 credit
158	Guitar: elective	1 credit
159	Harp: elective	1 credit

168 African Drumming: elective **1 credit**
 Study the art and techniques of both hand and stick drumming in West African traditions. Covers a wide variety of repertoire (Agbadza, Kpanlogo, Adowa, Gota, *etc.*), including those performed by the African Music Ensemble.

187 Electric Guitar: elective **1 credit**
 Students will study basic to advanced plectrum and fingerstyle techniques as they apply to the amplified guitar. Other topics will include fretboard theory, improvisation, ensemble performance practice and current technologies in amplification and MIDI applications. Repertoire will include all American popular music styles .

188 Flamenco Guitar: elective **1 credit**
 Students will study the techniques involved in picado, arpeggio, tremolo, and rasqueado. The course includes intensive study of various rhythms and styles including Sevillanas, Soleareas, Alegrias, Siguiryas, Tango, Bulerias, Tiento, *etc.*, and an introduction to basic flamenco dance and song accompaniment. Students will learn about the Gypsy and Moorish influences on the history of this artform.

Performance Level

Performance studies at the performance level are required of music majors on their principal instrument. An audition before the music faculty is required for performance-level studies. Qualified non-majors also may audition. Twelve 50-minute lessons are scheduled each semester. A minimum of 12 hours a week practice is required. These lessons provide an in-depth study of representative literature for the instrument. Juries and recitals are required of all students taking performance-level studies. See the current Handbook for Music Students.

221 Harpsichord: performance 2 credits

231 Piano: performance 2 credits

233 Voice: performance 2 credits

235 Organ: performance 2 credits

236 Flute: performance 2 credits

237 Oboe: performance 2 credits

238 Clarinet: performance 2 credits

239 Bassoon: performance 2 credits

241 Saxophone: performance 2 credits

244 Trumpet: performance 2 credits

245 French horn: performance 2 credits

246 Trombone: performance 2 credits

247 Euphonium: performance 2 credits

248 Tuba: performance 2 credits

249 Percussion: performance 2 credits

254 Violin: performance 2 credits

255 Viola: performance 2 credits

256 Cello: performance 2 credits

257 Double Bass: performance 2 credits

258 Guitar: performance 2 credits

259 Harp: performance 2 credits

265 Music composition **1 credit**
 The course aims at developing the student's own imagination and musical style, as well as providing studies for the developing of technical and notational skills. Individual guidance and group meetings. Half-hour sessions. Prerequisite: 212 and permission of instructor

266 Music Composition **2 credits**
 Same as 265, but 50-minute sessions. Prerequisite: 212 and permission of instructor

College of Arts and Sciences – Departments

Music Proficiencies and Recitals (MUSR)

Piano proficiency is required in all of the major emphases.

Recitals are required in all major emphases and in some minor emphases.

Recitals and proficiencies carry no course credit. All MUSR courses are graded on an S-R basis.

200 Piano Proficiency

0 credit

Required of all majors, piano proficiency should be completed by the end of the second year of study. See the *Handbook for Music Students* for specific details of the proficiency examination.

270 Level I Recital

0 credit

A Level I recital can be given in any semester. It requires a minimum of 15 minutes of music. A student performing at this level usually will be presented on a program with two or three other students.

290 Jazz Recital

0 credit

A Jazz recital is required of all students in the Jazz Studies minor. A minimum of five songs is required with one from each of the following categories: standard; ballad; swing; bossa nova, samba or other Latin style; and bop. Brass, winds and singers must be accompanied by piano, bass and drums. Piano and guitar must be accompanied by bass and drums and play one selection as a soloist without the rhythm section. Bassists will be accompanied by piano and drums and must play the melody on all selections. Percussionists will appear with piano and bass, and will be required to play one selection on vibraphone.

350 Level II Recital

0 credit

A Level II recital can be given in any semester. It requires a minimum of 25 minutes of music. Students performing at this level usually will be presented with one or two other students in the recital.

Prerequisite: 270

400 Festival Orchestra Honors Concert

0 credit

This concert is presented in the spring semester. Professional musicians from the Twin Cities area are hired to form the orchestra, and students are auditioned in December to perform vocal or instrumental music that originally was intended to be presented with orchestra. Festival Orchestra auditions are open to all full-time St. Thomas undergraduate students and graduate students currently enrolled in performance studies. See the *Handbook for Music Students* for details.

450 Level III Recital

0 credit

A Level III recital usually is given in the last semester of the student's work. This is a solo recital and requires a minimum of 45 minutes of music.

Prerequisite: 350

Philosophy (PHIL)

Menssen (chair), Atkinson, Barnes, Clemenson, Coulter, Deavel, Degnan, Discher, Evans, Giebel, Grant, Heaney, Long, Kemp, Kronen, Laumakis, Lemmons, Nash-Marshall, Pannier, Sullivan, van Ingen, Vlahovic, Weitzman, Winter

Philosophy engages questions such as:

- Is the human mind just a very complicated machine?
- Can we have free will if the mind is a machine?
- Must we have free will in order for life to be meaningful?

- What makes an act moral or immoral?
- When, if ever, can a government mandate moral acts or outlaw immoral acts?
- Is it ever permissible to start a war with a preemptive strike?

- Is the design in the world evidence that there is a God?
- Do the world's evils show that a good God cannot exist?
- What is the role of philosophy in dealing with questions about God?

- What is knowledge?
- Can we know anything with certainty?
- Are warrants for knowledge relative to particular cultures?

Philosophy considers these questions, and countless others, from the standpoint of human reason and experience. It emphasizes precise and careful argument, and sharpens your thinking skills.

The philosophy program at St. Thomas will introduce you to distinguished philosophical work over the centuries and into our own time. While attending carefully to writings foundational to the Catholic intellectual tradition, particularly Aristotle and Aquinas, the program is committed to broad integration of our understanding of reality. As you work to construct a philosophical worldview you will engage a variety of traditions, including non-Western, and confront questions prompted by the study of such subjects as the natural and social sciences, mathematics, medicine, business, law, theology, the fine arts, and literature.

Major in Philosophy

- 115 Philosophy of the Human Person
- 214 Introductory Ethics
- 220 Logic

Plus sixteen credits in the history of philosophy

- Four credits in ancient philosophy
- Four credits in medieval philosophy
- Four credits in modern philosophy
- Four credits in contemporary philosophy

Note: Philosophy courses count as satisfying one of these historical area requirements if at least half of the content is in the specified area.

A four-credit course that is divided between two areas in the history of philosophy may satisfy two different area requirements. For instance, a four-credit topics course on medieval Islamic responses to Plato and Aristotle could count both as a four-credit course in ancient philosophy, and as a four-credit course in medieval philosophy.

A range of courses is available to satisfy each of the four area requirements. Consult the philosophy department for annual listings of these courses (including topics courses).

Plus:

Additional coursework in Philosophy to bring the total number of credits in philosophy to 44. Four of the 44 credits must be in a writing-intensive 400-level course.

Double majors may consult a major advisor about the possibility of reducing the total number of credits required for a philosophy major from 44 to 36.

Minor in Philosophy

- 115 Philosophy of the Human Person
- 214 Introductory Ethics

Plus:

Twelve additional credits in philosophy. It is recommended that minors take PHIL 220 Logic.

115 Philosophy of the Human Person

An examination of fundamental conceptions of the human person in ancient, medieval and modern philosophy. Possible topics include: the existence and immortality of the human soul, free will and determinism, the immateriality of the intellect, the relationship between mind and body, and the relevance of different conceptions of the human person for ethics and religion. Attention is given to relevant issues of human diversity. The development of logical and critical thinking receives special attention. This course, with PHIL 214, fulfills the Moral and Philosophical Reasoning requirement in the core curriculum.

200 Ancient Philosophy

A survey of the roots of philosophical inquiry in the classical period. The pre-Socratics, Plato, and Aristotle.
Prerequisite: 115

202 Medieval Philosophy

An investigation of major philosophical problems in their medieval context. Possible topics include: faith and reason, free will, the role of authority, and the existence of God.
Prerequisite: 115

204 Modern Philosophy

An examination of major philosophers of the early modern period from René Descartes to Immanuel Kant, with emphasis on methodology and claims to knowledge.
Prerequisite: 115

208 Indian Philosophy

An examination of the primary texts and problems that form the basis of Hindu, Buddhist, or Zoroastrian thought. Metaphysical and ethical themes will be considered.
Prerequisite: 115

210 Chinese Philosophy

An examination of the primary texts and problems that form the basis of Confucianism, Daoism, or Chinese Buddhism. Metaphysical and ethical themes will be considered.
Prerequisite: 115

214 Introductory Ethics (215)

An inquiry into the rational foundations and methods of ethics, with attention to the application of ethical principles to areas of personal conduct, institutional behavior and public policy, and diversity within and across cultures. This course, with PHIL 115, fulfills the Moral and Philosophical Reasoning requirement in the core curriculum.

Prerequisite: 115

215 Introductory Ethics (214)

An inquiry into the rational foundations and methods of ethics, with attention to the application of ethical principles to areas of personal conduct, institutional behavior and public policy, and diversity within and across cultures. Special emphasis will be placed on the consideration of the similarities and differences found by comparing important Eastern (i.e., Confucian, Hindu, Buddhist, and Taoist accounts) and Western (i.e., Platonic, Aristotelian, Thomistic, Kantian, and Millian accounts) ethical theories. This course, taught at the University of Hawai'i during J-term, with PHIL 115, fulfills the Moral and Philosophical Reasoning requirement in the core curriculum.

Prerequisite: 115

220 Logic

This course provides students with skills for identifying, analyzing, and evaluating the sorts of reasoning encountered in natural language. Emphasis will be placed on attaining facility with different formal systems for representing and evaluating arguments – including propositional logic, Aristotelian syllogistic, first-order predicate calculus, and some of their simple extensions – as well as on acquiring the ability to apply these systems in the analysis and evaluation of arguments in ordinary and scientific discourse.

Prerequisite: 115

234 Love, Sex and Friendship (CATH 234)

A philosophical examination of the nature of human love. Possible topics include reciprocity and permanence, fidelity, romantic love, human sexuality, kinds of friendship. Special attention will be given to the thought of John Paul II.

Prerequisite: 115

240 Faith and Doubt (CATH 240)

Philosophical arguments for and against the possibility of divine revelation. Special attention will be given to the claim that the faith of the Catholic Church is revealed. Possible topics include tests of alleged revelations and miracles, evil as a barrier to belief in revelatory claims, the compatibility of science and religion, the role of reason and faith in religious commitment, and personal decision-making in a state of doubt about evidence.

Prerequisite: 115

250 Christian Mysteries from a Philosophical Viewpoint (CATH 250)

A consideration of philosophical problems associated with Catholicism. Possible topics include divine providence, creation, the soul, freedom of the will, faith, the Eucharist, the Incarnation, and the variety of religious beliefs.

Prerequisite: 115

260 Philosophy of Science and Nature

An examination of central topics in the philosophy of science and nature. Possible topics include reductionism in science, the analysis of change, the nature of scientific explanation, causation and natural teleology, and the meaning of scientific theories. Attention will be paid to works in both the classical and contemporary periods.

Prerequisite: 115

272 Evolution and Creation (CATH 272)

A philosophical examination of the relation between the doctrine of creation and theories in the evolutionary sciences. The course will consider arguments concerning evolution and creation from a variety of disciplines (including philosophy, theology, and natural science). The course will also examine historical and philosophical aspects of the relation between science and religion on the origins of the material world and the human race.

Prerequisite: 115

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

306 Contemporary Philosophy

An investigation of major philosophical problems from the late nineteenth century to the present, with a focus on prominent philosophers and diverse traditions.

Prerequisite: 220

320 Aristotelian Logic

A study of Aristotle's *Organon*, covering such topics as the categories, the nature of propositions, forms of argument. Emphasis on demonstration (proof of necessary truths) and its distinction from dialectical reasoning. Applications to philosophical texts.

Prerequisite: 220

325 Intermediate Symbolic Logic

A study of developments in twentieth-century symbolic logic. Possible topics include axiomatic systems, set theory, extensions of predicate logic (such as predicate logic with identity, quantified modal logic, relevance logic, deviant logics), and metatheorems (such as soundness and completeness theorems).

Prerequisite: 220

330 Philosophy of Mind

A study of central issues in the philosophy of mind and soul. Possible topics include the relation between mind and body; the senses, emotions, intellect and will; personal identity. Attention will be given to both the Aristotelian/Thomistic tradition and contemporary philosophy.

Prerequisites: 115 and 220 or permission of instructor

340 Thought of Thomas Aquinas

An examination of some major topics in the philosophy of Thomas Aquinas. Possible topics include: Aquinas' conception of philosophy and its relation to faith; God; and the destiny of the human being. Satisfies requirement in medieval philosophy.

Prerequisite: 115 and one other PHIL course

350 Advanced Ethical Theory

An advanced treatment of central aspects in ethical theory. Possible topics include justification of normative theories (*e.g.*, eudaimonism, deontology, consequentialism) and metaethical issues (*e.g.*, the is/ought problem, moral realism, naturalism). May satisfy a requirement in Philosophy through the Ages, depending on choice of materials.

Prerequisite: 214 or 215

353 Machiavelli, Hobbes and Nietzsche

An examination of three central figures in the history of political theory, and the challenge each presents to the moral evaluation of the use of political power.

Prerequisite: 214 or 215

354 Biomedical Ethics

An investigation of ethical problems in medicine and biological technology. Possible topics include: genetic engineering, experimentation with human subjects, the right to health care, and the concept of mental illness.

Prerequisite: 214 or 215

356 Contemporary Social Issues

An investigation into conceptions of the human person, ethics, and the law related to current issues with public policy implication. Issues chosen at the discretion of the instructor.

Prerequisite: 214 or 215

357 Political Philosophy

A study of the nature and justification of political authority. Possible topics include natural rights, liberty and equality, the common good and its relation to the individual good, the place of liberty and equality and the common good in justifying state action. Attention is given to both classical and contemporary authors.

Prerequisite: 214 or 215

358 Environmental Ethics (ENVR 301)

Consideration of the ethical issues arising from human interaction with the environment, including population pressure, pollution, conservation and preservation. Focus is on the grounds of our obligation to resolve such issues; the question of what persons and things are worthy of moral consideration; and the respective roles of individuals, organizations and government in addressing environmental problems. Case studies will be used to trace the implications of various ethical and political theories.

Prerequisites: 214 or 215 and ENVR 151 (ENVR 151 is waived for philosophy majors and minors)

359 Philosophy of Law

A study of philosophical problems connected with human law and legal institutions. Possible topics include the nature and kinds of law, the relation of law and morality, analysis of legal concepts, the nature and justification of punishment, the principles of legal interpretation and reasoning. Attention will be given to both classical and contemporary authors.

Prerequisite: 214 or 215

College of Arts and Sciences – Departments

360 Philosophy of Religion

Western and non-Western philosophical arguments concerning the nature and justifying bases of religious belief, with special attention to the philosophical implications of religious pluralism.

Prerequisites: 115 and one other PHIL course

380 Epistemology

This course considers various accounts of the nature, origin, and limits of human knowledge. Attention will be paid to the main figures in the Western tradition as well as to contemporary authors.

Prerequisite: 220

390 Metaphysics

This course examines the possibility of, as well as the need for, a general study of reality beyond that pursued by the particular science. Possible topics include the appearance/reality distinction, substance, the self, universals and particulars, unity, truth, goodness, beauty, and God. Attention will be paid to both classical and contemporary authors.

Prerequisite: 220

410 Colloquium: Philosophical Research

An advanced course in philosophical research, writing, and presentation. On a topic chosen in consultation with the instructor, students will submit at least two drafts of a substantial paper on a major problem or debate in philosophy. Students will be expected to meet every other week as a group to discuss the progress of their projects and critique preliminary drafts of one another's work. An oral presentation of the final draft is required.

Prerequisites: 214 or 215 and 220

460 Philosophy of God

Systematic treatment of philosophical arguments concerning the existence and attributes of God.

Prerequisites: 220 and 390

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the "Curricula" section of this catalog.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the "Curricula" section of this catalog.

Physics (PHYS)

Johnston (chair), Green, Lane, Nollenberg, Ohmann, Tommet; Blilie, Koser

Physics majors learn the fundamental laws that govern the physical universe, from the smallest subatomic particle to the largest galaxies to the very structure of space and time. Emphasis is placed on general understanding, problem solving, and the communication skills essential for success in a career grounded in science. In the laboratory, students use state-of-the-art instrumentation in applying physics to a wide variety of systems. Opportunities are available for students to participate in research projects during the school year and over the summer.

There are three educational options from which to choose: a Bachelor of Science (B.S.) degree; a Bachelor of Arts (B.A.) degree; or a minor in physics. The B.S. degree provides the necessary background for students interested in graduate school, engineering or industrial work; for students interested in professional programs such as medicine or patent law, or students double majoring in areas such as mathematics or chemistry, the Bachelor of Arts degree gives a solid background in physics with the flexibility to meet other needs.

For students interested in teacher licensure, see the various combinations of science education in the School of Education Department of Teacher Education in this catalog.

The department offers courses for non-majors to fulfill the laboratory science component of the core curriculum.

Graduation with Honors in Physics

Students graduating with a B.A. or B.S. degree in physics may also qualify for departmental honors. Students interested in this designation must consult with the department chair one year or more before graduation. All requirements must be met one month before graduation.

1. Complete four credits in 400-level physics research
2. Prepare a written thesis in the format of primary literature
3. Defend the thesis before a panel composed of:
 - thesis director (chair of committee)
 - two additional UST physics faculty
 - one UST faculty member outside of physics
4. Achieve a final cumulative grade point average in physics department courses of 3.50 and 3.50 overall
5. Present their research at a scientific meeting beyond the St. Thomas community

Major in Physics (B.S.)

- 111 Introduction to Classical Physics I
- 112 Introduction to Classical Physics II
- 225 Introduction to Modern Physics I
- 226 Introduction to Modern Physics II
- 300 Physics Seminar I (1 credit)
- 301 Physics Seminar II (1 credit)
- 323 Methods of Experimental Physics
- 331 Theoretical Mechanics
- 341 Electricity and Magnetism
- 347 Optics
- 410 Statistical Mechanics and Thermodynamics
- 431 Quantum Mechanics

Plus:

four PHYS credits 104 or greater

Allied requirements

- MATH 113 Calculus I
- MATH 114 Calculus II
- MATH 200 Multi-Variable Calculus
- MATH 210 Linear Algebra and Differential Equations

Plus either:

- ENGR 350 Introduction to Electronics
- or*
- ENGR 230 Digital Design and ENGR 240 Circuit analysis

Plus one of:

- QMCS 230 Software Design Using the JAVA Language
- QMCS 342 Computer Applications in Experimental Sciences

Major in Physics (B.A.)

- 111 Introduction to Classical Physics I
- 112 Introduction to Classical Physics II
- 225 Introduction to Modern Physics I
- 226 Introduction to Modern Physics II
- 300 Physics Seminar I (1 credit)
- 301 Physics Seminar II (1 credit)
- 323 Methods of Experimental Physics

Plus:

four PHYS credits 104 or greater
eight PHYS credits above 301

Allied requirements

- MATH 113 Calculus I
- MATH 114 Calculus II
- MATH 200 Multi-variable Calculus
- MATH 210 Linear Algebra and Differential Equations

Plus either:

- ENGR 350 Introduction to Electronics
- or*
- ENGR 230 Digital Design and ENGR 240 Circuit analysis

College of Arts and Sciences – Departments

Plus one of:

- QMCS 230 Software Design Using the JAVA Language
QMCS 342 Computer Applications in Experimental Sciences

Teacher Licensure

Elementary Education with a Co-major in Science and Mathematics for Elementary Education
Elementary Education with a Specialty in Science (5-8)
Co-major in Science (5-8) – Physics (9-12) and a Co-major in Secondary Education
See School of Education Department of Teacher Education

Minor in Physics

One of:

- 109 General Physics I
111 Introduction to Classical Physics I

Plus one of:

- 110 General Physics II
112 Introduction to Classical Physics II

Plus:

twelve PHYS credits 104 or greater

101 Physics as a Liberal Art I (109, 111)

Intended for non-science majors; treats fundamental principles of physics and their application to familiar phenomena, stressing qualitative understanding. The course will survey topics from mechanics, fluids, temperature and heat, oscillations, waves and sound, light and optics, and properties of matter. The course consists of lecture, discussion and laboratory. This course is designed especially for elementary education majors. It is not intended for students who have had high school physics.

Prerequisite: Three years of high school mathematics

102 Physics as a Liberal Art II (110, 112)

This course is intended for students who have completed PHYS 101 and wish to continue their study, or for those who have had high school physics. It is organized around a thematic approach and includes specifically studies of a) electric charges and related forces, b) commonly observed light behavior, and c) interactions of light and particles. The course consists of lecture, discussion, and laboratory.

Prerequisite: 101 or high school physics

104 Astronomy

Introduction to physical principles and their application to astronomy for non-science majors. Emphasis is on comprehension of ideas and principles. Topics include the motions of the sun, moon, stars and planets; properties of the solar system; the stars including giants, dwarfs, pulsars and black holes; nebulae, galaxies and quasars; cosmology and life. The course consists of lecture, discussion and laboratory.

Prerequisite: Three years of high school mathematics

105 Musical Acoustics

An introductory course intended for non-science majors; treats fundamental principles of physics and acoustics as they relate to musical sounds and musical instruments. The course consists of lecture, discussion and laboratory. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: High school algebra and a music background (one year practice, instrument or voice, or one course)

109 General Physics I (111)

This course and its continuation PHYS 110 serve as a two-semester introduction to classical and modern physics. Applications are chosen that focus on the life-sciences. Topics include principles of classical mechanics: description of motion, force, torque and rotational motion, energy, momentum and their conservation, fluid mechanics; thermodynamics. The course meets three times a week for two consecutive periods consisting of integrated lecture, discussion and laboratory.

Prerequisite: Math placement at a level of MATH 111 or above.

110 General Physics II (112)

Continuation of 109. Topics include oscillations, waves and sound, electricity and magnetism; light and optics; atomic, quantum and nuclear physics. The course meets three times a week for two consecutive periods consisting of integrated lecture, discussion and laboratory.

Prerequisite: A minimum grade of C in 109 or 111

111 Introduction to Classical Physics I (109)

This course and its continuation 112 serve as a two-semester introduction to classical physics. Applications are chosen that focus on engineering and the physical sciences. Topics include principles of classical mechanics: vectors, kinematics, particle and rigid body rotational dynamics and statics; conservation laws; and thermodynam-

ics. The course meets three times a week for two consecutive periods consisting of integrated lecture, discussion and laboratory.

Prerequisite: A minimum grade of C in MATH 113

112 Introduction to Classical Physics II (110)

Continuation of 111. Topics include waves and sound; electricity and magnetism; geometric and physical optics. The course meets three times a week for two consecutive periods consisting of integrated lecture, discussion and laboratory.

Prerequisites: A minimum grade of C in both 111 and MATH 114

225 Introduction to Modern Physics I

This course and its continuation 226 serve as an introduction to modern physics. The topics of this first course are quantum theory of light, particle nature of matter, wave aspects of particles, quantum mechanics in one-dimension, statistical physics, lasers, solid state physics. The course consists of lecture, discussion and laboratory. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: A minimum grade of C in 112 and in Math 200

226 Introduction to Modern Physics II

Continuation of 225. Topics include atomic structure, molecular structure, relativity, nuclear physics, elementary particles, other topics of contemporary interest. The course consists of lecture, discussion and laboratory. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: A minimum grade of C in either 110 or 112 and in Math 114

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Physics Seminar I

1 credit

This course and 301 are a sequence of two courses taken during the spring semesters of the junior and senior years. The goal of the course is to provide an overview of physics, relating ideas and concepts presented in other physics classes as well as in research investigations within the department. Additionally, students will be exposed to topics presented by outside speakers and will learn about opportunities that a physics degree provides, smoothing the transition between being a physics student and becoming a physicist.

Prerequisite: A minimum grade of C in either 225 or 226

301 Physics Seminar II

1 credit

Continuation of 300

Prerequisite: A minimum grade of C in either 225 or 226

323 Methods of Experimental Physics

Introduction to some of the standard tools of experimental physics. Topics include: data acquisition and instrument control, data analysis, error analysis, electron optics, vacuum techniques, and experiment design. The course consists of lecture, discussion and laboratory.

Prerequisite: A minimum grade of C in either 225 or 226 and in either ENGR 240 or 350 and in Math 200

331 Theoretical Mechanics

Newtonian dynamics of particles and systems of particles; conservation laws; moving coordinate systems; central-force motion; collisions and scattering; plane and general motion of rigid bodies; free, forced and coupled oscillations; Lagrangian dynamics. Lecture and discussion.

Prerequisites: A minimum grade of C in either 225 or 226 and in MATH 200 and MATH 210

341 Electricity and Magnetism

Electrostatic and magnetostatic fields in vacuum and material media; energy and force relations; methods for the solution of static problems; fields and currents in conducting media; Maxwell's equations and time-dependent fields. Lecture and discussion.

Prerequisites: A minimum grade of C in either 225 or 226 and in MATH 200 and MATH 210

342 Electromagnetic Waves (ENGR 342)

A continuation of 341. An introduction to the practical applications of Maxwell's equations including propagation, reflection and absorption of electromagnetic waves. Applications include antennas, waveguides, transmission lines, and shielding from electromagnetic interference. Lecture and discussion.

Prerequisite: A minimum grade of C in 341

347 Optics

The nature of light. Geometrical optics, image formation, and optical instruments. Interference, diffraction, and polarization. Lasers, holography, and other aspects of physical optics. Lecture, discussion, and laboratory.

Prerequisite: A minimum grade of C in 225 and MATH 200

College of Arts and Sciences – Departments

410 Statistical Mechanics and Thermodynamics

Concepts and laws of thermodynamics and of statistical mechanics. Applications of these to various systems, including gases, liquids, solids and chemical systems. Lecture and discussion.

Prerequisite: A minimum grade of C in 225, 226, and both MATH 200 and MATH 210

431 Quantum Mechanics

Application of quantum mechanics to advanced problems in modern physics; perturbation theory; spin and its effects; identical particles; many-electron atoms; topics in scattering theory and nuclear physics. Lecture and discussion.

Prerequisite: A minimum grade of C in 225, 226, and both MATH 200 and MATH 210

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Political Science (POL)

Farlow (chair), Hatting, High-Pippert, Hoffman, Toffolo

The program of courses offered by the Political Science Department is designed to enable students to acquire an understanding of political processes, governmental institutions, and theories of politics.

As one of the liberal arts, political science enables students to develop skills in communication and analytic problem solving that are useful in a wide variety of careers, including business. More specifically, the major in political science prepares students for the study of law, graduate programs in political science or public administration or for careers in government, politics, the non-profit sector, or teaching.

Students graduating with a major in political science will have a broad overview of the discipline, as well as substantive familiarity with at least two of the four political science sub-fields: American politics, comparative and international politics, law and judicial politics, and political thought. At various points in their study of political science, majors will develop a wide variety of skills, including skills related to the carrying out of research projects, the interpretation of empirical data, and the presentation of their work to a wider audience.

Students majoring in Political Science must take a minimum of sixteen credits in political science at St. Thomas.

The department also offers courses for non-majors to fulfill the Social Analysis component of the core curriculum.

Political Science Honor Society

Pi Sigma Alpha, the national political science honor society, established the *Chi Theta* chapter at St. Thomas in 1999. The purpose of *Pi Sigma Alpha* is to acknowledge superior performance in the study of political science, to forge closer links between faculty and political science majors and minors, and to stimulate political interest in the St. Thomas community.

Pi Sigma Alpha is open to juniors and seniors who meet the following qualifications for membership. Students must have completed at least three political science courses and be currently enrolled in or have taken a fourth. Two of the four courses must be UST political science courses, and one of the four must be at least a 300-level course. Additionally, students must have a grade point average of at least 3.00 in political science courses and be within the top third of their graduating class.

Major in Political Science

105 Politics and Government in Comparative Perspective

205 Introduction to the American Public Policy Process

225 Introduction to World Politics

275 Introduction to Political Thought

Plus:

Sixteen credits in 300-level courses

(completed in at least two of the four sub-fields)

Plus:

One 400-level seminar

Four elective credits

Note: While students are encouraged to take an experiential learning course (475, 476, 477, 478), these internships do not normally fulfill a major field requirement.

Teacher Licensure

Elementary Education with a Specialty in Social Studies (5-8)

Co-major in Social Studies (5-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education.

Minor in Political Science

105 Politics and Government in Comparative Perspective

Plus two of:

205 Introduction to the American Public Policy Process

225 Introduction to World Politics

275 Introduction to Political Thought

Plus:

Twelve credits in 300-level courses

(completed in at least two of the four sub-fields)

One 400-level seminar may be completed in place of a 300-level course.

Recommended Sequencing

1. Students enrolling in POL courses, especially those desiring a major or minor field concentration in political science, are strongly advised to begin with 105 before enrolling in any of the 200-level core courses.
2. Students should normally complete successfully the appropriate 200-level core course before enrolling in any of the 300-level courses in that sub-field.
3. While these expectations do not constitute formal prerequisites, students who deviate from these recommendations may not be as well prepared for more advanced courses as those who observe them.

Prerequisites

1. Students who intend to complete a major or minor in political science may not enroll in a 400-level seminar unless they have completed successfully a 200-level or 300-level course in the sub-field of the 400-level seminar.
2. Students who are not pursuing a major or minor in political science must obtain permission of the instructor of a 400-level seminar and the department chair to enroll in that seminar if a 200-level or 300-level course has not been completed in the sub-field of the seminar.

101 American Government and Politics

An introduction to the political system of the United States, including the Constitution, federalism, the three branches of government, elections, political parties, interest groups, and public policies. The role of public opinion and citizen participation will also be examined. *Note:* This course does not fulfill the introductory course requirement of the major or minor in political science. It does not fulfill the core curriculum requirement in Social Analysis.

105 Politics and Government in Comparative Perspective

An introduction to concepts basic to an understanding of politics and government, such as power, authority and legitimacy. A comparative examination of political processes, decision-making institutions and policy issues in the contemporary world. Countries surveyed will include the United States, the United Kingdom, Russia or China and selected third-world political systems. This course fulfills the Social Analysis and Human Diversity requirements in the core curriculum.

205 Introduction to the American Public Policy Process

A survey of the way public policy is made in the American political system including agenda-setting, formulation of alternative policy choices, representation of interests and selection and implementation of policy options. Public policy case studies will be used as illustrations. Students also will be introduced to data analysis as a tool for policy evaluation. This course fulfills the second-level Computer Competency requirement in the core curriculum.

225 Introduction to World Politics

An overview of the contemporary international political system that examines the nature of power in global politics, particularly the transition from a bipolar to a post-cold war world. Emphasis is given to the changing relationships among the great powers, such as the United States and Russia, and to the interaction between the industrialized democracies of the North and the less-developed states of the South. Issues that cut across international politics – arms proliferation, the debt crisis, terrorism, resurgent nationalism – are examined. The course also analyzes the role and impact of non-state actors, such as the United Nations and multi-national corporations, on the international system.

College of Arts and Sciences – Departments

275 Introduction to Political Thought

By examining the ideas of some major political thinkers and contemporary political ideologies, this course introduces students to the central philosophical issues which confront every political system: What is political community? What is justice? How are individuals related to the state? What is power and how should it be allocated? What are the best ways for a society to deal with conflict and change? Are equality and/or individual freedom desirable ideals? Teaches students how to look critically at their political assumptions and to read political philosophy texts.

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

301 American Political Behavior

An examination of the political attitudes and behavior of the public, as well as the linkages between the public and their government. Topics include: public opinion; political psychology; political participation; voting; elections; political parties; interest groups; and the mass media. The emphasis is on the American system, but comparisons will be made with other democratic systems. Attention also will be paid to survey research as a principal method by which these topics are studied.

302 Women and Politics

An examination of the political involvement of women. Topics include: the representation of women, feminism as a social movement, the campaign strategies and styles of women candidates, the election of women to local, state, and national office, and the differences that women make in public office. Emphasis is on women in the United States, but comparisons will be made with women in other countries.

303 Urban and Metropolitan Politics and Government

An examination of the nature and role of urban and metropolitan places in American civic life. The evolution of cities from villages to metropolitan areas is examined. Topics examined include: the structure of American urban government, the role of community-based organizations in urban governance, the city as a vehicle for social segregation, the city as an economic entity and the relationship between cities and an increasingly global society.

305 Congress and the Presidency

An examination of the development and contemporary operation of the legislative and executive branches of government, focusing particularly on the interaction between them in the policy-making process. Topics include: the evolution of selection processes; the growth of careerism in the legislature; increasing complexity and bureaucratization of both branches; the nature of representation; the role of political parties; and the expansion and contraction of each branch's powers relative to the other. Primary attention will be on Congress and the presidency, but parallels also will be drawn with state legislatures and governors.

307 Public Policy Analysis and Administration

An examination of the processes underlying the formation, implementation and administration of public policy. The nature of administrative organizations is studied, as is recent literature on contemporary organizational theory. A variety of techniques commonly used in public sector organizations, including experimental designs, benefit-cost analysis and risk assessment are explored. Emphasis will be placed upon the historical character of American public administration and its changing role in American society.

312 Judicial Process

An examination of the relationship of law and judicial policy-making to American political culture. The selection, powers and operation of American courts – trial and appellate, federal and state; the evolution of the judiciary in American constitutional history with emphasis on the decision-making process; relations with law enforcement agencies, the legal profession, interest groups, executive and legislative institutions.

313 Constitutional Law and Politics

The Supreme Court as a legal and political institution; leading cases and related materials on the presidency, Congress, the judiciary, federalism and national emergency.

314 Constitutional Rights and Liberties

The Supreme Court as a legal and political institution; leading cases and related materials on the Bill of Rights and the Fourteenth Amendment, including the freedom of speech and press, the freedom of religion, the rights of the criminally-accused and equal protection of the laws.

316 Environmental Policy (ENVR 351)

An examination of environmental policy outcomes generated by institutions and organizations, including legislation, court decisions and administrative decisions. Additional focus is on the nature of the decision-making process and those methods commonly used to assess public policy.

Prerequisite: 101 or 105 or permission of instructor

320 American Foreign Policy

Examination of the traditional American approach to foreign policy; America's post-World War II role in the world; the roles of the president and Congress in the making of foreign policy; the foreign-policy bureaucracy; nuclear-weapons policy; contemporary American foreign policies.

321 Comparative Foreign Policy

Analysis of the domestic and external determinants of foreign-policy behavior. The general processes discovered by analysis will be examined on a comparative basis in the foreign policies of the major powers.

326 International Law and Organizations

The nature and role of international organizations with special emphasis on the United Nations and its affiliated specialized agencies. The function of law in the international setting: the concept of sovereignty; recognition; the law of the seas; aggression; the International Court of Justice.

350 Comparative Politics of the New Europe

A comparative analysis of governmental structures, political culture, political economy, and political behavior across a broad range of political systems in post-cold war Europe, ranging from the United Kingdom, France and Germany, to the emerging democracies and market economies of Poland, Hungary, the Czech Republic and Russia. The impact of resurgent nationalism is also examined. Regional developments and organizations, such as the European Union, and NATO, are included in the attempt to explain the political dynamics of the "new Europe."

352 Third World Politics and Government

A survey of the governments, politics and economics of "third world" countries. Also includes an overview of colonialism and its legacy, strategies for economic and political development, and such common problems as the effects of rapid social change, controversy over forms of government, and the linkages and tensions between the North and the South. Films and novels from and about representative countries will be used as one means by which these issues are examined. This course fulfills the Human Diversity requirement in the core curriculum.

372 Political Thought from Plato to Marx

Using both original sources and secondary texts, this course introduces students to the political writings of Plato, Aristotle, Augustine, Aquinas, Machiavelli, Hobbes, Locke, Rousseau, Hegel and Marx. These thinkers are examined both for their historical importance and for the insights they can provide into contemporary political problems. Other theorists of the periods will be given consideration when appropriate.

373 Political Thought from Marx to the Present

Using original sources and secondary texts, this course examines some major trends in political theory from Karl Marx to the present. Although the emphasis may shift, topics to be covered include: developments in Liberalism from J.S. Mill to Rawls; developments in western Marxism; post-modernist political thought; participatory democracy; and feminist political theory.

375 American Political Thought

A survey of important American political thinkers, such as Jefferson, Thoreau, Dewey, Lincoln, Debs, Mencken, and Walzer from the 17th century to the present; includes analysis of the relevance of American political experience to abiding questions in normative political philosophy.

404 Seminar in American Politics

414 Seminar in Law and Judicial Politics

424 Seminar in International Politics

454 Seminar in Comparative Politics

474 Seminar in Political Thought

Seminars in political science provide an opportunity for students to synthesize and further develop knowledge gained in earlier courses and enhance their critical and analytical skills. Students in the seminars will engage in reading and discussion and undertake a major research project pertinent to the seminar's topic. Specific topics or themes of each seminar will vary. Seminars are offered in each of the sub-fields of the discipline.

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the "Curricula" section of this catalog. Specific possibilities in political science include:

Administrative internship

Fifteen hours per week of supervised practical government experience in an administrative agency plus a term paper and regular conferences with the supervising instructor.

Prerequisites: 205 plus previous or concurrent enrollment in 307

College of Arts and Sciences – Departments

Legislative internship

Fifteen hours per week of supervised work assisting a legislator or legislative committee plus a term paper and regular conferences with the supervising instructor.

Prerequisites: 205 plus previous or concurrent enrollment in 305

Field work in practical politics

Fifteen hours per week of supervised work in a political campaign or with a political party or interest group plus a term paper and regular conferences with the supervising instructor.

Prerequisites: 205 plus previous or concurrent enrollment in 301

Legal Internship

Fifteen hours per week of supervised work experience in an agency or office engaged in the legal process plus assigned readings, a term paper and regular conferences with the supervising instructor.

Prerequisites: 205 plus previous or concurrent enrollment in 312.

480 Research Seminar

Empirical research in political science, building upon and furthering skills developed in 105 and 205. Students will undertake an independent research project. Recommended for students planning to enter a graduate program in political science.

Prerequisites: 105, 205, and permission of instructor

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Psychology (PSY)

Johnson (chair), Amel, Buri, Chalkley, Giebenhain, Mabry, Robinson-Riegler, Scott, Tauer

The courses and programs offered by the Department of Psychology are meant to be a part of a liberal arts education, teaching the basic principles and theory of psychology, the scientific study of human behavior, mental processes, and emotions. The psychology programs are designed to prepare students with the analytical and technical skills necessary for graduate study in psychology and for careers in human services and other occupations for which a psychology background is valuable. Courses are offered that introduce psychology to non-majors, enabling students to make practical applications of psychology to their own lives.

Students who graduate with a major in psychology will be able to write a research paper written in accordance with guidelines set forth by the American Psychological Association (APA). They will be trained in those research and statistical skills frequently employed in the field of psychology. They will be able to complete an independent research project, and write a synthesis of the psychological literature in an area of psychological interest.

Students majoring in psychology must successfully complete a minimum of twenty-four credits in psychology at St. Thomas.

The department also offers courses for the non-major to fulfill the Social Analysis component of the core curriculum.

Psychology Honor Society

Psi Chi, the National Honor Society in psychology, was founded in 1929 for the purpose of encouraging, stimulating, and maintaining excellence in scholarship and advancing the science of psychology. The St. Thomas chapter was established in 1997. Students who have a grade point average of at least 3.00 in psychology, rank in the highest 35 percent of their class, and who have completed at least three semesters of college coursework, including nine hours in psychology, are eligible to apply for membership.

The Department of Psychology also recognizes selected students each year for outstanding research, service, and academic achievements.

Major in Psychology

- 111 General Psychology
- 212 Research Methods in Psychology
- 422 History and Systems (to be taken during the senior year)

Plus two laboratory courses from:

- 321 Current Research Issues in Social Psychology
- 322 Sensation and Perception
- 323 Learning and Memory
- 401 Physiological Psychology
- 415 Research Issues in Cognition

Plus one of:

- 200 Psychology of Infancy and Childhood
- 202 Lifespan Development (students may not receive credit for both 202 and 200)
- 203 Psychology of Adolescence
- 204 The Psychology of Adulthood and Aging

Plus one of:

- 121 Social Psychology
- 301 Psychopathology
- 302 Personality Theories

Plus one of:

- 206 The Brain and Human Behavior
- 315 Cognition
- 400 Seminar in Cognitive and Language Development

Plus:

Twelve elective credits in psychology

A total of 44 credits in psychology are required for the major. Twenty of the 44 credits in psychology must be 300- or 400-level courses.

Allied requirements

All of the following or an adequate substitute approved by the chair:

- BIOL 101 General Biology or 105 Human Biology

Plus:

- MATH 101 Finite Mathematics
(or MATH 108-109, 111 or 113; students should take highest level for which eligible)

- QMCS 220 Statistics I

Students should take the following courses in the following order:

- MATH 101 (or 108-109 or 111 or 113)
- QMCS 220
- PSY 212

Note: These courses should be taken early in the college career, since they are prerequisites for some required courses in psychology. A student should consult early with her/his department adviser to have her/his plan approved.

Concentration in Behavioral Neuroscience

- 111 General Psychology
- 212 Research Methods in Psychology
- 422 History and Systems (to be taken during the senior year)

Plus one of:

- 200 Psychology of Infancy and Childhood
- 202 Lifespan Development (students may not receive credit for both 202 and 200)
- 203 Psychology of Adolescence
- 204 The Psychology of Adulthood and Aging

Plus one of:

- 121 Social Psychology
- 301 Psychopathology
- 302 Personality Theories

Plus:

- 206 The Brain and Human Behavior
- 207 Alcohol, Other Drugs and Behavior
- 322 Sensation and Perception
- 401 Physiological Psychology

College of Arts and Sciences – Departments

Plus:

Two elective courses in psychology

Allied requirements

All of the following or an adequate substitute approved by the chair:

BIOL 101 General Biology or 105 Human Biology

Plus:

MATH 101 Finite Mathematics

(or MATH 108-109, 111 or 113; students should take highest level for which eligible)

QMCS 220 Statistics I

Students should take the following courses in the following order:

MATH 101 (or 108-109 or 111 or 113)

QMCS 220

PSY 212

Note: These courses should be taken early in the college career, since they are prerequisites for some required courses in psychology.

Recommended:

Those students planning to pursue graduate study in behavioral neuroscience should consider:

493, 494 Research

Additional courses in biology and chemistry (consult the Behavioral Neuroscience adviser)

Teacher Licensure

Elementary Education with a Specialty in Social Studies (5-8)

Co-major in Social Studies (5-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Minor in Psychology

111 General Psychology

Plus two of:

121 Social Psychology

151 Cross-Cultural Psychology

200 Psychology of Infancy and Childhood

202 Lifespan Development (students may not receive credit for both 202 and 200)

203 Psychology of Adolescence

204 The Psychology of Adulthood and Aging

205 Psychology of Women

206 The Brain and Human Behavior

207 Alcohol, Other Drugs and Behavior

212 Research Methods in Psychology

288 Psychology of Marriage and the Family

315 Cognition

Plus two of:

301 Psychopathology

302 Personality Theories

308 Motivation and Emotion

313 Psychological Testing

321 Current Research Issues in Social Psychology

322 Sensation and Perception

323 Learning and Memory

342 Industrial/Organizational Psychology

400 Seminar in Cognitive and Language Development

401 Physiological Psychology

415 Research Issues in Cognition

422 History and Systems

424 Clinical Psychology

428 Theories of Counseling and Psychotherapy

Students should consult early with a department adviser to have their plan approved.

111 General Psychology

An introduction to the research questions, concepts, theories, methods, and findings of psychological science. Although the selection varies with instructor, topics include brain function, psychological testing, sensation and perception, cognition (learning, memory, language), states of consciousness, motivation, human development, personality, origins and treatment of disorders, social behavior, stress and health, and applied psychology (workplace, community, environment). This course fulfills the Social Analysis requirement in the core curriculum.

121 Social Psychology

A survey of theories and research findings in social psychology. Topics covered include attitude change, love and liking, aggression, stereotypes and altruism and conformity.

Prerequisite: 111

151 Cross-Cultural Psychology

This course is designed to cover the issues and themes current in the field of cross-cultural psychology. Examples of such issues include: cultural variation along the lines of collectivism and individualism; psychological principles that might be universal compared to those that are culturally specific; how content and context affect psychological functioning, and variation within as well as between cultures. A range of substantive areas within psychology will be examined, including social, developmental, organizational, cognitive, health psychology, and psychology of emotion. Examples will be drawn from a range of non-Western cultures (*e.g.*, Japan, India, Liberia) as well as various cultures within the United States (*e.g.*, African-American, Hispanic, American Indian). Emphasis will be placed on how Western and non-Western cultures differ from each other, on how non-Western cultures differ from each other, and on how intra-cultural variation also plays important roles in psychological functioning. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 111

200 Psychology of Infancy and Childhood (202)

An introduction to issues and theories of development dealing with infancy, toddlerhood, and early and middle childhood. The course covers physical, intellectual, emotional, personality, and social development. Mechanisms of heredity, as well as the relative effects of heredity and environment also are covered.

Prerequisite: 111

202 Lifespan Development (200)

Principles and theories of development throughout the life span; interplay among the physical, emotional, social and intellectual variables in the process of growth and development.

Prerequisite: 111

203 Psychology of Adolescence

This course reviews the principles, theories, research and application of physical, psychological and social growth during the adolescent's relationships with adults and peers, their sex attitudes and behaviors, moral development and religious values, school and vocational choices, alienation and commitment.

Prerequisite: 111

204 The Psychology of Adulthood and Aging

Theories of and research in physical, emotional, social, personality and intellectual development in adulthood and in old age. This course will emphasize the psychological adjustment to the stresses and demands (*e.g.*, vocation, marriage, retirement, bereavement) the individual encounters during those developmental stages.

Prerequisite: 111

205 Psychology of Women

An examination of physiological, experiential, and social factors affecting the psychological development of women and their status as adults. Topics include: biological and social learning factors in the development of sex roles and other prescribed behavior patterns, the development of performance and intellectual skills, achievement motivation, identity and self-esteem, changing concepts of sex roles, women and psychological disorders, global women's issues, *etc.* This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 111

206 The Brain and Human Behavior

An examination of brain systems that subservise human behavior. Topics include: human development, consciousness, social behavior, cognition, emotion and abnormal behavior.

Prerequisite: 111

207 Alcohol, Other Drugs and Behavior

The course surveys some basic facts and principles of administration, absorption, transport, action, deactivation and elimination of drugs. Various classes of drugs; their effects on mood, behavior, and consciousness; their use and misuse; and phenomena of chemical dependency and its treatment modalities are discussed. Lectures, readings, films, tapes and invited speakers are employed.

Prerequisite: 111

212 Research Methods in Psychology

Research designs and problems, with emphasis on operationalization of concepts, development of hypotheses, specific research designs, sources of error, literature reviews, data collection, data analysis and use of APA format. Three lecture and two laboratory hours per week.

Prerequisites: 111 and QMCS 220

College of Arts and Sciences – Departments

288 Psychology of Marriage and the Family

An examination of the psychological concepts, issues, challenges and changes relevant to marriage and family today. Topics include intimacy, liking and loving, power and control, gender, marriage and family therapy, and the psychological effects of marriage vs. non-marriage, divorce, and various parenting styles.

Prerequisites: 111 and junior standing or permission of the instructor

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

301 Psychopathology

This course sets forth a framework for understanding abnormal or maladaptive behavior. It will investigate specific diagnostic categories (such as depression and schizophrenia), causal factors and treatments of these maladaptive patterns.

Prerequisites: 111 and junior standing

302 Personality Theories

A review of major theories of personality, including psychoanalytic, behavioristic, humanistic and trait-factor approaches.

Prerequisite: 111

308 Motivation and Emotion

Survey of research and theories related to specific motives (such as hunger and thirst) as well as approaches to emotional states such as anger, happiness and sadness. Relevant research will be drawn from both the social and physiological branches of psychology.

Prerequisites: 111 and junior standing

313 Psychological Testing

This course provides an overview of the principles of testing and measurement, particularly as they relate to the practice of psychology and education. The course examines the theories underlying individual and group-administered tests in such areas as intelligence, aptitude, achievement, interests, personality, neuropsychological and educational tests. Various controversial issues in the field of testing will also be addressed including ethics, bias, computer-based assessment, and testing of special populations.

Prerequisite: 212

315 Cognition

This course will provide an overview of cognitive processes, the processes that collectively comprise what is commonly termed “thinking.” Topics discussed will include perception, attention, remembering, language, problem solving, reasoning, and social cognition. The course will focus on how these processes operate in everyday situations, as well as empirical (laboratory) investigations of these processes. Connections between cognitive psychology and other areas of psychology (*e.g.*, clinical, biological) will also be discussed.

Prerequisite: 111

321 Current Research Issues in Social Psychology

Discussion of several specific research issues in contemporary social psychology. The course includes presentation of computer applications. An original research project is required. Four lectures and three laboratory hours per week.

Prerequisites: 121 and 212

322 Sensation and Perception

A study of the structure and function of sensory systems, the information that these systems provide the brain, and the subsequent interpretation of sensory information that we call perception. The course focuses on visual perception (*e.g.*, brightness, color, form, depth, movement, constancy, illusions) and auditory perception (*e.g.*, detection, discrimination, loudness, pitch) and incorporates art and music. Four lectures and three laboratory hours per week.

Prerequisite: 212

323 Learning and Memory

The basic concepts involved in simple associative learning are presented, along with theoretical and applied concerns. The analysis and modification of animal and human behavior by means of classical and instrumental conditioning are discussed. The course also will trace the history of the study of learning from its roots in philosophy to the current cognitive approach.

Prerequisite: 212

342 Industrial/Organizational Psychology

This course presents basic concepts of psychology as they apply everyday in the workplace. Topics to be covered include measurement and its applications in the workplace (*e.g.*, personnel decisions and performance appraisals),

worker training, worker attitudes and motivation, worker adjustment, health and safety, leadership, communication and group behavior and development of the organization.

Prerequisites: 111 and junior standing

400 Seminar in Cognitive and Language Development

Current theory and research regarding children's understanding, thinking processes, and language acquisition are discussed. Topics include knowledge acquisition, concept formation, grammatical development, and the nature of developmental change.

Prerequisites: 200 and one additional PSY course or permission of the instructor

401 Physiological Psychology

A study of the brain, its function and its control of behavior. Neuroanatomical, neurophysiological, and biochemical substrates of behaviors associated with feeding, drinking, sex, sleep, arousal, emotion, learning and memory are examined. Four lectures and three laboratory hours per week.

Prerequisites: 212 and BIOL 101 (or equivalent)

407 Seminar in Behavioral Neuroscience

Analysis and discussion of selected theories and new research concerning brain mechanisms that subserve behavior. Advances in methodology and instrumentation also will be examined.

Prerequisite: 401

415 Research Issues in Cognition

This course will explore research issues in cognitive psychology, with special emphasis on cognitive psychology methodology, current research issues, hands-on research, and discussion/analysis of primary research sources. Specific topics covered each semester may vary slightly. Examples of topics include: subliminal perception; automatic processing; implicit memory; eyewitness testimony; memory reconstruction; expertise and problem solving; the use of heuristics in decision making; person memory.

Prerequisites: 212 and 275

422 History and Systems

How contemporary psychology developed from its remote and more recent roots. Emphasis upon the contributions, contributors and perennial issues that led to psychology today and that could help to fashion its future.

Prerequisites: four courses in psychology

424 Clinical Psychology

Study of the clinical application of psychological processes in the evaluation, diagnosis and treatment of behavioral disorders.

Prerequisites: 301 and three psychology courses or permission of instructor

428 Theories of Counseling and Psychotherapy

Theories and procedures of counseling and psychotherapy are discussed, including psychoanalysis, client-centered therapy, cognitive therapy, behavior therapy, and others.

Prerequisites: 301 and three psychology courses or permission of the instructor

475, 476 **Experiential Learning** 2 credits

477, 478 **Experiential Learning** 2 credits

See the description of these courses at the beginning of the "Curricula" section of this catalog.

483, 484 **Seminar** 2 credits

485, 486 **Seminar** 2 credits

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 **Topics** 2 credits

489, 490 **Topics** 2 credits

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 **Research** 2 credits

493, 494 **Research** 2 credits

See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 **Individual Study** 2 credits

497, 498 **Individual Study** 2 credits

See the description of these courses at the beginning of the "Curricula" section of this catalog.

College of Arts and Sciences – Departments

Quantitative Methods and Computer Science (QMCS)

Hansen (chair), Bagley, Chung, Heltne, Jarvis, Komar, Patton, Pliego, Raymond, Schwebel, Smith, Sturm, Werness

Quantitative Methods and Computer Science is part of the liberal arts curriculum at the University of St. Thomas. The QMCS program is concerned with the areas of today's society that involve the collection, organization, processing, storage, retrieval, communication and use of information. The department's emphasis is on the broad basic core of knowledge required to become an effective user of information; to design and implement system and application software; and to understand the concepts involved in areas such as computer graphics, telecommunication, artificial intelligence, database design, statistics and operations research.

Students who graduate with a major in quantitative methods and computer science will be prepared to work in business, industry, education, and government, as designers or users, or to pursue entrepreneurial interests in technologically supported areas or to continue study in graduate school.

Courses are arranged so that students from other disciplines may participate to whatever extent they wish. The department also strongly encourages its majors to obtain a minor in another field.

Students interested in teacher licensure should see the various science and mathematics programs in the Department of Teacher Education section of this catalog.

Major in Quantitative Methods and Computer Science

220 Statistics I

230 Software Design Using the JAVA Language*

281 Object-Oriented Design and Programming*

350 Data and File Structures

*A grade of C- or higher must be earned by majors in each of these courses chosen to fulfill the core requirement.

Plus (for all majors):

Eight credits numbered 300 through 450. Students should consult with their department adviser in choosing the most appropriate courses.

Plus (for all majors):

Four credits numbered 100 through 499

Plus:

A set of courses in one of three paths (CS, CIS, or QM):

Computer Science (CS)

A traditional computer-science path that emphasizes low-level computing fundamentals as well as high-level design issues.

420 Systems Analysis and Design I

450 Database Design

Plus one of:

300 Computer Organization

340 Digital Electronics and Microprocessors

Computer Information Systems (CIS)

A management information systems path emphasizing high-level design issues and designer/user interaction.

420 Systems Analysis and Design I

450 Database Design

Plus one of:

421 Systems Analysis and Design II

425 Information Resource Management

Quantitative Methods (QM)

A path emphasizing the role of statistics, mathematics and operations research as well as the use of computers in solving problems in organizations.

410 Operations Research I

Plus two of:

320 Statistics II

411 Operations Research II

420 Systems Analysis and Design I

450 Database Design

Allied requirements

MATH 128 Introduction to Discrete Mathematics

Plus one of:

- MATH 109 Calculus with Review II
- MATH 111 Calculus for Business and Social Science
- MATH 113 Calculus I

Plus one of:

- COMM 100 Public Speaking
- COMM 105 Communication in the Workplace

Teacher Licensure

Elementary Education with a Co-major in Science and Mathematics for Elementary Education

See School of Education Department of Teacher Education

Minor in Quantitative Methods and Computer Science – for sciences

This minor is intended to support majors in biology, chemistry, environmental studies, geology, mathematics and physics.

- 230 Software Design Using the JAVA Language
- 281 Object-Oriented Design and Programming

Plus three of:

- 220 Statistics I
- 300 Computer Organization
- 320 Statistics II
- 330 Graphics and Numerical Methods
- 340 Digital Electronics and Microprocessors
- 342 Computer Applications in Experimental Sciences
- 350 Data and File Structures
- 380 Artificial Intelligence and Robotics
- 381 Expert Systems
- 410 Operations Research I
- 411 Operations Research II
- 450 Database Design

Minor in Quantitative Methods and Computer Science – for business

This minor is intended to support majors in any concentration of business administration, economics and other related disciplines.

- 110 Introduction to Information Processing

Plus one of:

- 230 Software Design Using the JAVA Language
- 238 Software Design using Business Languages

Plus three of:

- 215 Rapid Application Development
- 281 Object-Oriented Design and Programming
- 420 Systems Analysis and Design I
- 425 Information Resource Management
- 450 Database Design

Minor in Quantitative Methods and Computer Science – for mathematics

This minor is intended to support majors in mathematics and those interested in statistics and operations research.

- 230 Software Design Using the JAVA Language

Plus four of:

- 220 Statistics I
- 281 Object-Oriented Design and Programming
- 320 Statistics II
- 330 Graphics and Numerical Methods
- 410 Operations Research I
- 411 Operations Research II

110 Introduction to Information Processing (216)

Introduction to basic concepts of hardware, software and information processing systems. Introduction to computer programming concepts. Use of microcomputer application packages, including spreadsheets and database packages. Introduction to the Internet and World Wide Web. Investigation of the impact of the computer and future trends. This course fulfills the second-level Computer Competency requirement in the core curriculum.

College of Arts and Sciences – Departments

120 Computers in Elementary Education

This course is intended for elementary education majors. Topics include the role of the computer in elementary and middle-school education, computer applications in science and mathematics, data analysis, software packages for use in elementary and middle-school classrooms, Computer-Assisted-Instruction (CAI), multimedia, telecommunication and software creation using MicroWorlds and HTML. This course fulfills the third course in the Natural Science and Mathematical and Quantitative Reasoning and the second-level Computer Competency requirements in the core curriculum.

Prerequisite: elementary education or SMEE major

201 Introductory Statistics II (220)

2 credits

This course is for students desiring to satisfy the coverage of QMCS 220 (a full semester of statistics), but who have taken less than one full semester of statistics. Review of basic statistical techniques (confidence intervals, hypothesis testing, regression), multiple regression, contingency tables, analysis of variance, sampling, plus emphasis on use of statistical packages and design of a statistical study.

Prerequisite: 206 or at least .35 semester, but less than one semester, of statistics

215 Rapid Application Development

Introduction to user-friendly development tools. These tools allow non-programmers to create usable software without programmer assistance. Students will be exposed to developing systems using software packages emphasizing structured analysis techniques. These packages integrate spreadsheet software database management software and presentation software. Queries to the World Wide Web (WWW) and a variety of techniques to display data on the Web are included. Approximately half of the course deals with philosophical and foundational topics such as modeling or requirements. This course fulfills the second-level Computer Competency requirement of the core curriculum.

Prerequisite: 110

216 Quantitative Techniques in Business (110)

2 credits

The use of microcomputer spreadsheet software to aid in solving quantitative business problems. This course is to be taken by students who have been given transfer credits for the equivalent of some part but not all of 110 and who are required to take 110.

Prerequisite: ACCT 205 or ACCT 216

220 Statistics I (201)

Introductory applied statistics: sampling, descriptive (exploratory) statistics, probability, sampling distributions, estimation and hypothesis testing, non-parametrics, simple and multiple linear regression, introduction to analysis of variance; use of statistical packages. This course fulfills the third course in the Natural Science and Mathematical and Quantitative Reasoning and the second-level Computer Competency requirements in the core curriculum.

Prerequisite: Math placement at level of MATH 111 or above; or MATH 100, 101, or 105, or 109, 111 or 113

230 Software Design Using the JAVA Language

Introduction to software development including procedural and object-oriented concepts. Topics include: algorithmic development, classes and methods, arrays, sorting and searching, recursion. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: None in general. However, certain sections will be designated for science students. The prerequisite for those sections is MATH 109 or 111 or 113.

238 Software Design Using Business Languages

Introduction to software development using COBOL and other business languages. Topics include algorithmic development, sequential and direct-access file processing, tables, sorting, structured programming and software validation. This course fulfills the second-level Computer Competency requirement in the core curriculum.

281 Object-Oriented Design and Programming

Continuation of object-oriented design and programming in JAVA, with emphasis on more advanced concepts. Topics include classes, inheritance, encapsulation, polymorphism, GUI interface design, exception handling and files. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 230; MATH 128 recommended

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

300 Computer Organization

Concepts of computer system organization and programming. Instruction and data representations. Instruction set decoding, addressing modes, and fundamentals of assembly language. The organization and the operation of the central processing unit, instruction fetching and execution, hardwired and microprogrammed control, I/O structures, direct memory access, interrupts, bus protocols and I/O interfaces, multiple-module memory, caches,

memory, memory organization, registers, microprocessor families, pipelining, and RISC features. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: 230 or 238 and MATH 128

320 Statistics II

Analysis of variance; regression with indicator variables; topics from: general linear model; design of experiments; further use of statistical packages, discriminant, cluster analysis, time series.

Prerequisite: 201 or 220 or MATH 333

330 Graphics and Numerical Methods

An integrated approach to using the computer to solve numerical problems and to present information in graphical form. Includes: non-linear equations, systems of linear equations, interpolation, approximation, differential equations, two and three-dimensional picture transformations plus viewing and rendering of graphical images.

Prerequisites: 230 and MATH 109 or 111 or 113

340 Digital Electronics and Microprocessors

Digital electronics techniques: semiconductor devices, digital logic, counters, clocks, shift registers, combinatorial and sequential logic circuits and minimization. Microprocessor organization, programming, device addressing, buffering and enabling. Microprocessor interfacing with switches, A to D, D to A, and communications.

Prerequisites: 230 and MATH 128

342 Computer Applications in Experimental Sciences

Introduction to the use of computers in the collection and analysis of scientific information. The course is designed to meet the needs of both natural science majors with an interest in scientific computing and computer science majors with an interest in laboratory science. Emphasis is placed on application of concepts and techniques in addition to LabVIEW programming. Topics include laboratory device interfacing, analog-signal acquisition and processing, frequency transformations, data analysis, and math modeling and simulation. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites: 230 or 238; MATH 109 or 111 or 113; one course in a laboratory science

350 Data and File Structures

An introduction to data structures and abstract data types using an object-oriented language. Includes arrays and linked lists, stacks and queues, recursion, searching and sorting, trees, heaps, files, hashing and graphs. Measures of algorithmic efficiency are developed for S/B algorithms processing these data structures.

Prerequisites: 281 and MATH 128

360 Operating Systems Design

The basic principles of designing and building operating systems. Sequential versus concurrent processes, synchronization and mutual exclusion, memory management techniques, CPU scheduling, input/output device handling, file systems design, security and protection. Primary focus on uniprocessors, with some coverage of multiprocessor operating systems.

Prerequisite: 281; Recommended: 300

370 Telecommunications and Teleprocessing

The fundamental concepts of telecommunications and networking for voice, data and video, including hardware, media, signaling and digital switching, open-system interconnection model, standards and protocols, local and wide-area networks and inter-networking.

Prerequisites: 230 or 238 and MATH 128

371 Advanced Voice and Data Communications

Analysis of voice, data and video telecommunication requirements, network configuration, network operations, network monitoring and optimization, documentation and legal issues.

Prerequisite: 370

380 Artificial Intelligence and Robotics

Theory and implementation techniques using computers to solve problems, play games, prove theorems, recognize patterns, create artwork and musical scores, translate languages, read handwriting, speak and perform mechanical assembly. Emphasis placed on implementation of these techniques in robots.

Prerequisites: 220 and 281

381 Expert Systems

Emphasis on a practical understanding of artificial intelligence, LISP, and the expert system-building process. Course goals include understanding what expert systems are, how they operate, techniques used to build expert systems, and evaluating commercially available expert systems packages.

Prerequisites: 281 and junior standing

College of Arts and Sciences – Departments

410 Operations Research I

Utilization of computer and analytic techniques to support the decision-making process in both the public and private sectors. Topics include linear programming, simulation, PERT, inventory control, goal programming and queuing theory. This course fulfills the second-level Computer Competency requirement in the core curriculum. Prerequisites: 220 and MATH 109 or 111 or 113

411 Operations Research II

Advanced modeling techniques. Techniques include: decision theory, Markov chains, integer programming, dynamic programming, forecasting, game theory, transportation problems and decision theory. Prerequisites: 410 and MATH 114

419 Accounting Information Systems

This course will provide an understanding of the conceptual framework and practices of accounting information systems and the ability to work effectively with computer specialists and management to design, implement and audit such systems. Examples of subjects included are: systems development life cycle (SDLC), systems analysis phase of the SDLC, data and process models, operations of a corporate data center, including internal controls, database integrity, audit considerations for both internal and external auditors, unit integration, and system testing.

Prerequisites: 110 plus ACCT 316 or concurrent registration with ACCT 316

420 Systems Analysis and Design I

A study of process, data, and object models for the analysis and design of information systems. Includes enterprise models, data-flow diagrams, structure charts, entity-relationship models, normalization and state transition diagrams. Alternative system development life cycles are discussed, as well as testing, quality and installation strategies.

Prerequisites: 230 or 238 and junior standing

421 Systems Analysis and Design II

Continuation of 420. Concentration on implementation problems, software and hardware limitations. Emphasis on managerial problems in an information-processing system. Continued use of computer-based analysis and design and project-management tools. A “real world” project is an integral part of this course.

Prerequisite: 420

425 Information Resource Management

A study of relevant technologies and how they are used in today’s modern organizations to help manage the information resource of the organization. Emphasis is placed on the use of the Internet and World Wide Web and how they have changed organizational operations and strategies. This is an “active learning” course in which students will be researching current information systems technologies (such as Electronic Commerce [e-commerce]) and will be participating in the design and development of an e-commerce website for a fictitious organization.

Prerequisite: 230 or 238; junior standing

450 Database Design

Introduction to database management systems design philosophy. Design considerations for satisfying both availability and integrity requirements. Data models used to structure the logical view of the database. Schema, sub-schemas, and database administration. Emphasis on general purpose relational database management s/B systems using SQL.

Prerequisite: 281 or 420 or 425

460 Senior Project

Work on a software analysis, design, and implementation project under the direction of a faculty member.

Prerequisite: Senior standing and permission of the instructor

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the "Curricula" section of this catalog.

Sociology and Criminal Justice (SOC)

Karraker (chair), Kinney, Smith-Cunnien, Waldner; Bruton, Caldie, Davis, Kennedy, Parilla, Peterson, Plesha, Schuth

Sociology is the scientific study of society and social relations. A major in Sociology provides knowledge and skills applicable to careers in business, education, government, law, public health, public policy, and social service. Additionally, an undergraduate degree prepares students for graduate study in sociology and other closely related fields.

Students who graduate with a major in Sociology will understand the methodological and theoretical foundations of sociology and possess skills to apply this knowledge in a practical way. They will have the opportunity to specialize in crime and criminology, family and the life course, inequalities and stratification, and work and organizations, as well as individual course work in other areas such as anthropology, health, and urban sociology. The department also offers courses with comparative perspectives on global issues such as crime, gender, immigration, and religion. The sociology curriculum reflects the breadth of the discipline, its place in the liberal arts tradition, and the application of sociological theories and methods to the critical issues and problems facing societies today.

Students who graduate with a major in Criminal Justice will know the main components of the criminal and juvenile justice systems and will know the basics of criminal law and criminal procedure in the U.S. system of justice. They will have the tools to understand the long standing and current dilemmas faced by society in trying to develop and maintain an effective and just criminal justice system. They will be prepared for employment in the field of criminal justice, including corrections or law enforcement.

Sociology and Criminal Justice majors pursue graduate and professional degrees in sociology and criminology, as well as business, law, public health, public policy, social work, and other fields. The sociology department and sociology faculty also provide intensive support for students who wish to engage in individual research and preparation for graduate and professional school, as well as internships and career development.

A Sociology major or minor is a strong complement to studies in American cultural studies, business (especially human resources, management, marketing), Catholic studies, family studies, international studies, journalism, justice and peace studies, legal studies, psychology, social sciences, social work, urban studies, and women's studies. The sociology program supports study abroad and participation in the HECUA, MUST, and other innovative courses of study.

Sociology Honor Society

The *Iota* Chapter of Minnesota of *Alpha Kappa Delta*, the international sociology honor society, was chartered at the University of St. Thomas in 1991. The purpose of the society is to promote an interest in the study of sociology, research of social problems, and such other social and intellectual activities as will lead to improvement in the human condition. Membership is open to juniors and seniors who have completed at least sixteen credits in sociology registered through the university, who are officially declared majors or minors in sociology, criminal justice, the sociology concentration of social science, or social studies and who have a minimum overall grade point average in the top 30th percentile.

Major in Sociology

- 100 Introduction to Sociology
- 210 Research Methods in Sociology
- 220 Sociological Analysis
- 470 Sociological Theory

Plus one of:

- 365 Social Psychology
- 366 Self and Society

Plus:

Sixteen additional credits in Sociology (eight of which must be 300-level or higher)

Strongly recommended:

MATH 101 Finite Mathematics

In addition, it is recommended that students take the following courses in this order:

- MATH 101 (or adequate substitute)
- SOC 210 Research Methods in Sociology
- SOC 220 Sociological Analysis

Finally, it is recommended that students begin the SOC 210/220 sequence during their sophomore year. This sequence must be completed by the end of the junior year. Students who have a double major in sociology and psychology and complete SOC 210, PSY 212, and QMCS 220 do not need to take SOC 220.

College of Arts and Sciences – Departments

Major in Criminal Justice

The program in Criminal Justice provides students with an understanding of the entire criminal justice system while at the same time allowing them to take specific courses in a area of special interest.

The program emphasizes the interrelationships among the various components of the criminal justice system (*i.e.*, law enforcement, prosecution, courts and corrections) and examines how they deal with adult offenders and juvenile delinquents.

The major reflects the interdisciplinary nature of criminal justice. It provides a concentration of courses which prepares students for careers in such areas as policing, private security, probation, parole and corrections. It also prepares students for advanced study in criminology, criminal justice and law.

The Criminal Justice program at St. Thomas, in conjunction with Alexandria Technical College and Hibbing Community College, is certified by the Board of Minnesota Peace Officers Standards and Training to prepare students for the peace officer licensing examination. Students who intend to take this examination must also complete SOC 251, PHED 250, and PSY 111. Please see the department's Law Enforcement Education Coordinator.

100	Introduction to Sociology
200	Introduction to Criminal Justice
210	Research Methods in Sociology
220	Sociological Analysis
310	Juvenile Delinquency
320	Criminology
480	Seminar in Criminal Justice

Plus:

IDSC	340	Criminal Law and the Social Order
POL	314	Constitutional Rights and Liberties

Plus one of:

POL	312	Judicial Process
SOC	338	Law Enforcement
SOC	340	Corrections

Plus one of:

SOC	405	Internship in Criminal Justice
SOC	498	Individualized Study (for in-career students only)

Strongly recommended:

MATH	101	Finite Mathematics
SOC	251	Race and Ethnicity

In addition, it is recommended that students take the following courses in this order:

- MATH 101 Finite Mathematics (or adequate substitute) in freshman year
- SOC 210 Research Methods in Sociology in first semester sophomore year
- SOC 220 Sociological Analysis in second semester sophomore year

Note: Students with a double major in sociology and psychology who have completed SOC 210, PSY 212 and QMCS 220 do not need to take SOC 220.

Teacher Licensure

Elementary Education with a Specialty in Social Studies (5-8)
Co-major in Social Studies (5-12) and a Co-major in Secondary Education

See School of Education Department of Teacher Education

Minor in Sociology

100	Introduction to Sociology
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Plus at least four credits from the list below:

210	Research Methods in Sociology
220	Sociological Analysis
365	Social Psychology
366	Self and Society
470	Sociological Theory

Plus twelve additional credits from the list above or below:

110	Social Problems
251	Race and Ethnicity
255	Gender in American Society
303	Aging and the Life Course
304	Adolescence in Society
310	Juvenile Delinquency

320	Criminology
321	Marriages and Families
330	Religion and Society
332	Urban Sociology
341	Work, Organizations and Society
351	Immigration, Fear and Hate
360	Health Care and Medicine
386	Organizations in Society
388	Deviant Behavior
498	Individual Study

Minor in Criminal Justice

100	Introduction to Sociology
200	Introduction to Criminal Justice
310	Juvenile Delinquency

Plus eight credits from the following courses, at least four of which must be in sociology:

IDSC	340	Criminal Law and the Social Order
POL	312	Judicial Process
POL	314	Constitutional Rights and Liberties
SOC	320	Criminology
SOC	338	Law Enforcement
SOC	340	Corrections
SOC	480	Seminar in Criminal Justice

100 Introduction to Sociology

Introduction to the concepts, theories, methods and applications of the scientific study of society and social concerns. Enables students to understand the connections between the individual and larger social and cultural forces. Heightens awareness of the diversity of American and other societies. This course fulfills a requirement in the Justice and Peace Studies program and the Social Analysis and Human Diversity requirements in the core curriculum.

110 Social Problems

Contemporary society is confronted with a number of serious problems that are often global in their impact. This course explores the causes, effects, and proposed solutions to some of these major social issues. Special attention is given to issues of inequality (such as racism, sexism, and poverty) and problems in core institutions (such as family violence, unequal educational opportunities, and unemployment). This course meets a requirement in the Justice and Peace Studies program and fulfills the Social Analysis and Human Diversity requirements in the core curriculum.

200 Introduction to Criminal Justice

A critical introduction to the American criminal justice system. Studies the role of the police, courts and corrections in the administration of criminal justice. This course meets a requirement in the Justice and Peace Studies program.

210 Research Methods in Sociology

Consideration of both quantitative and qualitative strategies for each stage of the research process. Emphasis is on the skills required to design and successfully perform research projects: selection of topics, development and testing of hypotheses, collection and analysis of data and reporting of findings. Data entry and recoding with SPSS will also be introduced.

Prerequisite: 100

220 Sociological Analysis

Methods of data analysis and conclusion formation through application of statistical techniques. Introduction to applied statistics as employed in sociology with emphasis on skill development in the use of data processing techniques and SPSS, the computer statistical package commonly employed by contemporary sociologists in the full range of research settings. This course fulfills the second-level Computer Competency requirement in the core curriculum. Because SOC 220 integrates the learning of statistics with SPSS software in a setting where research questions and statistical interpretation are framed within a sociological perspective, students may not substitute QMCS 220 for SOC 220. Students interested in graduate study in the social sciences are strongly encouraged to take QMCS 220 after first completing SOC 220.

Prerequisite: 210

251 Race and Ethnicity

Race and ethnicity as significant components of U.S. social structure; the cognitive and normative aspects of culture which maintain and effect varying manifestations of social distance, tension, prejudice and discrimination between majority and minorities at both micro and macro levels, nationally and internationally. This course

College of Arts and Sciences – Departments

meets a requirement in American Cultural Studies, East Asian Studies and Justice and Peace Studies and fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 100 or sophomore standing

255 Gender in American Society

Exploration of gender roles and inequality in American society today. Includes examination of men and women's socialization, social psychological influences on gender identity, the impact of gender in same- and cross-sex relationships, the significance of gender in family, religion, education, work, government, and other institutions, and the impact of recent social movements and social policies. This course meets a requirement in Human Resources Management, Justice and Peace Studies, and Women's Studies, and fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 100 or permission of the instructor

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

301 Cultural Anthropology

This course provides an overview of various components and dynamics of human societies throughout the world. It focuses on topics such as kinship patterns, language, religion, artistic expression, technology and economic/political organization. Major consideration is given to the practical significance of expanding intercultural awareness. This course fulfills a requirement in the Justice and Peace Studies program and the Human Diversity requirement in the core curriculum.

Prerequisite: 100 or sophomore standing

303 Aging and the Lifecourse

The elderly are the fastest growing segment of most Western societies. This course explores a range of topics including the aging process, ageism, age norms, inter-generational conflict, late-life socialization, death and dying, critical dilemmas in the aging process and theories of life stages. This course meets a requirement in the Family Studies program.

Prerequisite: 100 or sophomore standing

304 Adolescence in Society

The transition between childhood and adulthood is examined using a general sociological framework and including life course, socioeconomic, and systems theories. Particular attention is given to the social construction of adolescence; institutional contexts (family, education, employment) of adolescent relationships with parents, peers, and others; gender and sexual socialization in society; cultures of achievement and risk; social diversity. This course meets a requirement in Family Studies.

Prerequisite: 100 or permission of the instructor

310 Juvenile Delinquency

An examination of the causes and consequences of juvenile delinquency. Major topics include the emergence of "juvenile delinquency" as a social problem, an overview and of comparison sociological and non-sociological theories of delinquency, and social and legal responses to delinquents.

Prerequisite: 100 or 200 or sophomore standing

320 Criminology

This course scrutinizes the nature and extent of crime and victimization in American society. It provides a critical analysis and comparison of sociological and non-sociological theories of crime. The course also analyzes specific criminal behavior such as homicide, femicide, varieties of street crime, white collar and corporate crime.

Prerequisite: 210 or permission of instructor

321 Marriages and Families

This course uses sociological theories and research to understand some of the most pressing social issues facing families today – single parenting, divorce and blended families, violence, and poverty. We study the social processes involved in choosing partners (and remaining single); sexualities and intimacy; parenting (or not); communication (and conflict); power (and satisfaction). Finally, we focus not just on family stress, but also on family resilience. This course meets a requirement in Family Studies and Women's Studies.

Prerequisite: 100

330 Religion and Society

Theoretical and empirical examination of the sociological dimensions of religion, with a special emphasis on the religious situation in America. Topics include diverse religious expressions and values of each religion, including Christian denominations and other world religions with members living in the U.S., for example, Buddhism, Hinduism, Islam, and Judaism, as well as cultural contexts, organizational structures, individual religiosity, and emerging new forms. This course meets a requirement in Catholic Studies and fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 100

332 Urban Sociology

The study of the social organization of urban areas. Topics include the historical development of cities, interaction patterns in neighborhoods, cities and metropolitan areas, community power structures, and urban problems. This course meets a requirement in Real Estate Studies and in Urban Studies.

Prerequisite: 100 or sophomore standing

338 Law Enforcement

Examination of the role of law enforcement organizations in a contemporary society. Explores the limitations imposed on law enforcement in a democratic society. Other topics included are the ability of police to control crime, community policing, police ethics, and criminal investigation techniques.

Prerequisite: 200

340 Corrections

An overview of various types of penal and correctional programs and their function in society. Examines the social organization of prisons and the effects of imprisonment on individuals. Provides a critical evaluation of research on community corrections, rehabilitation and deterrence.

Prerequisite: 200

341 Work, Organizations, and Society

This course provides students with knowledge about the importance and role of work and organizations in society and in our everyday lives. Key topics include conflict in organizations, occupational choice and prestige, social control in work environments, the labor movement, the "McDonaldization" of the work environment and American culture, the clash between personal and organizational life, and many others. This course meets a requirement in the Business Administration concentration in Leadership and Management.

Prerequisite: 100

351 Immigration, Fear and Hate

International migration is reshaping societies and politics around the globe. This course provides an introduction to the forces behind international migration and the politics of immigration and xenophobia (prejudice, fear, and intolerance) in the United States and in other parts of the world, including forces such as globalization, shifting labor-market demands, and socio-economic and political changes. The course includes an examination of anti-immigration movements and violence against minorities in many countries, including the U.S. This course meets a requirement in the Justice and Peace Studies program and fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 100.

360 Health Care and Medicine

An examination of the social nature of health and illness, including a consideration of both who gets ill and how they experience illness, an increasingly important issue for those living with chronic illnesses, such as people living with AIDS. Also covered are the social dimensions of how health care is provided and financed, including issues such as health insurance, unequal access to health care, alternative medicine, medical education, and the pharmaceutical industry, with an emphasis on international variations.

Prerequisite: 100 or sophomore standing

365 Social Psychology

This course provides a general survey of major social psychological theories and research. Topics include selfhood, socialization, conformity/deviance, attitudes, gender roles, and intergroup/intragroup dynamics. Through exposure to real life settings and simulations, students will explore key questions such as "What attracts us to each other?", "How do we respond to deviant behavior?" and, "Why do we conform?". This course meets a requirement in the Justice and Peace Studies program.

Prerequisite: 100 or sophomore standing

366 Self and Society

In what ways does the world around us shape who we are as individuals? This course exposes learners to the ways in which various social forces such as family, social class, mass media, and school shape our lives. It includes the influence of "micro" elements of social structure (such as socialization processes and small groups), "macro" elements of social structure (organizations, communities and society), and important sociological concepts (inequality, power, conflict, social control, *etc.*).

Prerequisite: 100 or sophomore standing

388 Deviance and Social Control

Does deviance really exist? This course examines the idea that deviance is relative. Students will focus on the extent, nature and consequences of different types of "deviant" behavior. They will also consider the ways in which deviant behavior is regulated.

Prerequisite: 100 or sophomore standing

College of Arts and Sciences – Departments

405 Internship in Criminal Justice

This course is designed to provide the student with an opportunity to apply academic training in a criminal justice setting. Students will spend a minimum of 10 hours per week in an agency or organization directly involved in some aspect of criminal justice. Students will be supervised by an on-site supervisor. They also will participate in a weekly meeting with other interns and a St. Thomas faculty member.

Prerequisites: 200, 210, 320, and permission of the instructor

470 Sociological Theory

Study of the place of sociological theory in understanding interaction and society. Examination of both classical and contemporary theories, including conflict, functionalism, and interactionism. Application of theories to contemporary social concerns. Normally offered only in the fall semester.

Prerequisite: 100

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

480 Seminar in Criminal Justice

Criminal justice seminars provide majors with the opportunity to engage in advanced sociological and critical analysis of some aspect of the criminal justice system. This course number may be repeated, since the focus of the seminar changes.

Prerequisite: 200, 320 or permission of instructor

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Theater (THR)

Kritzer (chair), Holonbek, Poletes; Barrett, Jackson, Klein, Leiseth, Morrissey, Wexler, Wilhelmson, Winkler, Winther

The Department of Theater is administered jointly by the University of St. Thomas and the College of St. Catherine. Students from both campuses enroll in a variety of courses and participate in the year-round production of plays, films, and video. Courses enable students to gain a knowledge of history, theory, aesthetics and production of theater and film.

Three well-equipped theaters and an audio and television studio at St. Thomas and St. Catherine enable students to cooperate in the creation of musical and dramatic performances for college and metropolitan audiences.

Students majoring in theater concentrate their courses in acting and directing, theater history and theory, design and technology, or theater education.

Students graduating with a major in theater will have a usable knowledge of works, styles, and evaluative methods. They will have developed performance skills for amateur or professional theater.

Minors are available in Theater Performance, Theater History/Theory, and Film (history/theory/production).

Special topics classes are offered periodically. These vary from movement and voice production or audition techniques to in-depth studies of major directors, film-makers, or performers, or examinations of ethical, political, and gender issues.

Students are encouraged to take advantage of the nationally respected professional arts community of the Twin Cities by engaging in experiential learning courses.

The department offers a number of courses for the non-major to fulfill the Fine Arts component of the core curriculum.

Drama Honor Society

A chapter of *Pi Epsilon Delta* was chartered in 1942. The society recognizes scholarship and talent in directing, performance, writing, design and technical areas of dramatic art in theater, film, television. Candidates for membership in this national society must have demonstrated their abilities through classwork and in the field and have a GPA of 3.3 or higher.

Major in Theater

For students seeking careers in professional or academic theater who wish to concentrate in performance, direction, and criticism.

- 105 Stagecraft
- 215 Beginning Directing
- 315 Advanced Directing
- 412 Drama: Theory and Criticism

Plus two of:

- 221 History of Theater I: Classical Through 17th Century
- 222 History of Theater II: 18th Century to Contemporary
- 223 History of Theater III: American

Plus two of:

- 214 Beginning Acting
- 218 Acting for the Camera
- 314 Advanced Acting

Plus:

Twelve additional credits in Theater courses

Teacher Licensure

Dance and Theatre Arts with a Theatre Specialization (K-12)

See School of Education Department of Teacher Education

Minor in Theater Performance

- 105 Stagecraft
- 214 Beginning Acting
- 215 Beginning Directing

Plus one of:

- 221 History of Theater I: Classical through 17th Century
- 222 History of Theater II: 18th Century to Contemporary

Plus one of:

- 204 Oral Interpretation
- 253 Creative Dramatics and Children's Theater

Minor in Theater History/Theory-Criticism

- 221 History of Theater I: Classical through 17th Century
- 222 History of Theater II: 18th Century to Contemporary
- 412 Drama: Theory and Criticism

Plus two of:

- COMM 264 Electronic Media and Society
- COMM 440 Classical Rhetoric
- THR 223 History of Theater III: American
- THR 359 Film II: Textual Analysis

Minor in Film

- 259 Film I: Introduction to Narrative and Non-Narrative World Cinema
- 260 History of Film: The Silent Era
- 261 History of Film: Sound Era, 1926 to Present Day
- 359 Film II: Film Theory and Criticism
- 360 Film III: Super 8 Film-making

105 Stagecraft

An introduction to the technical aspects of theatrical production: how they relate to design interpretations, use of tools and equipment, building materials, construction and painting techniques, stage lighting equipment and procedures. Theoretical class work supplemented by crew assignments on a stage production.

111 Introduction to the Theater

Foundation in theater and drama for the non-major beginning student; orientation to the dramatic tradition through consideration of plays and playwrights from the Greeks to the present; history of theatrical customs, traditions and conventions as they affect modern stage design, acting, directing, costumes, make-up and criticism. Experience in seeing and analyzing CSC/UST and Twin City play productions and in producing a play. This course does not count towards a theater major. Open to all students. This course fulfills the Fine Arts requirement in the core curriculum.

College of Arts and Sciences – Departments

204 Oral Interpretation

Content and style of literature; analysis of selected works and projection of their meaning to an audience. Includes public performance. Attention to Reader's Theater.

214 Beginning Acting

Provides a foundation for acting through examination of the research process essential to achieving physical and psychological characterization. Emphasis is on theory and the practical application of performance.

215 Beginning Directing

Introduction to the theory and craft of directing a production; areas of emphasis include play selection, analysis of script, casting, blocking, characterization, and rehearsal techniques.

217 Production Design

Interpreting the play for understanding of design in the theater; translation of written and verbal concepts into elements of line, mass, form and color as they relate to the problems of proscenium and non-proscenium staging. Emphasis variable.

218 Acting for the Camera

Acting for the camera is a laboratory course. The course illustrates the differences between stage acting and acting for the camera. Emphasis upon theory and the practical application of working with monologues, commercials, soap operas and scenes for the camera. Students will gain knowledge and experience of operating the cameras and working within a TV studio.

221 History of Theater I: Classical through 17th Century

The history and analysis of theater forms, Western and non-Western, from ancient rituals to the 18th century with attention to the relationships between the plays and the audience, performers, and production methods of various periods. This course fulfills the Fine Arts requirement in the core curriculum.

222 History of Theater II: 18th Century to Contemporary

Examination of 18th, 19th and 20th century world theater with special attention to both the contemporary and historic perspectives. Deals with major movements and styles of modern theater. This course fulfills the Fine Arts requirement in the core curriculum.

223 History of Theater III: American

Development of theater in the United States from its 17th century roots to the present, with special attention to contemporary American drama. Emphasis on the connections between theater and culture. This course fulfills the Fine Arts requirement in the core curriculum.

231 Dance for Musical Theater

Introduction to the styles of dance associated with musical theater, including tap, ballet, and jazz. Students will explore the basics of choreography and will create some short original dance pieces. Videos will be used to study the development of musical theater dance by comparing and contrasting the styles of choreographers such as Busby Berkeley, Agnes de Mille, Michael Kidd, Jack Cole, Gower Champion, Jerome Robbins, Michael Bennett and Bob Fosse. Readings on the history of dance in musical theater and ground-breaking directors and choreographers.

Prerequisite: 214 or permission of instructor

253 Creative Dramatics and Children's Theater

The combination of creative dramatics and children's theater enables students to investigate techniques of teaching drama to children; the course provides an understanding of children's needs and the psychology of play. The second half of the course will be devoted to producing a children's play or several final production projects.

259 Film I: Introduction to Narrative and Non-Narrative World Cinema

Analysis of the structure and social impact of film as an art form; extensive use of films in class; concentration on the fiction, documentary and animated film. This course fulfills the Fine Arts requirement in the core curriculum.

260 History of Film: The Silent Era

Examines the growth of popular film from the 16th century Italian camera obscura to the rise of Hollywood and the first talkies. Selected films will be studied in class and independently. This course fulfills the Fine Arts requirement in the core curriculum.

261 History of Film: Sound Era, 1926 to Present Day

Studies the ways in which such innovations as sound, color, wide-screen and present day computer technology continue to change world cinema. The impact of war and peace, economic conditions, nuclear age politics and the emergence of third world and feminist cinema will be examined as well. Selected films will be studied in class and independently. This course fulfills the Fine Arts requirement in the core curriculum.

- 295, 296 Topics 2 credits
 297, 298 Topics
 The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html. Topics listed under 297 fulfill the Fine Arts requirement in the core curriculum.
- 314 **Advanced Acting**
 Study and practice in the art of developing characterization through research and performance of scenes. Examination of conventional acting styles. Work with properties and costuming, methods of rehearsals that lead to a final acting project.
 Prerequisite: 214 or permission of instructor
- 315 **Advanced Directing**
 Study of directing theory and practice from Stanislavsky to contemporary; practical directing experience through preparation of scenes and one-acts.
 Prerequisite: 215 or permission of instructor
- 334 **Voice: Musical Theater Emphasis** 1 credit
 Designed for students participating in the music/theater program. Repertoire emphasizes literature from operetta and musical comedy. One 50-minute lesson per week. Jury examination is required.
- 359 **Film II: Film Theory and Criticism**
 An approach to film as text – as a constructed weave of images, sounds, speech, music and writing tracing the patterns and forces by which film produces its meanings and effect for spectators. Study of the impulses of the structuralist and semiotic movements which have combined since 1970 with those of feminism, Marxism and psychoanalysis. This course fulfills the Fine Arts requirement in the core curriculum.
 Prerequisite: Any beginning film course or permission of instructor
- 360 **Film III: Super 8 Film-making**
 The course makes available to each class member all necessary Super 8 equipment, but assumes no prior knowledge of camera use, editing, sound recording, animation or projection. These areas are covered in the class through specific assignments, class discussions and special workshops conducted by professional filmmakers.
 Prerequisite: 259 or equivalent is recommended but not required
- 375 **Methods of Teaching Theater and Dance**
 This course focuses on teaching theater to children and young people. It includes sections on working with young actors, selecting appropriate plays and other material, budgeting for theater productions, finding and using school and community resources, and legal and ethical issues.
- 412 **Drama: Theory and Criticism**
 Study in abstract and applied dramatic theory. Selected playwrights and bodies of criticism that surround their work are examined closely in relation to various theoretical systems. Aristotle through post-modern. This course fulfills the Fine Arts requirement in the core curriculum.
- 475, 476 **Experiential Learning** 2 credits
 477, 478 **Experiential Learning**
 See the description of these courses at the beginning of the “Curricula” section of this catalog.
- 483, 484 **Seminar** 2 credits
 485, 486 **Seminar**
 See the description of these courses at the beginning of the “Curricula” section of this catalog.
- 487, 488 **Topics** 2 credits
 489, 490 **Topics**
 The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.
- 491, 492 **Research** 2 credits
 493, 494 **Research**
 See the description of these courses at the beginning of the “Curricula” section of this catalog.
- 495, 496 **Individual Study** 2 credits
 497, 498 **Individual Study**
 See the description of these courses at the beginning of the “Curricula” section of this catalog.

Theology (THEO)

Nichols (chair), Anthony, Boyle, Brady, Cavanaugh, Cory, Feldmeier, Gavriluk, Hallman, Hollerich, Joncas, Jordon, Kennedy, King, Landry, Martens, McMichael, Myers, Niskanen, Patton, Penchansky, Posey, Rolnick, Ruddy, Sain, Schlabach, Smith, Thompson, Ulrich, Vrudny, Weigl, Wojda; Cytron, Hoden, Montero, Nairn, Spencer, Twite

In every historical period and cultural context, there are certain questions that continue to be of pervasive concern for human beings: the nature of the universe, the existence and nature of God, the nature of human beings, the proper relationship of a human being to his or her world, the source of evil and the possibility of redemption.

The Department of Theology has designed a sequence of three courses which acquaints students with the nature and importance of these questions and assists students in articulating for themselves responses formulated in light of their knowledge of the Catholic tradition and the Christian faith. These courses contribute in a coherent and cumulative way to the students' liberal arts education in the development of skills in writing, reading and critical thinking.

The first course, "The Christian Theological Tradition," provides students with a theological framework within which individuals and groups have addressed questions of faith and human existence throughout Christian history. Therefore, the core readings for the course are drawn from the Bible and from classical writers of the Christian tradition. The course also provides students with an opportunity to begin to reflect critically on the content of the Catholic tradition in the diversity of its cultural expressions and in the broader context of other Christian traditions and faiths. Finally, it provides students with a basic level of theological literacy as a prerequisite for their second and third level courses.

The second-level courses all focus on the themes of revelation, the theology of the human person, relationships between the believing community and the wider culture, and worship and spirituality. On this level, courses differ from each other on the basis of particular theological areas of inquiry and are tied together through the four themes. Students will have the opportunity to deepen and expand in content and skill, the theological literacy developed on the first level. In addition, they do so in view of the new methodological achievements of the modern period.

Third-level courses are seminars designed for interactive learning, allowing students the opportunity to engage in questions which relate to faith and culture. From within a larger selection of courses, students learn how cultures shape faith and how faith informs cultures. Emphasis on this level is given to those issues which connect theology to other disciplines in the liberal arts tradition, and students will be expected to make more sustained use of analytical skills.

Beyond the three levels which introduce and develop the skills of all students in theological inquiry the department offers a way to study theology further through its major and minor. The major in theology is an intensive investigation of theological questions in biblical, historical, systematic, and moral theologies. The minor provides students majoring in other disciplines a certain core of theological questions and skills of analysis. Students also may choose to double-major in theology and another discipline. Students graduating with a major in theology will be proficient in their area of specialization. They will demonstrate an ability to reflect on theological and moral issues of contemporary society.

National Honor Society for Religious Studies and Theology

Beta Alpha Kappa is devoted to encouraging and rewarding excellence in theology and the study of religion. The Greek letters stand for theos (God), anthropos (humans), and koinonia (community). In addition to recognizing excellence through induction into TAK, the Society also sponsors an essay contest, the winners of which are published in the TAK journal.

An induction ceremony is held at St. Thomas each spring. Those invited to join must meet academic criteria based on the number of theology courses taken, their GPA in theology courses, and their overall GPA.

Major in Theology

101 The Christian Theological Tradition

or

102 The Christian Theological Tradition: The Bible and the Early Church (2 credits)

and

103 The Christian Theological Tradition: St. Augustine to the Present (2 credits)

Plus:

215 Christian Morality

301 Theological Methods and Resources

Plus:

Four credits in Old Testament

Four credits in New Testament

(one course must be 205 or 210)

Four credits in systematic theology

Four credits in historical theology

Plus:

An additional eight elective credits in THEO courses

Plus either:

480 Seminar for Theology Majors and Minors

or

481 Research Thesis for Majors

Minor in Theology

101 The Christian Theological Tradition

or

102 The Christian Theological Tradition: The Bible and the Early Church (2 credits)

and

103 The Christian Theological Tradition: St. Augustine to the Present (2 credits)

Plus:

215 Christian Morality

Plus:

Four credits in Sacred Scripture

Eight additional credits in theology

Plus either:

Four credits in systematic theology

or

Four credits in historical theology

Note: At least eight of the credits used to fulfill the minor must be at the 300-level or above. The department recommends either 301 or 480 be chosen as one of the two electives for the minor.

Courses in areas of theological study:*Sacred Scripture*

205 (OT), 210 (NT), 330 (OT), 335 (NT), 340 (NT), 343 (OT & NT), 345 (NT), 350 (OT), 352 (OT), 353 (OT), 356 (OT & NT), 365 (OT), 387 (OT or NT)

Historical theology

220, 308, 310, 313, 318, 320, 327, 354, 357, 359, 361, 362, 363, 369, 388

Systematic theology

200, 301, 302, 305, 306, 314, 322, 326, 331, 332, 333, 334, 337, 358, 360, 364, 373, 374, 375, 380, 382, 393

Moral theology

215, 303, 309, 315, 325, 366, 389

101 The Christian Theological Tradition (102, 103)

This course is designed to acquaint students with the contents of the Bible and with Christian history, especially in the context of the Catholic tradition. Through careful reading of a core of common texts and a variety of written assignments, students are expected to attain a basic understanding of human experience in the light of major areas of theology, including revelation, God, creation, Jesus and the Church.

102 The Christian Theological Tradition: The Bible and the Early Church (101) 2 credits

The first half of THEO 101. This course is designed to acquaint students with the contents of the Bible and Christian history, especially in the context of the Catholic tradition, up through the Council of Chalcedon (but not including the work of St. Augustine). Through a careful reading of a core of common texts and a variety of written assignments, students are expected to attain a basic understanding of human experience in the light of major areas of theology, including revelation, God, creation, Jesus, and the Church. Offered in January term.

103 The Christian Theological Tradition: St. Augustine to the Present (101) 2 credits

The second half of THEO 101. This course is designed to acquaint students with the contents of the Bible and with Christian history, starting with St. Augustine, up to the present, especially in the context of the Catholic tradition. Through a careful reading of a core of common texts and a variety of written assignments, students are expected to attain a basic understanding of human experience in the light of major areas of theology, including revelation, God, creation, Jesus, and the Church. Offered in January term.

Prerequisite: 102

200 Christian Belief: Ancient and Contemporary

This course introduces systematic theology, a discipline that tries to understand how Christian doctrines are inter-related with each other and with other beliefs about the world. It explores both traditional and contemporary interpretations of the most significant doctrines in Catholic and Protestant traditions, emphasizing the relation-

College of Arts and Sciences – Departments

ship of scripture, tradition, experience, and reason as sources for Christian theology. The course is structured on the classical “system” of the Nicene Creed, and will focus on the ongoing formation of the doctrines of God, Christ, the Spirit, creation, sin, salvation, and Church. Special emphasis will be given to the role of grace in history and human experience.

Prerequisite: 101 (or 102 and 103)

205 Old Testament

An intensive reading and discussion of the Old Testament, also known as the Hebrew scriptures. The course investigates methods of biblical interpretation and the literature and theologies of the Israelite people in their ancient Near Eastern context. In addition, this course explores the Old Testament as a foundational document for the Jewish and Christian traditions (both ancient and modern) in the development of doctrine, in the expressions of worship and in the articulation of moral principles.

Prerequisite: 101 (or 102 and 103)

210 New Testament

This course involves the student in an intensive historical, literary and theological reading of major portions of the New Testament in the Jewish and Greco-Roman contexts and from the perspective of modern methods of biblical interpretation. In addition, the course explores the New Testament as a foundational document for modern Christian traditions in the development of doctrine, in the expressions of worship and in the articulation of moral principles.

Prerequisite: 101 (or 102 and 103)

215 Christian Morality

This course is an introduction to the principles, methods and topics of Christian theological ethics. The following themes will be addressed: the relation of Christian faith to moral reflection and decision making (both individual and social); the contribution of the Christian tradition to the understanding of the human person (including freedom, sin, conscience, character and grace); the role of the believing community in its relation to culture; and the connection of worship and spirituality to the Christian moral life. Some application will be made to selected issues in personal, professional and social ethics.

Prerequisite: 101 (or 102 and 103)

220 Early Christian Theology

A theological and historical introduction to the origins and development of the Christian church from the first to the fifth centuries. Special attention will be given to the historical emergence of Christian doctrines, creeds and canon; the formation of Christian understandings of the human person; the development of liturgical and sacramental traditions; and the interaction of Christianity with other ancient cultures. Contemporary approaches to the study of Christian origins will be emphasized.

Prerequisite: 101 (or 102 and 103)

301 Theological Methods and Resources

This course explores the role of scripture, history, tradition and common human experience in the understanding of religious mystery and the systematic expression of that mystery in the Christian tradition. It examines both ancient and contemporary formulations of theological knowledge, requirements for theological scholarship, and consideration of certain key theological questions.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

302 The Second Vatican Council

This course examines the roots of Vatican II in the unfinished work of the First Vatican Council, together with the movements and events in the period between the councils. In addition, it analyzes major documents of the Second Vatican Council with special attention to the dogmatic and pastoral constitutions of the Church.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

303 Theology and the Biomedical Revolution

This course examines the contributions of Christian faith to reflecting upon, understanding, and resolving issues and ethical questions raised by revolutionary developments in the life sciences, e.g. innovative birth technologies, genetic manipulation and control, human experimentation, the prolonging of life and allocation of scarce medical resources.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

305 Theologies of Justice and Peace

An examination of the views of various religions and ideologies on issues of justice and peace, with special attention to the Catholic and other Christian teachings on such issues as war and peace, violence, economic justice, the environment, criminal justice, and social justice. Special attention is given to how fundamental presuppositions and principles of each group studied affect their views on justice and peace, and contribute to or hinder dialogue and peaceful interaction with other groups. In addition to Christianity, students will study (at least) one Far Eastern worldview (e.g. Buddhism, Hinduism, Jainism), one tribal religion (Native American, African tribal), Islam, and one secular worldview (e.g. Marxism, capitalism, secular humanism). Students are required to investigate one worldview in depth through a semester-long research project. This course fulfills the Human Diversity

requirement in the core curriculum.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

306 Christian Faith and the Management Professions (CATH 306)

What is a good manager and how does he or she contribute to the common good? This course pursues these questions within the Christian social tradition broadly understood through an exploration of the theological relationship between work as a vocation and leisure as contemplation. Within this theological context, the course examines the financial, organizational, technological, and cultural forces that managers and organizations encounter daily.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

308 Theology of the Protestant and Catholic Reformation

An investigation of the origins of the Protestant tradition through the writings of Martin Luther, John Calvin, Ulrich Zwingli, and the Radical reformers, among others. This course also examines the Roman Catholic response, especially as articulated by Ignatius of Loyola, Teresa of Avila, and the Council of Trent. Attention will be given to the theological issues which emerged, as well as views on marriage and family life, religious and political authority, and the status of women.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

309 The Virtues

In current Roman Catholic and Protestant moral theology the tradition of the virtues has re-emerged as a significant focus of discussion. This course proposes to direct students to at least three aspects of this conversation: the warrant for retrieving the language of the virtues; the important historical contributions to that discussion; and the contemporary implications for current moral theology. Special attention is given to the cardinal virtues as well as the theological virtues of faith, hope and charity.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

310 Christian Worship

A study of Christian communal worship from historical, social science, and theological perspectives. This course examines worship as the sanctification of time, space, and life. It also includes a comparison and contrast of Eastern (Orthodox) and Western (Lutheran, Anglican, Reformed, Baptist, Methodist, Quaker, Frontier, Pentecostal) worship practices with those of Roman Catholics.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

314 Christian Spirituality

This course explores the diverse expressions of Christian spirituality. Students will discuss the definitions given to the term "spirituality" and consider methodological issues in the academic study of spirituality whether these are historical, anthropological or theological in approach. Emphasis is placed on a wide reading in the Christian tradition of both primary and secondary literature in order to assist the student in grasping the integral link between the lived faith of Christians and the theological articulation of that faith. Spiritualities will be seen in the context of their historical emergence, the unique contributions each makes to Christianity, and the link they demonstrate between spiritual life and theological insight.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

315 Christian Marriage

This course is designed to acquaint students with the theology of Christian marriage, understood as covenant relationship and as sacrament, that is, an effective sign of God's love in our world. Primary though not exclusive emphasis will be on the Roman Catholic tradition. Students will also examine contemporary cultural attitudes toward sexuality, marriage, and the family in the light of Christian theology.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

318 Theology from Augustine to Aquinas

A study of the development of Christian theology from St. Augustine to St. Thomas Aquinas. Attention will be given to the formation of the classical Christian views of faith/reason, grace/nature, God/creation.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

320 Readings from St. Thomas Aquinas

An introduction to the theology of St. Thomas Aquinas, his influence and his contemporary significance.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

323 Church and Sacramentality

A study of past and present models of the Church, and of sacramentality as a central expression of Christian communities. Sacramentality recognizes God's transformation of human beings through effective signs, such as Baptism and Eucharist. This course examines the implications of various models of Church and sacramentality for the status and functions of laity, forms of ministry and authority, and the relationship between the churches.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

325 The Catholic Social Traditions

This course examines Catholic reflection on social structures and patterns of moral behavior as they are expressed in economic, social and political contexts. Focus topics might include: social virtues, the role of religion in the public realm, understanding of the person in relation to society and the state, the defense of the dignity of the person, the promotion of the common good, the use of force and the meaning of justice within and between communities. Possible sources for this course might include selections from classic biblical, patristic and medieval texts; papal, conciliar and episcopal documents; writings of modern and contemporary Catholic social theorists; and social movements inspired by the tradition.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

330 Wisdom Writings in the Biblical Tradition

This course introduces students to the structure and contents of some of the major wisdom writings of the Bible, such as Proverbs, Job, Ecclesiastes, Sirach (Ecclesiasticus), and Wisdom of Solomon. Special emphasis is given to the intellectual climate and essential controversies of ancient Israel which produced the wisdom movement and its literature. One of the aims of the course is for students to experience the unique relevance of this ancient quest for wisdom in today's climate of secularity and skepticism.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

331 Christianity and World Religions

This course is a comparison of the teachings and practices of Christianity with the teachings and practices of selected non-Christian religions, for example, American Indian (Lakota), Judaism, Islam, Hinduism and Buddhism. The aim of the course will be to clarify similarities and differences between Christianity and other religions, to reflect on the problem posed by religious pluralism in modern culture, and to develop a Christian theology of world religions. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

332 Judaism

An examination of Judaism, its history, literature, religious concepts, practices and personalities. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

334 Islam

This course is designed to familiarize students with the basic beliefs and practices of Islam in its diverse cultural expressions worldwide, including worship, family life and intellectual and artistic traditions. Through a close reading of Qur'anic and biblical texts, students will consider how Islam is both similar to and different from the other two major monotheistic faiths, Judaism and Christianity. Finally, the course will examine how both Islam and Christianity are meeting the challenges of modern culture. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

335 Letters of St. Paul

Through a careful reading of the authentic letters of Paul, as well as some of the letters attributed to him, this course explores the religious and cultural world of Paul and the Christian communities with whom he interacted. It will also investigate some of the major theological themes of his letters and inquire into Paul's understanding of the ethical life of first-century Christian communities. Finally, the course will examine the impact of Paul's theological and ethical teaching for modern Christian life.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

337 Evil and Suffering

This course analyzes some of the most profound evils of the modern era, and attempts to relate them to traditional and contemporary discussions of divine and human responsibility. It is especially concerned with the unique features of modern evils, including their presence in certain social structures, political systems and scientific technologies. Specific subjects for study, which will vary from year to year, may include: the Holocaust; slave trade; genocidal colonization in Africa, Asia, and the Americas; the threat of nuclear annihilation. The course investigates how religious faith might be re-interpreted in light of these evils, and whether the notion of a suffering deity is theologically appropriate for Christian faith.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

340 The Gospel of John

This course focuses on the gospel of John and the New Testament letters attributed to John. Employing a variety of historical and literary critical methods, the course investigates Johannine literature's unique portrait of Jesus, the theological themes of the gospel, and the worldview and social situation of the community of Christians from which this literature emerged. It also explores some of the ways the gospel of John has been interpreted over the centuries, with special attention to the question of the gospel's attitude toward Judaism and the historical impact of that stance.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

343 Apocalyptic Literature

This course examines some of the apocalyptic literature of the Bible, specifically the books of Daniel and Revelation, as well as non-biblical Jewish and Christian apocalyptic literature of the same periods. It explores a variety of ways of interpreting apocalyptic literature with special attention given to the meaning and significance of its mythical imagery and symbolism. It also examines the nature and function of apocalypticism as a worldview and as a theological response to universal and compelling questions such as the justice of God and the problem of evil.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

345 Gospels of Matthew, Mark and Luke

This course introduces students to the major methods of modern biblical criticism (for example, source criticism, form criticism, historical criticism, redaction criticism, literary criticism, and sociological analysis) and develops expertise in the application of each of these methods to the synoptic gospels (Matthew, Mark and Luke-Acts). Students will learn the major theological teachings, social and historical contexts, and literary features of each of the synoptic gospels.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

346 Christian Faith and the Education Profession (CATH 346)

This course explores education through its grounding in the Christian understanding of God and the human person. Theological topics relevant to education include: the nature of truth, the relationship between faith and reason, and freedom in moral and intellectual formation. We will also examine questions about faith-based education in a pluralistic context and the relevance of an interdisciplinary search for truth. In light of the growing trend toward academic specialization, this course aims to help students learn how various disciplines are integrated in the search for wisdom.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

350 Historical Literature of the Old Testament

Many books of the Old Testament, such as Joshua, Judges, 1 & 2 Samuel and 1 & 2 Kings, contain ancient Israel's own understanding of its history. This course examines books such as these in order to examine their historical content, and to develop an appreciation for the way history was told in the ancient world. Students will learn to apply certain methods of biblical study to the texts. In addition, several major themes in the biblical histories will be explored, such as prophecy, monarchy and developments in Israelite worship. One aim of the course is to examine the relationship between the memorable story telling in these texts and the theological message for both the ancient and modern audience.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

352 The Pentateuch

Critical and in-depth investigations of various Pentateuchal traditions: Primeval Stories; Patriarchs; Exodus; Sinai Covenant; Laws; Entry into Canaan. Particular emphasis will be focused on their origin, transmission, mutual relationships and final theological unity.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

353 Women and the Old Testament

This course explores the topic of women and the Old Testament from several different vantage points. In the first place, it will try to reconstruct the status and roles of women during the biblical periods at various points in their ancient Near Eastern context. This reconstruction will involve an examination of the legal and narrative material of the Old Testament and cross-cultural studies on women and family life in non-industrial countries. Secondly, the course investigates the conceptions of gender in the Old Testament, including key texts such as the creation stories, the stories about the ancestors, the stories about family honor, the female characters of the historical books of the Bible, the books named after women (Ruth, Esther, Judith), the texts symbolizing woman as evil (*e.g.*, the foreign woman, the adulterous wife, the whore of Babylon). Finally, the course studies the interpretive work of biblical scholars and how they utilize various historical and literary-critical methodologies in order to bring issues of gender, race, and class to bear upon the biblical text. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

354 Women and the Christian Tradition

This course explores the ways in which the Judeo-Christian religious tradition has profoundly influenced our society's definition of women. It will focus on what some of the major works of this tradition assert about the nature and place of women in their particular historical communities. Students will also read religious literature by women in order to acquire a sense of women's religious experience both throughout history and in the present day. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

356 Music and the Bible (CATH 356)

This course explores the social, cultural and religious contexts for music-making among biblical peoples and the primitive Christian communities. Students will learn to do detailed analysis of psalm and canticle texts in the Old Testament and acclamations, infancy canticles, God-hymns, Christ-hymns and psalmody in the New Testament. Implications for present-day worship and spirituality will also be addressed.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

357 Sacred Music of the Catholic Heritage (CATH 357)

Music both expresses and shapes religious experience. This course explores the practice and theory of music-making in Catholic worship and devotion. Special emphasis will be given to the study of Gregorian chant as foundational for Roman Rite worship music, the historical development of other forms of Catholic church music, and contemporary issues of music, culture and spirituality.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

359 Women in the Early Church

The literature of early Christianity is filled with ambiguity concerning women's role in the churches and in the story of salvation. Women's subordination was justified on the basis of Eve's role in bringing evil and sin into the world. At the same time, women were presented as heroines and models of the ideal Christian life. They held roles of leadership within early church communities, even while early church writers argued against their right to do so. This course will examine a wide range of primary texts by and about women in the early Christian churches in order to explore the relationship between faith and culture as the context for understanding women's role and status in the early church. It will also look at ways in which these texts might be relevant for the modern context. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

360 Contemporary Catholic Theologians

This course concentrates on the study of two to four influential Catholic systematic theologians of the 20th and 21st centuries within their historical, cultural, and philosophical contexts. The course will alternate between the study of the prominent themes and concerns of the modern and post-modern world, and the theologians' varied responses to these issues through substantial primary text reading and discussion. The Second Vatican Council's impact upon systematic work will be measured as well.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

361 Black Religious Experience

This course explores Black theological development as a cultural, functional and cognitive dimension of traditional Afro-American society, including belief, worship, expression, symbol, spirituality and God. Attention will be given to the meaning and roots of the notions of culture, nationalism and racism as they appear as questions in Black theological thought, including African religions, Islam and The Nation of Islam, along with Afro-American Christian theologies. African as well as Afro-American religious experience combined with the affirmation of the Christian creed are identified in order to evaluate the questions of Black Catholic theology in America today. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

362 American Catholicism

This course emphasizes the impact of cultures on one another in the growth of the Catholic community in today's United States. These world and theological views and their practical application in the piety, politics and everyday life of Catholics will be the primary focus. By summarizing significant events and characters in the history of the Catholic experience, the student will develop an understanding both of the different ethnic experiences and the theological concerns which created a pluralism among American Catholics that makes the Church of the United States truly catholic.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

363 Theology and Politics

A theological investigation of changing relationships between Christianity and the political order, principally in religious terms as understood by Christians themselves, but also from the vantage point of government. Emphasis in the first half of the course is on the foundational events of the New Testament and the early Christian era, and in the second half on Christianity's experience with secular and democratic modernity in America. The aim of the course is to measure the effect, in changing historical contexts, of persecution, establishment, and dis-establishment, on a religion which professes both to be rooted in transcendent reality, and to have direct implications for life in this world. Primary readings from scripture, ancient and modern theology, speeches, sermons, Supreme Court decisions, and political, sociological and religious reflections on the American experiment with democracy and freedom of religion.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

364 Science and Christian Theology (CATH 364)

This course is an introduction to the interrelationship between Christian theology (the understanding of the Christian faith), and the natural sciences. It explores the relationship between scientific and theological methods and modes of knowledge, and considers some of the central topics of Christian theology – God, creation, provi-

dence, resurrection, and afterlife – in the light of modern scientific evidence and theories.

Prerequisites: 101 (or 102 and 103) and one 200-level THEO course, PHIL 115, some college-level background in science, preferably biology, physics, or chemistry

365 Prophetic Literature of the Old Testament

This course examines biblical prophetic activity and prophetic texts within their ancient Near Eastern context. Biblical texts will include both narratives about the prophets, and collections of oracles in the prophetic books. The course includes an examination of the nature and function of prophetic activity from a cross-cultural perspective, the historical background of the prophets, as well as the literary forms and Israelite traditions utilized in the oracles. It will be seen that this background is essential to any discussion of the theology of the prophets.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

366 Psychology and Moral Theology (CATH 366)

Although the fields of psychology and moral theology are in some ways similar in that they each address questions of human nature and human growth, they are also quite distinct in their conceptions of the human person. This course will explore some of the relationships between psychology and moral theology, especially in matters of human wellness and personal well-being. Areas of disparity between the disciplines as well as points of commonality and fruitful exchange will be discussed.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

369 Salvation and Damnation: Theology of Luther and Calvin

How are humans saved? Do we have a free will? Does God choose some to be saved and others to be damned? This course examines the answers offered to these questions by two influential Protestant reformers: Martin Luther and John Calvin. It also explores their views on marriage and family life, work, religious and political authority, and the status of women.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

371 History of Religion in America

This course traces the evolution of religion in the territories that constitute the United States of America today. This collection of believers (Native, Catholic, Protestant, Jewish, Muslim, *etc.*) initially emerged from the complex encounters between the indigenous Native American residents and a triduum of European explorers (Spanish, French, and English). Ultimately it not only incorporated several additional imported communities and belief systems, but also created a unique blend of the sacred and the secular. Attention will be given to the social dynamics of these communities, their understanding of God, and the theologies that developed. The polemic and harmonious relationships of these communities will serve as a backdrop to the development of key concepts (religion, culture, belief, common good, values, *etc.*) as they appear in the religious vocabulary of citizens of the USA.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

373 The Person and Mission of Jesus Christ

This course explores New Testament understandings of some of the titles of Jesus, such as Christ, Lord, and Savior, and investigates the development of Christological doctrine in the early centuries of Christianity. Consideration will also be given to some modern Christological questions.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

374 Atheists and Apologists

This course explores the problem of religious belief in a secular society by focusing on the effects of the empirical and human sciences on the classical understanding of God. Considering original thinkers, such as Descartes, Kant, Hegel, Marx, Darwin, Nietzsche, and Freud, the course will explore the emergence of several types of atheism and the intellectual defense of religious belief. Students will do a detailed reading of selected texts, which may include theological, philosophical, scientific, and literary works.

Prerequisites: 101 (or 102 and 103) and one 200-level THEO course and PHIL 115

378 Christian Faith and the Legal Profession (CATH 378)

If to work is to share in the creative activity of God, then what specific challenge does this pose for an attorney given the grinding realities of the legal profession? If to be a professional is to live out a tripartite relationship between self, client, and a higher standard, then how does an attorney determine, much less respond to such a standard? Through a close reading of a variety of theological texts, treatises, case studies and rules of professional conduct, this course will address these questions and, in so doing, attempt to fashion a paradigm for the Christian practice of law. Within this paradigm, emphasis will be placed on the meaning of justice, law, rights and responsibilities. An ethic of care that fosters the development of a compassionate world and a common life will be emphasized.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

College of Arts and Sciences – Departments

379 Christian Faith and the Medical Profession (CATH 379)

What is a good doctor? This course pursues this question and possible answers to it, from a historical, moral, and theological point of view. Reading and discussion will be guided by a detailed investigation of the scientific/technological, economic, and cultural forces that are presently complicating our traditional understanding of medical practice. Emphasis throughout will be on the Christian tradition of moral inquiry as a resource for responding to this question.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

380 Grace, Hope and Eschatology

This course explores the connections among the life of grace, Christian hope and the traditional “last things” – death, judgment and eternal life – using the death-resurrection of Jesus as the foundation and point of departure for study.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

382 Death and the Afterlife

This course explores Christian and non-Christian conceptions of death and afterlife. It focuses on Christian theological views, but also considers Jewish, Muslim, Hindu, and Buddhist conceptions. Specific topics addressed will be ideas of judgment, heaven, purgatory, hell, reincarnation, and accounts of near-death experiences.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

386 Topics in Systematic Theology

The subject matter of this course, announced in the annual Class Schedule, will vary from year to year, but will not duplicate existing courses in systematic theology. The course will consider particular topics, which will be offered at least every two years, on a rotating basis. Topics will include: Theologies of Global Economics, the Church in Latin America, Theology of the Catholic Worker Movement, Women Mystics, Ireland: Understanding Celtic Spirituality, and Newman and the Catholic Revival.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

387 Topics in Scripture

The subject matter of this course, announced in the annual Class Schedule, will vary from year to year, but will not duplicate existing courses in scripture. The course introduces students to major methods of biblical criticism and helps students develop expertise in the application of appropriate methods to a given scriptural book or topic. The topic could consist in a focus on a particular text, such as Psalms or the Catholic Epistles, or on a theme related to scriptures, such as Biblical Ethics or History of Biblical Interpretation. The course may be taken more than once.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

388 Topics in Historical Theology

The subject matter of this course, announced in the annual Class Schedule, will vary from year to year, but will not duplicate existing courses in historical theology. The course will consider particular historical thinkers, texts, themes or movements and help students to develop expertise in the theological consideration and analysis of them. This course may be taken more than once.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

389 Issues in Christian Morality

This course focuses on the historical development and contemporary discussion of a specific moral issue – to be announced in the annual Class Schedule – addressed within the Christian theological tradition. Examples of such issues include, but are not limited to: war and peace, sex and the body, wealth and poverty, family and society. Emphasis will be on the foundations (biblical, traditional) and development of a distinctively Christian approach to the issue. Substantial attention will be devoted to modern challenges. This course may be taken more than once.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

395, 396 Special Seminar

2 credits

397, 398 Special Seminar

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html. The odd number is used if the course will fulfill a core curriculum requirement for Human Diversity or Computer Competency.

Prerequisite: 101 (or 102 and 103) and one 200-level THEO course

Note: 400-level courses cannot be used to fulfill the core curriculum requirements in Faith and the Catholic Tradition.

417 Internship in Ministry

This internship complements the student's academic work by providing supervised ministerial experience. Working with an on-site ministry staff person, the student will apply his or her academic training to a chosen area of ministry. A minimum of 10 hours per week at the selected agency or church is required, as well as a weekly seminar session led by a UST Theology faculty member.

Prerequisite: Completion of 24 credits in theology, including 101 (or 102 and 103) and 215

445 Theology and Education

A study of topics and procedures for teaching religion. Using previously acquired theological knowledge, the course examines the tasks of translating and transmitting that knowledge as a series of insights to elementary and secondary students. The course will include supervised teaching experience.

Prerequisite: 101 (or 102 and 103)

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

480 Seminar for Theology Majors and Minors

A capstone experience for theology majors and minors. The subject matter of this course, announced in the annual Class Schedule, will vary from year to year, but will not duplicate already existing theology courses. Students explore, in seminar format, a particular theological theme or issue from the perspective of at least three of the four sub-disciplines of theology (biblical, systematic, historical, moral). Under the guidance of the instructor, students will complete a major research project.

Prerequisites: a minimum of sixteen credits in theology, including 101 (or 102 and 103)

481 Research Thesis for Majors

An independent research thesis for majors to be completed under the direction of a theology faculty member. The results of this thesis, at the student’s option, may be presented at the annual Senior Forum, in which theology majors present their research work before theology students and faculty members. The research thesis is best suited to students who intend to pursue an academic career in theology. See the department chair for further information.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.



Actuarial Science (ACSC)

Youn (MATH), director, Dayananda (MATH)

The Bachelor of Science in Actuarial Science is an interdisciplinary degree program offered through the Department of Mathematics. (See also the Department of Mathematics in this catalog.)

Actuarial science education equips students with strong mathematical problem-solving skills that can be applied to business careers. The major requirements consist of courses in mathematics, actuarial science, computer science, business, economics and a course in communication. Coupled with a firm foundation in the liberal arts, this major provides a sound grounding in analytical problem-solving and communication skills.

This program prepares students for a variety of careers with insurance companies, consulting firms, financial institutions, industrial corporations or government agencies. It also provides a good preparation for non-actuarial careers in banking, finance or insurance. In addition, the statistical background developed by an actuarial student is valuable in a variety of other fields.

Students graduating with a major in Actuarial Science will become proficient in basic mathematics through multi-variate calculus and probability together with basic notions of insurance and risk management. They will demonstrate the ability to think clearly and critically in solving problems related to the analysis and management of risk. They will be able to effectively communicate technical and non-technical information to their peers and to non-specialists in their work environment.

To be certified as a Fellow or an Associate by either the Society of Actuaries or the Casualty Actuarial Society, one must pass a series of rigorous examinations. The earlier examinations are focused on mathematics and statistics and can be taken while a student. The later examinations cover aspects of business, economics, and the regulatory climate.

A careful selection of courses from a variety of departments helps a student to prepare for many excellent professional opportunities in this field. Students should see the director of the Actuarial Program for advice in selecting courses for a particular purpose.

Within the Department of Mathematics, the Center for Applied Mathematics provides opportunities for actuarial science students to work on significant mathematical problems of current interest to business, industry, and government.

Major in Actuarial Science (B.S.)

ACCT	205	Introduction to Accounting
ACSC	264	Theory of Interest
ACSC	320	Risk Management and Insurance
ACSC	351	Foundations of Actuarial Mathematics
ACSC	352	Actuarial Contingencies
BUS	201	Ethics and Practice: Foundations of Business
ECON	252	Principles of Microeconomics
FINC	321	Financial Management
MATH	113	Calculus I
MATH	114	Calculus II
MATH	200	Multi-Variable Calculus
MATH	210	Linear Algebra and Differential Equations
MATH	313	Probability
MATH	314	Mathematical Statistics
QMCS	230	Software Design Using the JAVA Language

Plus one of:

ACSC	464	Mathematical Finance
MATH	333	Applied Statistical Methods: Regression, Time Series, Forecasting
MATH	385	Mathematical Methods of Numerical Analysis

Plus one of:

COMM	100	Public Speaking
COMM	105	Communication in the Workplace
ENGL		200 or above
JOUR	215	Journalistic Writing in the Workplace
JOUR	311	Persuasion in Writing

Suggested Electives:

BLAW	301	Legal Environment of Business
ECON	251	Principles of Macroeconomics
ECON	351	Macroeconomic Theory
ECON	352	Microeconomic Theory
ECON	355	Game Theory
FINC	324	Advanced Financial Management
FINC		400-level Investment Courses
MBIS	701	Insurance Seminar

MKTG	300	Principles of Marketing
QMCS	281	Object-Oriented Design and Programming
QMCS	450	Database Design

Minor in Actuarial Science

ACSC	264	Theory of Interest
ACSC	320	Risk Management and Insurance
MATH	113	Calculus I
MATH	114	Calculus II

Plus eight credits from the following:

Note: At least four credits must not satisfy the student's major field requirement (including allied requirements)

ACCT	205	Introduction to Accounting
ACSC	351	Foundations of Actuarial Mathematics
ACSC	464	Mathematical Finance
ECON	252	Principles of Microeconomics
FINC	321	Financial Management or FINC 300 Finance for non-Business Majors
MATH	200	Multi-Variable Calculus
MATH	313	Probability or MATH 303 Statistics for the Applied Sciences

264 Theory of Interest

A survey of topics in the mathematical analysis of financial transactions which involve payments made over time. Specific areas of concentration will include the time value of money; the analysis of annuities; amortization and sinking funds; and the pricing and rates of return on investments. Both continuous time and discrete time problems will be considered.

Prerequisite: MATH 114.

320 Risk Management and Insurance

This course introduces students to the subjects of insurance—theory and practice—and corporate risk management. In addressing these subjects, students will receive exposure to risk theory, insurance pricing, contract analysis, insurance company operations, reinsurance, regulation and the concepts and principles of business risk management.

Prerequisite: Junior standing or MATH 114

351 Foundations of Actuarial Mathematics

The course covers the theory and applications of contingency mathematics in the area of life and health insurance, annuities and pensions from both the probabilistic and deterministic approaches. Topics will include: survival distributions, actuarial notation, life insurance and life annuities, net premiums and reserves.

Prerequisite: 264 and MATH 313.

352 Actuarial Contingencies

Extension of the analysis of 351 to multiple life functions and multiple decrement theory. Topics will include: multiple life functions and multiple decrement models, valuation of pensions, insurance models including expenses, nonforfeiture benefits and dividends.

Prerequisite: 351

464 Mathematical Finance

The focus of this course is on applications of probability, stochastic processes, and other mathematical tools to problems in finance. Both discrete and continuous models, including binomial, Brownian motion, and geometric Brownian motion models will be used to investigate the effects of randomness in financial markets and the behavior of financial instruments. The mathematical realization of arbitrage and hedging strategies will be examined, including the Arbitrage Theorem and the concept of risk-neutral pricing. Applications will include the pricing of equity options, currency transactions and the use of duration and convexity in fixed income analysis. The course will be of interest to students of actuarial science, mathematics, finance and economics who want to develop a better quantitative understanding of financial risk.

Prerequisites: MATH 313 or MATH 303 and ACSC 264 or a course in FINC approved by the instructor

American Cultural Studies (ACST)

W. Banfield, director

American Cultural Studies is an interdisciplinary minor in which students will have the opportunity to develop a critical perspective on the rich and multiple meanings of two crucial terms: "American" and "culture." Drawing on perspectives from a number of participating departments and programs (e.g. communication, English, history, art history, sociology, music, theology, philosophy, theater, journalism and mass communication, and modern and Classical languages), the American Cultural Studies minor examines the symbols, practices, and histories

College of Arts and Sciences – Interdisciplinary Programs

which contribute to the complexity and variety of the “American” experience, including North America and South America. In addition to making connections among disciplines, students will be encouraged to engage in analysis that discovers linkages and tensions between vernacular and elite culture, as well as among diverse and multiple cultural identities and affiliations. Although the emphasis will be on the analysis of culture as a system, the program may where appropriate offer courses that address the relationship between contemporary cultural phenomena and their historical origins.

The American Cultural Studies minor will appeal to any student who wishes to acquire a critical intellectual framework for:

1. thinking and acting in a diverse and increasingly fragmented society;
2. developing a political, economic, artistic, and spiritual consciousness that is informed by and expressed through popular culture and the technology of mass media and communication.

Given its emphasis on the diversity and multiplicity of cultural experience and its interdisciplinary focus on the various strands that comprise the fabric of a given culture, the minor in American Cultural Studies is particularly suited to provide students with the awareness and critical framework necessary to be effective and ethical participants in an increasingly globalized civic and economic environment.

Minor in American Cultural Studies

200 Foundations of American Cultural Studies

Plus:

Twenty additional credits (at least four from each of the categories below and no more than eight from a single department):

American Cultures: History, Society, Politics

GEOG	340	Geography of the U.S. and Canada
HIST	210	Modern Latin America 1800 to the Present
HIST	361	American Thought and Culture since the Civil War
HIST	369	African-American History
POL	301	American Political Behavior
SOC	251	Race and Ethnicity
SPAN	332	Survey of Latin American Culture and Civilization

American Cultures: Literature and the Arts

ARTH	320	Art and Culture of Colonial Mexico
ARTH	391	Native American Art
ARTH	392	American Art
ENGL	215	American Authors II
ENGL	373	Contemporary American Literature
ENGL	395	Issues in Literature and Culture
MUSC	216	Jazz in America
MUSC	217	Music of the Americas
MUSC	218	Black American Music: An Historical Survey
MUSC	222	The Theology of American Popular Music
THR	223	History of Theater III: American

American Cultures: Mass Culture, Popular Culture, and Communication Media

COMM	340	Rhetoric of Race, Class and Gender
COMM	350	Modern American Rhetoric
COMM	360	Television Criticism
COMM	455	Political Communication and Television
JOUR	302	Literary Journalism
JOUR	305	Gender, Race, and Mass Media
JOUR	402	Society, Culture, and the Media
JOUR	404	Media Structure and Power

200 Introduction to American Cultural Studies

Students will explore in an interdisciplinary fashion some of the central ideas, myths, and perspectives that have shaped the American cultural experience. Although primarily focused on the culture of the United States, examination of the historical/cultural phenomena of North, Central, and South America will be considered. Through a critical analysis of various forms of culture expression, students will gain an understanding of how different groups of Americans define themselves and each other; how cultural identity and meaning have been constructed; and how power has been established, maintained, and, at times, diffused and shared. Students will also be exposed to the theoretical and methodological issues current in the field. This course fulfills the Human Diversity requirement of the core curriculum.

Biochemistry

Emms (BIOL), Boyd (CHEM), chairs; Advisory committee: Marsh (CHEM), Olson (CHEM) committee chair, Sherer (BIOL), Verhoeven (BIOL)

Biochemistry is an interdisciplinary major that draws upon faculty and courses in the departments of Biology and Chemistry. The major is administered by a committee of representatives from both departments and is designed to meet the needs of students interested in gaining an understanding of the chemistry of life processes. Students who fulfill the requirements will receive a Bachelor of Science (B.S.) degree in Biochemistry. The program is appropriate for students pursuing graduate studies in biochemistry, medicine, or related fields. The major is also suitable for students interested in positions in biotechnology after graduation.

Entering students interested in this major should inform Academic Counseling. Students are advised to begin their introductory biology and chemistry coursework in their freshman year. The biochemistry committee will coordinate advising. Students should talk with an adviser as soon as possible following their freshman year in order to select the elective courses that will be most appropriate to their interests. A research course in either biology or chemistry can be counted as one of the electives and is highly encouraged if the student will be seeking admission to a graduate program in biochemistry or molecular biology.

Students choosing this major may not take a second major or a minor in either Biology or Chemistry.

Graduation with Honors in Biochemistry

Students graduating with a B.S. in Biochemistry may also qualify for honors. Students interested in this designation must consult with the chair of the Biochemistry Committee one year or more prior to graduation.

Requirements include:

- An overall minimum cumulative GPA of 3.25.
- A cumulative GPA of 3.50 in the courses in both biology and chemistry combined.
- Completion of four credits in research. This may consist of a 4-credit course or two 2-credit courses in either biology or chemistry.
- Preparation of a written thesis in the form of the primary literature.
- Successful defense of the thesis before an examining panel which includes the thesis director, a representative from each of the departments of biology and chemistry, a faculty member from outside the departments of chemistry and biology and a faculty member from another institution. The panel members should be selected in consultation with the thesis adviser.
- Presentation of the research at an off-campus meeting.

Note: All requirements should be completed by April 20 for a spring graduation, or by November 15 for a fall graduation.

Major in Biochemistry (B.S.)

BIOL 201 Diversity and Adaptation
 BIOL 202 Genetics and Population Biology
 BIOL 204 Cellular and Molecular Biology

Plus:

CHEM 111 General Chemistry I
and
 CHEM 112 General Chemistry II
or
 CHEM 115 Accelerated General Chemistry

Plus:

CHEM 201 Organic Chemistry I
 CHEM 202 Organic Chemistry II
 CHEM 440 Biochemistry I
 CHEM 442 Biochemistry II

Plus one of:

CHEM 331 Chemical Thermodynamics and Reaction Dynamics
 CHEM 332 Quantum Chemistry and Molecular Spectroscopy

Plus:

Twelve additional credits numbered BIOL 295 or higher.

Note: Four credits must be at the 400-level, excluding Research. Four credits may be in Research at the 300-level.

Four additional credits in CHEM, selected in consultation with the adviser.

Allied requirements

MATH 113 Calculus I (or equivalent)
 MATH 114 Calculus II
 PHYS 111 Introduction to Classical Physics I
 PHYS 112 Introduction to Classical Physics II

College of Arts and Sciences – Interdisciplinary Programs

Classical Civilization (CLAS)

To be appointed (M&CL), director

The study of Classical civilization – the cultures of ancient Greece and Rome and their relationship to the societies of the Mediterranean and the Near East – is the origin and foundation of the modern university. To this day, it continues to be a model of an interdisciplinary approach to the study of culture, combining fields of literature and language, history, archaeology and art history, religious studies, and philosophy.

The Classical Civilization major at St. Thomas provides an opportunity for students to integrate various disciplines in the study of a subject. It also provides an awareness of the origins of modern culture and religion and the influence of other ancient cultures of the Near East and Egypt upon its formation. This interdisciplinary program includes an introductory foundation course, a series of courses from a variety of supporting disciplines, and a capstone senior paper requirement.

Major in Classical Civilization

CLAS	245	Classical Mythology
CLAS	397	Topics
CLAS	480	Senior Paper
ENGL	220	The Classical Tradition
HIST	111	Origins of the Modern World to 1550
HIST		300-level ancient history course approved by director
PHIL	200	Ancient Philosophy

Plus one of:

GRK	212	Intermediate Greek II (prerequisites may be necessary)
LAT	212	Intermediate Latin II (prerequisites may be necessary)
GRK or LAT		Four credits numbered above 212

Plus one of:

ARTH	305	Greek Art and Archaeology
ARTH	310	Roman Art and Archaeology

Plus two of the following courses not already taken above:

ARTH	305	Greek Art and Archaeology
ARTH	310	Roman Art and Archaeology
COMM	440	Classical Rhetoric
GRK	342	Greek Reading and Exegesis: John
GRK		additional course
HIST	302	Classical and Early Hellenistic Greece
HIST	304	The Roman Republic and the Early Principate
HIST	306	The World of Late Antiquity: A.D. 284-641
HIST	307	The Church in the Roman Empire to A.D. 395
LAT	360	Philosophy in Latin Texts
LAT		additional course
PHIL	230	Greek Philosophers on the Foundations of Knowledge
PHIL	320	Aristotelian Logic
THEO	210	New Testament
THEO	220	Early Christian Theology

245 Classical Mythology

Mythology is the embodiment and encoding of the beliefs, principles, and aspirations of ancient cultures. This course provides an interdisciplinary introduction to mythology as an introduction and foundation to Classical civilization. Myths will be examined from a variety of perspectives, including the study of literature in translation, art historical, religion, and history.

397 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

480 Senior Paper

0 credit

During the senior year or earlier majors are expected to write a major research paper with an abstract and to describe the results of their research in a short oral presentation to a panel of faculty. Normally this requirement is accomplished by rewriting and submitting a paper from one of the major field courses. The topic should be chosen in consultation with the program director and should be completed no later than 6 weeks prior to graduation. Papers will be presented to students and faculty at least annually at a symposium.

483, 484 Seminar	2 credits
485, 486 Seminar	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	
487, 488 Topics	2 credits
489, 490 Topics	
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html .	
491, 492 Research	2 credits
493, 494 Research	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	
495, 496 Individual Study	2 credits
497, 498 Individual Study	
See the description of these courses at the beginning of the “Curricula” section of this catalog.	

East Asian Studies

Hwa (HIST), adviser

East Asian Studies is an ACTC (Associated Colleges of the Twin Cities) interdisciplinary program that studies the history, culture, and languages of East Asian countries. Students may pursue a concentration on a specific country, in business, education, media/journalism, humanities, or the social sciences of the region. Concentrations may be determined in consultation with the East Asian Studies adviser.

Major in East Asian Studies

A major in East Asian Studies consists of 36 credits which must include:

- sixteen credits in an East Asian language
(languages not offered at ACTC institutions may be available at the University of Minnesota)
- sixteen credits in East Asian studies (with a minimum of eight credits in upper-division courses)
- eight credits in history
- four credits in philosophy/religion/arts/literature
- four elective credits in an East Asian course, or a course with some East Asian content
- four credits in an East Asian studies seminar

Minor in East Asian Studies

A minor in East Asian Studies consists of 20 credits which include:

- eight credits in East Asian language courses
(with the consent of the adviser, some language courses may be waived, but the total number of credits in the minor remains the same)
- twelve credits in East Asian studies (with a minimum of four credits in upper division courses)
- four credits in history
- four credits in philosophy/religion/arts/literature
- four credits in an East Asian course, or a course with some East Asian content

Courses with fully-dedicated East Asian content available at St. Thomas

(consult the adviser for courses available at the other institutions)

HIST	220	Introduction to Japanese History and Culture
HIST	340	Foundations of Chinese Civilization
HIST	341	History of Modern China
HIST	345	Family and Women in Chinese History
HIST	347	The Modernization of Taiwan, Hong Kong, and China
HIST	464	Seminar in Chinese History
PHIL	210	Chinese Philosophy

Courses including other contents in addition to East Asian topics

ARTH	289	Asian Art
GEOG	240	Geography of East and Southeast Asia
HIST	372	The United States and Viet Nam

Language Courses

JAPN	111	Elementary Japanese I
JAPN	112	Elementary Japanese II
JAPN	211	Intermediate Japanese I
JAPN	212	Intermediate Japanese II
JAPN	311	Advanced Japanese

Chinese language courses are available at Hamline University.

College of Arts and Sciences – Interdisciplinary Programs

Environmental Studies (ENVR)

Hoffman (POL), director; Governance Committee: Degnan (PHIL), Evarts (BIOL), Hickson (GEOL), Ippoliti (CHEM), Kelley (GEOG), Lorah (GEOG), Neuzil (JOMC), Sathe (ACCT), Scott (PSY), Smith-Cunnen (SOC), Vincent (ECON), Werner (GEOG)

The Environmental Studies program provides students with a broad interdisciplinary background as well as a basis for career specialization and practical application and problem solving. The program is based upon an investigation both of the Earth's environment and the wide variety of human interactions with that environment. The program has three basic objectives:

1. to transmit an understanding of environmental problems and their complexities,
2. to motivate productive responses to those problems, both vocational and avocational, based on that understanding, and
3. to foster the development of critical, inquiring minds.

All students majoring in Environmental Studies are required to take 36 credits in core courses, another 24 credits in concentration-area courses, and four credits in an allied course. The core courses are designed to provide the student with a foundation in the physical, social and ethical dimensions of environmental issues. Students graduating with a major in environmental studies will demonstrate their ability to integrate their liberal arts and professionally-oriented education. Students are encouraged, but not required, to take additional courses in writing and computer applications, and should consult the chair of the Environmental Studies Committee for recommendations.

The concentration area consists of a minimum of an additional 24 credits beyond the core. These courses are meant to deepen the student's understanding of the origin and complexity of environmental issues while focusing attention on one particular area of study.

The student may

- a. choose to specialize in an existing area of study or
- b. may propose an individually designed concentration program.

In either case, students are required to submit a Concentration Area Proposal to the Governance Committee for approval. The proposal will identify the prospective concentration area, a set of learning objectives, and the concentration area's relationship to the student's environmental interests. Students are strongly encouraged to discuss the formation of their concentration area with the director of the program or another member of the Governance Committee. Committee members can assist students in constructing successful concentration area proposals. Students are required to identify their concentration area by the end of their sophomore year or the first semester of their junior year.

Major in Environmental Studies: Concentration Area in the Natural Sciences

151	Humans and the Environment
212	Social Dynamics and the Environment
301	Environmental Ethics
351	Environmental Policy Formation
401	Field Seminar

Plus:

BLAW	351	Environmental Law
		<i>or</i> ECON 252 <i>or</i> POL 205 (with approval of program director)
GEOL	115	Environmental Geology <i>or one of</i> GEOL 110, 111, 113, 114

Plus one of:

BIOL	102	Conservation Biology
BIOL	201	Diversity and Adaptation

Plus either:

CHEM	101	Environmental Chemistry
		<i>or</i>
CHEM	111	General Chemistry I <i>and</i> 112 General Chemistry II

Plus one of:

MATH	303	Statistics for the Applied Sciences
QMCS	220	Statistics I

Plus:

Concentration area in one of the natural sciences

Major in Environmental Studies: Concentration Area in Social Science, Business, or Humanities

151	Humans and the Environment
212	Social Dynamics and the Environment
301	Environmental Ethics
351	Environmental Policy Formation
401	Field Seminar

Plus one of the three sequences below:

BIOL 102 Conservation Biology
 CHEM 101 Environmental Chemistry
 GEOL 115 Environmental Geology *or one of* GEOL 110, 111, 113, 114
 GEOL 252 Geomorphology

or

BIOL 201 Diversity and Adaptation
 BIOL 202 Genetics and Population Biology
 CHEM 101 Environmental Chemistry
 GEOL 115 Environmental Geology *or one of* GEOL 110, 111, 113, 114

or

BIOL 102 Conservation Biology
 CHEM 111 General Chemistry I
 CHEM 112 General Chemistry II
 GEOL 115 Environmental Geology *or one of* GEOL 110, 111, 113, 114

Plus one of:

MATH 303 Statistics for the Applied Sciences
 QMCS 220 Statistics I

Plus:

Concentration area in one of the social sciences, business, or humanities

Minor in Environmental Studies

151 Humans and the Environment
 212 Social Dynamics of the Environment
 301 Environmental Ethics
 351 Environmental Policy Formation

Plus:

BLAW 351 Environmental Law
or ECON 252 *or* POL 205 (with approval of program director)

151 Humans and the Environment

A study of the interaction of humans and the environment over time and space; a broad introduction that integrates a variety of social-science perspectives into an understanding of the environment and the relations between humans and nature. Specific topics include ecology, population, economic development, resources and sustainable development. This course fulfills the second-level Computer Competency requirement in the core curriculum.

212 Social Dynamics and the Environment

An emphasis on the ways in which people have created, and attempted to solve, environmental problems in different cultural and historical contexts. Examines the roles of the entire spectrum of actors and human communities, including individuals, families, groups and formal organizations, neighborhoods, cities and nations. Students examine how individual dynamics (such as altruism and economic self-interest) and collective dynamics (such as competition, cohesion, social definitional processes and global interdependence) direct humans in their interactions with the environment.

Prerequisite: 151

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

301 Environmental Ethics (PHIL 358)

Consideration of the ethical issues arising from human interaction with the environment, including population pressure, pollution, conservation and preservation. Focus on the grounds of our obligation to resolve such issues; the question of what persons and things are worthy of moral consideration; and the respective roles of individuals, organizations and government in addressing environmental problems. Case studies will be used to trace the implications of various ethical and political theories.

Prerequisite: 151 and PHIL 214

351 Environmental Policy Formation (POL 316)

An examination of environmental policy outcomes generated by institutions and organizations, including legislation, court decisions and administrative decisions. Additional focus on decision-making processes commonly used to assess environment-related legislation, including those rooted in economics and policy analysis.

Prerequisite: 212

College of Arts and Sciences – Interdisciplinary Programs

401 Field Seminar

A capstone course that combines field experience with classroom seminar. Student teams will conduct collaborative, broadly interdisciplinary analyses of selected environmental problems. Field-based projects are chosen by the students in consultation with course instructor. Classroom seminars are used for exchange of information between teams and for discussion of readings pertinent to individual research projects or, more broadly, to the interdisciplinary character of environmental problem-solving. Each team produces a major paper that examines ethical and natural- and social-science aspects of the selected problems.

Prerequisite: 301 and 351 or permission of the instructor

475, 476 **Experiential Learning** 2 credits
477, 478 **Experiential Learning**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

483, 484 **Seminar** 2 credits
485, 486 **Seminar**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 **Topics** 2 credits
489, 490 **Topics**

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 **Research** 2 credits
493, 494 **Research**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 **Individual Study** 2 credits
497, 498 **Individual Study**

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Family Studies (FAST)

Grochowski (H&HP), director

Family Studies is an interdisciplinary field of study in which the family is the primary unit of analysis. The purpose of this minor is to enable students to critically examine the family using a variety of theories and methods. Family Studies scholars can develop understanding of business and communication dynamics, health and social concerns, and psychological and theological matters affecting families and their members. A family studies minor is flexible and multidisciplinary, providing for both broad exposure and disciplinary integration. This minor provides preparation for advanced study in family studies and the allied fields, as well as professional work in organizations focusing on families.

No more than eight credits may be taken from a single major field. Students interested in a minor in Family Studies should meet with the director.

Minor in Family Studies

400 Family Studies Seminar

Plus one of:

PSY 288 Psychology of Marriage and the Family
SOC 321 Marriage and the Family

Plus three of:

COMM 425 Family Communication
ENTR 349 Family Business Management
FAST 495, 496 Individual Study (2 credits)
FAST 497, 498 Individual Study
HIST 345 Family and Women in Chinese History
HLTH 462 Human Sexuality Education
PSY 200 Psychology of Infancy and Childhood
PSY 203 Psychology of Adolescence
PSY 204 The Psychology of Adulthood and Aging
PSY 288 Psychology of Marriage and the Family
SOWK 210 Relationship, Intimacy, and Sexuality
SOC 303 Aging and the Lifecourse
SOC 304 Adolescence in Society
SOC 321 Marriage and the Family
THEO 315 Christian Marriage

295, 296 Topics 2 credits
 297, 298 Topics
 The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

400 Seminar in Family Studies

This advanced capstone course for the Family Studies minor is a multidisciplinary seminar taken after the learner has completed at least four courses in the Family Studies minor. The course will incorporate a variety of methods, theories, and pedagogies drawn from the family studies paradigm. A substantial portion of the course will be devoted to student research and presentations that incorporate family studies scholarship.
 Prerequisite: PSY 288 or SOC 321 and three other courses from the list of approved courses for the minor.

495, 496 Individual Study 2 credits
 497, 498 Individual Study
 See the description of these courses at the beginning of the “Curricula” section of this catalog.

International Studies

Papagapitos (ECON), director

This major seeks to give the student a basic understanding of the contemporary international system. It combines study in economics, history and political science with a concentration in one of these fields, along with the study of a foreign language beyond the College’s general education requirement. The program enables students to relate international interests to a broad range of careers including government, international business, nonprofit associations and teaching.

Students graduating with a major in international studies should have adequate preparation for their professional lives, and the capacity for intellectually stimulating lives. They will be capable of critical thought and writing in the discipline. They will have pursued opportunities for broader governmental and international experience, and should be well-prepared to undertake post-baccalaureate studies.

Major in International Studies

- ECON 251 Principles of Macroeconomics
- GEOG 113 World Geography
- HIST 112 The Modern World Since 1550
- IDSC 481 Seminar in International Studies
- POL 105 Politics and Government in a Comparative Perspective

Plus:

Twenty-eight credits from the following list. A student must choose 16 credits from one discipline, and the remaining 12 must include courses from each of the other two disciplines.

- ECON 252 Principles of Microeconomics
- ECON 345 Economics of Development and Growth
- ECON 346 Country and Area Studies in Economics
- ECON 348 International Economics
- ECON 349 Comparative Economic Systems

- HIST 210 Modern Latin America, 1800 to the Present
- HIST 220 Introduction to Japanese History and Culture
- HIST 313 Europe 1750 to 1945
- HIST 314 Modern Europe since 1945
- HIST 340 Foundations of Chinese Civilization
- HIST 341 History of Modern China
- HIST 345 Family and Women in Chinese History
- HIST 347 The Modernization of Taiwan, Hong Kong, and China
- HIST 371 History of U.S. Foreign Policy

- POL 225 Introduction to World Politics
- POL 320 American Foreign Policy
- POL 326 International Law and Organizations
- POL 350 Comparative Politics of the New Europe
- POL 352 Third World Politics and Government
- POL 424 Seminar in International Politics
- POL 454 Seminar in Comparative Politics

College of Arts and Sciences – Interdisciplinary Programs

GEOG The Department of Geography from time to time offers courses on the geography of selected regions of the world. With the approval of the director of international studies, these courses may be elected to full-fill non-concentration requirements.

Allied requirements

At least twelve credits beyond the core curriculum requirement in a particular modern foreign language

Recommended courses:

While the student who might eventually seek employment in international business may choose any courses in business administration, the following four courses would be most appropriate for gaining general background in the field:

ACCT 205 Introduction to Accounting
BLAW 301 Legal Environment of Business
MGMT 300 Management for Non-Business Majors
MKTG 300 Principles of Marketing

ACTC courses:

A student with particular academic and/or career interests should consult with the director about courses offered by the Associated Colleges of the Twin Cities that would be appropriate to the major.

Opportunities for studying human diversity:

Students should particularly note the opportunities in the major for enhancement of their understanding of other cultures. Courses with a non-Western focus meeting the requirements of the major are available both on campus and at the other ACTC schools.

Opportunities for study abroad:

Students majoring in international studies should seriously consider one or more of the opportunities to study abroad offered by the International Education Center.

Opportunities for internships:

Students majoring in international studies should discuss with the director opportunities to relate academic and career interests through internship experiences in the Twin Cities or Washington, D.C.

Justice and Peace Studies (JPST)

Toffolo (POL) (director), Nelson-Pallmeyer, King (THEO), Landry (THEO), Schlabach (THEO), Smith (THEO), Weigl (THEO); Andregg, Burr, Cytron, Davidov, Klein, Nairn, Palackapilly, Tousignant

Justice and Peace studies is an interdisciplinary program designed to prepare students to be responsible critics of contemporary societies and effective agents for positive social transformation. Core courses for the major and minor, and the pattern of the program in general, make use of the four stages of the *Circle of Praxis*:

1. *Experience* (actual and vicarious) of poverty, injustice, violence and marginalization.
2. *Descriptive analysis*: Empirical study of the economic, political, social, and cultural realities of society, and the historical events that produce them.
3. *Normative analysis*: Moral judgment on existing societies; study of alternative possibilities; and analysis of the moral values at stake.
4. *Action possibilities*: Strategies and skills for transforming society from its present condition to a better condition.

The Justice and Peace Studies program is strongly interdisciplinary and interfaith. It promotes understanding and appreciation of widely diverse ideologies, cultures, and world views. Special attention is given to the rich tradition of Roman Catholic social thought in the context of pluralistic world societies.

Students graduating with a major in Justice and Peace Studies will understand how the circle of praxis works, as well as the role of each of its components (see above). They will also know how to use skills associated with each component. They will know the principles of active nonviolence, how it operates to promote social change, and several historical examples of its use. Students will also learn the techniques and uses of other methods of social change and how to judge when to use each method effectively. They will be able to engage in respectful dialogue with people who value and propose responses to violence and injustice that differ widely from their own. They will understand, and be able to use, conflict resolution skills in personal life and small groups, and they will understand how these techniques are used in inter-group and international conflicts. They will have developed the personal skills and confidence to work effectively in organizations committed to justice and peace.

While all core courses utilize all four steps of the circle of praxis, JPST 250 concentrates on experience and descriptive analysis, and THEO 305 concentrates on normative analysis. The others concentrate on action possibilities.

JPST 250 and THEO 305 require extensive student writing and discussion. One elective course, JPST 360, typically incorporates a service-learning trip that relies upon the VISION philosophy of Campus Ministry (*i.e.*, it contains a spiritual component that is very open to diverse expression of faith and/or thoughtful reflection on normative questions).

Major in Justice and Peace Studies

JPST	250	Introduction to Justice and Peace Studies
JPST	340	Active Nonviolence
JPST	470	Conflict Resolution
JPST	472	Justice and Peace Senior Seminar
THEO	305	Theologies of Justice and Peace

Plus a significant experience:

Appropriate experience of poverty, injustice, violence, and/or marginalization. May be done for credit, through 475-478 Experiential Learning.

It may also be done on a non-credit basis (*e.g.*, in the context of another course or through volunteer activities). Possibilities include the trip taken as part of JPST 360, Campus Ministry programs, and off-campus study through programs that expose students to poverty and oppression.

Examples of appropriate off-campus study programs include those run by: HECUA (*e.g.*, conflict resolution in Northern Ireland, poverty in the Twin Cities; development in Ecuador; environment in Guatemala; immigration in Norway); Augsburg's Center for Global Education (*e.g.*, in Cuernavaca Mexico); American University's Washington Semester (*e.g.*, on homelessness); and UMAIE. Campus Ministry programs include VISION trips during January term, spring break or summer sessions (to Guatemala, Appalachia, the border of Mexico, a Native American reservation, *etc.*), and VIA programs, located in the Twin Cities (*e.g.*, working at a shelter, tutoring immigrant students, Catholic Worker house, *etc.*).

Plus four additional credits in descriptive analysis

Appropriate courses include:

ACST	200	Foundations of American Cultural Studies
COMM	322	Intercultural Communication
COMM	340	Rhetorical Dimensions of Race, Class, and Gender
ECON	211	Current Economic Issues
ECON	337	Economics of the Public Sector
ECON	339	Labor Economics
ECON	345	Economics of Development and Growth
ENTR	390	Diversity Issues in Entrepreneurship
ENVR	151	Humans and the Environment
ENVR	212	Social Dynamics and the Environment
GEOG	111	Human Geography
GEOG	113	World Geography
HIST	210	Modern Latin America, 1800 to the Present
HIST	368	Women in the United States
HIST	369	African American History
HIST	371	History of U.S. Foreign Policy
HIST	372	The United States and Vietnam
IDSC	467	City Arts: Field Seminar (HECUA)
IDSC	472	MUST Seminar: Field Studies in the Twin Cities (HECUA)
JOUR	305	Gender, Race and Mass Media
JOUR	402	Society, Culture and the Media
JOUR	404	Media Structure and Power
JPST	360	A Vision of ...
POL	225	Introduction to World Politics
POL	301	American Political Behavior
POL	302	Women and Politics
POL	314	Constitutional Rights and Liberties
POL	326	International Law and Organizations
POL	350	Comparative Politics of the New Europe
POL	352	Third World Politics and Government
PSY	121	Social Psychology
PSY	151	Cross Cultural Psychology
SOC	110	Social Problems
SOC	200	Introduction to Criminal Justice
SOC	251	Race and Ethnicity
SOC	255	Gender in American Society
SOC	301	General Anthropology
SOC	351	Immigration, Fear and Hate
SOC	365	Social Psychology
SOWK	340	Human Behavior and the Social Environment

College of Arts and Sciences – Interdisciplinary Programs

Plus four additional credits in normative analysis

Appropriate courses include:

BLAW	303	International Business Law
BLAW	351	Environmental Law
BLAW	352	Gender Issues and the Law
BUS	201	Ethics and Practice: Foundations of Business
CATH	312	Catholic Social Thought
COMM	240	Persuasion
COMM	250	Argumentation and Advocacy
ENGL	217	Multicultural Literature
ENGL	218	Literature by Women: Critical History
ENGL	337	The Literature of Human Diversity
ENGL	341	Literature by Women: Critical Questions
ENVR	301	Environmental Ethics
IDSC	291	The Anatomy of Violence
IDSC	467	City Arts: Reading Seminar (HECUA)
IDSC	471	MUST Seminar: Research on Urban Issues (HECUA)
MUSC	222	The Theology of American Popular Music
PHIL	350	Advanced Ethical Theory
PHIL	353	Machiavelli, Hobbes, and Nietzsche
PHIL	357	Political Philosophy
POL	275	Introduction to Political Thought
POL	375	American Political Thought
THEO	306	Christian Faith and the Management Professions
THEO	325	The Catholic Social Traditions
THEO	334	Islam
THEO	337	Evil and the Suffering of God
THEO	361	Black Religious Experience
THEO	365	Prophetic Literature of the Old Testament
THEO	386	Topics in Systematic Theology (i.e., Church in Latin America; Catholic Worker Movement)
		<i>Note: Topic must be approved by the JPST director.</i>
WMST	205	Foundations in Women's Studies

Plus a non-credit internship and seminar in the area of justice and peace studies:

JPST 473 Vocational Internship Seminar (0 credit)

Students are required to take this seminar during the semester they are doing an internship. At the core of this mini course is a reflective process designed to lead students to: a deeper understanding of the practical means of working for social change; an evaluation of their internship experience (both in terms of gaining a deeper understanding of their own vocation and a better understanding of the type of institutions they are working with); and applying these insights to future course work and career planning. Three 2-hour seminars, at the beginning, middle and end of the semester, provide opportunities for those engaged in individual placements to get peer support for their discernment process.

The internships themselves involve 7-10 hours a week of justice and peace work. Acceptable placements include work with a nonprofit or governmental group doing direct service; education for peace and justice; political action for peace and justice; and leadership positions in UST's Student Coalition for Social Justice (SCSJ). There is no objection to using an appropriate internship from another major (such as social work) to fulfill this requirement as long as the student is enrolled in JPST 473 during the semester of the internship.

Alternatively, the internship and seminar requirement may be fulfilled by participating in appropriate off-campus academic programs which have reflective internship components, such as the programs of HECUA and Augsburg's Center for Global Education. Students may get credit for doing further research on, and analysis of, their internship experience by enrolling in 475-478 Experiential Learning.

Plus:

Additional courses to be selected with the approval of the program director, to bring the total number of credits to 40 (36 for a double major). These courses may deal with any part of the circle of praxis. Students seeking further opportunities to learn the theories behind, or honing of, skills for action might consider:

JOUR	311	Persuasion in Writing
ENTR	360	Creativity and Change
ENVR	351	Environmental Policy Formation
SOWK	391	Social Policy for Social Change

Students majoring *only* in Justice and Peace Studies are strongly encouraged to take a "methods" course from a department that uses approaches relevant to the way they are choosing to complete the JPST major. The purpose of this recommendation is to strengthen abilities in data interpretation, manipulation and generation.

Possibilities include:

GEOG	221	Computer Skills in Geography
POL	205	Introduction to American Public Policy Process
SOC	210	Research methods in Sociology

Minor in Justice and Peace Studies

JPST	250	Introduction to Justice and Peace Studies
THEO	305	Theologies of Justice and Peace

Plus:

Twelve additional credits to be selected with the approval of the program director. At least eight of these credits must be outside the student's major department. Any of the courses listed for the major may be applied to the minor.

250 Introduction to Justice and Peace Studies

Major aspects of world and local conflict, theories of social science relating to conflict and violence, and various proposals for solutions. Among the aspects of conflict studied are cultural differences, scarcity of resources, economic and social structures, international trade, the arms race, corruption, oppression and war. Proposed solutions assessed include development, structural changes, world governance, multinational agencies, military power, civilian-based defense, active nonviolence for social change, conflict resolution, disarmament, cultural exchange, religious revival and prayer. These topics are considered in the light of theory, history, and literature. Students apply these concepts by investigating one country or geographic area in depth through a semester-long research project. Usually offered every semester. This course fulfills the Human Diversity requirement in the core curriculum.

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

340 Active Nonviolence

Active nonviolence as a means for societal defense and social transformation analyzed through case studies of actual nonviolent movements, examining their political philosophy and how this philosophy is reflected in their methods and strategies. Examples of possible case studies include: Mahatma Gandhi's movement for a free India, the struggle for interracial justice in the United State (the 1961 freedom rides to Mississippi, an integrated Canada-to-Cuba peace-and-freedom walk), the Minnesota farmers' power-line struggle, and the Honeywell Project. The course emphasizes both the development of conceptual understanding and the transformation of personal experience.

360 A Vision of ... (end of title to reflect changing topic)

In-depth analysis of one "peoples' movement" (e.g., U.S. Civil Rights Movement, American Indian Movement, Labor Movement). Examines the history of the movement, its key concepts, protagonists, heroes, successes and failures. The movement's strategies and methods are examined in light of the larger literature on effective methods of social change. In addition to academic study and classroom discussion, the course includes a service-learning component (often a trip during spring break) to key sites associated with the movement. The service-learning component follows the VISION philosophy. The final weeks of the course connect the historical movement to contemporary local issues. This is done through immersion, guest speakers and presentations by students of their individual research projects. Usually offered in spring semester.

470 Conflict Resolution

An introduction to issues surrounding conflict and the resolution of conflict in today's world focusing primarily on its contextual manifestation at the international, regional and intrastate levels. The course will explore important structural, social and psychological explanations of conflict. Attention will be given to ethnic and nationalist themes surrounding conflicts and their resolution at the intrastate and international levels. The course will examine how different types of intervention affect conflicts (the media, force, other types of third party intervention). Effective methods that foster an environment conducive to resolving or managing disputes will be studied. As part of this final task, the course will critically study how institutions such as power-sharing arrangements, federalism, and the rule of law figure into establishing a lasting basis for peaceful co-existence. Usually offered spring semester.

Note: Active nonviolence and conflict resolution focus on different stages of conflict. Active nonviolence is a sanction employed when conflict resolution has broken down; it is designed to move the parties toward conflict resolution. Active nonviolence also is employed when one or more of the parties to a conflict believe that conflict resolution is maintaining an unjust situation *i.e.*, peace without justice.

College of Arts and Sciences – Interdisciplinary Programs

472 Justice and Peace Senior Seminar

This seminar brings together what students have learned throughout their justice and peace studies, activities, internships and service projects and applies it to a project of their own choice negotiated with the professor through a learning contract. In carrying out that project, students will pay attention to the four steps of the circle of praxis. Results of the project are shared with the other members of the seminar. In addition, common topics studied include basic statistics needed to understand, judge, and use statistics responsibly; writings of key theoreticians in justice and peace studies; and an introduction to a broad range of organizations working for the relief of suffering and for structural and social change. Usually offered spring semester.

473 Vocational Internship Seminar

0 credit

Students are required to take this seminar during the semester they are doing an internship of 7-10 hrs/wk. The seminar meets three times (at the beginning, middle, and end of the semester), to provide opportunities for those engaged in individual placements to get peer support for their discernment process. At its core is a reflective process designed to lead students to: a deeper understanding of the practical means of working for social change; an evaluation of their internship experience (both in terms of gaining a deeper understanding of their own vocation and a better understanding of the type of institutions they are working with); and applying these insights to future course work and career planning.

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Legal Studies

Hatting (POL), acting director

The minor in legal studies enables students to undertake a multidisciplinary examination of the relationship of law to culture and society. Understanding the foundations and nature of law and legal process is an integral element of a liberal arts education. Several departments within the university offer courses that examine the sociological, political, philosophical, journalistic, historical, economic and business aspects of legal behavior and legal systems.

By drawing on those courses, the legal studies minor exposes students to a variety of perspectives on the study of law and provides a broad understanding of the role of law in society.

The legal studies minor is not intended as a pre-law program, although it may prove especially attractive to students interested in careers in law, public administration or related professions. Its objective is to allow students to undertake an examination of law and legal process within a liberal arts context.

Minor in Legal Studies

Twenty credits from the following list, or other courses selected with the approval of the program director. To ensure an interdisciplinary base of study, no more than eight credits may come from any one department.

BLAW 301 Legal Environment of Business

BLAW 302 Business Law for Accounting

BLAW 303 International Business Law

BLAW 304 Real Estate Law

BLAW 351 Environmental Law

BLAW 352 Gender Issues and the Law

BLAW 401 Legal Research, Advocacy, and Dispute Resolution

BLAW 402 Law of Electronic Commerce

ECON 321 Law and Economics

HIST 326 English Law and Government before the American Revolution

HIST 365 U.S. Constitutional History

IDSC 340 Criminal Law and the Social Order

JOUR	304	Media Law
PHIL	357	Political Philosophy
PHIL	359	Philosophy of Law
POL	312	Judicial Process
POL	313	Constitutional Law and Politics
POL	314	Constitutional Rights and Liberties
POL	326	International Law and Organizations
POL	414	Seminar in Law and Judicial Politics
THEO	397	Topics courses that involve a legal aspect (consult Legal Studies adviser)

Literary Studies

Mikolajczak (ENGL) and Sauter (acting chair, M&CL), directors

Students wishing an excellent preparation for the many occupations in which the ability to use language effectively is absolutely essential may be interested in the following major, which is not basically career-oriented.

The primary aims of the major in literary studies are to extend to highly motivated students the opportunity:

1. To deepen their mastery of two languages
2. To provide them with double evidence that literature, as the highest form of language art, is based on the skillful use of adequately developed languages in the creation of an esthetic world of the human spirit
3. To enable them to experience firsthand that much is lost in the translation of a great literary work
4. To help them appreciate more deeply that literature transcends national and cultural boundaries.

Major in Literary Studies

Prerequisite:

At least three high school years of a second language, accepted for this major by the Department of Modern and Classical Languages. Either 212 in that language, or its equivalent, must also be taken.

Option I (administered by the Department of Modern and Classical Languages):

Twenty credits in courses numbered 300 or higher in the literature of a non-English language, chosen in consultation with the chair of the Department of Modern and Classical Languages

Plus:

Sixteen credits in courses numbered 300 or higher in English literature, chosen in consultation with the chair of the Department of English

Option II (administered by the Department of English):

Twenty credits in courses numbered 300 or higher in English literature, chosen in consultation with the chair of the Department of English

Plus:

Sixteen credits in courses numbered 300 or higher in the literature of a non-English language, chosen in consultation with the chair of the Department of Modern and Classical Languages

Plus:

(required under both options)

Four credits in European history

Recommended:

An additional four credits in European history, four credits in aesthetics, and courses in a third language, preferably a classical language if the second language is modern

Courses such as phonetics, conversation, composition and civilization (if not based on literature) will not count as courses in literature.

Middle East Studies (ACTC)

Nice (Center for Faculty Development), coordinator and UST campus representative

The Middle East Studies Program through the Associated Colleges of the Twin Cities (ACTC) offers an interdisciplinary minor focusing on the Middle East. The term "Middle East" includes the geographic regions of southwest Asia and north Africa, extending from Turkey to the Sudan and from Afghanistan to Morocco. The minor in Middle East Studies considers the following concepts:

1. the Middle East has global significance and is vital to the national interests of many countries, including the United States;
2. increasing numbers of Americans have some Middle Eastern ethnic or religious background;
3. the region offers numerous opportunities for business and the professions;
4. it is the birthplace of several of the world's major civilizations.

The minor in Middle East Studies enables students to bring together several courses in different disciplines to constitute a program of area study. This area specialization offers students the opportunity to learn about the

College of Arts and Sciences – Interdisciplinary Programs

religions, economic situation, historical and political developments, literature, philosophy and culture of Middle Eastern peoples and countries. Such an interdisciplinary approach permits students to apply the theory and methodology of several disciplines to a common subject matter and allows a greater mastery of the Middle East area than could normally be attained through strictly disciplinary majors or minors.

A Middle East studies minor provides valuable preparation for careers in government service, research, non-governmental organizations, journalism, education, and consulting in international business. Acquiring some Middle East expertise will make ACTC students more credible candidates for internships with organizations related to the Middle East. The availability of the minor would support honors research programs at the ACTC colleges.

The minor is offered by combining courses already in place at the ACTC institutions. Courses with a focus on the Middle East are being offered regularly in political science (with historical components), sociology, women's studies and theology. In addition, students may enroll in Arabic language classes through the ACTC language contract with the University of Minnesota. Elementary and intermediate Hebrew are offered at Macalester College.

Minor in Middle East Studies

POL 3580H Politics and Society in the Middle East

Plus twenty credits in area courses

2 courses selected from the social sciences

2 courses selected from the humanities

1 elective chosen from either area

Plus language courses

Students may substitute two courses in a Middle East language for two of the five area studies courses above. Some acquaintance and experience with the Arabic and/or Hebrew languages is highly desirable, particularly for students combining the Middle East studies minor with a major in business, journalism, or political science. A program of study abroad or an internship in the Middle East is recommended strongly and will receive credit toward the minor. All options should be discussed with the student's advisor.

The following courses have been approved with the understanding that their content is focused on the Middle East. Locations:

- A Augsburg College
- C College of St. Catherine
- H Hamline University
- M Macalester College
- T University of St. Thomas

Language Courses

CLAS 50M-01 Elementary Hebrew I

CLAS 50M-03 Elementary Hebrew II

CLAS 50M-07 Intermediate Hebrew I

CLAS 50M-09 Intermediate Hebrew II

Required Foundational Course

POL 3580H Politics and Society in the Middle East

Social Sciences Courses (Student must select at least two courses from this group):

POL 268-468A Regional Political Dynamics in the Middle East

POL 459A Politics and Society in the Middle East Today

POL 335C Nationalism, War and Revolution in the Middle East

SOCI 35M Images of Women in the Middle East

CORE 399C Search for Justice in the Middle East

Humanities Courses (Students must select at least two courses from this group):

ENG 270T Romance and Resistance: 20th Century Arabic Writers

HIS 63M Jewish History

Note: The four courses listed below (INS 225, REL 33, REL 1980, and THEO 334 are considered to be equivalent in content. Students may receive credit for only one.

INS 225A Introduction to Islam

REL 33M Islam

REL 1980H Islam and the New World Order

THEO 334T Islam

Note: The three courses listed below (REL 475, REL 1460, and THEO 332) are considered to be equivalent in content. Students may receive credit for only one.

REL	475A	Judaism
REL	1460H	Introduction to Judaism
THEO	332T	Judaism
REL	3110H	Jewish Ethics
REL	34M	Introduction to Jewish Life and Thought
REL	42M	Women in Judaism
REL	50M	Topics: The Evolution of the Jewish Mind
THEO	333T	Contemporary Judaism
THEO	370C	Jewish Studies

Internships and Study Abroad

Internships and opportunities for study abroad are available and are accepted for credit toward the minor. No more than one course may be an independent study or internship. Study abroad, internships and independent study are subject to the approval of the student's campus advisor for the minor.

Renaissance Program

MacKenzie (ENGL), director

The Renaissance Program is an interdisciplinary minor which provides students the opportunity to combine the distinct learning experiences of a concentration in a liberal or non-business related field with exposure to career-related studies and significant work experience. It is designed for students majoring in the liberal arts who want preparation for their career search.

Students who minor in the Renaissance Program elect a major field of study from any of the liberal arts disciplines – that is, from the humanities, social sciences, natural sciences and the like. Students who major in any of the Business fields or in Health and Human Performance are not eligible for the program.

The program's requirements consist of coursework and an internship. Students choose a set of six courses (detailed below) from a broad range of pre-professional and professional areas. Students also complete an internship in a career-related field. A variety of options and opportunities are available through the Career Center; students are encouraged to be creative and to search for inventive ways of implementing a plan of practical work experience.

As part of its commitment to Renaissance Program students, the University of St. Thomas extends to graduates of the program the opportunity to take undergraduate business courses tuition-free, on a space-available basis. There is no limit on the number of such courses the student may take. Students may take these courses either for credit or as audits, but may not use the courses toward a major or minor in business.

Application for admission is made through the Renaissance Program director's office, currently in the Department of English. Application should normally take place during the second semester of the sophomore year, but may occur later.

Renaissance Program Professional Minor

One of:

ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics

Note: Other courses from the Department of Economics may be acceptable if the necessary prerequisites have been met, and on the approval of the director of the Renaissance Program.

Plus one of:

QMCS	110	Introduction to Information Processing
QMCS	120	Computers in Elementary Education and LOGO
QMCS	220	Statistics I
QMCS	230	Software Design Using the JAVA Language
QMCS	238	Software Design Using Business Languages

Note: Other courses from the Department of QMCS may be acceptable if the necessary prerequisites have been met, and on the approval of the director of the Renaissance Program.

Plus a total of twelve credits in:

ACCT	205	Introduction to Accounting
BLAW	301	Legal Environment of Business
BUS	201	Ethics and Practice: Foundations of Business
FINC	300	Finance for Non-Business Majors
MGMT	300	Management for Non-Majors
MKTG	300	Principles of Marketing

Note: Other courses from the College of Business may be acceptable if the necessary prerequisites have been met, and on the approval of the director of the Renaissance Program.

College of Arts and Sciences – Interdisciplinary Programs

Plus:

IDSC 330 Renaissance Program Internship (0 credit)

IDSC 333 Renaissance Program Studies

Note: Another course that integrates themes involving the relation between the liberal arts and the world of work may be acceptable provided the necessary prerequisites have been met, and on the approval of the director of the Renaissance Program.

Russian, Central and East European Studies

Shambour (RUSS), adviser

The ACTC program in Russian, Central and East European Studies seeks to give the broadest possible exposure to the history, politics, literature and philosophy of central and eastern Europe and Russia. This interdisciplinary major offers the student an opportunity to become well-acquainted at the undergraduate level with the rich literary and cultural achievements of the area. The student also acquires fluency and experience with the Russian language, or (through the ACTC language contract with the University of Minnesota) with one of the eastern European languages.

While the collapse of the Soviet Union and its eastern European sphere of influence has eliminated the perceived threat of a world communist movement, the human talent, residual military power and resources of the area guarantee that it will continue to play an important role in global affairs.

Drawing upon the faculty and resources of the five ACTC institutions, courses are offered at Augsburg College, Hamline University, Macalester College, The College of St. Catherine and the University of St. Thomas.

In choosing any major, future career options are an important consideration. This is a sound liberal arts major that offers considerable flexibility and career opportunities, especially when combined with another major or minor in business, economics, history, language and literature, or political science. As this area of the world undergoes transition from Russian socialist dominance to democratic market-oriented societies, the major will offer fascinating career opportunities in government, international business and journalism, as well as in teaching and research. Students who plan to do graduate work in a related discipline, such as history, economics or political science will find the major a strong background for such study. Students are urged to seek career counseling from their adviser in the major.

Major in Russian, Central and East European Studies

Forty-four credits, including language and area studies courses:

Language:

Two years of basic college Russian, Polish, Serbo-Croatian, Czech, Hungarian or equivalent competencies

Area studies:

Concentration in Humanities

Sixteen credits from the list of approved courses in Track #1, plus four credits from Track #2, as approved by adviser

Concentration in Social Sciences

Sixteen credits from the list of approved courses in Track #2, plus four credits from Track #1, as approved by adviser

Plus:

Eight additional credits in courses selected from either Track #1 or Track #2

Note: Students are strongly recommended to take a third year of Russian or any other east European language. A program of study abroad in Russia or one of the central or east European countries, during a semester, a January term, or during the summer, is strongly encouraged. All options should be discussed with the student's adviser.

Courses available for this program

Letter following the course number indicates the institution offering the course:

A Augsburg College

C College of St. Catherine

H Hamline University

M Macalester College

T University of St. Thomas

Language courses

RUSS 111T Elementary Russian I

RUSS 112T Elementary Russian II

RUSS 211T Intermediate Russian I

RUSS 212T Intermediate Russian II

RUSS 31M Advanced Russian I

RUSS 32M Advanced Russian II

RUSS 33M Advanced Russian Conversation

Russian, Central and East European Studies – Social Sciences

Note: Overlapping courses are shown in parentheses

Track #1: Humanities concentration

HIST	348A	Russia and Soviet Union in 20th Century (HIST 3730H, HIST 333T)
HIST	3370H	Modern Russia from the Empire to Revolution (HIST 60M)
HIST	3710H	The Rise and Fall of the Soviet Union
HIST	3730H	Heart of Europe: Central and Eastern Europe in 20th Century (HIST 348A, HIST 333T)
HIST	55M	History and Philosophy of Socialism
HIST	60M	State and Society in Tsarist Russia (HIST 3370H)
HIST	62M	History of the Soviet Union and Its Successors
HIST	313T	Europe 1750 to 1945
HIST	331T	Eastern Europe, 1699-1914
HIST	333T	Eastern Europe, 1914 to Present (HIST 348A, HIST 3730H)
HIST	464T	Seminar in European History

Russian literature

RUSS	51M	19th Century Literature in Translation
RUSS	52M	20th Century Literature and Culture in Translation
RUSS	63M	Orientalism and Empire: Russia's Literary South
RUSS	67M	Dostoevsky and Gogol

Advanced language

RUSS	41AM	Russia in Russian—Speaking/Listening
RUSS	41BM	Russia in Russian—Reading/Writing
RUSS	88M	Senior Seminar (taught in Russian - Humanities track only)

Culture

RCEE	88M	Senior Seminar
RUSS	50-01M	Topics (subject matter will vary)
RUSS	55M	Russian Culture
RUSS	56M	Soviet Mass Culture
RUSS	64M	Culture and Revolution

Human Rights

IS	50M	Topics: Human Rights
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Theology

REL	420A	The Russian Orthodox Church
REL	66M	The Russian Religious Experience

Track #2: Social sciences concentration

ECO	317A	Comparative Economic Systems (ECON 25M, ECON 349T)
ECO	495A	Topics
ECON	25M	Comparative Economic Systems (ECO 317A, ECON 349T)
ECON	35M	Economics of the Transition
ECON	346T	Topics: Country and Area Studies in Economics
ECON	349T	Comparative Economic Systems (ECO 317A, ECON 25M)
POL	351A	Topics in Communist/Post-Communist Systems
POL	363A	Russian and Chinese Foreign Policy
POSC	220C	Introduction to Comparative Government
POSC	225C	Introduction to World Politics
POL	3620H	Government and Politics of Eastern and Central Europe
POL	350T	Comparative Politics of the New Europe
POL	424T	Seminar in International Politics
POL	454T	Seminar in Comparative Politics

Business/Management

BUS	364A	East-West Trade
BADM	350C	International Marketing and Management

Social Sciences

Langan (ECON), Wright (HIST), Farlow (POL), Karraker (SOC), advisers

The major in the social sciences is intended for the liberal arts student who wishes to become familiar with the perspective of the four disciplines traditionally defined as the social sciences – economics, history, political science, and sociology – and who wishes at the same time to study more intensively one of those disciplines. In requiring both introductory and advanced courses in each of the disciplines, irrespective of the area of concentration, the major provides both opportunity and challenge for the student seriously interested in understanding the order, structure and interrelationships involved in human behavior.

College of Arts and Sciences – Interdisciplinary Programs

Major in Social Sciences

Either:

HIST 111 Origins of the Modern World to 1550 and 112 The Modern World Since 1550

or

HIST 113 Early America in Global Perspective and 114 The Modern U.S. in Global Perspective

Plus:

ECON 251 Principles of Macroeconomics

ECON 252 Principles of Microeconomics

ECON One additional course in economics numbered above 300

HIST One additional history course numbered above 300

POL 105 Politics and Government in Comparative Perspective

POL Two additional political science courses

SOC 100 Introduction to Sociology

SOC 210 Research Methods in Sociology

SOC One additional sociology course numbered above 300

Plus:

Twelve additional credits in courses numbered above 300 from one of the following departments: Economics, History, Political Science, or Sociology. The choice of these courses is subject to the approval of the department involved.

Plus one of:

MATH 101 Finite Mathematics

MATH 111 Calculus for Business and Social Science

MATH 113 Calculus I

QMCS 220 Statistics I

Urban Studies

Hoffman (POL), director

Urban Studies is an interdisciplinary field of inquiry which treats the city as responsible for the creation of unique patterns of social and physical organizations. The minor provides students with an opportunity to study the “urban way of life” using the insights generated by the traditional social science disciplines. By exposing themselves to such variety, students obtain a more comprehensive and integrated view of the city than is possible within a single discipline. The minor is recommended for those students interested in entering careers or fields of academic study relating to urban issues and problems. These include fields such as public administration, urban planning, transportation, and planning. The minor also is recommended for students with career interests in the non-profit sector as well as for those interested in private sector careers which require substantial interaction with the public sector. Students are also encouraged to participate in the HECUA (Higher Education Consortium for Urban Affairs) programs. Descriptions of the HECUA programs are located under that title in this catalog.

Minor in Urban Studies

ECON 252 Principles of Microeconomics

ECON 333 Regional and Urban Economics

HIST 377 The History of the Twin Cities

POL 303 Urban and Metropolitan Politics and Government

SOC 332 Urban Sociology

Women’s Studies (WMST)

Manske (BIOL), director

The Associated Colleges of the Twin Cities (ACTC) offer a cooperative major in Women’s Studies. Women’s Studies is an interdisciplinary program which takes gender as its critical term of inquiry, exploring it as a social construct and analyzing its impact on traditional disciplines. As an interdisciplinary major and minor, Women’s Studies spans the curriculum, incorporating many disciplines in a diverse and stimulating package of courses. Courses consider historical and contemporary contexts from multicultural and multiracial perspectives, and focus on the intersections of race, class, gender, ethnicity, sexuality, religion, and culture.

Students in the program learn how to analyze social forces and assumptions that have shaped women’s lives on individual, national, and global levels. This flexible program of study combines theoretical, practical and research components and provides preparation for both advanced study and professional work, for example, in organizations focusing on women, in human relations departments of corporations, and in health or legal professions.

Major in Women’s Studies

205 Foundations in Women’s Studies

327 Feminist Theory

480 Women’s Studies Seminar

Plus:

One Internship course (designated as Individual Study)

At least eight credits in Humanities

At least eight credits in the Social Sciences and Natural Sciences

Four credits in Multicultural or Ethnic Studies

Four elective credits chosen from the Humanities and/or the Social Sciences and Natural Sciences

Note: At least twelve credits in Humanities, Social/Natural Sciences, and Multicultural Studies must be at the 300- or 400-level.

Minor in Women’s Studies

205 Foundations in Women’s Studies

Plus:

Eight credits in Humanities

Eight credits in Social Sciences and Natural Sciences

Recommended:

480 Women’s Studies Seminar

Note: The seminar can count as one of the humanities, social science, or natural science courses.

Transfer students:

Students who transfer to St. Thomas and wish to complete a major or minor in Women’s Studies are urged to consult with the director of Women’s Studies immediately upon transfer.

The Women’s Studies Program has an articulation agreement with Century College that governs Century College students with a Women’s Studies certificate who transfer to St. Thomas. Transfers from other colleges and universities must consult with the director of Women’s Studies for approval of course for the major or minor.

205 Foundations in Women’s Studies

This multi-disciplinary course is designed to raise awareness of women’s status and women’s diversity; to critically examine disciplines and social practices through the lens of feminist theory; to recover past achievements of women and survey the work that women do now; to expand perspectives; and to provide a basis for critical evaluation of future learning. Available each semester on at least one consortial campus, usually offered at UST Spring semester. This course fulfills the Human Diversity requirement in the core curriculum.

295, 296 Topics 2 credits
 297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

327 Feminist Theory

This interdisciplinary feminist theory course is designed as a mid-level course to serve as a bridge between the Foundations in Women’s Studies course and the Senior Seminar. The content of the course will focus on theorizing around multiple differences of gender, race, ethnicity, class, and sexuality. As an interdisciplinary course, it provides an overview of historical and ideological trends in feminist thought around these differences. The focus may vary, and may include feminist theories from the fine arts, history, literary studies, philosophy, psychology, the sciences, and sociology.

475, 476 Experiential Learning 2 credits
 477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

480 Women’s Studies Seminar

This advanced capstone course for the Women’s Studies major is a multi-disciplinary seminar usually taken during the student’s senior year. The course will include student research and presentations that incorporate feminist theory. It will rotate among the different campuses of the ACTC.

Prerequisite: 205

483, 484 Seminar 2 credits
 485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics 2 credits
 489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research 2 credits
 493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

College of Arts and Sciences – Interdisciplinary Programs

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

Courses available for this program

Letter following the course number indicates the institution offering the course:

- A Augsburg College
- C College of St. Catherine
- H Hamline University
- T University of St. Thomas

Note: Courses having a potential for duplication of material are marked with an asterisk (*). Students should consult with the director of the program to avoid duplicating courses. Credit will not be given toward the major for two courses that overlap substantially in content. Students cannot satisfy more than one distribution requirement within the program with any given course.

Topics courses in any of these categories may be selected with the approval the program director.

Humanities Courses

ART	352A*	Women and Art
ENG	282A*	Women and Fiction
REL	441A*	Feminism and Christianity
SPC	414A*	Feminist Rhetoric
ENG	290A*	Women and Literature
HIS	356C*	Women in America
PHIL	320C*	Business Ethics
PHIL	390C*	Feminist Philosophy
SPCM	207C*	Gender and Rhetoric
SPCM	211C*	Leadership Communication
THR	299C	Women and Film
THEO	338C*	Women and the Bible
THEO	385C*	Sexuality and Spirituality
THEO	390C*	Women Mystics
ENG	3570H*	Women and Literature
PHI	1200H*	Introduction to Feminist Theory
REL	3250H*	Women and Religion
ARTH	297T	Women in the Ancient World
COMM	340T*	Rhetorical Dimensions of Race, Class and Gender
ENGL	218T*	Literature by Women: Critical History
ENGL	295T	Twentieth-century Arabic Writers
ENGL	297-02T	Documenting Arab Lives
ENGL	341T*	Literature by Women: Critical Questions
THEO	353T	Women and the Old Testament
THEO	354T*	Women and the Christian Tradition
THEO	359T	Women in the Early Church

Social Science and Natural Science

INS	233A	Women: A Cross Cultural Perspective
INS	265A*	Women in American Culture
PSY	371A*	Psychology of Gender
BIO	112C*	Biology of Women
IDSC	291C*	Anatomy of Violence
PSY	315C*	Psychology of Adulthood and Aging
SOWK	270C*	Emerging Workstyles for Women
SOC	321C*	Sociology of Marriage and the Family
SOC	345C*	Sociology of Women in Society
ANT	1530H	Human Evolution
BIO	1510H*	Human Biology, A Feminine Perspective
EDUC	3750H	Herstory of Education
POL	3430H	Gender Politics
SOC	3330H	Sex Roles
SOC	3370H*	Marriage and the Family
BLAW	352T	Gender Issues and the Law
HIST	368T*	Women in the United States
IDSC	291T*	The Anatomy of Violence
IDSC	312T	Gender and Science
JOUR	305T	Gender, Race and Mass Media
PSY	205T*	Psychology of Women

SOC 255T* Gender in American Society
SOC 304T Adolescence in Society
SOC 321T* Marriage and the Family

Multicultural or Ethnic Studies

INS 231A Religion in African-American History
INS 232A Blacks in America: An Introduction to African-American Studies
INS 233A Women: A Cross Cultural Perspective
INS 260A* Contemporary American Indians
INS 320A American Indian Women
SOC 325C* Cultural Anthropology
SPCM 210C* Intercultural Communication
ANT 3330H* North American Indians
SOC 3350H* Sociology of Race and Ethnicity
ARTH 285T Arts of Africa and the African Diaspora
ARTH 289T Asian Art
COMM 230T* Intercultural Communication
MUSC 216T Jazz in America
SOC 251T* Race and Ethnicity
SOC 301T* General Anthropology



College of Business

College of Business

Fisher, director, undergraduate business programs

The programs in Business Administration offer the opportunity to acquire an excellent understanding of the processes, organizations, and decision-making inherent in today's business environment. Students begin by building a foundation of basic knowledge and skills with courses in economics, statistics, mathematics and communication. They then take a series of core courses that span the functional areas of business. These areas include accounting, entrepreneurship, finance, legal studies in business, management, and marketing. These courses form a foundation upon which students can build a greater knowledge in several different concentrations. These concentrations are listed below. Students who wish to combine a major in business administration with extensive work in another area (economics, music, foreign language, or computer science for example), may consider a general business concentration with either a major or minor in another field. There is a plan of study for students interested in both a B.A. in Business Administration and a B.S. in Mechanical Engineering. See the Department of Engineering section of this catalog for the curriculum or contact the College of Business for further information.

The emphasis of St. Thomas business programs is on combining a thorough academic preparation with realistic practical experience. Significant numbers of students participate in consulting projects developed through the Small Business Institute. Many students also take advantage of internships and other opportunities to work with businesses in the Twin Cities during their time at St. Thomas.

The faculty in the College of Business combine excellent academic credentials with a wealth of practical experience in industry.

It is expected that students majoring in Business Administration will take their business courses at St. Thomas. Students must have prior approval before registering for a business course at another school. All students who major in Business Administration must take a minimum of 24 credits in College of Business courses at the University of St. Thomas; at least 16 of these 24 credits must be from courses in the department of the student's major concentration.

All College of Business courses taken by Business Administration majors and minors must be taken for a letter grade. These courses may not be taken on a pass/fail basis.

Credits for College of Business courses taken more than eight years ago (or more than five years ago for credits in a major concentration) will be accepted but will not fulfill current requirements.

Major in Business Administration (B.A.)

One of the business concentrations of:

- Accounting – *see description under Department of Accounting*
- Business Communication – *see description under Department of Management*
- Entrepreneurship – *see description under Department of Entrepreneurship*
- Finance – *see description under Department of Finance*
- General Business
- Human Resource Management – *see description under Department of Management*
- International Business
- Leadership and Management – *see description under Department of Management*
- Legal Studies – *see description under Department of Legal Studies in Business*
- Marketing – *see description under Department of Marketing*
- Operations Management – *see description under Department of Management*
- Real Estate Studies (B.S.) – *see description under Department of Finance*

Concentration in General Business Management

The General Business Management program consists of the core courses that all students majoring in business at the University of St. Thomas are required to take, regardless of their specialization. This program contains courses that will give the student an understanding of business fundamentals without emphasizing a particular area, such as accounting or marketing. With this concentration, the student will be described as a generalist, with a broad business base. Because fewer courses are required in this concentration, there is more room for elective courses. These elective courses may be taken in one department, giving a strong secondary academic concentration or a minor, or they can be related courses from different departments (*e.g.*, management marketing, finance). *Note:* a minimum of 84 credits outside the College of Business are required for graduation.

Job titles of recent graduates with a General Business concentration include business analyst, business consultant, account executive, service consultant, commodity manager, account analyst, customer service representative, merchandise coordinator, and marketing assistant.

Business Core Courses

ACCT	205	Introduction to Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
FINC	321	Financial Management
MGMT	301	Management of Organizations and Processes

MGMT 480 Integrative Issues of Business and Organizations
 MKTG 300 Principles of Marketing

Plus one of:

BLAW 301 Legal Environment of Business
 BLAW 302 Business Law for Accounting
 BLAW 303 International Business Law

Allied requirements

ECON 251 Principles of Macroeconomics
 ECON 252 Principles of Microeconomics
 QMCS 220 Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

MATH 101 Finite Mathematics
 MATH 109 Calculus with Review II
 MATH 111 Calculus for Business and Social Science
 MATH 113 Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus one of:

COMM 100 Public Speaking
 COMM 105 Communication in the Workplace
 COMM 322 Intercultural Communication
 ENGL 200 or above
 JOUR 215 Journalistic Writing in the Workplace
 JOUR 311 Persuasion in Writing

Concentration in International Business

International Business is an interdisciplinary major concentration dedicated to gaining an understanding of how to conduct business in foreign countries. To gain such an understanding requires study in courses taken in disciplines such as communication, economics and foreign language as well as business. An underlying assumption is that the student must first develop an understanding of the domestic business core before knowledge of the international sector is developed.

Of particular importance to this concentration is an understanding of a second language. International Business students must spend at least one semester abroad in a country where the language matches the student's language emphasis. All coursework taken abroad must be in the language of the host country. Students who are not U.S. citizens may count their time at St. Thomas as their study abroad experience.

Specific courses taken in a foreign university may substitute for St. Thomas requirements. See the director of Student Services to discuss those possibilities.

Business Core Courses

ACCT 205 Introduction to Accounting
 BLAW 303 International Business Law
 BUS 200 Community Service (0 credit)
 BUS 201 Ethics and Practice: Foundations of Business
 FINC 321 Financial Management
 MGMT 301 Management of Organizations and Processes
 MKTG 300 Principles of Marketing

Concentration Courses

MGMT 430 International Management
 MGMT 480 Integrative Issues of Business and Organizations
 MKTG 330 International Marketing

Plus:

Two courses (minimum of six credits) in international business courses taken abroad with the approval of the student's business adviser. The course content must address transnational business issues in accounting, finance, or international political science. (Three of the following core courses must be completed before taking IBUS courses: ACCT 205, FINC 321, MKTG 300, MGMT 301, BLAW 303.) These courses will transfer to St. Thomas as two of the following:

IBUS 450 Transnational Business Issues in Management, Marketing, or Business Law
 IBUS 460 Transnational Business Issues in Finance or Accounting
 IBUS 470 Transnational Issues in International Business

College of Business

Allied requirements

COMM 322	Intercultural Communication
ECON 251	Principles of Macroeconomics
ECON 252	Principles of Microeconomics
ECON 348	International Economics
QMCS 220	Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus three semesters of foreign language beyond 211

Note: Students for whom English is a second language will take three semesters of ENGL numbered 200 or higher.

Plus one of:

MATH 101	Finite Mathematics
MATH 109	Calculus with Review II
MATH 111	Calculus for Business and Social Science
MATH 113	Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Recommended:

If the student has available electives, ECON 346, POL 105, or a country-specific GEOG course is strongly recommended.

Minor in Business Administration

BUS 200	Community Service (0 credit)
BUS 201	Ethics and Practice: Foundations of Business

Plus one of:

ECON 251	Macroeconomics
ECON 252	Microeconomics

Plus four of:

ACCT 205	Introduction to Accounting
BLAW 301	Legal Environment of Business
<i>or</i>	
BLAW 302	Business Law for Accounting
<i>or</i>	
BLAW 303	International Business Law
ENTR 300	Entrepreneurship for Non-Majors
FINC 300	Finance for Non-Business Majors
MGMT 300	Management for Non-Business Majors
MKTG 300	Principles of Marketing

Note: Students must complete a minimum of 12 credits in Business Administration beyond BUS 201 at St. Thomas. Coursework transferred to St. Thomas must be equivalent to St. Thomas coursework. All prerequisites for courses selected for the minor must be satisfied.

Business (BUS)

200 Community Service

0 credit

This co-curricular experience is required of all undergraduate students in the College of Business. The course enacts the Statement of Purpose of the university to “develop morally responsible individuals who combine career competency...while fostering in the student a tradition of service to the public welfare.” The objectives include: 1) providing students the opportunity to witness the inter-connection of healthy, vital communities and healthy, vital businesses; 2) experiencing the business dynamics of non-profit organizations; 3) providing direct service to a non-profit while meeting individually established personal learning objectives; and 4) stretching beyond their current comfort zones.

Students begin their involvement with BUS 200 by attending an Opening Learning Seminar (OLS), the schedule of which can be obtained from the undergraduate business office, or by e-mailing BUS200@stthomas.edu. During the OLS students will receive information about registering for the course which is done only *after* attending an OLS, the requirements for completing the course, and how to secure a service site.

This course is graded S/R. Students are encouraged to complete BUS 200 either during the second semester of their sophomore year or the first semester of their junior year. Students can complete BUS 200 while studying abroad, or while away from campus during J-term or summer. *Note:* London Business students complete their BUS 200 course while studying in London; students considering participation in this program should wait to complete BUS 200 until that semester.

201 Ethics and Practice: Foundations of Business

An introduction to the various functions, organizational structures, social responsibilities, and ethical and professional challenges of business in current practice and in history. Students are expected to fully integrate the business concepts discussed with basic themes in business ethics. The final exam for this course will be administered at a common time to all students enrolled. This time will be announced at the beginning of each term. The common final is an integral part of this course, and is mandatory for all students.

295, 296 Topics 2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

470 Small Business Institute Project 2 credits

A Small Business Institute project course not associated with any specific discipline, which will provide an opportunity for undergraduate students of any major to transfer their classroom knowledge to a “real world” situation through the use of a professional consulting activity as outlined by SBA rules and procedures.

Prerequisites: Senior standing

475, 476 Experiential Learning 2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the “Curricula” section of this catalog.

483, 484 Seminar 2 credits

485, 486 Seminar

See the description of these courses at the beginning of the “Curricula” section of this catalog.

487, 488 Topics 2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research 2 credits

493, 494 Research

See the description of these courses at the beginning of the “Curricula” section of this catalog.

495, 496 Individual Study 2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the “Curricula” section of this catalog.

International Business (IBUS)**450 Transnational Business Issues in Management, Marketing, or Business Law**

This course is to be taken abroad. It is strongly suggested that this course be taken in the language of the country. Final determination as to the specific course and language will be decided before the course is taken in consultation with the international business adviser.

Prerequisite: Approval of international business adviser

460 Transnational Business Issues in Finance or Accounting

This course is to be taken in the country of choice. International accounting and finance practices are significantly different from those in the U.S. Therefore, the student should be extremely careful in choosing the course. Selection will be made only in consultation with the international business adviser.

Prerequisite: Approval of international business adviser

470 Transnational Issues in International Business

This course is to be taken abroad and may include an internship. Students incorporating an internship experience in this course must have prior approval from the international business adviser. If the student is working for an American company, s/he must work in a section of the company where the student’s second language is required.

Prerequisite: Approval of international business adviser

College of Business

Accounting (ACCT)

Sathe (chair), Callander, Coglitore, Gelardi, Hagg, Matson, Polejewski, J. Raffield, Saly, Shapiro, Stoffel

The University of St. Thomas accounting program meets the current education requirements set by the Minnesota Board of Accountancy to take the Certified Public Accountant (CPA) Examination, and for CPA licensure, in Minnesota. After July 1, 2006, CPA licensure in Minnesota will require the applicant to have completed 150 semester hours of college or university education, passed the CPA Examination, and completed relevant work experience. (Most other states have similar requirements.) The University of St. Thomas offers alternatives by which students can meet the 150-hour requirement, including master's degrees (Master of Science in Accountancy or Master of Business Administration) and baccalaureate coursework. Questions should be directed to the chair of the Department of Accounting or to a department faculty member.

Concentration in Accounting

Business Core Courses

ACCT	205	Introduction to Accounting
BLAW	302	Business Law for Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
MGMT	301	Management of Organizations and Processes
MKTG	300	Principles of Marketing

Concentration Courses

ACCT	311	Intermediate Accounting I
ACCT	312	Intermediate Accounting II
ACCT	314	Business Taxation
ACCT	316	Auditing
ACCT	317	Cost Accounting
ACCT	410	Advanced Accounting

Allied requirements

ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics
QMCS	110	Introduction to Information Process and Programming
QMCS	220	Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

QMCS	419	Accounting Information Systems
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Plus one of:

MATH	101	Finite Mathematics
MATH	109	Calculus with Review II
MATH	111	Calculus for Business and Social Science
MATH	113	Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus one of:

COMM	100	Public Speaking
COMM	105	Communication in the Workplace
JOUR	215	Journalistic Writing in the Workplace

205 Introduction to Accounting

An introduction to the uses of financial and managerial accounting information. Topics include the use of cost management, budgeting, and cost-volume-profit analysis for decision-making, as well as an emphasis on reading and understanding basic financial statements.

Prerequisite: BUS 201 or concurrent registration with BUS 201 upon completion of 36 credit hours; sophomore standing

311 Intermediate Accounting I

The theory of accounting is studied as it relates to the external financial reporting requirements of profit-oriented businesses. Major subjects include review of the basic financial statements, valuation of most assets, and revenue recognition.

Prerequisite: ACCT 205

312 Intermediate Accounting II

A continuation of 311. A study is made of the remaining balance sheet accounts with special emphasis on the capital structure of corporations. In addition complex accounting matters such as tax allocation, pension applications, lease capitalization and current value accounting concepts are reviewed.

Prerequisites: ACCT 311

314 Business Taxation

A study of the principles of business taxation. This course will deal primarily with the federal tax laws as they apply to sole proprietorships, corporations, and partnerships. Additional topics will include MACRS, ACRS, property transactions, and the corporate AMT. Tax research will be integrated throughout the course.

Prerequisite: ACCT 205

315 Individual Income Tax

A study of the fundamentals of federal income tax law as it applies to individuals. Topics include: filing status, dependents, gross income, itemized deductions, tax credits, cost recovery, property transactions, and the alternative minimum tax.

Prerequisite: Junior standing

316 Auditing

Studies the basis for the auditor's report. Emphasis is on risk analysis, internal control review, audit evidence and procedures, and sampling. Case analysis is used to develop analytic and judgment skills and to enhance communication skills.

Prerequisite: ACCT 312

317 Cost Accounting

A rigorous study is made of the elements of product costs, including job, process, standard, and variable costing systems and procedures. A managerial emphasis is added through inclusion of cost-volume-profit relationships, budgeting techniques, and other selected topics.

Prerequisites: ACCT 311

410 Advanced Accounting

The special accounting considerations of nonprofit organizations, the formation and operations of a partnership, home and branch office reporting systems and the preparation of consolidated financial statements.

Prerequisite: ACCT 312, Senior standing or permission of department chair

Entrepreneurship (ENTR)

Spriggs (chair), Carter, Dunham, Ebben, Folker, Johnson, McVea, Sarafolean

The concentration in entrepreneurship is designed for students who are considering owning their own business at some point in their career, are interested in working in a small or family-owned business, or are interested in working in corporate ventures.

Students completing a concentration in entrepreneurship will have the skills necessary to start a business venture within five years of graduation. They will have the skills necessary to play a meaningful role in the management of a small or family-owned business or corporate venture, and in their communities.

Concentration in Entrepreneurship**Business Core Courses**

ACCT	205	Introduction to Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
FINC	321	Financial Management
MGMT	301	Management of Organizations and Processes
MKTG	300	Principles of Marketing

Plus one of:

BLAW	301	Legal Environment of Business
BLAW	302	Business Law for Accounting
BLAW	303	International Business Law
BLAW	304	Real Estate Law

Concentration Courses

ENTR	200	Foundations in Entrepreneurship
ENTR	450	Entrepreneurship: Management and Strategy

Plus three of:

ENTR	348	Franchising Management
ENTR	349	Family Business Management
ENTR	360	Creativity and Change
ENTR	370	Entrepreneurial Financial Resource Management
ENTR	380	Entrepreneurship in Practice
ENTR	390	Diversity in Entrepreneurship
ENTR	490	Topics

College of Business

Allied requirements

ECON 251 Principles of Macroeconomics

ECON 252 Principles of Microeconomics

QMCS 220 Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

MATH 101 Finite Mathematics

MATH 109 Calculus with Review II

MATH 111 Calculus for Business and Social Science

MATH 113 Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus one of:

COMM 100 Public Speaking

COMM 105 Communication in the Workplace

COMM 322 Intercultural Communication

ENGL 200 or above

JOUR 215 Journalistic Writing in the Workplace

JOUR 311 Persuasion in Writing

200 Foundations of Entrepreneurship

Introduces the basic elements of cash flow management and the business plan. Prepares students for the more advanced presentation of these concepts offered in the General Business core, Entrepreneurship electives, and the capstone Entrepreneurship course. Students will learn the concepts of opportunity scanning and opportunity recognition. Students will conduct a self-assessment to help them better understand their personal values and aspirations to help guide their entrepreneurial career. Students will be exposed to the variety of types of entrepreneurial ventures.

Prerequisite: sophomore standing

300 Entrepreneurship for Non-majors

This course focuses on the functional skills and knowledge that are necessary in the smaller business growth and development. It also will help the student develop an understanding and awareness of the way the critical areas of law, management, finance, accounting and marketing need to be integrated and applied for successful small business management. Not open to entrepreneurship majors.

Prerequisite: junior standing

348 Franchising Management

This course examines several of the most important aspects of starting and managing a franchise business. Specific attention is placed on the following: the characteristics of the franchiser and franchisee; evaluation of franchising opportunities; legal concerns of franchising; the development of appropriate franchising strategies; and the successful planning, implementation, and launching of a new business.

Prerequisites: ENTR 200 and junior standing

349 Family Business Management

This course will explore the challenges and opportunities facing individuals and families involved in business relationships. Topics addressed will include family-business culture, entrepreneurial influences, key issues and conflicts, career planning, succession and strategic planning, counseling and consulting, professional support relationships and survival skills as a son or daughter in the family business. Parents or other significant family members are invited to audit this course with their son or daughter.

Prerequisites: ENTR 200 and junior standing

360 Creativity and Change

This course will acquaint students with theories and strategies for exercising the creative process. Leadership and change will also be examined to help the student understand how to effectively introduce and implement new and creative ideas.

Prerequisites: ENTR 200 and junior standing

370 Entrepreneurial Financial Resource Management

Students will learn a broad array of tools to more efficiently manage scarce resources in a new venture. Bootstrapping techniques in marketing, administration, fixed assets, and many other areas will be examined. Students will learn applied approaches to current asset and liability management. Students planning to start their own business within the first year or two of graduation will benefit most from this course. Students are expected to have a proficiency in computer spreadsheet programming.

Prerequisites: ENTR 200, ACCT 205, and junior standing

380 Entrepreneurship in Practice

Students will integrate experiences from placements in entrepreneurial companies with required readings, class discussion, and class assignments related to their placement experience. Students will complete 100 hours of work in the placement. They will perform appropriate, significant and relevant tasks directly under the supervision of either the lead entrepreneur or a key member of the entrepreneurial team. In addition, students will meet regularly during the semester in a classroom setting to share their experiences and learn from classmates in other placements. Finally, the instructor will also hold regular one-on-one sessions with students to provide overall supervision for the placement experience and to assure that the student is integrating classroom learning with the placement experience.

Prerequisites: ENTR 200 and junior standing

390 Diversity Issues in Entrepreneurship

Women and minority entrepreneurs face specific issues relating to access and equity in their efforts to establish new ventures. This course will examine these issues from both a public policy perspective and from an applied management perspective.

Prerequisites: ENTR 200 and junior standing

450 Entrepreneurship: Management and Strategy

This is the capstone course in entrepreneurship. It will include guest speakers from the entrepreneurial business world, extensive case analysis of entrepreneurial ventures and intensive personal business plan development. Students are expected to have a proficiency in computer spreadsheet programming.

Prerequisites: One ENTR elective, FINC 321, MGMT 301, and MKTG 300

Finance (FINC)

Vang (chair), Barabanov, Beckmann, Cha, Daugherty, Hamilton, Jaiswal-Dale, Jithendranathan, Mohanty, Samarakoon, Shovein, M. Sullivan

Students who concentrate in finance receive preparation for the financial service industries or for financial departments of non-financial corporations. Financial service industries would include banks, insurance companies, and investment firms. In addition to meeting needs for specific preparation, the study of finance is really applied microeconomics.

Students completing this concentration will have a knowledge of the time value of money, the use of a financial calculator, the use of a spreadsheet for modeling, and will possess good writing skills.

Concentration in Financial Management**Business Core Courses**

ACCT	205	Introduction to Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
FINC	321	Financial Management
MGMT	301	Management of Organizations and Processes
MKTG	300	Principles of Marketing

Plus one of:

BLAW	301	Legal Environment of Business
BLAW	302	Business Law for Accounting
BLAW	303	International Business Law

Concentration Courses

FINC	324	Corporate Finance
FINC	325	Investments

Plus two of:

FINC	410	Derivatives
FINC	430	Financial Intermediaries
FINC	440	Advanced Investments
FINC	450	International Financial Management
FINC	480	The Chief Financial Officer

Plus:

Four additional credits at the 300-level or above in the College of Business (may be a FINC course)

Allied requirements

ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics
QMCS	220	Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

College of Business

Plus one of:

MATH 109	Calculus with Review II
MATH 111	Calculus for Business and Social Science
MATH 113	Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus one of:

ECON 311	Forecasting
ECON 315	Empirical Methods in Economics
ECON 335	Money, Financial Markets and Economics
ECON 346	Country and Area Studies in Economics
ECON 348	International Economics

Plus one of:

COMM 100	Public Speaking
COMM 105	Communication in the Workplace
ENGL	200 or above
JOUR 215	Journalistic Writing in the Workplace
JOUR 311	Persuasion in Writing

Major in Real Estate Studies (B.S.)

The Bachelor of Science degree in the multidisciplinary field called real estate finds an ideal foundation in a liberal arts education. It provides a quality real estate program with a core in the general functional and operational areas of business. The program is designed to develop students as better citizens able to make responsible decisions benefiting society. Employers prefer to hire student who are knowledgeable of their discipline and operate within a moral and ethical framework of values. Graduates of the program can find employment as mortgage loan officers, appraisers, commercial/investment brokers and property managers.

Business Core Courses

ACCT 205	Introduction to Accounting
BLAW 304	Real Estate Law
BUS 200	Community Service (0 credit)
BUS 201	Ethics and Practice: Foundations of Business
FINC 321	Financial Management
MGMT 301	Management of Organizations and Processes
MKTG 300	Principles of Marketing

Concentration Courses

FINC 200	Real Estate Principles
FINC 360	Real Estate Property Management
FINC 460	Real Estate Finance and Investments
FINC 461	Real Estate Appraisal
FINC 470	Real Estate Development

Allied requirements

ECON 251	Principles of Macro-Economics
ECON 252	Principles of Micro-Economics
ECON 333	Regional and Urban Economics
QMCS 220	Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

COMM 100	Public Speaking
COMM 105	Communication in the Workplace

Plus one of:

MATH 109	Calculus with Review II
MATH 111	Calculus for Business and Social Science
MATH 113	Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus:

Eight credits chosen from the following lists chosen with the approval of the Real Estate adviser.

General Real Estate (apply to all areas)

COMM 220	Small Group Communication
COMM 222	Interpersonal Communication
COMM 240	Persuasion

COMM 325 Nonverbal Communication
 ENTR 200 Foundations of Entrepreneurship
 ENTR 252 Creating the 21st Century
 ENTR 360 Creativity and Change
 MKTG 310 Professional Selling

Brokerage/Investment

QMCS 215 Rapid Application Development

Mortgage Finance

FINC 430 Financial Intermediaries

Appraisal

ECON 311 Forecasting
 MKTG 340 Marketing Research
 QMCS 215 Rapid Application Development

Property Management

ECON 311 Forecasting
 GEOG 221 Computer Skills in Geography
 GEOG 321 Geographic Information Systems
 GEOG 330 Geography for Business and Planning
 GEOG 430 Urban Geography
 MKTG 360 Retailing and Retailing Services

Development

ECON 311 Forecasting
 GEOG 221 Computer Skills in Geography
 GEOG 321 Geographic Information Systems
 GEOG 330 Geography for Business and Planning
 GEOG 430 Urban Geography
 MKTG 340 Marketing Research
 MKTG 360 Retailing and Retailing Services
 SOC 332 Urban Sociology

200 Real Estate Principles

Explores the theories and practices of real estate with emphasis on the “why” and “how” of buying, financing, owning and selling real estate. Real estate brokerage, property management, mortgage finance, appraisal, investment and development are examined within a legal, economic and social context. Open to non-majors.

300 Finance for Non-Business Majors

Introduction to the concepts of finance in analyzing decisions. Topics include how to determine the economic value of a company’s investment projects, the value of financial securities, the cost of funds used to purchase assets, and the overall management of the firm’s assets and liabilities. This course may not be used to meet any requirement for a business major. Not open to business majors.

Prerequisite: Junior standing

321 Financial Management

An examination of the elements of the finance function of the organization as well as the financial analysis of decisions. Topics include working capital management, acquisition of capital, capital budgeting, cost of capital, theories of valuation, and present value.

Prerequisites: ACCT 205, BUS 201, QMCS 220 (or MATH 314 for actuarial majors), ECON 251, 252, and junior standing

324 Corporate Finance

Scope and objectives of financial management in the corporate setting at an advanced level. The course will explore working capital management, risk, valuation, capital structure theory, capital budgeting and other current topics in finance. It will utilize computer-based financial modeling and forecasting.

Prerequisites: FINC 321, and MATH 109 or 111 or 113 (may be taken concurrently)

325 Investments

The focus of this course is to provide an overview of investment concepts and an exposure to a broad range of investment alternatives. The principle concern of the course is to develop skills necessary to make prudent investment decisions.

Prerequisites: FINC 321

360 Real Estate Property Management

Owner, management and tenant relations within context budgeting, marketing and management planning is examined. Management for multi-family, office, retail and industrial property differentiated. Entrepreneurial roles of managers for finding tenants and conducting lease negotiations is explored. Offered in fall semester.

Prerequisites: FINC 200 and junior standing

410 Derivatives

This is a mathematically-oriented course which gives an introduction to the theory of derivative contracts such as futures and options. Issues of valuation, arbitrage pricing, trading strategies, and hedging strategies will be covered. The course will include elements of stochastic calculus and other mathematical techniques needed for understanding the derivative pricing. Among the applications to be explored are uncertainty in commodity prices, stock prices, exchange rates and interest rates.

Prerequisites: FINC 324 or 325, MATH 109 or 111 or 113

430 Financial Intermediaries

Concepts, practices and organization for financial management of various financial intermediaries. Asset-liabilities management, duration, swaps, hedges and other concepts will be covered. Banks will be the primary area for study, but the course also will look at other institutions including insurance, funds and thrifts. The course will be based on text, lectures, guest speakers, computer modeling, a bank simulation and examination.

Prerequisites: FINC 324 or 325, MATH 109 or 111 or 113

440 Advanced Investments

The focus of this course is to provide an overview of investment concepts and an exposure to a broad range of investment alternatives. The principle concern of the course is to develop skills necessary to make prudent investment decisions.

Prerequisites: FINC 325, MATH 109 or 111 or 113

442 Fixed Income Securities

This mathematically-oriented course provides extensive coverage of a wide range of fixed income securities, investment strategies and the interest rate environment. General determinants of value on standard instruments and analysis of the newer instruments including zeroes, mortgages derivatives, interest rate swaps, and structured notes will be covered. Necessary mathematical concepts covered in this course will include stochastic calculus and differential calculus.

Prerequisites: FINC 325, MATH 109 or 111 or 113

450 International Financial Management

The management of foreign and multinational financial operations. On the basis of international finance theory, students will learn foreign exchange risk management, foreign investment analysis, the financing of foreign operations, comparative accounting, international banking and international tax management.

Prerequisites: FINC 324, MATH 109 or 111 or 113

460 Real Estate Finance and Investment

Examines mortgage, lease, contract and construction financing with related underwriting standards and analytical techniques. Integrates the role of banks, pension funds, insurance companies with government, secondary mortgage markets, and purpose, function and operation of the U.S. financial and federal reserve systems. Acquisition and disposition analysis of income producing real property including tax liability and strategy. Market, feasibility and income analysis integrated with profitability and rate of return measures pertaining to investments with optimal financing. Offered in spring semester.

Prerequisites: FINC 200 and 321

461 Real Estate Appraisal

Valuation of residential and commercial real estate using the cost, market and income approaches to value. Professional ethics and standards of professional appraisal practice explored. Professional quality narrative appraisal with comparable sales, depreciated cost and discounted cash flow analysis required. Offered in fall semester.

Prerequisites: FINC 200 and 321

470 Real Estate Development

Capstone course integrating all functional areas of real estate for production of housing, commercial and industrial real estate. Use of market research, feasibility studies and market analysis in contract negotiation for project construction, marketing and management. Offered in spring semester.

Prerequisites: FINC 460 or 461, ECON 333

480 The Chief Financial Officer

Case studies on the control and treasury functions, and an examination of the information gathering, analytical and decision-making process required of the CFO. Students prepare case briefs for class discussions and formal presentations. Case assignments require students to write extensively and challenge their analytical ability.

Prerequisites: FINC 324, MATH 109 or 111 or 113

Legal Studies in Business (BLAW)

Marsnik (chair), Kunkel, Reich, Swink, Wendt

Business law plays an increasingly prominent role in the workplace and in our personal lives. The proliferation of laws, regulations, and legal decisions determining the limits of appropriate business behavior makes an understanding of law and legal process vital to the business professional.

Students graduating with a concentration in Legal Studies in Business will have explored in depth the nature of the legal environment of business and the ways in which legal rules and processes affect business decision making. Students will have developed critical-thinking and problem-solving skills by fostering an awareness of legal reasoning and legal analysis.

This concentration is relevant to all business administration students, but it is particularly appealing to those students interested in the more highly regulated fields of business and/or the role and nature of the legal process. The concentration is not designed to be a pre-law program, but may be of interest to students considering graduate study in law, business, or public administration.

The concentration is structured to ensure that students receive both a solid grounding needed for the B.A. in Business Administration and an additional focus in business law.

Concentration in Legal Studies in Business

Business Core Courses

ACCT	205	Introduction to Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
FINC	321	Financial Management
MGMT	301	Management of Organizations and Processes
MGMT	480	Strategic Management
MKTG	300	Principles of Marketing

Concentration Course

BLAW	401	Legal Research, Advocacy, and Dispute Resolution
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Plus one of:

BLAW	301	Legal Environment of Business
BLAW	302	Business Law for Accounting
BLAW	303	International Business Law

Plus three of:

One of BLAW	301/302/303	not taken previously
BLAW	304	Real Estate Law
BLAW	351	Environmental Law
BLAW	352	Gender Issues and the Law
BLAW	402	Law of Electronic Commerce
One course numbered 300 or above (not previously taken) in ACCT, ENTR, FINC, MGMT, MKTG		

Allied requirements

ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics
QMCS	220	Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

MATH	101	Finite Mathematics
MATH	109	Calculus with Review II
MATH	111	Calculus for Business and Social Science
MATH	113	Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus one of:

COMM	100	Public Speaking
COMM	105	Communication in the Workplace
COMM	322	Intercultural Communication
ENGL	200	or above
JOUR	215	Journalistic Writing in the Workplace
JOUR	311	Persuasion in Writing

College of Business

301 Legal Environment of Business

An examination of the business law rules and principles of particular relevance to entrepreneurship, finance, management, and marketing. Subjects include contracts, negligence, products liability, and warranty, intellectual property, employment law, securities regulation, as well as general notions of legal reasoning and legal process.

Prerequisite: Junior standing

302 Business Law for Accounting

An examination of the business rules and principles of particular relevance to the accounting profession. Subjects include the law of contracts, the Uniform Commercial Code, the law of debtor-creditor relations, the legal structure governing the formation and operation of business organizations (agency, partnership, and corporations), as well as general notions of legal reasoning and legal process.

Prerequisites: Junior standing and ACCT 205

303 International Business Law

An exploration of the international legal environments and some of the legal issues and problems that confront businesses as they cross international boundaries. Topics include international trade, foreign investment, transfer of technology, international dispute resolution, and the role of multinational enterprises.

Prerequisite: Junior standing

304 Real Estate Law

Principles of law regarding real property with emphasis on contracts, sales and secured transactions regarding transfer of ownership, mortgages, land use, development, rental and professional liability. Offered in spring semester.

Prerequisites: Junior standing

351 Environmental Law

Environmental law will survey relevant federal and state statutes and case law to examine how well they serve to maintain and improve the quality of the air, water, soil and life, and strike an appropriate balance between the present consumption of resources and their maintenance for future generations. The course also will explore emerging environmental trends and the formulation of environmental policy.

Prerequisite: Junior standing

352 Gender Issues and the Law

This course will explore the principle that men and women stand as equals before the law. It will examine the ways in which courts and legislatures have interpreted the principle of equal opportunity to resolve gender issues in the workplace, as well as in other aspects of society that affect access to the workplace, including education, marriage, and the family. It also will provide an historical overview of the law of equal opportunity and will touch upon modern notions of feminist legal theory. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisite: Junior standing

401 Legal Research, Advocacy, and Dispute Resolution

An examination of the nature of legal process and of the means the legal system adopts to resolve business disputes. The course will follow a problem-solving approach emphasizing critical thinking and oral and written legal advocacy skills. Topics include an overview of jurisprudence, the sources of law, business and the Constitution, the regulatory process, judicial and alternative dispute resolution, and the basics of legal research and written and oral advocacy.

Prerequisite: BLAW 301, 302, or 303 or consent of instructor

402 Law of Electronic Commerce

An exploration of the evolving legal environment that shapes business strategy for conducting business online. Topics include global e-commerce regulatory schemes, issues of privacy, security and data protection, online payment and banking regulation, intellectual property considerations, and censorship and defamation concerns.

Prerequisite: BLAW 301, 302, or 303

Management (MGMT)

Anderson, (chair), Buckeye, Burns, Campion, Cohen, Elm, Evers, Goodpaster, Hays, Hedberg, R. Kennedy, Knauff, Kumar, Mason, McNamara, Militello, Nyquist, Olson, Owens, Power, Ramlall, Ray, Rehn, Ressler, Rothausen, Shepeck, Wenzel, Young

Students completing a concentration in the Department of Management will develop a systems thinking perspective as they view organizations; will develop a competitive perspective as they work with organizations; will become problem-solvers; will value diversity in all its forms; and will study managerial skills.

Concentration in Business Communication

There is an increasingly widespread desire within the business community for people who can communicate well, both in face-to-face and in electronically-mediated forms of communication. The concentration in Business Communication is designed to provide students a basic understanding of business fundamentals, plus back-

ground knowledge and skills in human message exchange. This exchange can occur in many forms: one-on-one, in groups, across cultures, on tape, and over the airwaves.

In addition to the general business courses required of all business majors, students who elect to do concentrated study in Business Communication take four additional communication courses, selected with the guidance of their adviser. These courses can focus on working with people or with electronic media. Those communication courses that emphasize working with people, such as Organizational Communication or Small Group Communication, provide the foundation for effective interaction and discussion. Those courses that focus on electronic media, such as Electronic Media Production or Audio Production, provide the basics for working with technology in the workplace and can help prepare students for business-related careers in the electronic media and broadcasting industry.

Business Core Courses

ACCT	205	Introduction to Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
FINC	321	Financial Management
MGMT	301	Management of Organizations and Processes
MKTG	300	Principles of Marketing

Plus one of:

BLAW	301	Legal Environment of Business
BLAW	302	Business Law for Accounting
BLAW	303	International Business Law

Concentration Courses

COMM	100 or 105	Public Speaking or Communication in the Workplace
COMM	220 or 320	Small Group Communication or Organizational Communication
MGMT	480	Integrative Issues of Business and Organizations

Plus eight additional credits:

COMM	200 or above
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Allied requirements

ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics
QMCS	220	Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

MATH	101	Finite Mathematics
MATH	109	Calculus with Review II
MATH	111	Calculus for Business and Social Science
MATH	113	Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Concentration in Human Resource Management

It is often said that people are an organization's greatest resource. People who work in human resource management provide specialized methods, techniques and professional judgment geared toward fair and effective employee selection, rewards, training, placement, management and development. By making effective use of employees' skills, and helping employees find satisfaction in their jobs and working conditions, both the employees and employers benefit from enhanced productivity.

People who work in human resource management have a wide range of responsibilities within a company. These include forecasting the organization's employee needs such as hiring, developing appraisal, compensation and professional development systems; establishing and maintaining effective labor relations; analyzing and improving the working environment; and interpreting employment regulations. Typical job titles found in human resource departments include benefits analyst, training services coordinator, HR administrator, employment and placement manager, job analyst, labor relations specialist, affirmative action manager, recruiter, and personnel development specialist.

Business Core Courses

ACCT	205	Introduction to Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
FINC	321	Financial Management
MGMT	301	Management of Organizations and Processes
MKTG	300	Principles of Marketing

College of Business

Plus one of:

BLAW 301	Legal Environment of Business
BLAW 302	Business Law for Accounting
BLAW 303	International Business Law

Concentration Courses

MGMT 380	Organizational Change and Development
MGMT 390	The Environment of Human Resources Management
MGMT 420	Performance Assessment, Development, and Career Management
MGMT 460	Current Issues in Human Resources Management
MGMT 480	Integrative Issues of Business and Organizations

Allied requirements

ECON 251	Principles of Macroeconomics
ECON 252	Principles of Microeconomics
QMCS 220	Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

MATH 101	Finite Mathematics
MATH 109	Calculus with Review II
MATH 111	Calculus for Business and Social Science
MATH 113	Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus one of:

COMM 100	Public Speaking
COMM 105	Communication in the Workplace
COMM 322	Intercultural Communication
ENGL	200 or above
JOUR 215	Journalistic Writing in the Workplace
JOUR 311	Persuasion in Writing

Concentration in Leadership and Management

The Leadership and Management curriculum provides a broad look at the science and art of “getting things done.” It will help the student develop philosophies and skills for leading people, processes, and projects across all aspects of an organization. It will provide the concepts and tools to establish long-term visions and goals for an organization and to effectively manage daily routines in a dynamic work environment – regardless of the type of organization or the particular area of a business.

The business world is changing quickly and current experience shows that university graduates can expect to change careers and employers many times before retiring. The Leadership and Management program will help the student initiate a course of action and take advantage of opportunities that arise within organizations. Leadership and Management will prepare the student for positions throughout an organization. This concentration is designed for students majoring in business administration who are not interested in concentrating their studies in a particular discipline of business (*e.g.*, accounting, finance, marketing), but want more focus than the General Business concentration provides.

Business Core Courses

ACCT 205	Introduction to Accounting
BUS 200	Community Service (0 credit)
BUS 201	Ethics and Practice: Foundations of Business
FINC 321	Financial Management
MGMT 301	Management of Organizations and Processes
MKTG 300	Principles of Marketing

Plus one of:

BLAW 301	Legal Environment of Business
BLAW 302	Business Law for Accounting
BLAW 303	International Business Law

Concentration Courses

MGMT 380	Organizational Change and Development
MGMT 382	Management and Leadership
MGMT 384	Project Management
MGMT 480	Integrative Issues of Business and Organizations
MGMT 482	Managerial Applications of Leadership

Allied requirements

ECON 251 Principles of Macroeconomics
 ECON 252 Principles of Microeconomics
 QMCS 220 Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

MATH 101 Finite Mathematics
 MATH 109 Calculus with Review II
 MATH 111 Calculus for Business and Social Science
 MATH 113 Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus one of:

COMM 100 Public Speaking
 COMM 105 Communication in the Workplace
 COMM 322 Intercultural Communication
 ENGL 200 or above
 JOUR 215 Journalistic Writing in the Workplace
 JOUR 311 Persuasion in Writing

Concentration in Operations Management

Operations Management deals with management of the activities involved in managing the supply chain – the purchasing, production and delivery of goods or services by an organization. Operations managers work to find the best, most efficient way to get something done. Operations Management is not specific to any one industry, nor is it restricted to manufacturing enterprises – companies that produce a physical product. Production has to do with the production of goods and services. All organizations in the private and public sector need efficient production and operations systems. In addition to traditional manufacturing companies, organizations such as airlines, hospitals, hotels, restaurants, insurance companies, and government agencies are engaged in production even though their end products are services and not physical products. Since operations managers implement their programs through people, to be successful they also must have skills in the behavioral aspects of management. Job titles of recent graduates with an Operations Management concentration include inventory analyst, materials control analyst, supply chain analyst, and planner.

Business Core Courses

ACCT 205 Introduction to Accounting
 BUS 200 Community Service (0 credit)
 BUS 201 Ethics and Practice: Foundations of Business
 FINC 321 Financial Management
 MGMT 301 Management of Organizations and Processes
 MKTG 300 Principles of Marketing

Plus one of:

BLAW 301 Legal Environment of Business
 BLAW 302 Business Law for Accounting
 BLAW 303 International Business Law

Concentration Courses

MGMT 345 Operations Management
 MGMT 346 Materials Management
 MGMT 347 Systems and Theories in Operations Management
 MGMT 445 Advanced Operations management
 MGMT 480 Integrative Issues of Business and Organizations

Allied requirements

ECON 251 Principles of Macroeconomics
 ECON 252 Principles of Microeconomics
 QMCS 220 Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

MATH 101 Finite Mathematics
 MATH 109 Calculus with Review II
 MATH 111 Calculus for Business and Social Science
 MATH 113 Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

College of Business

Plus one of:

COMM 100	Public Speaking
COMM 105	Communication in the Workplace
COMM 322	Intercultural Communication
ENGL	200 or above
JOUR 215	Journalistic Writing in the Workplace
JOUR 311	Persuasion in Writing

300 Management for Non-Business Majors

This course presents various theories of management. Starting with the functions of management (planning, organizing, staffing, directing, and controlling), it examines the nature of structure, authority, accountability, responsibility, motivation and the concept of leadership, and the role of the professional manager. Not open to business majors. Offered in spring semester.

Prerequisite: Junior standing.

301 Management of Organizations and Processes

The objectives of this course are to develop the analysis skills, perspectives and techniques useful for managing organizations in today's competitive environment. The course provides students the opportunity to practice and develop skills in the following: formal group reports, group process skills, project management, and the analysis of an actual organization. This course includes lectures, significant group work done outside class and a strong fieldwork component. A significant amount of preparation and work is expected to be done outside the classroom.

Prerequisites: BUS 201, ACCT 205, and junior standing

345 Operations Management

An examination of the concepts and techniques utilized in the management of manufacturing and service operations. The focus is on the tactical tools of operations management systems. Topics covered include the management of process, technology, production, quality, inventory, workforce and facilities in operating systems. Offered in fall semester.

Prerequisite: MGMT 301

346 Materials and Supply Chain Management

This course provides the conceptual and analytical framework for the materials management function of businesses. It focuses on the development and implementation of the materials portion of the operations system. Topics include MRP/ERP systems, supply chain management, and distribution and logistics. Many of the topics will require the use of computers and the use of operations management software. Offered in the fall semester.

Prerequisite: MGMT 301

347 Systems and Theories in Operations Management

This course emphasizes operations systems and theories found in today's businesses. It provides both the theories and the conceptual frameworks for these systems. It requires the students to experience real work examples via plant tours and on-site visits. Topics include total quality management, theory of constraints, lean/agile/flexible operations systems, philosophy and techniques of JIT and other current inventory and operations management techniques. Offered in spring semester.

Prerequisite: MGMT 301

380 Organizational Change and Development

Organizational change is a constant reality for any enterprise. Uncontrolled change often leaves the organization fighting for its continued existence. Well-managed change can enable a firm to adapt positively to internal and external threats, while maintaining its identity and benefiting its stakeholders. This course examines how to manage rapidly changing environments and technologies within an organizational setting. The focus is on how to lead change through an organization while managing the fears, apathy, and politics associated with the new system or requirements. Course methodology includes lectures and discussion, combined with application of concepts via case studies and activity-based exercises.

Prerequisites: BUS 201 and junior standing

382 Management and Leadership

This course explores the concepts and skills involved in exercising effective leadership from both an organizational and an individual perspective. The course covers the concepts of leadership in diverse cultures, how organizational conditions affect competent leadership, and the actual work of leadership in organizations. Concepts such as shared-leadership and rotating leadership are explored. Warren Bennis stated that managers do things right and leaders do the right things. The study of leadership and management in organizations is far more complex than this simple aphorism. This course examines the complexity of business leadership through a review of the key theories of leadership and their managerial applications using a combination of methods. These include self-assessment and feedback, case studies, role-plays and discussion of the application of concepts. Emphasis is placed on combining theoretical foundations and practical skills that develop more effective and ethical approaches to leadership in a variety of settings. Offered in fall semester.

Prerequisites: BUS 201 and junior standing

384 Project Management

Projects and dynamic teaming are the primary vehicles for managing work processes in organizations today. This course presents the concepts, techniques, software tools, and behavioral skills needed for managing projects effectively. It introduces the students to a project's life cycle (from project definition and goals to completion of the project) and the behavioral dynamics that need to be managed to achieve success. The use of project management skills as applied to new product launches (*e.g.*, marketing) or installation of software information systems is explored. The multiple roles of the project manager are examined. These include being a team leader responsible for delivering the project on time, within budgets and to desired specifications while managing individuals with temporary allegiance to the project. The technical and human aspects of project management will receive approximately equal focus. Course methodology includes lectures and discussion, case studies, and activities designed to apply the concepts to management of a "live" project. Offered in spring semester.

Prerequisite: MGMT 301

390 The Environment of Human Resource Management

This course deals with concepts involved in human resource administration in various types of organizations. Key topics include human resource planning, staffing, performance appraisal, compensation and benefits, training, employee/labor relations and career development. Offered in fall semester.

Prerequisites: BUS 201 and junior standing

420 Performance Assessment, Development, and Career Management

This course focuses on theories, practices, and issues dealing with the management of human performance, potential, professional growth, and career development in various types of organizations. Offered in fall semester.

Prerequisites: MGMT 301

430 International Management

Managers operating in a global environment need to manage the differences in doing business with people from other cultures. This goes beyond knowing that people have different customs, goals, and thought patterns. Today's managers need to be able to understand the cross-cultural subtleties imbedded in any interpersonal working relationships, regardless of whether operating in a foreign location, interacting with foreign nationals from a distance, or working with a culturally diverse American workforce. A manager's ability to understand, accept, and embrace these differences is critical to his or her success. This course is designed to address the complexities of intercultural management and facilitate the student's ability to manage successfully in a cross-cultural environment. Topics include intercultural ethics, intercultural negotiations, and work values.

Prerequisites: FINC 321, MGMT 301, MKTG 300 or concurrent registration and prerequisite waived by instructor

445 Advanced Operations Management

This course focuses on the current issues that are salient to the operations function. It examines current views as to the analysis and synthesis of complete operations systems. It includes recent theories and experiments aimed at improving long/short run productivity and competitiveness. It serves as an integrator for the courses that have preceded it by giving the students the opportunity to integrate and refine the knowledge, skills, and attitudes obtained from their previous courses. It stresses the practical application of operations management concepts and theories. Offered in spring semester.

Prerequisites: MGMT 345 and senior standing

460 Current Issues in Human Resource Management

This course provides the student with an understanding of important current issues regarding the utilization of people in organizations and how the human resources function operates in various types of organizations. Students will engage in discussions with senior human resources managers and complete a field project. This course serves as the capstone for the Human Resource concentration. Offered spring semester.

Prerequisites: MGMT 380 (may be taken concurrently), 390, 420 and senior standing

480 Strategic Management

This course examines organizational issues from an integrative perspective. It draws on concepts from the entire business curriculum to view the organization as a whole. The focus of the course is to have you view the organization from the perspective of the president, rather than that of a manager of a particular function (*e.g.*, VP of marketing). It examines the development of core competence and a sustainable competitive advantage as part of an organization's strategic planning process.

Prerequisites: MGMT 301, FINC 321, MKTG 300, and senior standing. Absolutely no exceptions will be made to these prerequisites.

482 Managerial Applications of Leadership

This course addresses the application of leadership principles in the context of business, political, and social organizations. It emphasizes how leadership affects the functions of the organization. The course reviews case studies of historical leaders such as Henry Ford, George Eastman, and Joseph Stalin. It also explores contemporary leaders such as Jack Welch, George Bush, and Pope John XXIII. These case studies are used to analyze how the personality, style, character, ethics, and strategy of each leader affect their organizations and their communi-

College of Business

ties. The course will also examine multi-leader processes, such as the digging of the Panama Canal or the building of the transcontinental railroad, to highlight the interaction of varied leadership styles. Offered in spring semester.

Prerequisites: MGMT 380 or equivalent, MGMT 382, senior standing

Marketing (MKTG)

Lundsten (chair), Al-Khatib, Brennan, Grzeskowiak, Heckler, Lawton, Liu, Rexeisen, Spriggs, Vollmers

Career options in marketing include marketing research and planning, advertising and public relations, business logistics and physical distribution, retailing, product management and new product development, and sales management.

Students completing the concentration in marketing will be able to critically evaluate the global marketing environment, identify opportunities and problems and be able to understand and apply appropriate concepts and terminology.

Concentration in Marketing Management

Business Core Courses

ACCT	205	Introduction to Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
FINC	321	Financial Management
MGMT	301	Management of Organizations and Processes
MKTG	300	Principles of Marketing

Plus one of:

BLAW	301	Legal Environment of Business
BLAW	302	Business Law for Accounting
BLAW	303	International Business Law

Concentration Courses

MKTG	430	Marketing Management
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Plus one of:

MKTG	340	Marketing Research
MKTG	345	Marketing Analysis

Plus two of:

MKTG	310	Professional Selling
MKTG	320	Promotion Management
MKTG	330	International Marketing
MKTG	350	Marketing Channels and Distribution
MKTG	360	Retailing
MKTG	370	Buyer Behavior
MKTG	490	Topics

Plus:

Four additional credits at 300-level or above (not previously taken) in the College of Business (may be a MKTG course)

Allied requirements

ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics
QMCS	220	Statistics I

Note: QMCS 220 should be completed by the end of the sophomore year. Transfer students who have not had an equivalent course must complete this course by the end of their first semester, junior year.

Plus one of:

MATH	101	Finite Mathematics
MATH	109	Calculus with Review II
MATH	111	Calculus for Business and Social Science
MATH	113	Calculus I

Note: The math requirement must be completed by the end of the sophomore year.

Plus one of:

COMM	100	Public Speaking
COMM	105	Communication in the Workplace
ENGL		200 or above
JOUR	215	Journalistic Writing in the Workplace
JOUR	311	Persuasion in Writing

300 Principles of Marketing

This course uses a managerial point of view. It focuses on understanding the needs and desires of customers in order to develop effective strategies for business. Students are taught to consider organizational, social, competitive, technological, economic, behavioral, and legal forces in crafting effective marketing programs.

Prerequisites: BUS 201 and junior standing

310 Professional Selling

In this course students learn how individuals interact with each other in a competitive environment. The course covers one-on-one selling techniques, persuasive communication, oral and verbal presentation skills useful for one-to-one presentations and when groups present to groups. The student will learn skills useful in both the industrial and consumer areas.

Prerequisite: MKTG 300

320 Promotion Management

This course is designed to develop an appreciation for the promotion mix (personal selling, advertising, public relations, sales promotion) by exploring how and why these elements are used by organizations to reach their goals and objectives. Concept fundamentals are explored, then integrated into case analysis.

Prerequisite: MKTG 300

330 International Marketing

In this course students consider basic concepts, principles and theories of international marketing, as well as the essential and complex problems encountered in the international marketplace. The emphasis is on problem solving and decision-making within the international marketing environment.

Prerequisite: MKTG 300

340 Marketing Research

In this course, students learn to develop surveys, observation, experiments, and other tools for learning about customer characteristics and requirements. They learn about analytical techniques, data sources, research planning and costs. Students would greatly benefit from completing this course before they take MKTG 430.

Prerequisites: MKTG 300, MATH 101 or 109 or 111 or 113, QMCS 220

345 Marketing Analysis

In this course students learn to assemble, analyze and present information that is pertinent to marketing decisions. The focus in this course is on company strategies, competitive intelligence, and secondary sources. The course covers acquisition of pertinent secondary data from libraries, government, and commercial sources, the analysis of this data and its reduction and refinement to produce presentations that are helpful in marketing decision-making.

Prerequisites: MKTG 300, MATH 101 or 109 or 111 or 113, QMCS 220

350 Marketing Channels and Distribution Systems

Students examine relevant theories, concepts, and practices related to the flow of goods and services in and between organizations from the point of view of the total distribution system. The goal of the course is to help business students think about and learn to create and integrate marketing and logistics strategy.

Prerequisites: MKTG 300 and QMCS 220

360 Retailing

In this course students learn the principles and practices of retailing, non-store retailing services and direct marketing from a management perspective. Topics include roles-in-channel, demographics, consumer behavior, trends, strategy formulation, ownership and formats, trade area and location, buying and sourcing, store design and visual merchandising, operations management promotion, service delivery, controls, non-store retailing, human resource issues, database management, and international retailing.

Prerequisite: MKTG 300.

370 Buyer Behavior

In this course, students examine how consumers and organizations go about making purchase decisions. Major theoretical contributions and empirical research findings from marketing and the behavioral sciences are reviewed and attention is given to applying this information to practical business and marketing situations.

Prerequisite: MKTG 300

430 Marketing Management

Small Business Institute clients present student teams with business problems that require solutions. Student teams diagnose the client's problem and craft and present a solution to the client. Time is divided between reviewing and integrating the students' marketing background, facilitating the student contact with the client, and providing consulting to the client.

Prerequisites: MKTG 340 or 345, one of MKTG 310, 320, 330, 350, 360, 370, and senior standing



School of Education

Teacher Education (EDUC)

Rigoni (chair), Cady Brownstein, Hansen, Hunter, Nistler, Payne, Reif, Smith, Taylor, Warring

The Teacher Education program is in alignment with Minnesota state licensure requirements. Since licensure requirements can change, your actual program may vary slightly from that cited in this catalog. Please maintain contact with a teacher education advisor for the most current information on your program.

Teacher preparation programs at the University of St. Thomas are committed to preparing: inspiring teachers dedicated to the academic and personal development of their students, and passionate advocates for justice and human dignity in all communities from the classroom to the world.

The University of St. Thomas School of Education offers a full range of undergraduate and graduate elementary/middle level and secondary/middle level teacher licensure programs. These standards-based programs embrace the liberal arts, emphasize ethical practice, and prepare creative, reflective educators dedicated to the success of all learners. They prepare professional educators who can demonstrate appropriate knowledge, skills and dispositions related to:

1. subject matter
2. student learning
3. diverse learners
4. instructional strategies
5. learning environments
6. communication
7. planning for instruction
8. assessment of learning
9. reflection, scholarship, and continuous professional development
10. collaboration, ethics, and relationships

Students who are recommended for licensure through the St. Thomas Teacher Education Department are part of a tradition that goes back over three-quarters of a century. Programs are fully accredited by the National Council for the Accreditation of Teacher Education (NCATE) and the North Central Association of Colleges and Secondary Schools and are designed to meet or exceed Minnesota State Board of Teaching licensure requirements.

Because of the number of required courses and the options available, it is suggested that students considering an education degree contact a department adviser as early as possible in their college career. Ongoing state licensure rule changes make careful planning particularly important. Department and School of Education handbooks and information supplements outline specific departmental programs and policies and are available online and in the Teacher Education Department office in Opus Hall (MOH 302).

Admission to the Program

Students typically begin their application for admission to the teacher education program during their sophomore year, while enrolled in Block I. Candidates typically complete their application during Block II. Criteria for admission to the education program include:

GPA/Grade minimum requirements:

- Cumulative GPA of 2.75 for all credits earned at UST
- A grade of "C" or better for all Education department coursework
- A grade of "C-" or better for all content area and allied coursework
- Positive recommendations from major or co-major advisor, education advisor and interview team
- Demonstrated ability to consistently meet all program technical standards
- Demonstrated ability to consistently exhibit all program professional behavior standards
- Evidence of a positive introductory level field experience
- Completion of the Praxis I - Pre-Professional Basic Skills Test (PPST)

Students seeking licensure to teach in the state of Minnesota must complete (but not necessarily pass) all three components (reading, writing and mathematics) of the PPST prior to program admission. Students will need to pass all three components by the time of program completion in order to apply for licensure in the state of Minnesota.

Program Sequence

Elementary (K-6) and Specialist (5-8 or K-8) Licensure

Note: A Minnesota Criminal Background Check is required for the EDUC 211 field experience.

Block I – EDUC 210 and 211, 212

Block II – EDUC 330 and 331, 350

Note: Allied Math and Science requirements must be completed as a prerequisite to Block III.

Block III – EDUC 369, 370, 371, 372, 373, 374 (concurrent registrations required)

Block IV – EDUC 456, 460, 461 (concurrent registrations required)

Secondary/Middle Level (5-12) Licensure

Note: A Minnesota Criminal Background Check is required for the EDUC 211 field experience.

Block I – EDUC 210 and 211, 212

Block II – EDUC 330 and 331, and 355

Block III – EDUC 381, 382, and 383 (concurrent registration required)

Block IV – EDUC 456, 460, 461 (concurrent registrations required)

K-12 Licensure

Note: A Minnesota Criminal Background Check is required for the EDUC 211 field experience.

Block I – EDUC 210 and 211, 212

Block II – EDUC 330 and 331

Block III – See specific K-12 program for Block 3 courses

Block IV – EDUC 456, 460, 461 (concurrent registration required)

Program Options

Plan A

Elementary and middle-level and secondary and middle-level education students who complete program requirements and graduate within four years follow Plan A.

Plan B

Teacher education students who find it difficult to complete their education program in four years may opt for Plan B. This allows students to complete licensure at the graduate level after earning their undergraduate degree. Students who seek the Plan B option should consult with a department advisor at least one semester prior to application for Plan B. Plan B is not an option for students with majors or co-majors that do not stand alone, such as physical education, social studies, and SMEE.

Retention in the Program

Students accepted into the program must continue to meet all minimum admission requirements cited above, and must demonstrate appropriate progress on all required licensure standards in order to be placed for student teaching and recommended for licensure. The department reserves the right to dismiss candidates from the licensure programs based on: inability to meet program technical standards, violations of the professional behaviors standards, or unsatisfactory progress toward meeting state mandated licensure standards.

Block IV and Student Teaching

In order to take Block IV courses and student teach, a student must have: senior status, unconditional admission to the teacher education program, satisfactory completion of all education courses in Blocks I, II, and III, satisfactory completion of all licensure-related content courses, plus admission to student teaching.

Program Completion

Following completion of all program requirements, a student may apply for Minnesota state licensure after passing all three sections of the Praxis I (PPST) exam, passing the required Praxis II Professional Knowledge Exam, and passing the all required Praxis II Subject Matter Exams, and securing a Federal Criminal Background Check.

On the basis of our approved Minnesota licensure program and our accreditation from the National Association of Colleges of Teacher Education (NCATE), many other states offer reciprocal entry licenses for students completing our program requirements. Since all states requirements are unique, any student planning on teaching in another state is strongly advised to check with that state in advance in order to satisfy those unique requirements.

Teacher Licensure in Elementary (K-6) with a Specialty (5-8 or K-8)

Licensure at the elementary/middle level includes a generalist (K-6) component plus an accompanying middle level specialty (5-8 or K-8) in at least one of the following subject areas:

- Middle Level Communication Arts and Literature (5-8)
- Middle Level Mathematics (5-8)
- Middle Level Science (5-8)
- Middle Level Social Studies (5-8)
- Middle Level World Languages and Cultures (K-8)

Major in Elementary Education with a 5-8 Specialty in Communication Arts and Literature

Block I

- EDUC 210 Education's Place in Society
- EDUC 211 Field Experience: Introductory (K-12) (0 credit)
- EDUC 212 Human Relations and Multicultural Education

Block II *Praxis I Exam (PPST) required for admission to program*

- EDUC 330 Psychology for Teaching and Learning
- EDUC 331 Field Experience: Middle Level (5-8) (0 credit)
- EDUC 350 Language Development, Literacy, and Literature I

Block III

- EDUC 369 Field Experience: Primary level (K-4) (0 credit)
- EDUC 370 Language Development, Literacy, and Literature II
- EDUC 371 Teaching Mathematics and Technology
- EDUC 372 Teaching Science and Healthy, Active Living
- EDUC 373 Teaching Social Studies and Fine Arts
- EDUC 374 Seminar in Middle Level Specialty Area (0 credit)

School of Education

Block IV Praxis II Exams (PLT & Content Area) required for licensure
EDUC 456 Inclusive School Communities (2 credits)
EDUC 460 Student Teaching and Seminar (6 credits)
EDUC 461 The Teacher as Educational Advocate

Plus Middle level Communication Arts & Literature Specialty:

ENGL 111 Critical Reading and Writing I: Fiction and Nonfiction Prose
ENGL 112 Critical Reading and Writing II: Drama and Poetry

Note: Qualified students may substitute 190 and an additional upper-level literature course for 111 and 112

Plus eight credits from two of the following categories:

ENGL 211 or 212 British Authors I or II
ENGL 214 or 215 American Authors I or II
ENGL 220 or 221 The Classical Tradition or The Modern Tradition
ENGL 217 or 218 Multicultural Literature or Literature by Women: Critical History

Plus:

A second major, which may incorporate courses from the middle level concentration requirements

Plus:

Demonstrated competence on all required state standards

Plus allied core curriculum math and science courses to meet state competencies:

MATH 100 Mathematical Sampler
MATH 121 Structures of Elementary Mathematics
Two laboratory sciences (one each chosen from two different fields)

or

IDSC 150 and one recommended additional lab science

Major in Elementary Education with a 5-8 Specialty in Mathematics

Block I

EDUC 210 Education's Place in Society
EDUC 211 Field Experience: Introductory (K-12) (0 credit)
EDUC 212 Human Relations and Multicultural Education

Block II Praxis I Exam (PPST) required for admission to program

EDUC 330 Psychology for Teaching and Learning
EDUC 331 Field Experience: Middle Level (5-8) (0 credit)
EDUC 350 Language Development, Literacy, and Literature I

Block III

EDUC 369 Field Experience: Primary Level (K-4) (0 credit)
EDUC 370 Language Development, Literacy, and Literature II
EDUC 371 Teaching Mathematics and Technology
EDUC 372 Teaching Science and Healthy, Active Living
EDUC 373 Teaching Social Studies and Fine Arts
EDUC 374 Seminar in Middle Level Specialty Area (0 credit)

Block IV Praxis II Exams (PLT & Content Area) required for licensure

EDUC 456 Inclusive School Communities (2 credits)
EDUC 460 Student Teaching and Seminar (6 credits)
EDUC 461 The Teacher as Educational Advocate

Plus Middle Level Mathematics Specialty:

MATH 100 Mathematical Sampler
MATH 113 Calculus I
MATH 121 Structures of Elementary Mathematics
MATH 128 Introduction to Discrete Mathematics

Plus:

MATH 259 Elements of Geometry and Statistics

or

MATH 325 Geometry and QMCS 220 Statistics I

Plus:

A second major, which may incorporate courses from the middle level concentration requirements

Note: The co-major in Science and Mathematics for Elementary Education (SMEE) is designed to fill this need.

Plus:

Demonstrated competence on all required state standards

Plus allied core curriculum math and science courses to meet state competencies:

Two laboratory sciences (one each chosen from two different fields)

or

IDSC 150 and one recommended additional lab science

Co-Major in Science and Mathematics for Elementary Education (SMEE)

Werness (QMCS) (director), Chaplin (BIOL), Hartshorn (CHEM), George (ENGR), Lamb (GEOL), McLean (MATH) Shepard (MATH), Tommet (PHYS)

This major provides an integrated background in science and mathematics appropriate for individuals who will teach in the elementary grades. The SMEE major was designed as a co-major along with elementary education and should be considered by students planning to pursue a degree in elementary education who wish to emphasize science and mathematics. Students should contact the program director, the Department of Teacher Education, or members of program faculty for further information on this major. SMEE is only available as a co-major for those students also majoring in elementary education. The SMEE co-major fulfills the Middle Level Specialty (5-8) in Science.

Block I

EDUC 210 Education's Place in Society
 EDUC 211 Field Experience: Introductory (K-12) (0 credit)
 EDUC 212 Human Relations and Multicultural Education

Block II Praxis I Exam (PPST) required for admission to program

EDUC 330 Psychology for Teaching and Learning
 EDUC 331 Field Experience: Middle level (5-8) (0 credit)
 EDUC 350 Language Development, Literacy, and Literature I

Block III

EDUC 369 Field Experience: Primary Level (K-4) (0 credit)
 EDUC 370 Language Development, Literacy, and Literature II
 EDUC 371 Teaching Mathematics and Technology
 EDUC 372 Teaching Science and Healthy, Active Living
 EDUC 373 Teaching Social Studies and Fine Arts
 EDUC 374 Seminar in Middle Level Specialty Area (0 credit)

Block IV Praxis II Exams (PLT & Content Area) required for licensure

EDUC 456 Inclusive School Communities (2 credits)
 EDUC 460 Student Teaching and Seminar (6 credits)
 EDUC 461 The Teacher as Educational Advocate

Plus SMEE co-major requirements:

One of:

GEOL 111 Introductory Physical Geology
 GEOL 113 The Earth's Record of Climate
 GEOL 114 The Science of natural Disasters
 GEOG 115 Environmental Geology

Plus either:

BIOL 101 General Biology

or the course sequence:

BIOL 201 Diversity and Adaptation
 BIOL 202 Genetics and Population Biology
 BIOL 204 Cellular and Molecular Biology

Plus either:

CHEM 100 Chemistry in Our World

or the course sequence:

CHEM 111 General Chemistry I
 CHEM 112 General Chemistry II

Plus either:

PHYS 101 Physics as a Liberal Art I

or the course sequence:

PHYS 109 General Physics I
 PHYS 110 General Physics II

or the course sequence

PHYS 111 Introduction to Classical Physics I
 PHYS 112 Introduction to Classical Physics II

School of Education

Plus:

A *specialization sequence* consists of eight or more additional credits in one department, to be approved by the student's SMEE adviser. These courses will build on the "core courses" above and develop specialized knowledge in one of the areas served by the Division of Science and Mathematics.

Plus:

Demonstrated competence on all required state standards.

181 Science Seminar

0 credit

The seminar consists of five one-hour meetings per semester and is offered for SMEE students enrolled in the laboratory science courses. Two semesters of the seminar are required.

182 Science Seminar

0 credit

Same as 181. This number is used for the second semester of the seminar.

359 Integrated Studies in Science and Mathematics

The capstone course in the SMEE interdisciplinary major. A number of currently important science and mathematics-related topics will be studied in depth, and will emphasize the integration of the natural sciences and mathematics. Consideration will be given to the relevance of the topics to modern society and their potential use in the elementary classroom.

Prerequisites: BIOL 101, CHEM 100, GEOL 111 (or 110 or 113 or 114 or 115), MATH 100 and 121, PHYS 101, QMCS 120. (In certain cases, permission of the adviser may allow a substitution.)

Major in Elementary Education with a 5-8 Specialty in Science

Block I

EDUC 210 Education's Place in Society
EDUC 211 Field Experience: Introductory (K-12) (0 credit)
EDUC 212 Human Relations and Multicultural Education

Block II *Praxis I Exam (PPST) required for admission to program*

EDUC 330 Psychology for Teaching and Learning
EDUC 331 Field Experience: Middle Level (5-8) (0 credit)
EDUC 350 Language Development, Literacy, and Literature I

Block III

EDUC 369 Field Experience: Primary Level (K-4) (0 credit)
EDUC 370 Language Development, Literacy, and Literature II
EDUC 371 Teaching Mathematics and Technology
EDUC 372 Teaching Science and Healthy, Active Living
EDUC 373 Teaching Social Studies and Fine Arts
EDUC 374 Seminar in Middle Level Specialty Area (0 credit)

Block IV *Praxis II Exams (PLT & Content Area) required for licensure*

EDUC 456 Inclusive School Communities (2 credits)
EDUC 460 Student Teaching and Seminar (6 credits)
EDUC 461 The Teacher as Educational Advocate

Plus Middle Level General Science Specialty:

GEOL 111 Introductory Physical Geology or one of GEOL 110, 113, 114, 115

Plus either:

BIOL 101 General Biology

or the course sequence:

BIOL 201 Diversity and Adaptation
BIOL 202 Genetics and Population Biology
BIOL 204 Cellular and Molecular Biology

Plus either:

CHEM 100 Chemistry in Our World

or the course sequence:

CHEM 111 General Chemistry I
CHEM 112 General Chemistry II

Plus either:

PHYS 101 Physics as a Liberal Art I

or the course sequence:

PHYS 109 General Physics I
PHYS 110 General Physics II

or the course sequence:

PHYS 111 Introduction to Classical Physics I
PHYS 112 Introduction to Classical Physics II

Plus:

A second major, which may incorporate courses from the middle level concentration requirements

Note: The co-major in Science and Mathematics for Elementary Education (SMEE) is designed to fill this need.

Plus:

Demonstrated competence on all required state standards

Plus allied core curriculum math courses to meet state competencies:

MATH 100 Mathematical Sampler

MATH 121 Structures of Elementary Mathematics

Major in Elementary Education with a 5-8 Specialty in Social Studies

Block I

EDUC 210 Education's Place in Society

EDUC 211 Field Experience: Introductory (K-12) (0 credit)

EDUC 212 Human Relations and Multicultural Education

Block II Praxis I Exam (PPST) required for admission to program

EDUC 330 Psychology for Teaching and Learning

EDUC 331 Field Experience: Middle Level (5-8) (0 credit)

EDUC 350 Language Development, Literacy, and Literature I

Block III

EDUC 369 Field Experience: Primary Level (K-4)

EDUC 370 Language Development, Literacy, and Literature II

EDUC 371 Teaching Mathematics and Technology

EDUC 372 Teaching Science and Healthy, Active Living

EDUC 373 Teaching Social Studies and Fine Arts

EDUC 374 Seminar in Middle Level Specialty Area (0 credit)

Block IV Praxis II Exams (PLT & Content Area) required for licensure

EDUC 456 Inclusive School Communities (2 credits)

EDUC 460 Student Teaching and Seminar (6 credits)

EDUC 461 The Teacher as Educational Advocate

Plus Middle Level Social Studies Specialty:

ECON 211 Current Economic Issues

GEOG 113 World Geography

HIST 113 Early America in Global Perspective

POL 101 American Government and Politics

Plus:

A second major, which may incorporate courses from the middle level concentration requirements

Plus:

Demonstrated competence on all required state standards

Plus allied core curriculum math and science courses to meet state competencies:

MATH 100 Mathematical Sampler

MATH 121 Structures of Elementary Mathematics

Two laboratory sciences (one each chosen from two different fields)

or

IDSC 150 and one recommended additional lab science

Major in Elementary Education with a K-8 Specialty in World Languages and Cultures

Block I

EDUC 210 Education's Place in Society

EDUC 211 Field Experience: Introductory (K-12) (0 credit)

EDUC 212 Human Relations and Multicultural Education

Block II Praxis I Exam (PPST) required for admission to program

EDUC 330 Psychology for Teaching and Learning

EDUC 331 Field Experience: Middle Level (5-8) (0 credit)

EDUC 350 Language Development, Literacy, and Literature I

Block III

EDUC 369 Field Experience: Primary Level (K-4) (0 credit)

EDUC 370 Language Development, Literacy, and Literature II

EDUC 371 Teaching Mathematics and Technology

EDUC 372 Teaching Science and Healthy, Active Living

EDUC 373 Teaching Social Studies and Fine Arts

EDUC 374 Seminar in Middle Level Specialty Area (0 credit)

School of Education

<i>Block IV</i>	<i>Praxis II Exams (PLT & Content Area) required for licensure</i>
	Oral Proficiency Exam required for Student Teaching
EDUC 456	Inclusive School Communities (2 credits)
EDUC 460	Student Teaching and Seminar (6 credits)
EDUC 461	The Teacher as Educational Advocate

Plus Middle Level World languages and Cultures Specialty:

Successful completion of a minor or equivalent in one or more of the following languages:

French
German
Spanish

Plus:

A second major, which may incorporate courses from the middle level concentration requirements

Plus:

Demonstrated competence on all required state standards

Plus allied core curriculum math and science courses to meet state competencies:

MATH 100 Mathematical Sampler
MATH 121 Structures of Elementary Mathematics
Two laboratory sciences (one each chosen from two different fields)
or
IDSC 150 and one recommended additional lab science

Teacher Licensure in Secondary/Middle Level Education

Programs are designed to provide professional preparation for teaching in middle and secondary settings.

Licensure is available in the following areas:

Communication Arts and Literature (5-12)
Dance and Theatre Arts with a Theatre Specialization (K-12)
Health (5-12)
Mathematics (5-12)
Music Education
 Instrumental and Classroom Music (K-12)
 Vocal and Classroom Music (K-12)
Physical Education (K-12)
Science (5-8) plus one of:
 Chemistry (9-12)
 Earth and Space Science (9-12)
 Life Science (9-12)
 Physics (9-12)
Social Studies (5-12)
World Languages and Cultures (K-12)
 French
 German
 Spanish

Communication Arts and Literature (5-12)

Co-major in Communication Arts and Literature and a Co-major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Block I

EDUC 210 Education's Place in Society
EDUC 211 Field Experience: Introductory (K-12) (0 credit)
EDUC 212 Human Relations and Multicultural Education

Block II *Praxis I Exam (PPST) required for admission to program*

EDUC 330 Psychology for Teaching and Learning
EDUC 331 Field Experience: Middle Level (5-8) (0 credit)
EDUC 345 Adolescent Literature (2 credits)
EDUC 355 Reading for the 5-12 Teacher

Block III

EDUC 381 Curriculum and Methods for Specific Discipline (5-8) (2 credits)
EDUC 382 Curriculum and Methods for Specific Discipline (9-12) (2 credits)
EDUC 383 Field Experience: Secondary (9-12) (0 credit)

Block IV *Praxis II Exams (PLT & Content Area) required for licensure*

EDUC 456 Inclusive School Communities (2 credits)
EDUC 460 Student Teaching and Seminar (6 credits)
EDUC 461 The Teacher as Educational Advocate

Plus:

- COMM 100 Public Speaking
- COMM 120 Communication Theories and Methods
- COMM 140 Rhetorical Criticism
- COMM 160 Electronic Media Production
- COMM 217 Survey of Communication Disorders
- ENGL 111 Critical Reading and Writing I: Fiction and Nonfiction Prose
- ENGL 112 Critical Reading and Writing II: Drama and Poetry

Note: Qualified students may substitute 190 and an additional upper-level literature course for 111 and 112

- ENGL 300 Theory and Practice of Writing
- ENGL 305 Linguistics: English Language
- ENGL 361 Shakespeare and the Early Modern Period
- ENGL 380 Issues in English Studies

Plus four credits from each of the following areas:

- ENGL 211 or 212 British Authors I or II
- ENGL 214 or 215 American Authors I or II
- ENGL 220 or 221 The Classical Tradition or The Modern Tradition
- ENGL 217 or 218 Multicultural Literature or Literature by Women: Critical History

Plus:

Four additional upper division credits in COMM or ENGL selected in consultation with adviser

Plus:

Demonstrated competence on all required state standards

To complete a major in English, the following courses are required:

The “Four additional upper division credits in COMM or ENGL selected in consultation with adviser” would be an upper division ENGL course (COMM 340, 350, or 440 may be substituted)

To complete a major in Communication, the following courses are required:

Twelve additional upper division COMM credits
 COMM 480 Capstone Course in Communication

Dance and Theatre Arts with a Theatre Specialization (K-12)

Major in Theater and a Co-Major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Block I

- EDUC 210 Education’s Place in Society
- EDUC 211 Field Experience: Introductory (K-12) (0 credit)
- EDUC 212 Human Relations and Multicultural Education

Block II Praxis I Exam (PPST) required for admission to program

- EDUC 330 Psychology for Teaching and Learning
- EDUC 331 Field Experience: Middle Level (5-8) (0 credit)

Block III

- EDUC 355 Reading for the 5-12 Teacher
- EDUC 383 Field Experience: Secondary (9-12)
- THR 375 Methods of Teaching Theater and Dance

Note: This course substitutes for EDUC 381 and 382

Block IV Praxis II Exams (PLT & Content Area) required for licensure

- EDUC 456 Inclusive School Communities (2 credits)
- EDUC 460 Student Teaching and Seminar (6 credits)
- EDUC 461 The Teacher as Educational Advocate

Plus:

- THR 105 Stagecraft
- THR 214 Beginning Acting
- THR 215 Beginning Directing
- THR 221 History of Theater I: Classical through 17th Century
- THR 222 History of Theater II: 18th Century through Contemporary
- THR 223 History of Theater III: American
- THR 231 Dance for Musical Theater
- THR 253 Creative Dramatics
- THR 412 Drama: Theory and Criticism

Plus:

Participation in at least two mainstage productions

School of Education

Health Education (5-12)

Major in Health Education 5-12

Block I

- EDUC 210 Education's Place in Society
- EDUC 211 Field Experience: Introductory (K-12) (0 credit)
- EDUC 212 Human Relations and Multicultural Education

Block II

Praxis I Exam (PPST) required for admission to program

- EDUC 330 Psychology for Teaching and Learning
- EDUC 331 Field Experience: Middle Level (5-8) (0 credit)

Block III

- EDUC 355 Reading for the 5-12 Teacher
- EDUC 369 Field Experience: Primary Level (K-4) (0 credit)
- HLTH 440 Health Education : 5-12 Curriculum Assessment and Administration
- HLTH 450 Health Education: 5-12 Methods, Resources and Partnerships

Note: These courses substitute for EDUC 381 and 382

Block IV

Praxis II Exams (PLT & Content Area) required for licensure

- EDUC 456 Inclusive School Communities (2 credits)
- EDUC 460 Student Teaching and Seminar (6 credits)
- EDUC 461 The Teacher as Educational Advocate

Plus:

- BIOL 101 General Biology
- HLTH 345 Nutrition for Health and Fitness
- HLTH 350 Personal Health and Wellness
- HLTH 353 Consumer, Community and Environmental Health
- HLTH 375 Lifelong Stress Management (2 credits)
- HLTH 400 Epidemiology
- HLTH 462 Human Sexuality Education
- HLTH 464 Critical Issues in Health Education
- PHED 410 Human Anatomy and Physiology

Plus one of:

- PSY 111 General Psychology
- SOC 100 Introduction to Sociology

Plus one of:

- CHEM 100 Chemistry in our World
- CHEM 101 Environmental Chemistry

Plus one of:

- COMM 100 Public Speaking
- COMM 105 Communication in the Workplace

Recommended:

- PSY 200 Psychology of Infancy and Childhood
- PSY 203 Psychology of Adolescence

Plus:

Demonstrated competence on all required state standards

Mathematics 5-12

Major in Mathematics and a Co-major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Block I

- EDUC 210 Education's Place in Society
- EDUC 211 Field Experience: Introductory (K-12) (0 credit)
- EDUC 212 Human Relations and Multicultural Education

Block II

Praxis I Exam (PPST) required for admission to program

- EDUC 330 Psychology for Teaching and Learning
- EDUC 331 Field Experience: Middle Level (5-8) (0 credit)

Block III

- EDUC 355 Reading for the 5-12 Teacher
- EDUC 381 Curriculum and Methods for Specific Discipline (5-8) (2 credits)
- EDUC 382 Curriculum and Methods for Specific Discipline (9-12) (2 credits)
- EDUC 383 Field Experience: Secondary (9-12) (0 credit)

Block IV

Praxis II Exams (PLT & Content Area) required for licensure

- EDUC 456 Inclusive School Communities (2 credits)
- EDUC 460 Student Teaching and Seminar (6 credits)
- EDUC 461 The Teacher as Educational Advocate

Plus:

MATH	113	Calculus I (or 108-109)
MATH	114	Calculus II
MATH	200	Multi-Variable Calculus
MATH	210	Linear Algebra and Differential Equations
MATH	301	Abstract Algebra I
MATH	317	Real Analysis
MATH	325	Geometry
MATH	450	Advanced Mathematics: Exploration and Exposition
QMCS	230	Software Design Using the JAVA Language

Plus at least one of:

MATH	302	Abstract Algebra II
MATH	385	Mathematical Methods of Numerical Analysis
MATH	400	Dynamical Systems and Chaos
MATH	419	Complex Variables
MATH	420	Topology

Plus either:

MATH	303	Statistics for the Applied Sciences and one additional MATH course numbered 300 or above
	<i>or</i>	
MATH	313	Probability and 314 Mathematical Statistics

Plus:

Demonstrated competence on all required state standards

Music Education

Music Education: Instrumental and Classroom Music K-12

Major in Music Education

Block I

EDUC	210	Education's Place in Society
EDUC	211	Field Experience: Introductory (K-12) (0 credit)
EDUC	212	Human Relations and Multicultural Education

Block II *Praxis I Exam (PPST) required for admission to program*

EDUC	330	Psychology for Teaching and Learning
EDUC	331	Field Experience: Middle Level (5-8) (0 credit)

Block III

EDUC	260	Elementary Classroom Music Pedagogy
EDUC	360	Secondary Classroom Music Pedagogy

Note: These courses substitute for EDUC 381 and 382

EDUC	369	Field Experience: Primary Level (K-4) (0 credit)
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Block IV *Praxis II Exams (PLT & Content Area) required for licensure*

EDUC	456	Inclusive School Communities (2 credits)
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See note below about completion of licensure in Plan B

Plus:

EDUC	214	Teaching Techniques Woodwind Instruments I (2 credits)
EDUC	216	Teaching Techniques Woodwind Instruments II (2 credits)
EDUC	218	Teaching Techniques Brass Instruments (2 credits)
EDUC	220	Teaching Techniques Percussion Instruments (2 credits)
EDUC	222	Teaching Techniques String Instruments I (2 credits)
EDUC	224	Teaching Techniques String Instruments II (2 credits)

Plus:

MUSC	112	Introduction to Music (students testing out of 112 take 115)
MUSC	113	Theory I
MUSC	212	Theory II
MUSC	213	Theory III
MUSC	312	Theory IV
MUSC	351	Introduction to Conducting (2 credits)
MUSC	353	Instrumental Conducting
MUSC	411	History and Literature of Music I
MUSC	412	History and Literature of Music II
MUSN		See ensemble participation under the Major in Music in the department section of this catalog
MUSP	102 or 103	Skills for Piano Proficiency (0 credit)
MUSP	2xx	Six semesters of performance studies in the same performance medium (12 credits)
MUSR	200	Piano Proficiency (0 credit)

School of Education

MUSR	270	Level I Recital (0 credit)
MUSR	350	Level II Recital (0 credit)
PHYS	105	Musical Acoustics

Plus:

An additional eleven credits taken in Graduate Education (Plan B) complete licensure. These credits may apply towards a master's degree.

MUS	516	Developing the Child Voice
MUS	561	Teaching World Music
TEGR	660	Student Teaching and Seminar
TEGR	661	Circles of Advocates for Assessment III
TEGR	662	The Teacher as Education Advocate

Plus:

Demonstrated competence on all required state standards

Music Education: Vocal and Classroom Music K-12

Major in Music Education

Block I

EDUC	210	Education's Place in Society
EDUC	211	Field Experience: Introductory (K-12) (0 credit)
EDUC	212	Human Relations and Multicultural Education

Block II *Praxis I Exam (PPST) required for admission to program*

EDUC	330	Psychology for Teaching and Learning
EDUC	331	Field Experience: Middle Level (5-8) (0 credit)

Block III

EDUC	260	Elementary Classroom Music Pedagogy
EDUC	360	Secondary Classroom Music Pedagogy

Note: These courses substitute for EDUC 381 and 382

EDUC	369	Field Experience: Primary Level (K-4) (0 credit)
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Block IV *Praxis II Exams (PLT & Content Area) required for licensure*

EDUC	456	Inclusive School Communities (2 credits)
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See note below about completion of licensure in Plan B

Plus:

EDUC	226	The Woodwind Family in Classroom Teaching (2 credits)
EDUC	228	The Brass and Percussion Families in Classroom Teaching (2 credits)
EDUC	230	The String Family in Classroom Teaching (2 credits)
EDUC	362	Teaching Techniques for Voice

Plus:

MUSC	112	Introduction to Music (students testing out of 112 take 115)
MUSC	113	Theory I
MUSC	212	Theory II
MUSC	213	Theory III
MUSC	312	Theory IV
MUSC	351	Introduction to Conducting (2 credits)
MUSC	352	Choral Conducting
MUSC	411	History and Literature of Music I
MUSC	412	History and Literature of Music II
MUSN	142, 160	Chamber Singers, Concert Choir (minimum of six semesters)
MUSN	143	Liturgical Choir (maximum of two semesters)
MUSP	102 or 103	Skills for Piano Proficiency (0 credit)
MUSP	2xx	Six semesters of performance studies in the same performance medium (12 credits)
MUSR	200	Piano Proficiency (0 credit)
MUSR	270	Level I Recital (0 credit)
MUSR	350	Level II Recital (0 credit)
PHYS	105	Musical Acoustics

Plus:

Four credits of MUSP 133 (1/2 hour lesson) if voice is not principal instrument

Plus:

An additional eleven credits taken in Graduate Education (Plan B) complete licensure. These credits may apply towards a master's degree.

MUS	516	Developing the Child Voice (2 credits)
MUS	561	Teaching World Music (2 credits)
TEGR	660	Student Teaching and Seminar

- TEGR 661 Circles of Advocates for Assessment III
 TEGR 662 The Teacher as Education Advocate

Plus:

Demonstrated competence on all required state standards

Physical Education (K-12)

Major in Physical Education

Block I

- EDUC 210 Education's Place in Society
 EDUC 211 Field Experience: Introductory (K-12) (0 credit)
 EDUC 212 Human Relations and Multicultural Education
Block II Praxis I Exam (PPST) required for admission to program
 EDUC 330 Psychology for Teaching and Learning
 EDUC 331 Field Experience: Middle Level (5-8) (0 credit)

Block III

- EDUC 369 Field Experience: Primary Level (K-4) (0 credit)
 PHED 204 Physical Education Methods for Elementary School
 PHED 304 Physical Education Methods for Middle School
 PHED 404 Physical Education Methods for Secondary School
 PHED 405 Physical Education Methods for Teaching Aquatics/First Aid

Note: These courses substitute for EDUC 381 and 382

Block IV Praxis II Exams (PLT & Content Area) required for licensure

- EDUC 456 Inclusive School Communities (2 credits)
 EDUC 460 Student Teaching and Seminar (6 credits)
 EDUC 461 The Teacher as Educational Advocate

Plus:

- BIOL 101 General Biology
 HLTH 350 Personal Health and Wellness
 PHED 104 Physical Education Curriculum, Instruction, and Assessment
 PHED 215 Rhythms and Dance (2 credits)
 PHED 311 Motor Development (2 credits)
 PHED 351 Teaching of the Special Needs Student (2 credits)
 PHED 410 Human Anatomy and Physiology
 PHED 420 Kinesiology
 PHED 431 Exercise Physiology (2 credits)
 PSY 111 General Psychology
 SOC 100 Introduction to Sociology

Plus:

Demonstrated competence on all required state standards

Science (5-8) plus Chemistry (9-12)

Co-major in Science – Chemistry and a Co-major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Block I

- EDUC 210 Education's Place in Society
 EDUC 211 Field Experience: Introductory (K-12) (0 credit)
 EDUC 212 Human Relations and Multicultural Education
Block II Praxis I Exam (PPST) required for admission to program
 EDUC 330 Psychology for Teaching and Learning
 EDUC 331 Field Experience: Middle Level (5-8) (0 credit)
 EDUC 355 Reading for the 5-12 Teacher

Block III

- EDUC 381 Curriculum and Methods for Specific Discipline (5-8) (2 credits)
 EDUC 382 Curriculum and Methods for Specific Discipline (9-12) (2 credits)
 EDUC 383 Field Experience: Secondary (9-12) (0 credit)

Block IV Praxis II Exams (PLT & Content Area) required for licensure

- EDUC 456 Inclusive School Communities (2 credits)
 EDUC 460 Student Teaching and Seminar (6 credits)
 EDUC 461 The Teacher as Educational Advocate

Plus:

- BIOL 101 General Biology
 CHEM 111 General Chemistry I
 CHEM 112 General Chemistry II

School of Education

CHEM 201	Organic Chemistry I
CHEM 202	Organic Chemistry II
CHEM 300	Quantitative Analysis
CHEM 320	Instrumental Analysis
CHEM 331	Chemical Thermodynamics and Reaction Dynamics
CHEM 332	Quantum Chemistry and Molecular Spectroscopy
CHEM 391	Research
CHEM 440	Biochemistry I
CHEM 481	Seminar (1 credit)
CHEM 484	Seminar (1 credit)
GEOL 111	Introductory Physical Geology <i>or one of</i> GEOL 110, 113, 114, 115
MATH 113	Calculus I
MATH 114	Calculus II
PHYS 104	Astronomy
PHYS 111	Introduction to Classical Physics I
PHYS 112	Introduction to Classical Physics II

Plus:

Demonstrated competence on all required state standards

To complete a major in Chemistry (B.A.), the following courses are required:

CHEM 320	Instrumental Analysis
CHEM 482	Seminar (0 credit)
CHEM 483	Seminar (0 credit)

Plus:

Eight additional credits from the list above

or

Eight credits from the B.A. Major Field Optional Courses List (see Department of Chemistry)

Science (5-8) plus Earth and Space Science (9-12)

Co-Major in Science – Earth and Space Science and a Co-Major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Block I

EDUC 210	Education's Place in Society
EDUC 211	Field Experience: Introductory (K-12) (0 credit)
EDUC 212	Human Relations and Multicultural Education

Block II *Praxis I Exam (PPST) required for admission to program*

EDUC 330	Psychology for Teaching and Learning
EDUC 331	Field Experience: Middle Level (5-8) (0 credit)
EDUC 355	Reading for the 5-12 Teacher

Block III

EDUC 381	Curriculum and Methods for Specific Discipline (5-8) (2 credits)
EDUC 382	Curriculum and Methods for Specific Discipline (9-12) (2 credits)
EDUC 383	Field Experience: Secondary (9-12) (0 credit)

Block IV *Praxis II Exams (PLT & Content Area) required for licensure*

EDUC 456	Inclusive School Communities (2 credits)
EDUC 460	Student Teaching and Seminar (6 credits)
EDUC 461	The Teacher as Educational Advocate

Plus one of:

GEOL 111	Introductory Physical Geology
GEOL 113	The Earth's Record of Climate
GEOL 114	The Science of Natural Disasters
GEOL 115	Environmental Geology

Plus:

BIOL 201	Diversity and Adaptation
CHEM 111	General Chemistry I
CHEM 112	General Chemistry II
GEOL 211	Mineralogy
GEOL 252	Earth Surface Processes and Geomorphology
GEOL 260	Regional Geology and Field Methods
GEOL 320	Sedimentology and Stratigraphy
GEOL 340	Fundamentals of the Lithosphere I (Petrology)
GEOL 360	Fundamentals of the Lithosphere II (Structural Geology)
GEOL 430	Advanced Earth History

PHYS 101 Physics as a Liberal Art
 PHYS 104 Astronomy

Plus either:

MATH 113 Calculus I

or

MATH 108 Calculus with Review I

and

MATH 109 Calculus with Review II

Plus:

Demonstrated competence on all required state standards

To complete a major in Geology, the following is required:

Four additional GEOL credits numbered 200 or above

Science (5-8) plus Life Science (9-12)

Co-Major in Science – Life Science with Co-Major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Block I

EDUC 210 Education's Place in Society

EDUC 211 Field Experience: Introductory (K-12) (0 credit)

EDUC 212 Human Relations and Multicultural Education

Block II Praxis I Exam (PPST) required for admission to program

EDUC 330 Psychology for Teaching and Learning

EDUC 331 Field Experience: Middle Level (5-8) (0 credit)

EDUC 355 Reading for the 5-12 Teacher

Block III

EDUC 381 Curriculum and Methods for Specific Discipline (5-8) (2 credits)

EDUC 382 Curriculum and Methods for Specific Discipline (9-12) (2 credits)

EDUC 383 Field Experience: Secondary (9-12) (0 credit)

Block IV Praxis II Exams (PLT & Content Area) required for licensure

EDUC 456 Inclusive School Communities (2 credits)

EDUC 460 Student Teaching and Seminar (6 credits)

EDUC 461 The Teacher as Educational Advocate

Plus:

BIOL 201 Diversity and Adaptation

BIOL 202 Genetics and Population Biology

BIOL 204 Cellular and Molecular Biology

BIOL 206 Global Ecology (2 credits)

CHEM 111 General Chemistry I

CHEM 112 General Chemistry II

CHEM 201 Organic Chemistry I

GEOL 111 Introductory Physical Geology *or one of* GEOL 110, 113, 114, 115

PHYS 104 Astronomy

Plus:

Sixteen additional BIOL credits in courses numbered 200 or above, chosen in consultation with an adviser

Plus:

Demonstrated competence on all required state standards

To complete a major in Biology, the following courses are required:

Six additional BIOL credits numbered 200 or above

Plus one of:

MATH 303 Statistics for the Applied Sciences

QMCS 220 Statistics I

Plus at least two of the following selected in consultation with the departmental adviser:

CHEM 202 Organic Chemistry II

MATH 109 Calculus with Review II *or* MATH 113 Calculus I

PHYS 109 General Physics I *or* PHYS 111 Introduction to Classical Physics I

School of Education

Science (5-8) plus Physics (9-12)

Co-major in Science – Physics plus a Co-Major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Block I

- EDUC 210 Education's Place in Society
- EDUC 211 Field Experience: Introductory (K-12) (0 credit)
- EDUC 212 Human Relations and Multicultural Education

Block II *Praxis I Exam (PPST) required for admission to program*

- EDUC 330 Psychology for Teaching and Learning
- EDUC 331 Field Experience: Middle Level (5-8) (0 credit)
- EDUC 355 Reading for the 5-12 Teacher

Block III

- EDUC 381 Curriculum and Methods for Specific Discipline (5-8) (2 credits)
- EDUC 382 Curriculum and Methods for Specific Discipline (9-12) (2 credits)
- EDUC 383 Field Experience: Secondary (9-12) (0 credit)

Block IV *Praxis II Exams (PLT & Content Area) required for licensure*

- EDUC 456 Inclusive School Communities (2 credits)
- EDUC 460 Student Teaching and Seminar (6 credits)
- EDUC 461 The Teacher as Educational Advocate

Plus:

- CHEM 111 General Chemistry I
- CHEM 112 General Chemistry II
- ENGR 350 Introduction to Electronics
- GEOL 111 Introductory Physical Geology *or one of* GEOL 110, 113, 114, 115
- MATH 113 Calculus I
- MATH 114 Calculus II
- MATH 200 Multivariable Calculus
- MATH 210 Linear Algebra and Differential Equations
- PHYS 104 Astronomy
- PHYS 111 Introduction to Classical Physics I
- PHYS 112 Introduction to Classical Physics II
- PHYS 225 Introduction to Modern Physics I
- PHYS 226 Introduction to Modern Physics II
- PHYS 300 Seminar I (1 cr.)
- PHYS 301 Seminar II (1 cr.)
- PHYS 323 Methods of Experimental Physics
- QMCS 230 Software Design Using the Java Language

Plus:

Four additional credits in PHYS courses other than 101

Plus either:

- BIOL 101 General Biology
or the three-course sequence
- BIOL 201 Diversity and Adaptation
- BIOL 202 Genetics and Population Biology
- BIOL 204 Cellular and Molecular Biology

Plus:

Demonstrated competence on all required state standards

To complete a major in Physics (B.A.), two of the following courses are required:

- PHYS 105 Musical Acoustics
- PHYS 331 Theoretical Mechanics
- PHYS 341 Electricity and Magnetism
- PHYS 342 Electromagnetic Waves
- PHYS 347 Optics
- PHYS 410 Statistical Mechanics and Thermodynamics
- PHYS 431 Quantum Mechanics
- PHYS 494 Research
- PHYS 498 Individual Study

Social Studies (5-12)

Co-Major in Social Studies with a Co-Major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Mega (HIST), program coordinator

Block I

- EDUC 210 Education's Place in Society
- EDUC 211 Field Experience: Introductory (K-12) (0 credit)
- EDUC 212 Human Relations and Multicultural Education

Block II Praxis I Exam (PPST) required for admission to program

- EDUC 330 Psychology for Teaching and Learning
- EDUC 331 Field Experience: Middle Level (5-8) (0 credit)
- EDUC 355 Reading for the 5-12 Teacher

Block III

- EDUC 381 Curriculum and Methods for Specific Discipline (5-8) (2 credits)
- EDUC 382 Curriculum and Methods for Specific Discipline (9-12) (2 credits)
- EDUC 383 Field Experience: Secondary (9-12) (0 credit)

Block IV Praxis II Exams (PLT & Content Area) required for licensure

- EDUC 456 Inclusive School Communities (2 credits)
- EDUC 460 Student Teaching and Seminar (6 credits)
- EDUC 461 The Teacher as Educational Advocate

Plus:

- ENVR 151 Humans and the Environment
- POL 105 Politics and Government in Comparative Perspective
- PSY 111 General Psychology
- SOC 100 Introduction to Sociology
- SOC 301 General Anthropology

Plus one of:

- ECON 101 The American Economy
- ECON 211 Current Economic Issues
- ECON 251 Principles of Macroeconomics

Plus one of:

- HIST 111 Origins of the Modern World to 1550
- HIST 112 The Modern World Since 1550

Plus one of:

- HIST 113 Early America in Global Perspective
- HIST 114 The Modern U.S. in Global Perspective

Plus one of:

- HIST 210 Modern Latin America, 1800 to the Present
- HIST 220 Introduction to Japanese History and Culture
- HIST 340 Foundations of Chinese Civilization
- HIST 341 The History of Modern China
- HIST 345 Family and Women in Chinese History
- HIST 347 The Modernization of Taiwan, Hong Kong, and China

Plus one of:

- GEOG 111 Human Geography
- GEOG 113 World Regional Geography

Plus:

Twenty-four additional credits in courses in one of the social science disciplines (economics, geography, history, political science, psychology, or sociology). Choice of these courses are subject to the approval of the department involved.

Plus:

Demonstrated competence on all required state standards

To complete a major in one of the Social Science disciplines, contact the chair of the department.

School of Education

World Language and Cultures Education (K-12)

Students wishing to be licensed grades K-12 in World Language and Cultures in the state of Minnesota must demonstrate advanced level speaking proficiency in English and the target language as defined in the American Council on the Teaching of Foreign Languages (ACTFL) Proficiency Guidelines.

Major in French, German, or Spanish with a Co-Major in Secondary Education

Note: A Co-major cannot be a stand-alone major.

Block I

- EDUC 210 Education's Place in Society
- EDUC 211 Field Experience: Introductory (K-12) (0 credit)
- EDUC 212 Human Relations and Multicultural Education

Block II *Praxis I Exam (PPST) required for admission to program*

- EDUC 330 Psychology for Teaching and Learning
- EDUC 331 Field Experience: Middle Level (5-8) (0 credit)
- EDUC 355 Reading for the 5-12 Teacher

Block III

- EDUC 369 Field Experience: Primary Level (K-4) (0 credit)
- EDUC 380 Curriculum and Methods for Specific Discipline (K-12)

Block IV *Praxis II Exams (PLT & Content Area) required for licensure* Oral Proficiency Exam required for Student Teaching

- EDUC 456 Inclusive School Communities (2 credits)
- EDUC 460 Student Teaching and Seminar (6 credits)
- EDUC 461 The Teacher as Educational Advocate

Plus one of the languages:

French

28 credits numbered FREN 300 and above with a minimum of six credits in each of the following areas:
Oral and Written Language
Culture/Civilization
Literature

German

28 credits numbered GER 300 and above with a minimum of six credits in each of the following areas:
Oral and Written Language
Culture/Civilization
Literature

Plus:

HIST Four credits in modern European history

Spanish

28 credits numbered SPAN 300 and above with a minimum of six credits in each of the following areas:
Oral and Written Language
Culture/Civilization
Literature

Plus:

SPAN A course in Hispanic linguistics

Plus (for all languages):

Demonstrated competence on all required state standards

210 Education's Place in Society

Designed to critically analyze the place of education in today's rapidly changing society. Assists students in recognizing the similarities and differences in the major philosophical positions and evaluating their impact on current educational practice. Focuses on understanding the historic and social perspectives of education.

Prerequisite: Sophomore standing and concurrent registration with 211

211 Field Experience: Introductory (K-12)

0 credit

This is a Pass/No Pass 30-hour guided, reflective, in-school field experience intended to allow students to explore the professional realities of schools and education. Participation in this field experience requires a Minnesota Criminal Background check.

212 Human Relations and Multicultural Education

Designed to engage teachers in a dialogue concerning the issues of cultural diversity in schools, its impact on the learning process and the construction of human relations. Emphasis will be placed on an education that is multicultural, gender fair, and disability aware. It examines issues such as racism, sexism, oppression, prejudice, and

discrimination. The course aims to equip the participants with pedagogic practices and instructional techniques that respond to social conflicts and stresses within the classroom and that will enable them to create productive learning situations for all students. This course fulfills the Human Diversity requirement in the core curriculum. Prerequisite: Sophomore standing

214 Teaching Techniques for Woodwind Instruments I **2 credits**

The teaching-techniques courses are designed to acquaint the prospective instrumental teacher with the fundamental principles underlying the correct playing of wind, percussion and string instruments. Basic concepts important in teaching others to play these instruments are stressed. The uses and merits of a variety of method books are discussed as they pertain to lesson and unit planning. Solo and ensemble literature also are covered. Students will learn how to select instruments, mouthpieces and other equipment appropriate for elementary and secondary instrumental pupils. Offered fall semester in odd-numbered years.

216 Teaching Techniques for Woodwind Instruments II **2 credits**

Offered spring semester in even-numbered years.

218 Teaching Techniques for Brass Instruments **2 credits**

Offered fall semester in even-numbered years.

220 Teaching Techniques for Percussion Instruments **2 credits**

Offered spring semester in odd-numbered years.

222 Teaching Techniques for String Instruments I **2 credits**

Offered fall semester in odd-numbered years.

224 Teaching Techniques for String Instruments II **2 credits**

Offered spring semester in even-numbered years.

226 The Woodwind Family in Classroom Teaching **2 credits**

The families courses are designed to acquaint the student with the general principles involved in playing and caring for the various instruments. Emphasis is on the application of this information to classroom and choral situations. Students are expected to achieve an elementary level of competence in playing selected instruments. Offered spring semester in odd-numbered years.

228 The Brass & Percussion Families in Classroom Teaching **2 credits**

Offered spring semester in even-numbered years.

230 The String Family in Classroom Teaching **2 credits**

Offered fall semester in even-numbered years.

260 Elementary Classroom Music Pedagogy

This course introduces contemporary elementary music pedagogy to prospective music educators. Both content and method will be addressed in this course as students learn to design a curriculum that includes specific objectives and teaching strategies to help students master those goals. Specific media including the child voice, movement, recorder, and Orff instruments are used to address the diversity of cultures as well as learning styles and developmental stages present in each class. Artistic teaching and learning of culturally sensitive material are stressed at all levels by faculty members who themselves teach children. EDUC 260 and 360 fulfill the Block III requirement. Offered fall semester in odd-numbered years.

295, 296 Topics **2 credits**

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

330 Psychology for Teaching and Learning

This course integrates psychological principles with strategies for effective instruction. Prospective K-12 teachers explore the scientific knowledge base that underlies good teaching practices; they learn to apply the principles of educational psychology to their own learning and future teaching through reading, discussion, classroom simulations, school observations and micro-teaching demonstrations.

Prerequisite: 210 and concurrent registration with 331

331 Field Experience: Middle Level (5-8) **0 credit**

This is a Pass/No Pass 15 hour guided, reflective, in-school field experience intended to introduce students to middle level settings and level students. This experience introduces the middle level as a pedagogical bridge between the elementary and the secondary learner. Participation in this field experience requires a recent Minnesota Criminal Background check.

345 Adolescent Literature **2 credits**
Survey of contemporary literature for adolescents; exploration of ways in which this literature meets the reading interests and needs of adolescents; emphasis on developing familiarity with literature read by adolescents; methods and programs to stimulate reading interests and practices.
Prerequisite: 210

350 Language Development, Literacy, and Literature I **16 credits**
This course is Part I of a two-course literacy block designed to introduce the pre-service teacher to the theory and practice of elementary curriculum and instruction in the areas of reading, language arts, and children's literature. Campus and elementary school experiences will emphasize the importance of teaching in an integrated manner to students of diverse socio-economic backgrounds and cultures. The course will present developmentally appropriate practice for kindergarten, primary, and intermediate grades, the current knowledge base of research, and recommendations for professional development. As the introductory course in literacy, it will focus on language development and literacy processes as a foundation for understanding curricular development in and applications for literacy in the elementary classroom.
Prerequisites: 210 and 212

355 Reading for the 5-12 Teacher
This course is designed to explore how teachers can assist students to more easily deal with content area reading materials to include textbooks, written directions, newspapers, graphs/charts/maps, and manuals; and at the same time to encourage positive attitudes toward reading and writing in content areas.

360 Secondary Classroom Music Pedagogy
Students in this course will learn to design middle- and senior-high-school curricula that include, but are not limited to, performance opportunities. Participation in small ensembles for voices and instruments will be augmented by guitar study as means for developing music literacy. Music literature, history, and theory will be approached from a participatory perspective; students will learn how to use the material as a resource for individual creative work that speaks to the diversity of environments and cultures represented in today's classrooms. EDUC 260 and 360 fulfill the Block III requirement. Offered spring semester in even-numbered years.

362 Teaching Techniques for Voice **2 credits**
Students will study the structure and function of the mouth, the nasopharyngeal cavity, the larynx and the breathing mechanism as these relate to the acoustical principles governing the human voice, including the psychology and the aesthetics involved in singing. The uses and merits of a variety of methods and exercises are discussed as they pertain to studio and classroom use. Solo and ensemble literature appropriate for young singers also are covered. Includes teaching individuals and groups, observation of master teachers, and journaling. Offered fall semester in even-numbered years.

369 Field Experience: Primary Level (K-4) **0 credit**
This is a Pass/No Pass a 100 hour guided, reflective, in-school field experience at the primary level. Intended to serve as a pre-student teaching experience, it includes lesson design, whole group instruction, classroom management, student assessment, and instructional reflection. Participation in this field experience requires a recent Minnesota Criminal Background check.

370 Language Development, Literacy, and Literature II
This course is Part II of a two-course literacy block designed to introduce the pre-service teacher to the theory and practice of elementary curriculum and instruction in the areas of reading, language arts, and children's literature. Campus and elementary school experiences will emphasize the importance of teaching in an integrated manner to students of diverse socio-economic backgrounds and cultures. The course will present developmentally appropriate practice for kindergarten, primary, and intermediate grades, the current knowledge base of research and recommendations for professional development. This second course in the literacy block will extend the foundations in language, literacy and children's literature presented in the initial course to classroom applications in composing processes (writer's workshop), assessment/evaluation, content area reading, and interdisciplinary instruction. The course includes field-based experiences.
Prerequisites: 210, 212, 330 and 350 plus unconditional admission to the teacher education program; concurrent registration with 331, 371, 372, 373, and 374

371 Teaching Mathematics and Technology
This course is designed to prepare teachers who will effectively engage learners with mathematics and technology. Emphasis is on developmentally appropriate practice for a range of learners in kindergarten, primary and intermediate grades; curriculum content and sources; performance based assessment strategies; connections with community resources; national and state standards; lesson and unit planning; and curriculum and technology integration. The course includes field-based experiences.
Prerequisites: 210, 212, 330 and 350 plus unconditional admission to the teacher education program; concurrent registration with 370, 372, 373, and 374

372 Teaching Science and Healthy, Active Living

This course is designed to prepare teachers who will effectively engage learners with science and help them have the skills for lifelong healthy, active living. Emphasis is on developmentally appropriate practice for a range of learners in kindergarten, primary and intermediate grades; curriculum content and sources; instructionally based assessment strategies; connections with community resources; national and state standards; lesson and unit planning; and curriculum and technology integration. The course includes field-based experiences.

Prerequisites: 210, 212, 330 and 350 plus unconditional admission to the teacher education program; concurrent registration with 370, 371, 373, and 374

373 Teaching Social Studies and Fine Arts

This course provides an overview of the social studies and fine arts for the elementary teacher that develops a civic and cultural awareness respectful of human diversity. National and state standards, unit and lesson planning, instructional resources and technology, teaching and assessment strategies, and curriculum integration are addressed. The course includes field-based experiences.

Prerequisites: 210, 212, 330 and 350 plus unconditional admission to the teacher education program; concurrent registration with 370, 371, 372, and 374

374 Seminar in Middle Level Concentration Area

0 credit

Students will participate in a series of guided classroom and field experiences designed to meet the Minnesota middle level competencies for K-6 pre-service teachers in their chosen 5-8 area of academic concentration. Emphasis is on developmentally appropriate practice for a range of learners in grades 5 through 8, expanding the content, curriculum, and instructional strategies students gain through their K-6 methods courses. Age appropriate performance based assessment strategies; connections with community resources; national and state standards; lesson and unit planning; and curriculum and technology integration will be covered.

Prerequisites: 210, 212, 330 and 350 plus unconditional admission to the teacher education program; concurrent registration with 370, 371, 372, and 373

- 01 Communication Arts and Literature (5-8)
- 02 Mathematics (5-8)
- 03 Science (5-8)
- 04 Social Studies (5-8)
- 05 World Languages and Cultures (K-8)

380 Curriculum and Methods for Specific Discipline (K-12)

This course is designed to prepare teachers who will effectively engage learners with the curriculum of a specific licensure area. Emphasis is on developmentally appropriate practice for a range of learners in grades K through 12, curriculum content and sources; performance based assessment strategies; connections with community resources; national and state standards; lesson and unit planning; and curriculum and technology integration. The course includes a clinical experience.

Prerequisites: 210, 212, 330, plus unconditional admission to the teacher education program; concurrent registration with 383

381 Curriculum and Methods for Specific Discipline (5-8)

2 credits

This course is designed to prepare teachers who will effectively engage learners with the curriculum of a specific licensure area. Emphasis is on developmentally appropriate practice for a range of learners in grades 5 through 8, curriculum content and sources; performance based assessment strategies; connections with community resources; national and state standards; lesson and unit planning; and curriculum and technology integration. The course includes a clinical experience.

Prerequisites: 210, 212, 330, plus unconditional admission to the teacher education program; concurrent registration with 382 and 383

- 01 Communication Arts and Literature
- 02 Mathematics
- 03 Science
- 04 Social Studies
- 05 Theater and Dance

382 Curriculum and Methods for Specific Discipline (9-12)

2 credits

This course is designed to prepare teachers who will effectively engage learners with the curriculum of a specific licensure areas. Emphasis is on developmentally appropriate practice for a range of learners in grades 9 through 12, curriculum content and sources; instructionally based assessment strategies; connections with community resources; national and state standards; lesson and unit planning; and curriculum and technology integration. The course includes a clinical experience.

Prerequisites: 210, 212, 330, plus unconditional admission to the teacher education program; concurrent registration with 381 and 383

- 01 Communication Arts and Literature
- 02 Mathematics
- 03 Science
- 04 Social Studies
- 05 Theater and Dance

School of Education

383 Field Experience: Secondary (9-12) 0 credit
This is a Pass/No Pass a 30 hour guided, reflective, in-school field experience at the secondary level. Intended to serve as a pre-student teaching experience, it includes lesson design, whole group instruction, classroom management, student assessment, and instructional reflection. Participation in this field experience requires a recent Minnesota Criminal Background check.

456 Inclusive School Communities 2 credits
Provides an overview of students identified as gifted/talented, students with disabilities (learning disabilities, mental retardation, emotional/behavioral disabilities, and sensory and physical impairments), etiology, and appropriate interventions for exceptional students. Also, current issues and research in the field of exceptionality (legal rights, integration, best practices) are also discussed.
Prerequisite: PPST

460 Student Teaching and Seminar 6 credits
As the culminating experience of the teacher licensure program, student teaching provides the opportunity for students to apply their knowledge and skills of teaching and learning in a classroom setting. Accompanying seminars assist students to reflect upon the experience and to increase their repertoire of strategies for dealing with topical, relevant issues. Student teaching, along with the companion course Teacher as Educational Advocate, is a full-time, full-semester commitment under the supervision of university and school-based professionals. Students seeking licensure in multiple fields may require additional credits and time in the classroom.
Prerequisites: Senior status; unconditional admission to the teacher education program; satisfactory completion of all education courses in Blocks I, II, and III; submission of Multicultural Experience form; a recent Minnesota Criminal Background check; plus satisfactory completion of all licensure-related content courses; plus admission to student teaching, and concurrent registration with 456, 461.

- 01 (K-8)
- 02 (5-12)
- 03 (K-12)

461 The Teacher as Educational Advocate
A capstone course designed to prepare teachers who will effectively collaborate to advocate for strong educational institutions and for students. The course emphasizes connections with families and communities, including strategies for working with students and families for whom English is not the primary language, and skill development in communication and teacher leadership. Includes a portfolio presentation by each teacher candidate as the culminating experience.
Prerequisites: Acceptance into Education program; completion of Blocks I, II and III; senior status; concurrent registration with 456, 460

462 Student Teaching and Seminar Dual License Extended Term 10 credits
This student teaching section is intended for students seeking licensure in multiple fields or grade ranges requiring additional credits and time in the classroom. As the culminating experience of the teacher licensure program, student teaching provides the opportunity for students to apply their knowledge and skills of teaching and learning in a classroom setting. Accompanying seminars assist students to reflect upon the experience and to increase their repertoire of strategies for dealing with topical, relevant issues. Student teaching, along with the companion course Teacher as Educational Advocate, is a full-time, full-semester commitment under the supervision of university and school-based professionals.
Prerequisites: Satisfactory completion of all education courses in Blocks I, II, and III, plus unconditional admission to the teacher education program, plus admission to student teaching, senior status; concurrent registration with 456, 461

483, 484 Seminar 2 credits
485, 486 Seminar
See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics 2 credits
489, 490 Topics
The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research 2 credits
493, 494 Research
See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 Individual Study 2 credits
497, 498 Individual Study
See the description of these courses at the beginning of the "Curricula" section of this catalog.

Special Education (SPUG)

M. Brown, director, Melloy, Ryan, Vandercook, Wolfe

405 Basic Skills Instruction: Mild/Moderate Handicaps (SPED 705)

Research supported instructional interventions and progress monitoring strategies emphasizing practical knowledge, theoretical foundations and classroom skills for the instruction of students with mild/moderate handicaps in the basic skills: reading, written expression, spelling and mathematics.

Prerequisite: Permission of the chair

414 Collaboration Skills for School Professionals (SPED 714)

The purpose of this course is to develop an ethic of collaboration and the knowledge and skills needed to effectively collaborate with faculty, administrators, paraprofessionals, students, families, and community members. Students will explore the fundamentals of collaboration; applications of collaboration related to consultation, interagency agreements, team membership, staff development, and co-teaching; and the pragmatic aspects of collaboration. Students will have the opportunity to develop the personal and interpersonal skills necessary to be an effective collaborative partner in meeting diverse students needs.

450 Survey of Exceptionality (SPED 750)

Provides an overview of special education and specific categories of exceptionality. Examines the theories, legal mandates, definitions and terminology related to special education. Characteristics of individuals with exceptionalities are explored. These include but are not limited to: gifted and talented, learning disabilities, emotional and behavioral disorders, developmental disabilities, sensory disabilities, early childhood special education, speech and language disorders.

452 Fundamentals of Emotional and Behavioral Disorders (SPED 752)

Provides an introduction to the dynamics of emotional and behavioral disorders, their effect on students' education, legal responsibilities of schools, and collaboration among schools and other agencies who serve these youth. Theories, definitions, and characteristics within the context of school, family, and community settings will be discussed.

453 Fundamentals of Developmental Disabilities (SPED 753)

To learn about students with developmental disabilities. These are students with a broad range of cognitive impairments and deficits in adaptive behavior. Most recently these have been individuals who have been identified as having mental retardation or mental impairments. This course will focus upon definition, etiology, prevention, assessment, characteristics, programming, family issues, inclusion, collaboration, transition and other current issues related to persons with cognitive or developmental disabilities.

478 Fundamentals of Preschoolers (SPED 778)

This course is designed to provide a foundation for working with preschoolers and their families in early childhood and early childhood special education programs. Emphasis is placed on early childhood typical and atypical development, developmentally appropriate practice, and developing curriculum that is functional, appropriate, adaptable and fun. Curriculum units are created that enhance child development and are adapted for children with a variety of disabilities.

485 Behavior Management (SPED 785)

This course explores the idea of positive behavior support for promoting acceptable behavior in school and other settings where youth learn. This course, grounded in research-based interventions, is designed to assist all who work with students in special and regular education in developing skills to teach and support acceptable behavior that will be demonstrated in home, school and community settings.

486 Fundamentals of Learning Disabilities (SPED 786)

Theoretical and practical knowledge about the field of learning disabilities. This course emphasizes school-based definitions, criteria, characteristics, and etiology, as well as community and family support systems. It includes an analysis of current trends at the local, state, and national levels for students with learning disabilities.

School of Engineering

School of Engineering (ENGR)

Bennett (interim director), Abraham, George, Greene, Hennessey, Jalkio, Mowry, Zell, Zimmerman
Faculty from other departments and adjunct faculty from industry teach specialized courses.

The University of St. Thomas offers five tracks in engineering:

- A program in electrical engineering
- A program in mechanical engineering
- A dual degree program in mechanical engineering and business
- A pre-engineering program
- A minor in engineering

The mechanical and electrical engineering curricula combine the study of basic sciences, general engineering, design and mechanical or electrical engineering with the study of the liberal arts. Emphasis is placed on applied engineering. Our mission states: "We provide a practical, values-based learning experience that produces well-rounded, innovative engineers and technology leaders who have the technical skills, passion and courage to make a difference."

Students graduating with a major in either mechanical or electrical engineering will meet the program objectives and outcomes designed to exceed the requirements of the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology's (ABET) *Engineering Criteria 2000*. These are a comprehensive set of criteria designed to provide graduates with the technical, ethical, attitudinal and communications skills required to be a productive contributor to society and to aggressively seek life-long learning experiences. These program objectives and outcomes are designed to provide the graduate with a foundation for clear thinking and expression in a balanced liberal arts educational program. Graduates will demonstrate competence in a variety of skills that enhance their ability to solve problems in diverse ways to meet the needs of the global community. Graduates will also develop teamwork and communication skills while gaining a comprehensive understanding of the design process and engineering systems.

Graduates will be prepared for direct entry into an engineering position in industry or for advanced study in graduate school.

Degree in Electrical Engineering (B.S.E.E.)

The bachelor of science in electrical engineering (B.S.E.E.) curriculum includes courses in circuits and electronics, signal processing and control system design, digital electronics and microprocessors, and electromagnetic fields and waves with a focus on embedded system design. The electrical engineering programs is academically rigorous, complemented with a full liberal arts curriculum.

Program outcomes and objectives may be found on the Website: www.stthomas.edu/engineering.

Students must have completed ENGR 230 to be admitted to the major.

150	Introduction to Engineering (0 credit)
151	Introduction to Engineering Design (1 credit)
230	Digital Design
240	Circuit Analysis
330	Design with Microprocessors I
331	Design with Microprocessors II
340	Signals and Systems
342	Electromagnetic Fields and Waves
345	Electronics I
346	Electronics II
410	Control Systems and Automation
431	Design of Embedded Systems
480	Engineering Design Clinic I
481	Engineering Design Clinic II

Plus four credits from the following:

ENGR 219	Case Studies in Engineering (2 credits)
ENGR 220	Engineering Mechanics I
ENGR 225	Kinematics and Mechanism Design (2 credits)
ENGR 326	Fuel Cell Engineering (2 credits)
ENGR 328	Fuel Cell Engineering
ENGR 361	Engineering Materials
ENGR 381	Thermodynamics
ENGR 498	Individual Study
PHYS 226	Introduction to Modern Physics II
PHYS 347	Optics
QMCS 281	Object-Oriented Design and Programming

Or other courses approved by the dean

Allied requirements

MATH	113	Calculus I
MATH	114	Calculus II
MATH	200	Multi-Variable Calculus
MATH	210	Linear Algebra and Differential Equations
MATH	303	Statistics for the Applied Sciences
PHYS	111	Introduction to Classical Physics I
PHYS	112	Introduction to Classical Physics II
PHYS	225	Introduction to Modern Physics I
PHYS	341	Electricity and Magnetism
QMCS	230	Software Design Using the JAVA Language

Degree in Mechanical Engineering (B.S.M.E.)

The bachelor of science in mechanical engineering (B.S.M.E.) is an applied engineering program, blending theory and research with practical engineering fundamentals. The program is academically rigorous, complemented with a full liberal arts curriculum. The mechanical engineering curriculum provides a foundation in: theoretical and applied mechanics, materials, electrical-electronic fundamentals, computer-aided design, automation systems, thermodynamics, heat transfer/fluid flow, manufacturing processes and practical design. The B.S.M.E. program is accredited by the Engineering Accreditation Commission (EAC) of ABET. Program outcomes and objectives may be found on the Website: www.stthomas.edu/engineering.

Students must have completed ENGR 171 and 220 to be admitted to the major.

150	Introduction to Engineering (0 credit)
151	Introduction to Engineering Design (1 credit)
171	Engineering Graphics
220	Engineering Mechanics I
221	Engineering Mechanics II
320	Machine Design and Synthesis
350	Introduction to Electronics
361	Engineering Materials
371	Manufacturing Processes
381	Thermodynamics
382	Heat Transfer and Fluid Flow
410	Control Systems and Automation
480	Engineering Design Clinic I
481	Engineering Design Clinic II

Plus eight credits from the following:

219	Case Studies in Engineering (2 credits)
225	Kinematics and Mechanism Design (2 credits)
326	Fuel Cell Engineering (2 credits)
328	Fuel Cell Engineering
385	Thermal Design (2 credits)
420	Rapid Product Realization
430	Applications of Thermodynamics
440	Design with Plastics
450	Vibration and Control Theory
460	Engineering Economics and Project Management
470	Fundamentals of Mechatronic Engineering I
498	Individual Study

Allied requirements

CHEM	111	General Chemistry I
MATH	113	Calculus I
MATH	114	Calculus II
MATH	200	Multi-Variable Calculus
MATH	210	Linear Algebra and Differential Equations
MATH	303	Statistics for the Applied Sciences
PHYS	111	Introduction to Classical Physics I
PHYS	112	Introduction to Classical Physics II
QMCS	230	Software Design Using the JAVA Language

School of Engineering

Dual Degree in Mechanical Engineering (B.S.M.E.) and General Business Management (B.A.)

The dual degree program in Mechanical Engineering and General Business Management is designed for students with an interest in both engineering and business. The program combines the applied engineering concepts of mechanical engineering with knowledge of the financial, marketing and management disciplines of the business program. Students in this dual program will have skills to prepare them for a wide variety of opportunities in industry or advanced graduate education. The dual degree program requires approximately five years to complete. Upon completion, students receive a B.A. degree in Business Administration and a B.S.M.E. degree accredited by EAC of ABET.

150	Introduction to Engineering (0 credit)
151	Introduction to Engineering Design (1 credit)
171	Engineering Graphics
220	Engineering Mechanics I
221	Engineering Mechanics II
320	Machine Design and Synthesis
350	Electrical Engineering Principles
361	Engineering Materials
371	Manufacturing Processes
381	Thermodynamics
382	Heat Transfer and Fluid Flow
410	Control Systems and Automation
480	Engineering Design Clinic I
481	Engineering Design Clinic II

Plus:

eight credits of ENGR electives

Plus:

ACCT	205	Introduction to Accounting
BUS	200	Community Service (0 credit)
BUS	201	Ethics and Practice: Foundations of Business
FINC	321	Financial Management
MGMT	301	Management of Organizations and Processes
MGMT	480	Integrative Issues of Businesses and Organizations
MKTG	300	Principles of Marketing

Plus one of:

BLAW	301	Legal Environment of Business
BLAW	303	International Business Law

Allied requirements

CHEM	111	General Chemistry
COMM	105	Communications in the Workplace
ECON	251	Principles of Macroeconomics
ECON	252	Principles of Microeconomics
MATH	113	Calculus I
MATH	114	Calculus II
MATH	200	Multi-Variable Calculus
MATH	210	Linear Algebra and Differential Equations
MATH	303	Statistics for the Applied Sciences
PHYS	111	Introduction to Classical Physics I
PHYS	112	Introduction to Classical Physics II
QMCS	230	Software Design Using the JAVA Language

Pre-Engineering

See Pre-Professional Programs in Cross-College Courses and Programs

Minor in Engineering

The engineering minor is designed for students with majors in the sciences, mathematics, quantitative methods, and business. This minor serves those who plan to go on to graduate school in engineering and those entering business and industry. The engineering minor offers the opportunity to explore the field of engineering and provides an understanding of the technology of products and processes. It also strengthens pre-med and pre-law candidates who intend to pursue specialized areas such as biomechanics or patent law.

150	Introduction to Engineering (0 credit)
151	Introduction to Engineering Design (1 credit)
171	Engineering Graphics
230	Digital Design

Plus eight credits from the following:

219	Case Studies in Engineering
220	Engineering Mechanics I
221	Engineering Mechanics II
300	Manufacturing Management Systems
320	Machine Design and Synthesis
326	Fuel Cell Engineering (2 credits)
328	Fuel Cell Engineering
350	Introduction to Electronics
361	Engineering Materials
381	Thermodynamics
382	Heat Transfer and Fluid Flow
410	Control Systems and Automation

150 Introduction to Engineering **0 credit**

This course introduces students to engineering fields, practicing engineers and hands-on engineering work. As they become acquainted with engineering occupations and experience their potential for creativity and fun, students will understand the value and applications of the required curriculum and be motivated and stimulated to pursue further engineering studies.

151 Introduction to Engineering Design **1 credit**

This course focuses on design as the central activity of engineering. Students learn a disciplined approach to design through case studies and open ended design experiences.

Prerequisite: 150

171 Engineering Graphics

Students will learn to read blueprints and working drawings and become familiar with computer-aided design (CAD) terminology and technology. Topics cover the elements of drafting including: the use of CAD modern software based on solid modeling; principles of projection; and introductory methods of representation and constructive geometry, working drawings, conventions and standards.

219 Case Studies in Engineering **2 credits**

This course will introduce applications of the finite-element method for the solution of real-world problems. Commercial software (such as ANSYS) will be used to model structural, thermal, electro-magnetic, and fluid flow problems. Students will be introduced to "case studies" in engineering and the applied-sciences. Students will learn the art of FEA modeling and will present their findings in written reports.

Prerequisite: sophomore standing

220 Engineering Mechanics I

Principles of statics and dynamics including such topics as equilibrium, friction, distributed forces, work, kinetics of particles and rigid bodies, and vibrations.

Prerequisites: 151, 171, MATH 114 and PHYS 111

221 Engineering Mechanics II

Principles of deformable body mechanics including stress, strain, basic loading situations, transformations of stress and strain, beam theory, and energy methods.

Prerequisite: 220

225 Kinematics and Mechanism Design **2 credits**

Analysis and design of linkages and other mechanisms including geometry of motion and force distributions. Computer aided analysis and design tools are used as well as mathematical techniques.

Prerequisite: 220

230 Digital Design

Introduction to the design of digital logic. Topics include Boolean logic, design and optimization of combinational and sequential logic, the use of programmable logic devices, logic hazards, electronic implementation of logic gates. Students will be expected to specify, design, simulate, construct, and test digital circuits and document all phases of the process.

240 Circuit Analysis

Introduction to linear circuit analysis and basic electronic instrumentation. Students will learn linear models of passive components and sources as well as how real components depart from those models. Circuit analysis techniques including nodal and mesh analysis, equivalence theorems and computer simulation will be covered. Laplace transform techniques will be used to examine sinusoidal steady state and transient circuit behavior.

Prerequisites: PHYS 112 and concurrent registration with or prior completion of MATH 210

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

320 Machine Design and Synthesis

Focus is on advanced mechanics topics, failure theories (static and dynamic), and on an understanding of basic machine components. This course will develop the student's creative skills in conceptualizing machines to meet performance criteria by means of a design project. Machine designs will require the understanding and use of machine components such as springs, screws, bearings, basic 4-bar linkages, cams, and gears. Finally, a number of mini-labs/workshops on topics that support the design project such as dynamic analysis software, machine component design, and design for manufacture are given.

Prerequisite: 221 and MATH 210

326 Fuel Cell Engineering

2 credits

A discovery-oriented class focused on fuel cell technology. Fuel cell types and their safety, cost and operation are examined. Time is spent on hydrogen generation, storage and distribution. The class examines how to collect new information, analyze it, and express an educated opinion about an emerging technology. Class time includes hands-on laboratories, as well as student-led discussion. The two-credit class does not require a formal design of experiment, and requires preparation for only one student-led lecture.

Prerequisite: Junior standing or consent of instructor

328 Fuel Cell Engineering

A discovery-oriented class focused on fuel cell technology. Fuel cell types and their safety, cost and operation are examined. Time is spent on hydrogen generation, storage and distribution. The class examines how to collect new information, analyze it, and express an educated opinion about an emerging technology. Class time includes hands-on laboratories and projects as well as student-led discussion. The four-credit option requires a formal design of experiment and preparing for more than one student-led lecture.

Prerequisite: Junior standing or consent of instructor

330 Design with Microprocessors I

Introduction to computer architecture and assembly language programming. Topics include I/O and memory addressing modes, communication and bus protocols, A/D and D/A conversion, interrupts and common micro-controller peripherals. Tradeoffs between architectures and design approaches will be discussed.

Prerequisites: 230 and QMCS 230

331 Design with Microprocessors II

A continuation of 330.

Prerequisite: 330

340 Signals and Systems

To develop an understanding of the analysis of systems using Laplace, Fourier, and Z transforms, and an understanding of frequency domain characteristics, state space concepts, and modulation.

Prerequisites: 240 and MATH 210

342 Electromagnetic Fields and Waves

A continuation of PHYS 341. An introduction to the practical consequences of Maxwell's equations including propagation, reflection and absorption of electromagnetic waves. Applications include antennas, waveguides, transmission lines, and shielding from electromagnetic interference.

Prerequisite: PHYS 341

345 Electronics I

Analysis of electronic devices and circuits. Topics include linear and non-linear models of electronic devices, feedback and circuit design techniques. Applications include amplifiers, demodulation, oscillators, logic implementation.

Prerequisites: 240 and PHYS 225

346 Electronics II

Continuation of 345.

Prerequisite: 345

350 Introduction to Electronics

This course provides scientists and engineers with a background in electronics and electronic instrumentation. Topics include DC and AC circuit analysis, frequency response, filters, feedback, operational amplifiers, semiconductor devices, power supplies, oscillators, logic gates, codes for numbers and symbols, combinational and sequential digital logic design, timing, transducers, and analog-digital conversion. The course consists of lecture, demonstration, discussion, and laboratory.

Prerequisite: A minimum grade of C- in PHYS 112

361 Engineering Materials

An introduction to materials and their properties. This course introduces students to the fundamentals of materials theory, properties and applications. Topics include properties and applications of metals, polymers, ceramics and composite materials. The course emphasizes characteristics of materials in manufacturing operations and service, including open-ended design issues.

Prerequisites: 221 and CHEM 111

371 Manufacturing Processes

Provides an understanding of the fundamental technologies of manufacturing processes. This course covers such basic principles of manufacturing processes as metal forming, metal cutting, plastic molding and continuous processes. Students receive hands-on experience with modern production equipment and participate in factory tours.

Prerequisite: 361

381 Thermodynamics

A study of thermal and mechanical energy and their applications to technology. First law of thermodynamics (energy conservation); second law of thermodynamics (restrictions on energy transformations). Thermophysical properties of substances. Power producing devices and heat pumping devices. Humidity, dew point and other characteristics of non-reacting mixtures. Reacting mixtures (combustion of fuels).

Prerequisite: PHYS 111

382 Heat Transfer and Fluid Flow

Modes of heat transfer: convection, conduction, and radiation. Coupling of convective heat transfer with fluid flow. Fundamentals of fluid flow: statics, boundary layers, pipe flows, pressure drop, and friction factor. Convective heat transfer at external surfaces and internal surfaces. Fluid-to-fluid heat exchangers and their design. Conduction in solids of various shapes; use of heat-conducting fins to improve the performance of heat exchangers. Radiation heat transfer between surfaces.

Prerequisite: 381

385 Thermal Design**2 credits**

Design of systems where the transfer of heat and/or the attainment of specific temperature levels are critical to the function of the system. Applications include heat exchangers, thermal climate control devices and a focused case study.

Prerequisite: 382

410 Control Systems and Automation

An introduction to the scope of control systems in manufacturing and their implementation. The course focuses on analog and binary control loop theory, the use of transforms (Laplace and Z) to describe and solve analog control systems, and the use of Boolean algebra to describe and solve binary control systems. Simulation is emphasized as an important tool for plant design, layout and optimizing manufacturing methods.

Prerequisites: 340 or 350, MATH 210, QMCS 230

420 Rapid Product Realization

Provides a basic understanding of computer-aided design and manufacturing (CAD/CAM) systems in modern manufacturing operations. Topics covered include solid modeling, computer simulation, and implementation of CAD/CAM systems.

Prerequisites: 171 and junior standing

430 Applications of Thermodynamics

Introduction to principle industrial applications of thermodynamics. The course will cover theory of operation and design considerations of these systems as well as examples of thermodynamic engineering design. Topics include heating, ventilation, and air conditioning systems (HVAC), engines, and turbomachinery.

Prerequisite: 382

431 Design of Embedded Systems

Advanced interfacing and programming of microprocessor systems. Applications include machine control, digital signal processing, and real time communications. Students will design microprocessor based systems as part of this course.

Prerequisite: 331

440 Design with Plastics

The student will learn about the most common plastic compositions in industry along with their respective applications; understand the difference between injection and vacuum molding and what to look for using either; be able to match plastics with molding technology; learn about environmental and recycling issues surrounding the plastics industry.

Prerequisites: 171 and 361

School of Engineering

450 Vibration and Control Theory

This course offers fundamentals in the theory of vibrations and control of mechanical systems. The topics related to vibration include undamped and damped free vibration, forced vibration or continuous systems. The topics related to control theory include modeling of dynamic systems (mechanical, electrical, hydraulic, pneumatic and thermal), analysis of continuous time and discrete time systems, feedback control systems, and graphical design methods.

Prerequisite: 410

460 Engineering Economics and Project Management

A practical look at the daily activities (including cost analysis and scheduling) and challenges of project managers in an engineering setting including the future supply and demand of critical materials. Significant time will be devoted to personnel related topics such as conflict resolution, time management and leadership.

Prerequisite: Junior standing

470 Fundamentals of Mechatronic Engineering

Introduction to basic electronic devices and microprocessor systems for measurement and control; electronic circuits; amplifiers; filters; logic gates and sequential logic applications: A/D and D/A conversion and interfacing; transducers; controllers; motors and actuators; microprocessor fundamentals and programming; data acquisition and feedback control.

Prerequisite: 410

475, 476 Experiential Learning

2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the "Curricula" section of this catalog.

480 Engineering Design Clinic I

Serves as the first capstone course. Student design teams, under the direction of a faculty coordinator, will develop engineering solutions to practical, open-ended design projects conceived to demonstrate the value of prior basic science and engineering courses. Ethical, social, economic and safety issues in engineering practice will be considered as well.

Prerequisites: 410 and MATH 303, plus either (320, 371 and 382), or (331 and 346)

481 Engineering Design Clinic II

The final capstone course for the application of previously learned engineering principles to the solution of real problems in an actual industrial setting. Student design teams will work under the direction of faculty advisers and industry liaisons. Opportunity will be provided for objective formulation, analysis, synthesis/build and evaluation/test of alternative solutions.

Prerequisite: 480

483, 484 Seminar

2 credits

485, 486 Seminar

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics

2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research

2 credits

493, 494 Research

See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 Individual Study

2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the "Curricula" section of this catalog.



School of Social Work (SOWK)

Shank (dean), Thornton (undergraduate program director), Andrews, Baboila, Bauer, Berger, Brenden, Bogucki, Canfield, Caron, Chovanec, Dziengel, Freeman, Furman, Garrett, Gearity, Graham, Hanley, Herman, Holcomb, C. Hollidge, E. Hollidge, Holloway, Kaiser, Kuechler, McPartlin, Miller, Parnell, Rottenberg, Stolz, Tinucci, Young

A major in social work is available through a joint School of Social Work at both the College of St. Catherine and the University of St. Thomas. The major also is offered in Weekend College at the College of St. Catherine.

Students graduating with a major in social work will be prepared to begin generalist professional practice with individuals, families, small groups, organizations and communities. They will be prepared to develop an identity which will incorporate the values and ethics of the social work profession. They will be prepared for practice with diverse, oppressed and at-risk populations. They will be prepared as beginning social work generalists who link social research and social service practice. They will be prepared for lifelong learning and critical thinking through an educational process combining a liberal arts foundations with professional social work education. They will be prepared for graduate education in social work.

Transfer students must be in social work courses for a minimum of three semesters, excluding summer sessions.

The program described below is accredited by the Council on Social Work Education at the baccalaureate level and qualifies graduates to take the examination for licensure at the licensed social worker level.

Social Work Honor Society

Beta Epsilon, the campus chapter of *Phi Alpha* National Social Work Honor Society, was established at the University of St. Thomas and the College of St. Catherine in 2002. The purpose of this organization is to advance excellence in social work practice and to encourage, stimulate and maintain scholarship of the individual members.

Students become eligible for membership after they have achieved a junior or senior standing, earned a minimum of six semester hours or equivalent in social work, achieved an overall grade point average of 3.25 or above, and a social work grade point average of 3.50 or above.

International Program

Students have an opportunity to study in Mexico in the spring semester of their junior year. This semester-long program will enable students to take all required social work courses as well as study Spanish.

Major in Social Work

- 281 Introduction to Social Work
- 340 Human Behavior and the Social Environment
- 355 Communication and Interviewing Skills
- 375, 376 or 378 Junior Fieldwork in Social Work
- 380 Social Research: Designs and Statistical Applications
- 385 Working with Groups: Theory and Practice
- 391 Social Policy for Social Change
- 401 Generalist Practice with Individuals, Families and Groups
- 402 Generalist Practice for Social Change
- 405, 406 Senior Fieldwork in Social Work

Allied requirements

One of:

- BIOL 105 Human Biology
- BIOL 112C Biology of Women

Plus:

- PSY 111 General Psychology
- PSY 202 Lifespan Development
- SOC 100 Introduction to Sociology

Required Fieldwork Experience

These experiences, arranged by the School of Social Work, provide practical learning in social work agencies, institutions and, or departments to complement the students' academic work through integration of theory and practice.

Junior year:

Two semesters of approximately eight hours per week off campus totaling 200 hours, plus weekly seminar groups on campus. Students should contact their social work adviser during the second semester of their sophomore year so that placement can be discussed.

Senior year:

Two semesters of approximately 15 hours per week off campus totaling 400 hours, plus weekly seminar groups on campus.

School of Social Work

Elective courses

Electives are updated frequently. Visit www.stthomas.edu/socialwork/BSW/descriptions.cfm for a current list of electives.

CDC	300	Introduction to Chemical Dependency
CDC	305	Chemical Dependency and the Family
IDSC	291	The Anatomy of Violence
IDSC	293	Grief, Loss and Coping
IDSC	298	Bahamas Experience
INDI	300C	Social Roots of Personal Stories: Exploring Diversity through Literature
INDI	499C	Multi-Professional Community Work and Learning Semester Abroad – Cuernavaca, Mexico
SOWK	210	Relationships, Intimacy and Sexuality
SOWK	414	School Social Work
SOWK	416	Child Welfare Policy
SOWK	490	Practice with Older Adults and their Families

Admission Process

The School of Social Work requires students to be formally admitted to the major. This process takes place at the middle of the junior year. Prospective majors must have a GPA of 2.25 and be interviewed by faculty of the school. Contact an adviser for more details.

Minor in Social Welfare

A minor in social welfare is available through the joint School of Social Work at The College of St. Catherine and the University of St. Thomas. A minor in social welfare is not accepted by the Council on Social Work Education as preparation for beginning-level generalist social work practice. A minor is offered for the student's own learning in the area of social welfare. Formal application for a minor must be approved by the School of Social Work.

281	Introduction to Social Work
340	Human Behavior and the Social Environment
391	Social Policy for Social Change

Plus two of:

PSY	202	Lifespan Development
PSY	207	Alcohol, Other Drugs and Behavior
SOC	251	Race and Ethnicity
SOC	303	Aging and the Lifecourse
SOWK	380	Social Research: Designs and Statistical Application

(The CT designation beside course numbers indicates the same course is offered at the College of St. Catherine and the University of St. Thomas.)

210CT Relationships, Intimacy and Sexuality

This course addresses three major areas: exploring values and societal influence on relationships, intimacy and sexuality – the influence of culture, religion, family and friends; understanding self-worth, communication patterns and the effect of family and other significant relationships on the development of one's needs/wants in relationships, intimacy and sexuality; discovering the basic attributes, purposes and powers of significant relationships, intimacy and sexuality. Participation in a structured small-group discussion is required. Open to non-majors.

281CT Introduction to Social Work

This course introduces the student to the profession of social work within the context of the social welfare system. It provides an overview of an integrative approach to generalist social work practice which emphasizes intervention on individual, environmental and societal levels. Special emphasis is placed on values, human diversity, social problems and social work fields of practice.

Prerequisites: SOC 100 or PSY 111 or permission of the instructor

295, 296 Topics

2 credits

297, 298 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

340CT Human Behavior and the Social Environment

The primary focus of this course is to provide students with knowledge and understanding of human behavior and development from a social systems approach as affected by biological, cultural, environmental, and psychosocial factors. Emphasis is on the role of individual, family, small group, organization and community in human behavior as related to social work practice. Cultural, ethnic and life-style diversity and their effects on the development of human systems is stressed. This course fulfills the Human Diversity requirement in the core curriculum.

Prerequisites or concurrent registration for majors: 281; PSY 202; and BIOL 105 or 112C; or consent of the instructor

355CT Communication and Interviewing Skills

This course is the first of a four-course practice sequence. The primary focus is on communication theory and skills as applied to social work with individuals, families, small groups, communities and organizations. There is an emphasis on self-awareness, beginning assessment skills and diversity issues. An integrative approach to generalist social work practice provides the context for intervention on individual, environmental and societal levels. Prerequisite or concurrent registration: 281 or consent of the instructor

375, 376, 378CT Junior Fieldwork in Social Work

Junior fieldwork complements the student's academic work through practical experience in a social work agency, institution or department. Under the supervision of an agency field instructor, the student learns beginning social work tasks and functions while applying theory to actual social work situations. Students participate in an on-campus seminar with other junior social work majors while in placement. The placement is 10 hours per week during fall and spring semesters, totaling 200 hours. Fall 378 is only open to students going abroad spring semester. Also offered in Weekend College, with placement during fall and winter trimesters. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisite: 281 or consent of the instructor

380 Social Research: Designs and Statistical Application (INDI 380C)

The purpose of this course is to assist students in gaining knowledge and skill to understand the problems/persons generalist social workers encounter. The goals of the course are to have social -work students understand and be able to apply research methods, techniques, and tools to behavior and the social environment. Application of theory and research techniques, including statistical applications, for evaluating change, needs assessment, assessment of client-system functioning, program evaluation and practice effectiveness. This course fulfills the second-level Computer Competency requirement in the core curriculum.

Prerequisites for majors: 281 and junior status or permission of the instructor

385CT Working with Groups: Theory and Practice

This course is the second of the four-course practice sequence. The primary focus of the course is on the study of human behavior in groups with emphasis on the use of groups in generalist social work practice to accomplish individual, family, organizational and/or community goals. Extensive opportunities to practice the skills necessary to be an effective group member and leader are provided. The effects of diversity on group interaction are stressed.

Prerequisite: 355 or consent of the instructor

391CT Social Policy for Social Change

This course equips students to understand and critically analyze current and past social policies. Policy alternatives are explored with a focus on the values and attitudes as well as the societal, economic and political dynamics from which they originate. Roles and responsibilities of citizens and professionals in formulating and implementing policies responsive to actual social needs are addressed.

Prerequisite: 281 or consent of the instructor

401CT Generalist Practice with Individuals, Families and Groups

This is the third course in the four-part practice sequence. This course prepares students for generalist social work practice with individuals, families and groups in the context of their social environments with emphasis on aspects of diversity. A primary focus is the application of social work knowledge through increased development of skills. The overall goal of the course is integration and application of the stages of the generalist social work method.

Prerequisites: 385; senior major status and concurrent registrations in 405 are required

402CT Generalist Practice for Social Change

This course is a continuation of 401 and the final of four courses in the practice sequence of the social work curriculum. The focus is on the development of intervention methods based on generalist social work knowledge that can be applied to all client systems. A special emphasis is placed on effects of oppression and strategies for social action. A combination of lecture, discussion, experiential learning, and small-group activities provide student with knowledge and skills for client advocacy and social change.

Prerequisites: 401; concurrent registration in 406 is required

405CT Senior Fieldwork in Social Work

Senior fieldwork complements the student's academic work through practical experiences in a social work agency, institution or department. Under the supervision of an agency field instructor, the student learns social work tasks and functions while applying theory to actual social work situations. Students participate in an on-campus seminar with other senior social work majors while in placement. The placement is approximately 15 hours per week during fall and spring semesters, totaling 400 hours. Also offered in Weekend College, with placement in fall and winter trimester.

Prerequisite: Concurrent registration in 401

406CT Senior Fieldwork in Social Work

Prerequisite: Concurrent registration in 402

School of Social Work

414 School Social Work (GRSW 514)

This course examines the school as a social institution which serves to educate and socialize children into American society and the role of the social worker in such a setting. Emphasis is placed on discovering similarities and differences between social work and education values and tasks and the process of integrating social work values into a school setting. Social work with special and at-risk populations is discussed. This course also examines specific handicaps to learning and the role of the social worker in helping students, schools and families adjust to and cope with special needs. Emphasis will be placed on evaluation of social work practice. Interventions with children which fit within a school setting are included. Undergraduate students are expected to spend time working with the instructor outside of class.

Prerequisite: Junior standing

416 Child Welfare Policy (GRSW 516)

This course is designed to give students an overview of important topics in child welfare practice and policy. Students will be asked to examine their own values about orientations toward child welfare, children's rights and responsibilities, the nature of maltreatment, and other issues facing the field today, as they affect diverse families. Additionally, students will be given tools to advocate for children, and an opportunity to exercise new advocacy skills. Offered in spring semester.

475, 476 Experiential Learning 2 credits

477, 478 Experiential Learning

See the description of these courses at the beginning of the "Curricula" section of this catalog.

483, 484 Seminar 2 credits

485, 486 Seminar

See the description of these courses at the beginning of the "Curricula" section of this catalog.

487, 488 Topics 2 credits

489, 490 Topics

The subject matter of these courses will vary from year to year, but will not duplicate existing courses. Descriptions of these courses are available at www.stthomas.edu/registrar/onlineschedule.html.

491, 492 Research 2 credits

493, 494 Research

See the description of these courses at the beginning of the "Curricula" section of this catalog.

495, 496 Individual Study 2 credits

497, 498 Individual Study

See the description of these courses at the beginning of the "Curricula" section of this catalog.

Chemical Dependency Counseling (CDC)

Johnson (director); Hasper

The major in Chemical Dependency Counseling is available through the School of Social Work which is a joint effort between the College of St. Catherine and the University of St. Thomas. The curriculum in the major examines chemical dependency as a chronic and progressive disease. The symptoms of this disease are extensive and adversely affect many areas of the person's state of physical health, psychological wellbeing and sense of spiritual connection. In addition, the person's most significant interpersonal relationships, especially the family relationships, often become characterized by patterns of harmful and reactive interactions. These physical, emotional, spiritual and interpersonal symptoms of the disease can and do respond to specific treatment interventions performed by sensitive and knowledgeable counselors.

Students are prepared to become such counselors by achieving the following outcome goals of the major:

- To develop mastery of a body of specific and essential knowledge pertaining to chemical dependency;
- To be competent in using a variety of clinical and counseling skills;
- To understand and use professional ethics when making clinical decisions;
- To engage in thoughtful self-exploration as a way to integrate one's emerging professional identity with one's personal life experiences.

These outcome goals are the focus of the curriculum in the classroom and in the 880 hours students spend in their clinical internships at local chemical dependency treatment facilities. This combination of theory and hands on experience offers a highly integrated learning environment where students can develop confidence in their abilities to function as professional chemical dependency counselors.

The State of Minnesota has ruled that persons receiving chemical dependency treatment are potential vulnerable adults. Therefore all persons providing treatment services to these persons must pass a criminal background examination. Students must also pass this examination and comply with applicable responsible chemical use protocols before being allowed to register for any clinical internship courses.

Graduates with this major are eligible to apply to the State of Minnesota's Department of Health for the Alcohol and Drug Counselor License. In order to earn this license graduates must pass the evaluation examination process as determined by the Department of Health.

Major in Chemical Dependency Counseling

- 300 Introduction to Chemical Dependency
- 305 Chemical Dependency and the Family
- 335 Interpersonal Counseling Theory and Skills
- 445 Group Therapy and Counselor Self-care
- 465 Cultural and Clinical Issues in Chemical Dependency Counseling
- 470 Clinical Internship 1 (8 credits)
- 480 Clinical Internship 2 (8 credits)

Allied requirements

- PSY 111 General Psychology
- PSY 202 Lifespan Development

Minor in Chemical Dependency Counseling

A minor in Chemical Dependency Counseling is offered by the School of Social Work which is a joint program between the College of St. Catherine and the University of St. Thomas. This minor is designed to benefit students who plan to go into professions dealing with healthcare, human services, criminal justice or education and who want to be able to understand and work more effectively with people who are experiencing chemical use problems. The minor provides students with essential knowledge regarding chemical dependency counseling. This knowledge complies with the State of Minnesota’s Department of Health’s standards regarding specific education on chemical dependency and counseling. Students earning the minor who later wish to apply for the Alcohol and Drug Counselor License will need to complete the two clinical internship courses before they will be eligible to apply for this license.

- 300 Introduction to Chemical Dependency
- 305 Chemical Dependency and the Family
- 335 Interpersonal Counseling Theory and Skills
- 445 Group Therapy and Counselor Self-care
- 465 Cultural and Clinical Issues in Chemical Dependency Counseling

Plus:

- PSY 111 General Psychology
- PSY 202 Lifespan Development

300 Introduction to Chemical Dependency

Students examine theories of etiology, diagnostic criteria, pharmacology concepts, assessment strategies and the treatment continuum of care.

Prerequisite: PSY 111

305 Chemical Dependency and the Family

Students develop knowledge of family system dynamics and how chemical dependency impacts those dynamics. Intervention and treatment implications are explored.

Prerequisite: 300 or permission of instructor

335 Interpersonal Counseling Theory and Skills

Students examine the nature of therapeutic relationships. Professional ethics are highlighted as students practice various interviewing skills that assist clients to gain new and more positive perspectives.

Prerequisite: 300 (may be taken concurrently)

445 Group Therapy and Counselor Self-care

Students develop knowledge of the use of group therapy for the treatment of chemical dependency. Special attention is focused on the use of Yalom’s therapeutic factors. Students are involved in simulated group experiences where they practice assessing group dynamics and using leadership skills. Students also examine the role of the spiritual quest in the recovery from chemical dependency. In addition, students explore the role of authenticity in therapeutic relationships. The use of a variety of self-assessment strategies is designed to help students develop action plans promoting personal authenticity and effective self-care.

Prerequisite: 300

465 Cultural and Clinical Issues in Chemical Dependency Counseling

Students examine the incidence and the effects of chemical dependency on various populations and the therapeutic interventions developed for the treatment of major psychiatric diagnoses that co-occur with chemical dependency. Special focus is directed towards the following groups: African Americans, Hispanic/Latino Americans, deaf and hard-of-hearing Americans, Americans with disabilities, Southeast Asian Americans, Native Americans, women Americans and gay, lesbian, bisexual, transgender Americans. Treatment implications are explored.

Prerequisites: 300, PSY 111 and 202

470 Internship 1

8 credits

Students engage in a 440-hour clinical experience at a chemical dependency treatment facility. Under the supervision of qualified clinical staff, students learn to provide clients with the twelve core functions that make up the role of the chemical dependency counselor. Students participate in regularly scheduled supervision sessions designed by faculty to help them begin developing their professional identities.

Prerequisites: all CDC courses except 480

480 Internship 2

8 credits

Students engage in a 440-hour clinical experience at a chemical dependency treatment facility. They continue to sharpen their client assessment, treatment planning and education skills while developing their capability of delivering a variety of individual and group counseling strategies. In addition, students expand their case management skills by providing timely crisis intervention skills, seeking appropriate consultation, making useful referrals, and working with a more complex caseload of clients. Students participate in regularly scheduled supervision sessions designed by faculty to help process their clinical experiences while focusing their attention on the therapeutic needs of the clients.

Prerequisites: all CDC courses



Organization and Personnel

The legal body that governs the university is the board of trustees. It is the final authority on setting our important policies, on the definition of major goals, and on the preservation of the academic mission. The financial health of the university is one of its chief responsibilities.

The board selects members who have demonstrated their understanding of the purpose of this institution, the commitment it has to higher education, and the unique contribution St. Thomas can make as a Catholic liberal arts university.

The chief executive officer of the university is the president. He is responsible to the board of trustees for the functioning of the university and the administration of its policies. He pre-sides at the meetings of the university faculty, university faculty senate, and the academic council.

Under the direction of the governing board, the president of the university must make sure that adequate means exist for communication, decision-making, and governance.

The president delegates appropriate authority and responsibilities to the faculty, as described in the faculty organization plan, and to various members of the university administration, among them: the executive vice president/chief academic officer who is responsible for all academic units and academic support services; the executive vice president/chief administrative officer who is responsible for the day-to-day administrative operations of the university including fundraising; the vice president for mission; the vice president/rector, responsible for the administration of the Saint Paul Seminary School of Divinity; the vice president for finance and administration; the vice president for student affairs; the vice president for information resources and technologies; and the vice president for university and government relations.

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Directors, Biochemistry Program

To be appointed
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Lily Hwa, Ph.D.
Director, East Asian Studies Program

Steven Hoffman, Ph.D.
Director, Environmental Studies Program

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Chair, Department of Finance

Susan J. Marsnik, J.D.
Chair, Department of Legal Studies in Business

Philip H. Anderson, Ph.D.
Chair, Department of Management

Lorman L. Lundsten, Ph.D.
Chair, Department of Marketing

Janice M. Raffield
Director, M.S. in Accountancy Program

Teresa J. Rothausen, Ph.D.
Interim Director, UST MBA Program

Jamal Al-Khatib, Ph.D.
Director, Small Business Institute

Organization and Personnel

St. Paul Seminary School of Divinity

Bishop Frederick F. Campbell
Rector/Vice President

Jeanne P. McLean, Ph.D.
Academic Dean

School of Education

Miriam Q. Williams, Ph.D.
Dean

Eugene J. Audette, Ph.D., L.P.
Associate Dean

Karen B. Rogers, Ph.D.
Chair, Department of Curriculum and Instruction

Bruce H. Kramer, Ph.D.
Interim Chair, Department of Educational Leadership

John P. Conbere, Ed.D.
Chair, Department of Organization Learning and Development

Michael D. Brown, Ed.D.
Chair, Department of Special Education

David P. Rigoni, Ed.D.
Chair, Department of Teacher Education

School of Engineering

Ronald J. Bennett, Ph.D.
Interim Director

School of Law

Thomas M. Mengler, J.D.
Dean

Neil W. Hamilton, J.D.
Associate Dean

Nora B. Fitzpatrick
Assistant Dean

School of Social Work

Barbara W. Shank, Ph.D.
Dean

Serene B. Thornton, M.S.W.
Director, Undergraduate Programs

Mari Ann Graham, Ph.D.
Director, Graduate Programs

Graduate School of Professional Psychology

Jean Birbilis, Ph.D.
Interim Dean

Graduate Programs in Software

Bhabani Misra, Ph.D.
Acting Director

Academic Support Services

John P. Krebsbach, D.M.A.
Associate Dean for Academic Advising

Linda M. Baughman
Director, Academic Counseling

Kimberly J. Schumann
Director, Enhancement Program – Disability Services

David F. Moore
Director, Reading and Study Skills Center

Robert A. McCluskey
University Registrar

Sarah A. Stevenson, Ph.D.
Director, International Education

Robert J. Riley, Ph.D.
Director, Faculty Development

David F. Steele, Ph.D.
Coordinator, Faculty Grants

Administrative Services

Mark C. Dienhart, Ph.D.
Executive Vice President/Chief Administrative Officer

Charles J. Keffer, Ph.D.
Executive Assistant to the EVP/Chief Administrative Officer

Jane W. Canney
Vice President for Student Affairs

Terrence L. O'Connor
Vice President for Finance and Administration

Samuel J. Levy, Ed.D.
Vice President of Information Resources and Technology

Doug E. Hennes
Vice President for University and Government Relations

To be appointed
Associate Vice President for Human Resources

Stephen A. Hoepfner
Executive Director of Development

Rachel A. Wobschall
Executive Director of Constituent Relations

Kristine M. Aasheim
Executive Director, Institutional Advancement

Student Affairs

Jane W. Canney
Vice President for Student Affairs

Karen M. Lange
Dean of Student Life

Mary Ann Ryan
Executive Director, Campus Life

Victoria A. Svoboda
Associate Dean Orientation/Commuter/Transfer Student Services

Sr. Sharon M. Howell
Assistant Dean & Ombudsperson

James E. Sachs
Assistant Dean, Judicial Affairs

Geraldine M. Rockett, Ph.D., L.P.
Director, Personal Counseling

Brian D. Dusbiber
Director, Life-Work Center

Rachel L. Kittelson
Director, Campus Living

Madonna K. McDermott
Director, Student Health Services

Alice C. Grider
Director, Multicultural Student Services

Deborah M. Knaust
Director, Office of International Student Services

Nessa Kleinglass, Ed.D.
Director, Electronic Student Services

Diane Crist
Director, Career Development

Steven J. Fritz
Director, Athletics and Recreation

Rebecca Swiler
Director, Child Development Center

Finance and Administration

Terrence L. O'Connor
Vice President for Finance and Administration/CFO

Gerald M. Anderley
Associate Vice President for Physical Plant

Bruce Van den Berghe
Associate Vice President of Auxiliary Services

Gary L. Thyen
Associate Vice President and Controller

Michael F. Sullivan, Ph.D.
Chief Investment Officer

Melanie A. Weiss
Director, Purchasing Services

Teresa M. Kohlbeck
Anne C. Reis
Co-Directors, Business Office

Marlene M. Levine
Director, Gainey Conference Center

Thanos J. Zyngas
Director, Bernardi Campus, Rome

Sharon A. Fischer
Director, Minneapolis Campus Services

Information Resources and Technologies

Samuel J. Levy, Ed.D.
Vice President for Information Resources and Technologies

Linda C. Halverson
Associate Vice President and Director, Client Services

Dan R. Gjelten
Director, University Libraries

Randy R. Sauter
Director, Enterprise Project

Elizabeth J. Houle
Director, Web & Media Services

Wayne D. Paske
Director, Information Technology

Dave L. Naugle
Director, Telecommunication

University Relations

Doug E. Hennes
Vice President for University and Government Relations

Jim Winterer
Director, News Service

Greg Hendricks
Director, Alumni Association

William V. Kirchgessner
Executive Director, Marketing Communications

John Hershey
Director, Neighborhood Relations



University Faculty

University Faculty

A

John P. Abraham

Member of Adjunct Faculty in Engineering
2000; B.S.M.E., M.S.E.E., University of Minnesota

Jamal Al-Khatib

Professor of Marketing
2003; B.A., King Abdul Aziz University (Jeddah, Saudi Arabia); M.B.A., Ball State University; Ph.D., University of Mississippi (Oxford)

Susan L. Alexander

Associate Professor of Economics
1981; B.A., Arkansas Polytechnic College; M.A., Ph.D., Southern Methodist University

Denis Allaire

Member of Adjunct Faculty in Music
Studio Instructor in Jazz Voice
1989; A.A., Le Collège d'Enseignement Général et Professionnel de Trois-Rivières (Canada); B.M., M.M., University of Minnesota

Elise L. Amel

Assistant Professor of Psychology
1997; B.A., St. Norbert College; M.A., Ph.D., Purdue University

Young-ok An

Assistant Professor of English
1997; B.A., M.A., Seoul National University (Korea); Ph.D., University of Southern California

Philip H. Anderson

Professor of Management
1977; B.S.B., M.B.A., Ph.D., University of Minnesota

Michael M. Andregg

Member of Adjunct Faculty in Justice and Peace Studies
1991; B.S., Ph.D., University of California (Davis)

Janice L. Andrews

Professor of Social Work
1990; B.A., Augsburg; M.S.W., Washington University; Ph.D., University of Maryland

Cara L. Anthony

Instructor in Theology
2001; B.A., University of Notre Dame; M.A., Jesuit School of Theology at Berkeley

Alexandre Ardichvili

Associate Professor of Education
2004; B.A., University of Tbilisi; Ph.D., Moscow State University; M.B.A., Ph.D., University of Minnesota

Bernard J. Armada

Associate Professor of Communication Studies
1997; B.A., Queens College; M.A., Kent State University; Ph.D., Pennsylvania State University

Lisa Arnold

Member of Adjunct Faculty in Theater
M.A., University of North Dakota

Gary M. Atkinson

Professor of Philosophy
1980; A.B., College of the Holy Cross; Ph.D., Duke University

Eugene J. Audette

Associate Dean, School of Education
Professor of Education
1973; B.A., St. Mary's University (Minnesota); M.A., University of St. Thomas; Ph.D., University of Iowa

B

George V. Baboila

Member of Adjunct Faculty in Social Work
1996; B.S., St. John's University; M.S.W., University of Wisconsin

Carlos A. Badessich

Associate Professor of Spanish
1980; B.A., M.A., Eastern Kentucky University; Ph.D., University of Illinois (Champaign-Urbana)

Carole A. Bagley

Assistant Professor of Quantitative Methods and Computer Science
1985; B.S., Minnesota State University (Mankato); M.A., Ph.D., University of Minnesota

Krystal Banfield

Studio Instructor in Voice
2000; B.M.E., Howard University; M.M., Indiana University

William C. Banfield

Associate Professor of American Cultural Studies
1997; B.A., New England Conservatory of Music; M.T.S., Boston University; D.M.A., University of Michigan

Sergey S. Barabanov

Assistant Professor of Finance
2002; Diploma, Far Eastern National University (Vladivostok, Russia); B.A., M.B.A., Ph.D., Washington State University

Wendy N. Barger

Assistant Professor of Journalism and Mass Communication
2003; B.A., Colorado State University; M.A., University of Montana; Ph.D., University of Oregon

Gordon P. Barnes

Assistant Professor of Philosophy
2000; B.A. University of Tennessee (Chattanooga); M.A.R., Yale Divinity School; Ph.D., University of Wisconsin (Madison)

Timothy P. Barrett

Member of Adjunct Faculty in Theater
1991; B.A., University of St. Thomas; M.A., North Dakota State University

Angeline Barretta-Herman

Associate Vice President for Academic Affairs
Professor of Social Work
1991; B.A., Edinboro State University of Pennsylvania; M.S.W., University of Maryland; M.B.A., Ph.D., Massey University (New Zealand)

Douglas Bass

Assistant Professor of Software Engineering
1999; B.S., Rice University; M.S., Ph.D.,
University of Texas at Dallas

Diane E. Bauer

Field Liaison and Supervisor in Social Work
1998; B.A., Hamline University; M.S.W.,
University of Minnesota

Cynthia J. Becker

Assistant Professor of Art History
2000; B.A., University of New Orleans; M.A.,
Ph.D., University of Wisconsin (Madison)

Heino A. P. Beckmann

Associate Professor of Finance
1986; Cand. jur., Freie Universität Berlin; M.B.A.,
University of Minnesota; M.A., Ph.D., University
of Pennsylvania

Michael O. Bellamy

Professor of English
1979; B.A., John Carroll University; M.A.,
University of Michigan; Ph.D., University of
Wisconsin (Madison)

Ronald J. Bennett

Interim Director, School of Engineering
Associate Professor of Engineering
1986; B.S., University of Wisconsin (Eau Claire);
M.S.Met.E., University of Minnesota; M.B.A.,
University of St. Thomas; Ph.D., University of
Minnesota

Thomas C. Berg

Professor of Law
2002; B.S., Northwestern University; M.A.,
Oxford University; M.A., University of Chicago;
J.D., University of Chicago Law School

Barbara E. Berger

Associate Director of Field Education in Social Work
1985; B.S., Southern Illinois University; M.S.W.,
University of Minnesota

Charlotte Berres

*Director of Field Education, Coordinator of Student
Services, School of Divinity*
1999; B.A., College of St. Catherine; M.Pas.,
University of St. Paul; M.A., M.Div., D.Min.,
University of St. Thomas

Evan J. Bibbee

Assistant Professor of French
2002; B.A., Albion College; M.A., Ph.D.,
Louisiana State University

Rebecca Bilek

Assistant Professor of Chemistry
2002; B.A., Gustavus Adolphus College; Ph.D.,
University of California-Irvine

Jean M. Birbilis

*Interim Dean, Graduate School of Professional
Psychology*
Associate Professor of Professional Psychology
1990; B.S., Oklahoma State University; M.A.,
University of Tulsa; Ph.D., Oklahoma State
University

Shelley A. Blilie

Member of Adjunct Faculty in Physics
1998; B.S., M.S., University of Minnesota

Marsha A. Blumenthal

Professor of Economics
1984; A.B., University of Michigan; Ph.D.,
University of Minnesota

Monica M. Bogucki

Member of Adjunct Faculty in Social Work
1996; B.A., College of St. Catherine; J.D.,
William Mitchell College of Law

Anthony John Borgerding

Assistant Professor of Chemistry
2002; B.S., University of Minnesota (Duluth);
Ph.D., Indiana University

Karen S. Boros

*Distinguished Service Professor of Journalism and Mass
Communication*
2000; B.S., University of Illinois (Champaign-
Urbana)

Heather M. Bouwman

Assistant Professor of English
2001; B.A., Calvin College; A.M., Ph.D.,
University of Illinois (Urbana)

Rev. Ronald J. Bowers

Professor of Canon Law, School of Divinity
1982; B.A., The St. Paul Seminary; J.C.L., J.C.D.,
The Catholic University of America

David C. Boyd

Professor of Chemistry
1989; B.A., St. Olaf College; Ph.D., University of
Minnesota

John F. Boyle

Professor of Theology
1990; A.B., Oberlin College; M.S.L., Pontifical
Institute of Medieval Studies; M.A., Ph.D.,
University of Toronto

Kate G. Boyle

Member of Adjunct Faculty in Professional Psychology
2001; B.A., College of St. Benedict; M.A., Psy.D.,
University of St. Thomas

Bernard V. Brady

Professor of Theology
1988; B.A., Loyola University (Chicago); M.A.,
Ph.D., University of Chicago

Mary M. Brant

Assistant Professor of Professional Psychology
1999; B.S., Central Missouri State University;
M.S., Austin Peay State University; Ph.D.,
University of Wisconsin (Madison)

Mary Ann Brenden

Associate Professor of Social Work
1980; B.S., Cornell University; M.S.W., University
of Minnesota (Duluth)

David P. Brennan

Professor of Marketing
1987; B.S., M.S., Mankato State University;
Ph.D., Kent State University

University Faculty

Daniel G. Brick

Member of Adjunct Faculty in Quantitative Methods and Computer Science

1978; B.A., University of Minnesota

Don J. Briel

Koch Chair in Catholic Studies

Director, Center for Catholic Studies

Associate Professor of Theology

1981; A.B., University of Notre Dame; Licence, Diplôme d'études approfondies, Doctorat en théologie catholique, Université de Strasbourg

M. Carolyn Britton

Senior Member of Adjunct Faculty in Music

Studio Instructor in Piano

1980; B.Mu., Eastman School of Music; M.Mu., Indiana University; D.M.A., University of Minnesota

Angela E. Broeker

Associate Professor of Music

1999; B.M.E., M.M., Indiana University; D.M.A., University of Oklahoma

Joseph M. Brom

Professor of Chemistry

1987; B.S., University of St. Thomas; Ph.D., Iowa State University

Stephen D. Brookfield

Distinguished Professor of Education

1991; B.A., Coventry University (U.K.); M.A., University of Reading (U.K.); Ph.D., University of Leicester (U.K.)

Elizabeth F. Brown

Assistant Professor of Law

2002; B.A., College of William and Mary; M.A., The Johns Hopkins University; J.D., University of Chicago Law School

Michael D. Brown

Associate Professor of Education

1979; B.A., M.B.A., Ed.D., East Texas State University

Robert J. Brown

Professor of Education

1964; B.A., Winona State University; M.A., Ph.D., University of Minnesota

Rachel Brudnoy

Studio Instructor in Oboe

1986; B.S.Educ., University of Minnesota; Freelance professional

Carol J. Bruess

Associate Professor of Communication Studies

1998; B.A., St. Norbert College; M.A., Ph.D., Ohio University

James H. Bruton

Member of Adjunct Faculty in Sociology

1986; B.S., University of Minnesota; M.A., University of St. Thomas

Alan D. Bryan

Associate Professor of Music

Studio Instructor in Voice

1983; B.M., M.M., Colorado State University; D.M.A. Eastman School of Music

Jeanne G. Buckeye

Associate Professor of Management

1984; B.A., St. Cloud State University; M.B.A., Ph.D., University of Minnesota

Kris E. Bunton

Professor of Journalism and Mass Communication

1993; B.A., M.A., University of Missouri; Ph.D., Indiana University

John R. Buri

Professor of Psychology

1976; B.A., Loras College; M.A., Ph.D., Loyola University (Chicago)

Thomas L. Burns

Instructor in Management

1990; B.A., Iona College (New York); M.B.A., University of St. Thomas

Rev. J. Michael Byron

Assistant Professor of Systematic Theology, School of Divinity

1995; B.A., St. John's University; M.Div., St. Paul Seminary; S.T.L., S.T.D., Weston Jesuit School of Theology

C

Joan M. Cady Brownstein

Associate Professor of Education

1990; B.S., University of Minnesota; M.S., Mankato State University; Ed.D., Rutgers University

Melva E. Cain

Laboratory Coordinator in Chemistry

1991; B.S., M.S., South Dakota School of Mines and Technology

Patrick J. Caldie

Member of Adjunct Faculty in Sociology

1989; B.A., University of Wisconsin; M.S., Iowa State University

James P. Callahan

Professor of Music

Studio Instructor in Organ, Piano, Composition

1968; B.A., St. John's University (Minnesota); M.F.A., Ph.D., University of Minnesota

Harlow P. Callander

Assistant Professor of Accounting

1969; B.A., University of St. Thomas; M.B.A., University of Minnesota; C.P.A.

Susan J. Callaway

Associate Professor of English

1996; B.A., University of Wisconsin (Madison); M.A., Brown University; Ph.D., University of Wisconsin (Milwaukee)

Brian C. Campion

Distinguished Service Professor of Management

1998; B.A., University of St. Thomas; B.S., M.D., University of Minnesota School of Medicine

Braden Canfield

Member of Adjunct Faculty in Social Work
1995; B.S., Illinois State University; M.S.W.,
University of Minnesota

Daniel G. Carey

Assistant Professor of Health and Human Performance
1990; B.S., M.A., Ph.D., University of Minnesota

Randel S. Carlock

Opus Chair in Family Enterprise
1990; B.S., M.A., M.B.A., Ph.D., University of
Minnesota

Kathleen Erb Caron

Member of Adjunct Faculty in Social Work
1996; B.A., College of St. Catherine; M.S.W.,
University of Minnesota

Nancy M. Carter

Richard M. Schulze Chair in Entrepreneurship
1997; B.A., University of Nebraska; M.A.,
California State University (Northridge); Ph.D.,
University of Nebraska

William T. Cavanaugh

Associate Professor of Theology
1995; B.A., University of Notre Dame; M.A.,
Cambridge University; Ph.D., Duke University

Heung-Joo Cha

Assistant Professor of Finance
2001; B.B.A., Chonnam National University
(Korea); M.S., Ph.D., University of Houston

Mary Anne Chalkley

Professor of Psychology
1989; A.B., Cornell University; Ph.D., University
of Minnesota

Padmaja N. Challakere

Assistant Professor of English
2002; B.A., M.A., M.Phil., Bangalore University
(India); M.A., Ph.D., Rice University

Susan B. Chaplin

Professor of Biology
1990; A.B., Occidental College; Ph.D., Cornell
University

Maria C. Chavarría-Mendoza

Assistant Professor of Spanish
2002; B.A., Universidad Nacional Mayor de San
Marcos (Perú); M.A., Ph.D., University of
Minnesota

Seehwa Cho

Associate Professor of Education
1995; B.A., M.Ed., Seoul National University
(Korea); Ph.D., University of Wisconsin (Madison)

Chien-Tzu Candace Chou

Assistant Professor of Education
2002; B.A., Fujen Catholic University; M.A.,
Ph.D., University of Hawaii

Michael G. Chovanec

Assistant Professor of Social Work
1996; B.S.W., M.S.W., University of Wisconsin
(Milwaukee); Ph.D., University of Minnesota

Kanishka Chowdhury

Associate Professor of English
1993; B.A., St. Xavier's College, (Calcutta, India);
M.A., Ph.D., Purdue University

Gregory P. Choy

Assistant Professor of English
2002; B.A., University of California (Santa
Barbara); M.A., California Polytechnical State
University (San Luis Obispo); Ph.D., University of
Washington

C. Winston Chrislock

Professor of History
1972; B.A., University of Minnesota; M.A., Ph.D.,
Indiana University

Timothy N. Christy

*Assistant Professor of Journalism and Mass
Communication*
2003; B.A., University of Pittsburgh; M.A.,
Ph.D., University of Tennessee

Sun B. Chung

*Assistant Professor of Quantitative Methods & Computer
Science*
1999; B.A., Seoul National University (Korea);
M.S., Loyola University (Chicago); Ph.D.,
University of Wisconsin

David Clemenson

Assistant Professor of Philosophy
1999; B.S., Portland State University; M.S., M.A.,
University of Wisconsin; Ph.D., Harvard
University; Ph.D., Rice University

Julie P. Close

Assistant Professor of Law
2003; B.A., Northwestern University; J.D.,
University of Michigan

Susan Cochran

Associate Professor of Social Work
1986; B.A., M.S.W., University of Minnesota

Frank J. Coglitore

Associate Professor of Accounting
1982; B.A., Fordham University; M.B.A.
University of Scranton; C.P.A.

Anne N. Cohen

Instructor in Management
1998; B.S., Baldwin Wallace College; M.B.A.,
University of Minnesota

Teresa S. Collett

Professor of Law
2003; J.D., University of Oklahoma College of
Law

Kathryn L. Combs

Professor of Economics
1997; B.A., Washington State University; M.S.,
Ph.D., University of Minnesota

John P. Conbere

Associate Professor of Education
2002; B.A., Brown University; M.Div., Episcopal
Divinity School; M.Ed., Ed.D., University of
Minnesota

University Faculty

Thomas B. Connery

Dean, College of Arts and Sciences
Professor of Journalism and Mass Communication
1982; B.A., M.A., Ohio State University; Ph.D.,
Brown University

Jeffrey S. Cook

Instructor in Communication Studies
2001; B.S., M.A., Minnesota State University
(Mankato)

Pedro J. Córdova, Jr.

Assistant Professor of Spanish
2002; B.A., M.A., Arizona State University;
Ph.D., University of Illinois (Urbana-Champaign)

Catherine A. Cory

Associate Professor of Theology
1991; B.A., College of St. Teresa; M.A., St. John's
University (Minnesota); Ph.D., University of Notre
Dame

Vernon M. Cottles

Senior Member of Adjunct Faculty in Engineering
1987; B.S., M.S., Ph.D., Tulane University

Gregory J. Coulter

Associate Professor of Philosophy
1985; B.A., Magdalen College; M.A., Ph.D.,
Center for Thomistic Studies, University of St.
Thomas (Houston)

Catherine A. Craft-Fairchild

Professor of English
1989; B.A., Canisius College; M.A., Ph.D.,
University of Rochester

John E. Cragan

Professor of Communication Studies
2004; B.A., Northern Illinois University; M.A.,
University of Missouri (Kansas City); Ph.D.,
University of Minnesota

Robert L. Craig

Professor of Journalism and Mass Communication
1994; B.A., M.A., Ph.D., University of Iowa

Jennifer L. Cruise

Professor of Biology
1988; B.S., St. Lawrence University; Ph.D., Duke
University

Kevin E. Cubstead, Captain, USAF

Assistant Professor of Aerospace Studies
2001; B.A., Texas A&M University; M.A., Sam
Houston State University

Rabbi Barry D. Cytron

*Director, Jay Phillips Center for Jewish-Christian
Learning*
*Senior Member of Adjunct Faculty in Theology and
Justice and Peace Studies*
1988; B.S., M.A., Columbia University; M.H.L.,
Rabbinic Ordination, Jewish Theological Seminary
of America (New York); Ph.D., Iowa State
University

D

Mary S. Daugherty

Associate Professor of Finance
1987; B.A., University of St. Thomas; M.B.A.,
Ph.D., University of Minnesota; C.F.A.

Marv A. Davidov

Member of Adjunct Faculty in Justice and Peace Studies
1992; Macalester College; University of Minnesota

Karen L. Davis

Member of Adjunct Faculty in Sociology
2002; B.A., State University of New York,
Brookport; M.A., Ph.D., State University of New
York, Binghamton

Rev. Dennis J. Dease

President of the University
1991; B.A., M.Div., St. Paul Seminary; M.A.,
University of St. Thomas; Ph.D., The Catholic
University of America

Catherine A. Jack Deavel

Assistant Professor of Philosophy
2000; B.A., M.A., Ph.D., Fordham University

Michael J. Degnan

Professor of Philosophy
1980; B.A., University of St. Thomas; M.A.,
Ph.D., University of Minnesota

Michael J. DeJong

Associate Professor of Biology
1984; B.A., University of California (Riverside);
M.S., Ph.D., University of Wisconsin (Madison)

Richard A. DeLyser

*Member of Adjunct Faculty in Quantitative Methods
and Computer Science*
1986; B.S. Michigan State University; M.S.,
University of Minnesota

Julie Ann Derry

Assistant Professor of Health and Human Performance
1999; B.A., M.S., Colorado State University (Fort
Collins); Ed.D., University of Northern Colorado

Mark R. Discher

Assistant Professor of Philosophy
2002; B.A., Wheaton College; M.Div., Fuller
Theological Seminary; M.S.T., Yale University;
Ph.D., Oxford University

Rev. Jerome M. Dittberner

Professor of Systematic Theology, School of Divinity
1970; B.A., M.A., Loyola University (Chicago);
S.T.L. Seraphicum; S.T.D., Pontificia Universitas
Gregoriana

Jayna L. Ditty

Assistant Professor of Biology
2003; B.A., St. Mary's University of Minnesota;
Ph.D., University of Iowa

Douglas P. Dokken

Professor of Mathematics
1985; B.S., Moorhead State University; M.S.,
North Dakota State University; Ph.D., University
of Minnesota

Cristian Domnisoru

Associate Professor of Software Engineering
2003; B.S., M.S., Ph.D., Technical University of Iasi, Romania

Bev Dumas

Member of Adjunct Faculty in Social Work
2002; B.A., M.S.W., University of Minnesota

Roger Dumas

Member of Adjunct Faculty in Music
Studio Instructor in Electronic Music
1987; B.S., University of Minnesota

William Duna

Member of Adjunct Faculty in Music
Studio Instructor in Jazz Piano
1988; A.A., Minneapolis Community College

Laura C. Dunham

Assistant Professor of Entrepreneurship
2003; B.A., Miami University (Ohio); M.B.A., Ph.D., Darden Graduate School of Business Administration, University of Virginia

Bridget A. Duoos

Associate Professor of Health and Human Performance
1995; B.A., St. Olaf College; M.A., Ph.D., University of Minnesota

Donald J. Dziekowicz

Associate Professor of French
1983; A.B., Colgate University; M.A., University of Rochester; Ph.D., Indiana University

Lake E. Dziengel

Field Liaison and Supervisor in Social Work
1997; B.A., College of St. Catherine; M.S.W., University of Minnesota

E

Jay J. Ebben

Assistant Professor of Entrepreneurship
2002; B.S., Marquette University; M.B.A., Ph.D., University of Wisconsin (Madison)

Edmund P. Edmonds

Director of Library, School of Law
Professor of Law
2000; B.A., University of Notre Dame; M.L.S., University of Maryland College of Library and Information Services (College Park); J.D., University of Toledo College of Law

Katherine E. Egan

Associate Professor of Education
1978; B.A., College of St. Catherine; M.Ed., University of North Dakota; Ph.D., Syracuse University

Craig Eliason

Assistant Professor of Art History
2002; B.A., Amherst College; M.A., Ph.D., Rutgers University

Dawn R. Elm

Professor of Management
1989; B.S. Chem. Engr., University of Massachusetts (Amherst); Ph.D., University of Minnesota

Simon K. Emms

Associate Professor of Biology
1996; B.A., Oxford University; M.S., Simon Fraser University; Ph.D., Princeton University

Heid E. Erdrich

Assistant Professor of English
1995; B.A., Dartmouth College; M.A., M.A., The Johns Hopkins University

Jonathan R. Evans

Assistant Professor of Philosophy
2002; B.A., Huntington College; M.A., Northern Illinois University; Ph.D., University of Nebraska (Lincoln)

Michael J. Evers

Professor of Management
1974; B.B.A., M.B.A., Ph.D., University of Minnesota

F

Daniel R. Fairchild

Professor of Economics
1976; B.S., Christian Brothers College (Memphis); M.B.A., Ph.D., Saint Louis University

Katherine M. Faricy

Member of Adjunct Faculty in Music
Studio Instructor in Piano
1977; B.M.E., Oberlin College Conservatory of Music; M.F.A., University of Minnesota

Robert L. Farlow

Associate Professor of Political Science
1985; B.A., University of St. Thomas; M.A., Ph.D., Case Western Reserve University

Rev. Paul F. Feela

Member of Adjunct Faculty in Sacramental Theology and Liturgy, School of Divinity
1982; B.A., University of St. Thomas; M.Div., St. Paul Seminary; M.A., University of Notre Dame

Sonia Feigenbaum

Assistant Professor of Spanish
1997; B.A., M.A., Ph.D., Indiana University

Rev. Peter Feldmeier

Associate Professor of Theology
1990; B.A., Purdue University; M.Div., St. Paul Seminary; M.A., University of St. Thomas; S.T.L., Weston Jesuit School of Theology; Ph.D., Graduate Theological Union (Berkeley)

Thomas J. Fisch

Associate Professor of Sacramental Theology and Liturgy, School of Divinity
1981; B.A., St. Paul Seminary; M.A., University of St. Thomas; M.A., University of Minnesota; M.A. St. John's University (Minnesota); M.A., Ph.D., University of Notre Dame

Thomas L. Fish

Associate Professor of Education
1972; B.S., Lock Haven State College; M.E., University of Delaware; Ed.D., Western Michigan University

University Faculty

Joseph C. Fitzharris

Professor of History

1971; B.A., University of St. Thomas; M.A., University of Minnesota; Ph.D., University of Wisconsin

Thomas E. Flood

Member of Adjunct Faculty in Health and Human Performance

1997; B.A., University of St. Thomas

Cathleen A. Folker

Assistant Professor of Entrepreneurship

2000; B.A., Ambassador College; M.S.B.A., Ph.D., Texas Tech University (Lubbock)

Kerry D. Frank

Associate Professor of Professional Psychology

1989; B.S., McNeese State University; M.Ed., University of Southwestern Louisiana

Peter D. Freeman

Assistant Professor of Social Work

1997; B.A., Tulane University; M.B.A., Keller School of Management; M.S.S.W., University of Wisconsin

Julie Friedline

Assistant Professor of Communication Studies

1996; B.A., St. Ambrose University; M.A., Ph.D., University of Iowa

Erica L. Frisicaro

Assistant Professor of English

2003; B.A., Nazareth College; M.A., Duquesne University; Ph.D., University of Wisconsin (Milwaukee)

Katja C. Fullard

Assistant Professor of German

1999; M.A., Ludwigs-Maximilians-Universität München; Ph.D., University of Florida

Leola E. Furman

Member of Adjunct Faculty in Social Work

2001; B.S., Augsburg College; M.S.W., University of Chicago; Ph.D., Fielding Graduate School

G

Robert L. Gaffney

Instructor in Management

2003; B.A., Macalester College; M.B.A., University of Minnesota

Kendra J. Garrett

Associate Professor of Social Work

1991; B.A., M.S.W., University of Iowa; D.S.W., The Catholic University of America

Carmela J. Garritano

Assistant Professor of English

2002; B.A., University of Notre Dame; M.A., Ph.D., Michigan State University

Jane Garvin

Member of Adjunct Faculty in Music

Studio Instructor in Flute

1999; B.M., M.M., New England Conservatory of Music

Pavel L. Gavrilyuk

Assistant Professor of Theology

2001; B.S. Moscow Institute of Physics and Technology; M.T.S., Ph.D., Southern Methodist University

Anne R. Gearity

Member of Adjunct Faculty in Social Work

1992; B.A., M.S.W., Fordham University; Ph.D., Institute for Clinical Social Work

Alexander M.G. Gelardi

Associate Professor of Accounting

2004; Cert. Ed., University of Keele; M.S., University of Miami (Florida); Ph.D., Arizona State University

Camille M. George

Assistant Professor of Engineering

2002; B.A., University of Chicago; B.S., M.S., University of Illinois (Chicago); Ph.D., University of Minnesota

Matthew J. George

Professor of Music

1991; B.M., Ithaca College; M.M., Southern Methodist University; D.M.A., University of North Texas

Jennifer Gerth

Member of Adjunct Faculty in Music

Studio Instructor in Clarinet

2000; B.A., St. Olaf College; M.M., Northwestern University

Sharon K. Gibson

Assistant Professor of Education

2000; B.S., Cornell University; M.S.W., Ph.D., University of Minnesota

Heidi M. Giebel

Assistant Professor of Philosophy

2002; B.A., St. Norbert College; M.A., Ph.D., University of Notre Dame

Jean E. Giebenhain

Professor of Psychology

1983; B.A., College of St. Catherine; M.A., Ph.D., University of Mississippi

Donald R. Gillies

Assistant Professor of Journalism and Mass Communication

2001; B.A., University of Minnesota; AAR Seminar in Marketing, Harvard University

Bruce P. Gleason

Assistant Professor of Music

1999; B.A., Crown College; B.S., M.A., University of Minnesota; Ph.D., University of Iowa

Bradley W. Glorvigen

Associate Professor of Chemistry

1977; B.A., University of St. Thomas; Ph.D., University of Illinois (Champaign-Urbana)

Darryl R. Goetz

Member of Adjunct Faculty in Professional Psychology

1991; B.A., M.S., North Dakota State University; M.A., University of St. Thomas; Ph.D., University of Minnesota

Carroll L. Gonzo

Distinguished Research Professor of Music Education
2001; M.Mus., Lawrence University; M.Mus.,
Ph.D., University of Wisconsin (Madison)

Kenneth E. Goodpaster

Koch Chair in Business Ethics
Professor of Management
1989; A.B., University of Notre Dame; A.M.,
Ph.D., University of Michigan

Mitchell Gordon

Assistant Professor of Law
2003; B.A., Tufts University; M.A., University of
Minnesota; J.D., University of Minnesota Law
School

Mari Ann Graham

Associate Professor of Social Work
1993; B.S.W., M.S.W., University of Nebraska;
Ph.D., Case Western Reserve University

W. Matthews Grant

Assistant Professor of Philosophy
2002; B.A., Wake Forest University; M.A., Ph.D.,
Fordham University

Charles Melvin Gray

Professor of Economics
1976; B.A., Hendrix College; A.M., Ph.D.,
Washington University (St. Louis)

Adam S. Green

Assistant Professor of Physics
2003; B.A., Gustavus Adolphus College; M.S.,
Ph.D., University of Nebraska – Lincoln

Christopher S. Greene

Assistant Professor of Engineering
2001; B.Sc., University of Colorado; M.S.E.E.,
Ph.D., Massachusetts Institute of Technology

Joan E. Griffith

Member of Adjunct Faculty in Music
Studio Instructor in Double Bass, Guitar, Lute
1990; B.M., University of Missouri (Kansas City)

Janet R. Grochowski

Professor of Health and Human Performance
1977; B.S., University of Wisconsin; M.Ed.,
Ph.D., Ph.D., University of Minnesota

Stephan Grzeskowiak

Assistant Professor of Marketing
2004; Diplom, Westfälische Wilhelms Universität
Munster (Germany); Ph.D., Virginia Polytechnic
Institute and State University

H

Earl H. Hagg

Distinguished Service Faculty in Accounting
1990; B.S., Mankato State University; J.D.,
William Mitchell College of Law; C.P.A.

Joseph M. Hallman

Professor of Theology
1981; B.A., St. Francis Major Seminary; M.A.,
Marquette University; Ph.D., Fordham University

Neil W. Hamilton

Associate Dean for Academic Affairs, School of Law
Professor of Law
2001; B.A., Colorado College; M.A., University of
Michigan; J.D., University of Minnesota Law
School

Thomas W. Hamilton

Associate Professor of Finance
2000; B.S., University of Wisconsin (Madison);
M.S., University of Wyoming; M.S., Ph.D.,
University of Wisconsin (Madison)

Marla J. Hanley

Associate Professor of Social Work
1991; B.A., M.S.W., University of Oklahoma;
Ph.D., Saint Louis University

Jan B. Hansen

Assistant Professor of Education
2002; B.S., St. Cloud State University; M.S.,
University of Wisconsin (Green Bay); Ph.D.,
Purdue University

Steven C. Hansen

Assistant Professor of Quantitative Methods and
Computer Science
1991; B.S., St. John's University (Minnesota);
M.S., Ph.D., Kansas State University

Steven P. Hartlaub

Member of Adjunct Faculty in French
1999; B.A., University of St. Thomas; M.A.,
Ph.D., University of Iowa

Monica E. Hartmann

Assistant Professor of Economics
2000; B.S., John Carroll University; M.A., Ph.D.,
University of Virginia

Lynn G. Hartshorn

Associate Professor of Chemistry
1982; B.Sc., Ph.D., Exeter, United Kingdom

Nancy Z. Hartung

Associate Professor of Biology
1977; B.A., Macalester College; Ph.D., University
of Minnesota

Joan Hasper

Member of Adjunct Faculty in Chemical Dependency
Counseling
2002; B.A., Concordia College (Moorhead); M.A.,
Adler Institute

Steven H. Hatting

Associate Professor of Political Science
1982; B.A., Nebraska Wesleyan University; M.A.,
Ph.D., Duke University

Ruben G. Haugen

Member of Adjunct Faculty in Music
Studio Instructor in Saxophone
1984; B.M.Ed., M.Mu., MacPhail College of
Music; National Superior, Conservatoire de
Musique (Paris)

Michael Hauser

Studio Instructor in Flamenco Guitar
1998; B.A., University of Minnesota; Free-lance
professional

University Faculty

Mary A. Hayes

Associate Professor of Professional Psychology
1988; B.A. College of St. Catherine; Ed.S., M.A.,
University of Minnesota; M.A., Ph.D., University
of Southern California

Julie M. Hays

Assistant Professor of Management
2000; B.S., University of Minnesota; M.B.A.,
University of St. Thomas; Ph.D., University of
Minnesota

Stephen J. Heaney

Associate Professor of Philosophy
1987; B.A., College of the Holy Cross; Ph.D.,
Marquette University

Yuko N. Heberlein

Member of Adjunct Faculty in Japanese
Studio Instructor in Violin
1993; B.F.A., Tokyo University of Arts; M.A.,
M.F.A., University of Minnesota

Susan E. Heckler

Distinguished Endowed Chair of Marketing
Professor of Marketing
2002; B.A., M.B.A., Ph.D., University of
Minnesota

Patricia R. Hedberg

Associate Professor of Management
1988; B.A., Ohio Northern University; Ph.D.,
University of Minnesota

Teresa Lyons Hegdahl

Member of Adjunct Faculty in Theater
M.F.A., University of Wisconsin (Milwaukee)

Mari M. Heltne

Associate Professor of Quantitative Methods and
Computer Science
2002; B.A., Luther College; M.A., University of
Iowa; Ph.D., University of Arizona

Michael P. Hennessey

Assistant Professor of Engineering
2000; B.S., University of Minnesota; M.S.,
Massachusetts Institute of Technology; Ph.D.,
University of Minnesota

W. Randolph Herman

Assistant Professor of Social Work
1994; B.A., Vanderbilt University; M.S.W.,
University of Maryland; M.Phil., Massey
University (New Zealand); Ed.D., University of St.
Thomas

Thomas A. Hickson

Assistant Professor of Geology
2000; B.S., California State University; M.A.,
University of Texas (Austin); Ph.D., Stanford
University

Angela High-Pippert

Assistant Professor of Political Science
1999; B.J., M.A., Ph.D., University of Nebraska
(Lincoln)

Mary Margaret Hoden

Member of Adjunct Faculty in Theology
1999; B.A., University of Minnesota; M.A., St.
Paul School of Divinity

Thomas A. Hodgson

Senior Member of Adjunct Faculty in Health and
Human Performance
1979; B.S., University of Minnesota; M.A., Ed.D.,
University of St. Thomas

Steven M. Hoffman

Professor of Political Science
1987; B.S., University of Missouri (St. Louis);
M.P.A., Arizona State University; Ph.D.,
University of Delaware

Ralph J. Holcomb

Associate Professor of Social Work
2000; B.A., University of the Pacific; M.A.,
M.S.W., Ph.D., University of Minnesota

Michael J. Hollerich

Associate Professor of Theology
1993; B.A., University of Notre Dame; M.T.S.,
Harvard Divinity School; Ph.D., University of
Chicago

Colin F. Hollidge

Associate Professor of Social Work
1997; B.A., University of Waterloo (Ontario);
M.S.W., Wilfrid Laurier University (Ontario);
Ph.D., Smith College

Emily Offner Hollidge

Member of Adjunct Faculty in Social Work
2000; B.A., Yale University; M.S.W., Smith
College School for Social Work

Al L. Holloway

Assistant Professor of Social Work
1999; B.S.S.W., University of Nebraska (Omaha);
M.S.W., University of Minnesota; Psy.D.,
University of Southern California

Jo Ann Holonbek

Associate Professor of Theater
1974; B.A., Mount Marty College (South Dakota);
M.A., University of South Dakota

John D. Holst

Assistant Professor of Education
2000; B.S., University of Wisconsin (Madison);
M.S., Ph.D., Northern Illinois University

Patricia C. Howe

Associate Professor of History
1990; B.A., College of William and Mary; M.A.,
University of Hawaii; Ph.D., University of North
Carolina

Susan J. Huber

Associate Professor of Education
1992; B.A., College of St. Teresa; M.A., Ed.D.,
University of St. Thomas

Sally M. Hunter

Associate Professor of Education
1990; B.A., College of St. Scholastica; M.A.,
University of Wisconsin; Ph.D., University of
Minnesota

Lily H. Hwa

Associate Professor of History
1997; B.A., National Taiwan University; A.M.,
Ph.D., University of Illinois

I

J. Thomas Ippoliti

Associate Professor of Chemistry
1989; B.A., State University of New York
(Potsdam); M.S., University of Wyoming; Ph.D.,
University of Wisconsin

J

Kamesha L. Jackson

Member of Adjunct Faculty in Theater
2001; B.A., Hope College; M.F.A., University of
Minnesota

Ronald L. Jacobson

*Member of Adjunct Faculty in Quantitative Methods
and Computer Science*
1988; B.S., North Dakota State University; M.S.,
Virginia Polytechnic Institute; M.S., Ph.D., Iowa
State University

Allen C. Jaedike

Member of Adjunct Faculty in Engineering
1997; Dip., Dunwoody Institute

Ameeta Jaiswal-Dale

Associate Professor of Finance
1990; B.A., St. Francis College (India); M.S.,
Osmania University (Hyderabad, India); M.A.,
Ph.D., University of Rennes (France)

Jeffrey A. Jalkio

Associate Professor of Engineering
1997; B.A., University of St. Thomas; B.S.E.E.,
M.S.E.E., Ph.D., University of Minnesota

Patrick L. Jarvis

*Associate Professor of Quantitative Methods and
Computer Science*
1992; B.A., University of St. Thomas; J.D., Ph.D.,
University of Minnesota

David P. Jenkins

*Director of Liturgical Music, School of Divinity
Studio Instructor in Organ*
1988; B.M., Oberlin College Conservatory of
Music; M.F.A., University of Iowa; D.M.A.,
Eastman School of Music

Lenny L. Jennings

Assistant Professor of Professional Psychology
1998; B.S., Missouri Western University; M.A.,
University of Missouri (Kansas City); Ph.D.,
University of Minnesota

Thomas P. Jensen

*Member of Adjunct Faculty in Quantitative Methods
and Computer Science*
1995; B.S., University of Minnesota; M.B.A.,
University of St. Thomas

Thadavillil Jithendranathan

Associate Professor of Finance
1993; B.S., Calicut University (India); M.B.A.,
Baruch College; M. Phil., Ph.D., City University
of New York; A.C.A. (India)

Alec C. Johnson

Assistant Professor of Entrepreneurship
2001; B.S., M.S., Ph.D., University of Wisconsin
(Madison)

Ann Johnson

Professor of Psychology
1988; B.A., Linfield College; M.A., Ph.D.,
Duquesne University

Bromley E. Johnson

Assistant Professor of Chemical Dependency Counseling
2001; B.A., St. Olaf College; M.S.W., University
of Nebraska

Lisa M. Johnson

Assistant Professor of Mathematics
2000; B.A., Concordia College (Moorhead); M.S.,
Ph.D., University of Nebraska (Lincoln)

Shersten Johnson

Assistant Professor of Music
2002; B.A., Augsburg College; M.M., California
State University-Northridge; Ph.D., University of
Wisconsin (Madison)

Martin E. Johnston

Associate Professor of Physics
1995; B.S., Walla Walla College; M.S., Ph.D.,
University of California-Riverside

Rev. Jan Michael Joncas

Associate Professor of Theology and Catholic Studies
1991; B.A., University of St. Thomas; M.A.,
University of Notre Dame; S.L.L., S.L.D.,
Pontificio Instituto Liturgico, Ateneo S. Anselmo
(Rome)

Michael C. Jordan

Professor of English and Catholic Studies
1982; B.A., St. John's College (Annapolis); M.A.,
Ph.D., University of North Carolina (Chapel Hill)

Shirley (Sherry) E. Jordan

Associate Professor of Theology
1993; B.A., Swarthmore College; M.Div., Yale
Divinity School; Ph.D., Yale University

Dede Jorstad

Studio Instructor in Voice
1988; B.A., St. Olaf College; M.F.A., University of
Minnesota

K

Christopher S. Kachian

*Professor of Music
Studio Instructor in Guitar*
1984; B.F.A., M.M., D.M.A., University of
Minnesota

Tamara L. Kaiser

Associate Professor of Social Work
1992; B.A., M.S.S.W., University of Wisconsin;
Ph.D., University of Minnesota

Gerald T. Kaminski

*Member of Adjunct Faculty in Quantitative Methods
and Computer Science*
1988; B.S., M.S., Case Western Reserve
University; M.B.A., University of St. Thomas

University Faculty

Meg Wilkes Karraker

Professor of Sociology
1990; B.A., Clemson University; M.S., North Carolina State University; Ph.D., University of Minnesota

David W. Kelley

Assistant Professor of Geography
2000; B.A., St. Anselm College; M.S., California Polytechnic State University; Ph.D., University of Minnesota

Kenneth W. Kemp

Associate Professor of Philosophy
1989; B.S. Lang., Georgetown University; M.A., St. John's College (Annapolis); M.A., Ph.D., University of Notre Dame

John T. Kemper

Professor of Mathematics
1976; B.A., Ph.D., Rice University

William E. Kemperman

Member of Adjunct Faculty in Music
Studio Instructor in Percussion
2001; B.A., Macalester College; M.M., University of Wisconsin (Madison)

Ellen J. Kennedy

Professor of Marketing
1987; B.A., University of Michigan; M.A., M.E.D., Northern Michigan University; M.A., Ph.D., Ph.D., University of Minnesota

Rev. Arthur L. Kennedy

Professor of Theology and Catholic Studies
1974; B.A., St. John's Seminary; S.T.L., Pontifical Gregorian University (Rome); Ph.D., Boston University

Robert G. Kennedy

Professor of Management and Catholic Studies
1988; B.A., University of St. Thomas; M.A., St. Paul Seminary; M.B.A., University of St. Thomas; M.M.S., Ph.D., University of Notre Dame

Elizabeth K. Keno

Studio Instructor in Piano
1999; B.A., Whitworth College; M.M., University of Illinois

Jaebeom Kim

Assistant Professor of Economics
2001; B.A., Inha University (South Korea); M.A., University of South Carolina (Columbia); M.A., Ph.D., Ohio State University

Anne H. King

Associate Professor of Theology
1985; A.B., Duke University; M.A., Duquesne University; Ph.D., Fordham University

William J. Kinney

Associate Professor of Sociology
1993; B.A., M.A., University of Northern Iowa; Ph.D., Iowa State University

Michael C. Klein

Member of Adjunct Faculty in Justice and Peace Studies
1999; B.A., M.A., University of St. Thomas

Anne M. Klejment

Professor of History
1983; B.A., Nazareth College (Rochester); M.A., Ph.D., State University of New York (Binghamton)

John B. Knauff

Assistant Professor of Management
1978; B.S., Macalester College

Rev. David Kohner

Spiritual Director, Director of Spiritual Formation, School of Divinity
1998; B. S., University of Minnesota; M.Div., University of St. Thomas

Nickolai A. Kolarov

Studio Instructor in Violoncello
2001; Dip., Bulgarian State Academy; M.M., Conservatory, University of Missouri

Joseph A. Komar

Distinguished Service Professor of Quantitative Methods and Computer Science
1966; B.A., University of St. Thomas; M.S., University of Minnesota

Donald G. Komro

Director, Mathematics Resource Center
1991; B.S., M.S., University of Wisconsin (Eau Claire)

John F. Koser

Member of Adjunct Faculty in Physics
1997; B.A., University of Northern Iowa; M.S., St. Cloud State University

Debra Kotulski

Studio Instructor in Voice
2004; b.a., Edgewood College (Madison); M.M., D.M.A., University of North Carolina-Greensboro

Bruce H. Kramer

Associate Professor of Education
1996; B.S., M.M., Ball State University; Ph.D., Purdue University

John P. Krebsbach

Associate Dean for Academic Advising and Special Programs
Associate Professor of Music
1979; B.A., M.A., University of St. Thomas; D.M.A., University of Minnesota

Joseph L. Kreitzer

Associate Vice President for Academic Affairs
Professor of Economics
1981; B.S., University of South Dakota; M.A., Ph.D., University of Iowa

Amelia Howe Kritzer

Associate Professor of Theater
1997; B.S., Temple University; Ph.D., University of Wisconsin

John D. Kronen

Professor of Philosophy
1990; B.A., Marquette University; Ph.D., State University of New York (Buffalo)

Brenda K. Kroschel

Assistant Professor of Mathematics
1999; B.A., St. Olaf College; M.S., Clemson University; Ph.D., College of William and Mary

Duane A. Krueger

Laboratory Assistant in Chemistry
2001; B.A., Dakota Wesleyan University; M.S., South Dakota School of Mines and Technology

Carol F. Kuechler

Associate Professor of Social Work
1996; B.A., Marquette University; M.S.W., University of Wisconsin (Milwaukee); Ph.D., University of Minnesota

Sameer Kumar

*Qwest Chair
Professor of Management*
1997; B.S., M.S., University of Delhi (India); M.S., University of Nebraska; M.S., Ph.D., University of Minnesota

Richard G. Kunkel

Associate Professor of Legal Studies in Business
1990; B.A., University of St. Thomas; J.D., University of Minnesota

Mitchell J. Kusy

Professor of Education
1989; B.A., Providence College; M.S.W., University of Wisconsin; Ph.D., University of Minnesota

L

Chih Lai

Assistant Professor of Software Engineering
2000; B.A., Fu-Jen Catholic University; M.S., Ph.D., Oregon State University

Donald R. LaMagdeleine

Professor of Education
1983; B.A., Loyola University (Chicago); M.A., Graduate Theological Union; Ph.D., Loyola University (Chicago)

Melissa A. Lamb

Assistant Professor of Geology
2000; A.B., Dartmouth; Ph.D., Stanford University

David T. Landry

Associate Professor of Theology
1991; A.B., College of the Holy Cross; M.A., Ph.D., Vanderbilt University

Paul D. Lane

Assistant Professor of Physics
1962; B.S., M.S., University of Minnesota

Terence G. Langan

Associate Professor of Economics
1990; B.A., Saint John's University (Minnesota); Ph.D., University of Minnesota

Kelli A. Larson

Professor of English
1990; B.A., Aquinas College; M.A., Ph.D., Michigan State University

Stephen J. Laumakis

Associate Professor of Philosophy
1990; B.A., St. Charles Seminary; M.A., Villanova University; Ph.D., University of Notre Dame

Cindy L. Lavorato

Assistant Professor of Education
2000; B.A., J.D., University of Iowa

David T. Lawrence

Assistant Professor of English
2003; B.A., Rockhurst University; M.A., The Creighton University; Ph.D., University of Missouri

Leigh Lawton

Professor of Marketing
1979; B.S., Valparaiso University; Ph.D., University of Wisconsin

Jon M. Leiseth

Member of Adjunct Faculty in Theater
2000; B.A., Concordia College (Moorhead); M.F.A., University of Montana (Missoula)

R. Mary Hayden Lemmons

Associate Professor of Philosophy
1991; B.S., State University of New York (Binghamton); M.A., Niagara University; Ph.D., Center for Thomistic Studies, University of St. Thomas (Houston)

Nekima Levy-Pounds

Assistant Professor of Law
2003; B.A., University of Southern California; J.D., University of Illinois College of Law

Anthony W. Lewno

Laboratory Development Technologist in Biology
1991; B.S., St. John's University (Minnesota); M.S., University of Minnesota

Daniel Liebenson

Assistant Professor of Law
2003; B.A., Harvard College; J.D., Harvard Law School

Steve J. Lilienthal

Member of Adjunct Faculty in Music
1997; B.A., Gustavus Adolphus College

Yusen Liu

Associate Professor of Marketing
1990; B.S., Beijing University of Foreign Economics and Trade; M.B.A., Ph.D., Florida State University

Steven A. Long

Assistant Professor of Philosophy
2002; B.A., M.A., University of Toledo; Ph.D., The Catholic University of America

Paul A. Lorah

Associate Professor of Geography
1996; B.A., M.A., University of Colorado (Boulder); Ph.D., Indiana University

Lorman L. Lundsten

Professor of Marketing
1981; B.S., Northland College; M.B.A., Fordham University; Ph.D., University of Michigan

University Faculty

M

Gary A. Mabbott

Associate Professor of Chemistry
1989; B.A., College of Wooster; Ph.D., University of Wisconsin

Paul D. Mabry

Associate Professor of Psychology
1986; B.A., Millsaps College; M.A., Ph.D., University of Mississippi

Raymond N. MacKenzie

Professor of English
1989; B.A., Concordia College (Moorhead); M.A., Ph.D., Kansas State University

Jill M. Manske

Associate Professor of Biology
1991; B.A., College of St. Catherine; M.A., Southern Illinois University; Ph.D., University of Minnesota

Craig S. Marcott

Associate Professor of Economics
1982; B.S., University of Minnesota; M.S., Ph.D., Purdue University

Thomas C. Marsh

Assistant Professor of Chemistry
2000; B.S., Ph.D., Iowa State University

Susan J. Marsnik

Associate Professor of Legal Studies in Business
1996; B.A., J.D., University of Minnesota

John W. Martens

Assistant Professor of Theology
2001; B.A., St. Michael's College at the University of Toronto; M.A., Ph.D., McMaster University

María Ángeles Martín-Morán

Member of Adjunct Faculty in Spanish
1997; Licenciatura - University of Deusto (Spain); M.A., University of Minnesota

A. Thomas Mason

Associate Professor of Management
1981; B.E.S., The Johns Hopkins University; M.S.I.E., University of Massachusetts; Ph.D., Purdue University

Steve A. Mathre

Member of Adjunct Faculty in Health and Human Performance
1995; B.A., St. Olaf College

Diane M. Matson

Assistant Professor of Accounting
2001; B.A., Gustavus Adolphus College; M.B.A., Ph.D., University of Minnesota

Jeanne P. McLean

Academic Dean, School of Divinity
Associate Professor of Philosophy
1999; B.A., College of St. Scholastica; M.A., Ph.D., Loyola University (Chicago)

Jeffery T. McLean

Associate Professor of Mathematics
1983; B.A., Hendrix College; M.S., Ph.D., Ohio State University

Jeffrey T. McLeod

Member of Adjunct Faculty in Professional Psychology
1998; B.A., M.A., University of St. Thomas; Ph.D., University of Minnesota

Steven J. McMichael, OFM., Conv.

Assistant Professor of Theology
2000; B.A., St. Louis University; M.A., St. Bonaventure University; S.T.B., Seraphicum; S.T.L., S.T.D., Gregorian University

Daniel E. McNamara

Associate Professor of Management
1976; B.S.I.E., University of Dayton; M.S., Ph.D., University of Wisconsin

Theresa McPartlin

Assistant Professor of Social Work
1984; B.A., College of St. Catherine; A.M., University of Chicago

John F. McVea

Assistant Professor of Entrepreneurship
2003; B.Com., B.S., University of Birmingham (England); M.B.A., Ph.D., Darden Graduate School of Business Administration, University of Virginia

Thomas B. Mega

Assistant Professor of History
1985; B.A., M.A., Ph.D., University of Minnesota

Kristine J. Melloy

Professor of Education
1989; B.A., M.A., Loras College; Ph.D., University of Iowa

Thomas M. Mengler

Dean, School of Law
Professor of Law
2002; B.A., Carleton College; J.D., University of Texas School of Law

P. Sowah Mensah

Member of Adjunct Faculty in Music
Studio Instructor in African Drumming
1991; B.M., University of Ghana; M.A., University of Minnesota

Sandra L. Menssen

Professor of Philosophy
1988; B.A., Ph.D., University of Minnesota

Laurie Hatcher Merz

Studio Instructor in Bassoon
1999; B.M., Eastman School of Music; M.M., University of Minnesota

Michael Allen Mikolajczak

Professor of English
1989; B.S., M.A., Ph.D., University of Wisconsin (Milwaukee)

Jack F. Militello

Professor of Management
1987; B.A., Boston College; M.A., University of Colorado; Ph.D., University of Pennsylvania

Judith A. Miller

Professor of Social Work
1969; B.A., College of St. Catherine; M.S.W., Ph.D., University of Minnesota

Leslie A. Miller

Associate Professor of English
1991; B.A., Stephens College; M.A., University of Missouri; M.F.A., University of Iowa; Ph.D., University of Houston

Robert K. Miller

Professor of English
1991; B.A., Vassar College; M.A., University of Leicester; Ph.D., Columbia University

Renee H. Milstein

Member of Adjunct Faculty in Spanish
1991; B.A., Universidad de la República (Montevideo, Uruguay); M.A., University of Western Ontario; M.Ed., University of Minnesota

Bhabani Misra

Associate Professor of Software Engineering
1988; B.S.E.E., Sambalpur University, India; M.S., Ph.D., North Dakota State University

Thomas Misukanis

Member of Adjunct Faculty in Professional Psychology
1998; B.A., University of St. Thomas; M.A., Ph.D., Oklahoma State University

Sunil Kumar Mohanty

Associate Professor of Finance
2001; B.Tech., Indian Institute of Technology; M.B.A., Minnesota State University; D.B.A., Cleveland State University

Hugo L. Montero

Visiting Professor of Theology
2003; B.A., *Licenciatura*, Ph.D., Pontifical Catholic University (Quito, Ecuador); M.A., M.Div., University of St. Thomas

Scott A. Montgomery, Major, USAF

Assistant Professor of Aerospace Studies
2001; B.S., Ohio State University; M.S., University of Dayton (Ohio)

Fintan R. Moore

Member of Adjunct Faculty in Irish Gaelic
1997; B.A., Trinity College, University of Dublin; M.A., University of San Diego

Stephen W. Morgan

Studio Instructor in Electric Guitar
1999; B.M., University of Miami (Coral Gables)

Greg M. Morrissey

Senior Member of Adjunct Faculty in Theater
1989; B.A., University of St. Thomas; M.A., North Dakota State University

Amy M. Muse

Assistant Professor of English
2001; B.A., University of Akron; A.M., Washington University (St. Louis); Ph.D., Auburn University

Melissa P. Mussell

Associate Professor of Professional Psychology
1997; B.A., M.A., Ph.D., University of Minnesota

Susan E. Myers

Instructor in Theology
2001; B.A., College of St. Benedict; M.A., St. John's University (Minnesota); M.A., University of Notre Dame

N

Frederick W. Nairn

Member of Adjunct Faculty in Theology
2000; M.A., University of Dublin Trinity College; D.Min., Lutheran Northwestern Seminary

Siobhan F. Nash-Marshall

Assistant Professor of Philosophy
2000; B.A., New York University; Ph.D., Università Cattolica di Milano; Ph.D., Fordham University

Michael J. Naughton

Director, John Ryan Institute
Associate Professor of Theology
1991; B.S., Southern Illinois University; M.B.A., University of St. Thomas; M.A., Ph.D., Marquette University

Dwight E. Nelson

Associate Professor of Biology
1993; B.A., Augustana College; Ph.D., Northwestern University

Jack A. Nelson-Pallmeyer

Assistant Professor of Justice and Peace Studies
B.A., St. Olaf College; M.Div., Union Theological Seminary (New York)

Mark R. Neuzil

Associate Professor of Journalism and Mass Communication
1993; B.A., Iowa State University; M.A., Ph.D., University of Minnesota

Terence L. Nichols

Professor of Theology
1988; B.A., University of Minnesota; Ph.D., Marquette University

Paul Niskanen

Assistant Professor of Theology
2002; B.A., Seattle University; S.T.B., Pontifical University Teresianum (Rome); Ph.D., Graduate Theological Union (Berkeley)

Robert J. Nistler

Associate Professor of Education
1998; B.S., University of Wisconsin (Stevens Point); M.A., University of Minnesota; Ph.D., University of Texas (Austin)

University Faculty

Burton Nolan

Professor of Professional Psychology
1971; B.A., Massachusetts State College at Westfield; M.S., Ph.D., Purdue University

Sarah J. Noonan

Associate Professor of Education
2000; B.A., University of Minnesota; M.S., University of St. Thomas; Ed.D., University of Wyoming

Michelle (Shelly) A. Nordtorp-Madson

Member of Adjunct Faculty in Art History
1994; B.A., M.A., Ph.D., University of Minnesota

R. Stanford Nyquist

Associate Professor of Management
1987; B.S., M.S.I.E., Ph.D., University of Minnesota

O

Michael P. O'Connor

Assistant Professor of Law
2001; B.A., Pennsylvania State University; J.D., Yale Law School

Michael J. O'Donnell

Assistant Professor of Journalism and Mass Communication
1999; B.A., Central College; M.S., Iowa State University

Mary Rose O'Reilley

Professor of English
1978; B.A., College of St. Catherine; M.A., Ph.D., University of Wisconsin (Milwaukee)

Anthony M. Ofstead

Member of Adjunct Faculty in Health and Human Performance
1997; B.S., Mankato State University

Beatrice O. Ohanessian

Studio Instructor in Piano
2001; L.R.A.M.; Royal Academy of Music (London)

Paul R. Ohmann

Assistant Professor of Physics
2000; B.A. University of St. Thomas; M.S., Ph.D., University of Wisconsin (Madison)

William H. Ojala

Laboratory Teaching & Development Specialist in Chemistry
1995; B.S., College of Great Falls; Ph.D., University of Minnesota

Jennifer Oliphant

Member of Adjunct Faculty in Health and Human Performance
2001; B.A., Hamline University; M.A., University of Minnesota

John R. Olson

Associate Professor of Management
2004; B.S., University of Minnesota; M.B.A., St. Cloud State University; Ph.D., University of Nebraska-Lincoln

Katherine E. Olson

Associate Professor of Chemistry
1997; B.A., Cornell University; Ph.D., Massachusetts Institute of Technology

Deborah A. Organ

Assistant Professor of Homiletics, School of Divinity
2001; B.S.W., University of Wisconsin (Madison); M.Div., Harvard Divinity School; D.Min., Aquinas Institute of Theology

Jerome M. Organ

Professor of Law
2001; A.B., Miami University; J.D., Vanderbilt University School of Law

Douglas C. Orzolek

Assistant Professor of Music
2000; B.M., Mansfield University of Pennsylvania; M.Ed., The Pennsylvania State University; Ph.D., University of Minnesota

Lon J. Otto

Professor of English
1974; B.A., Pomona College; Ph.D., Indiana University

Charlotte A. Ovechka

Pre-Health Professions Adviser
Senior Member of Adjunct Faculty in Chemistry
1991; A.B., Marycrest College; M.S., Ph.D., Saint Louis University

Ernest L. Owens, Jr.

Assistant Professor of Management
1993; B.S.I.E., Northeastern University; M.B.A., Ed.D., University of St. Thomas

P

Rev. George Palackapilly

Member of Adjunct Faculty in Justice and Peace Studies
1996; B.A., Loyola College (Madras); M.A., Ph.D., Maharaja Sayajirao, University of Baroda (India)

Marie Pannier

Assistant Professor of Philosophy
2004; B.A., University of Minnesota; Ph.D., University of Notre Dame

Agapitos Papagapitos

Professor of Economics
1990; B.A., College of Wooster; M.A., Ph.D., Ohio State University

Peter F. Parilla

Associate Dean, College of Arts and Sciences
Professor of Sociology
1977; B.A., University of St. Thomas; M.A., Ph.D., University of Minnesota

Stephen A. Parker

Member of Adjunct Faculty in Professional Psychology
1998; B.A., University of Minnesota; M.A., Psy.D., University of St. Thomas

Sandy Parnell

Assistant Professor of Social Work
1989; B.A., St. Mary's College; M.S.W., University of Minnesota

James D. Parsley

Associate Professor of Health and Human Performance
1971; B.S., Kansas State University; M.S., Central
Missouri State; Ed. D., University of Minnesota

Corrine L. Patton

Associate Professor of Theology
1996; B.A., University of San Francisco; M.A.,
Graduate Theological Union (Berkeley); Ph.D.,
Yale University

Peter C. Patton

Professor of Quantitative Methods and Computer Science
2002; A.B., Harvard University; M.A., University
of Kansas; Ph.D., University of Stuttgart,
Germany

Lucy L. Payne

Associate Professor of Education
1997; B.S., University of Iowa; M.A., California
Polytechnic University; Ph.D., University of Iowa

Annick Pelletier-Skoog

Member of Adjunct Faculty in French and Spanish
1990; B.A., Lawrence University; M.A.,
University of Minnesota

David Penchansky

Professor of Theology
1989; B.A., Queens College City University of
New York; M.A., Assemblies of God Theological
Seminary (Missouri); Ph.D., Vanderbilt University

Debra L. Petersen

Associate Professor of Communication Studies
1990; B.A., University of Minnesota (Morris);
M.A., Colorado State University; Ph.D.,
University of Minnesota

Donald S. Peterson

Member of Adjunct Faculty in Sociology
1987; B.A., Metropolitan State University; M.A.,
University of St. Thomas

Thanh Q. Pham

*Member of Adjunct Faculty in Health and Human
Performance*
2003; B.A., Augsburg College; M.A., St. Mary's
University

Joan L. Piorkowski

Professor of English
1977; B.A., University of Delaware; M.A., Ph.D.,
Temple University

Robert A. Plesha

Member of Adjunct Faculty in Sociology
2000; B.A., University of Minnesota; J.D.,
William Mitchell College of Law

Germán J. Pliego

*Associate Professor of Quantitative Methods and
Computer Science*
1998; B.S., M.B.A., M.S., University of State of
Mexico; M.S., M.S., Interamerican Center for
Social Security Studies; M.S., Ph.D., Purdue
University

Shirley A. Polejewski

Professor of Accounting
1976; B.S., College of Great Falls; M.A.C., Utah
State University; Ph.D., University of Minnesota

George Poletes

Associate Professor of Theater
1958; B.A., Augustana College; M.A., North
Dakota State University

Gary A. Porter

Professor of Accounting
2002; B.S.B.A., Drake University; M.B.A., Ph.D.,
University of Colorado

Thaddeus J. Posey, OFM, Cap.

Associate Professor of Theology
1993; B.A., St. Fidelis College; M.A., Capuchin
College; Ph.D., Saint Louis University

Brenda J. Powell

Professor of English
1984; B.A., University of California (Berkeley);
M.A., Ph.D., University of North Carolina (Chapel
Hill)

Sally J. Power

Professor of Management
1981; B.A., University of South Florida; M.A.,
Ph.D., University of Minnesota

Dennis Powers

Assistant Professor of Economics
2002; B.B.A., Memphis State University; Ph.D.,
Texas A&M University

Mary C. Preus

Member of Adjunct Faculty in Classics
2000; B.A., Luther College; M.A., Harvard
University; Ph.D., University of Minnesota

R

Janice M. Raffield

Associate Professor of Accounting
1991; B.A., Newberry College; M.S., California
Lutheran College; M.P. Acc., Clemson University;
C.P.A.

William D. Raffield

Senior Associate Dean, College of Business
Associate Professor of Management
1991; B.S., Clemson University; M.A., Golden
Gate University; Ph.D., Clemson University

Saeed Rahimi

Associate Professor of Software Engineering
1988; B.S., Arya Mehr University; M.S., Ph.D.,
University of Minnesota

Florence A. Ramage

Member of Adjunct Faculty in Professional Psychology
1998; B.A., Marymount College; M.A., St. Louis
University; M.S., University of Wisconsin-Stout;
Psy.D., University of St. Thomas

Sunil J. Ramlall

Assistant Professor of Management
2002; B.A., M.B.A., University of St. Thomas;
M.Ed., Ph.D., University of Minnesota

University Faculty

Richard A. Raschio

Associate Professor of Spanish
1981; B.A., Portland State University; M.A.,
Ph.D., University of Minnesota

Renee A. Rau

Member of Adjunct Faculty in Professional Psychology
1999; B.A., College of St. Benedict/St. John's
University (Minnesota); M.A., Psy.D., University
of St. Thomas

Dennis M. Ray

3M Chair
Professor of Management
2001; B.A., M.A., Ph.D., University of Denver

Walter D. Ray

*Assistant Professor of Sacramental Theology, School of
Divinity*
2000; B.A., Grinnell College; M.A., Boston
University; M.Div., St. Vladimir's Orthodox
Theological Seminary; M.A., Middlebury College;
Ph.D., University of Notre Dame

Robert L. Raymond

*Associate Professor of Quantitative Methods and
Computer Science*
1982; B.S., Case Institute of Technology; Ph.D.,
University of Minnesota

Thomas Dillon Redshaw

Professor of English
1971; A.B., Tufts University; A.M., University
College (Dublin); Ph.D., New York University;
Fellow, Institute of Irish Studies, The Queen's
University (Belfast)

W. Joseph Reed

Studio Instructor in Voice
2004; B.A., University of St. Thomas; M.M.,
University of Michigan

Robert A. Rehn

Assistant Professor of Management
2000; B.A., M.Ed., Ed.D., Northern Illinois
University

J. Brad Reich

Instructor in Legal Studies in Business
2002; B.B.A., University of Iowa; J.D., Drake
University School of Law; L.L.M., University of
Missouri School of Law

Mary R. Reichardt

Professor of English and Catholic Studies
1988; B.A., Aquinas College; M.A., University of
Illinois (Champaign-Urbana); Ph.D., University of
Wisconsin (Madison)

Charles J. Reid, Jr.

Associate Professor of Law
2002; B.A., University of Wisconsin (Milwaukee);
J.D., J.C.L., The Catholic University of America;
M.A., Ph.D., Cornell University

Margaret T. Reif

Associate Professor of Education
1990; B.A., College of St. Teresa; M.A., Ed.D.,
University of St. Thomas

Thomas H. Ressler

Associate Professor of Management
1989; B.M.E., M.S.I.E., Ph.D., University of
Minnesota

Richard J. Rexeisen

Professor of Marketing
1990; B.A., University of Minnesota; M.B.A.,
University of Michigan; Ph.D., University of
Minnesota

David P. Rigoni

Associate Professor of Education
2000; B.S., University of Wisconsin (Superior);
M.Ed., University of Minnesota (Duluth); Ed.D.,
University of St. Thomas

Robert J. Riley

Professor of Economics
1991; B.A., University of St. Thomas; Ph.D.,
University of Wisconsin (Madison)

Jeffrey D. Rinear

Member of Adjunct Faculty in Music
2001; B.M., University of Minnesota; B.M.
Berklee College of Music

Donald J. Ringnald

Professor of English
1976; A.B., Calvin College; M.A., Ph.D., Ohio
University

Greg L. Robinson-Riegler

Professor of Psychology
1990; B.A., University of Cincinnati; M.S., Ph.D.,
Purdue University

Thomas R. Rochon

Executive Vice President / Chief Academic Officer
Professor of Political Science
2003; A.B., A.M., Ph.D., University of Michigan

Karen B. Rogers

Professor of Education
1984; B.A., University of California (Berkeley);
M.S., Ph.D., University of Minnesota

Philip A. Rolnick

Associate Professor of Theology
2003; B.A., Sonoma State University; M.A.,
Pacific School of Religion (Berkeley); Ph.D., Duke
University

Donald J. Roney

*Member of Adjunct Faculty in Health and Human
Performance*
1991; B.A., M.A., University of St. Thomas

Teresa J. Rothausen

Associate Professor of Management
1998; B.A., St. Olaf College; C.P.A., State of
Minnesota; Ph.D., University of Minnesota

Rochelle E. Rottenberg

Field Liaison and Supervisor in Social Work
1995; B.A., University of Michigan; M.S.,
Simmons College; M.S.W., Hunter College

Eleni Roulis

Associate Professor of Education
1990; B.A., St. John's University (New York);
M.S., New York University; Ph.D., University of
Minnesota

Brad Rubin

Assistant Professor of Software Engineering
2003; B.S., M.S., University of Illinois (Urbana);
Ph.D., University of Wisconsin (Madison)

Christopher J. Ruddy

Assistant Professor of Theology
2003; B.A., Yale University; M.T.S., Harvard
Divinity School; Ph.D., University of Notre Dame

Deborah Wallace Ruddy

Assistant Professor of Catholic Studies
2000; B.A. Georgetown University; M.A., Ph.D.,
Boston College

Celia M. Rumann

Assistant Professor of Law
2001; B.A., Arizona State University; H.C.L.,
Trinity College; J.D., University of San Diego

Ann Grasso Ryan

Professor of Education
1976; B.A., Keen College; M.Ed., Ed.D.,
University of Virginia

S

Luz Amparo Saavedra

Assistant Professor of Economics
2001; B.A., Universidad del Valle (Cali,
Colombia); M.S., Ph.D., University of Illinois
(Urbana-Champaign)

Sister Paul Therese Saiko, SSND

Instructor in Sacred Scripture, School of Divinity
1985; B.A., Mount Mary College; M.A.,
University of San Francisco

Barbara K. Sain

Instructor in Theology
2002; B.A., University of Notre Dame; M.A., The
Catholic University of America

P. Jane Saly

Associate Professor of Accounting
1999; B.Sc., Queen's University (Canada); M.B.A.,
University of Alberta; Ph.D., University of British
Columbia

Lalith P. Samarakoon

Associate Professor of Finance
2001; B.Sc., University of Sri Jayewardenepura (Sri
Lanka); M.B.S., University of New Hampshire;
Ph.D., University of Houston

Susana M. Sandmann

Assistant Professor of Spanish
1995; B.A., M.A., Ph.D., University of Minnesota

Michael J. Sarafolean

Instructor in Entrepreneurship
1999; B.A., M.S.W., University of Minnesota;
M.B.A., University of St. Thomas

Richard S. Sathe

Associate Professor of Accounting
1990; B.A., Concordia College; M.B.A.,
University of Minnesota; Ed.D., University of St.
Thomas; C.P.A.

Kevin O. Sauter

Professor of Communication Studies
1982; B.A., Moorhead State University; M.A.,
Miami University (Ohio); Ph.D., Pennsylvania
State University

Michael S. Scham

Associate Professor of Spanish
2001; B.A., Boston University; M.A., Middlebury
College; Ph.D., Princeton University

Andrew J. Scheiber

Professor of English
1990; B.A., M.A., Ph.D., Michigan State
University

David Schenk

Assistant Professor of Philosophy
2003; B.A., Antioch College; Ph.D., University of
Iowa

Erika C. Scheurer

Associate Professor of English
1993; B.A., College of Notre Dame (Maryland);
M.A., University of Delaware; Ph.D., University of
Massachusetts (Amherst)

Elizabeth R. Schiltz

Associate Professor of Law
2001; B.A., Yale University; J.D., Columbia
University School of Law

Patrick J. Schiltz

Professor of Law
2000; B.A., College of St. Scholastica; J.D.,
Harvard Law School

Gerald W. Schlabach

Associate Professor of Theology
2000; B.A., Goshen College; M.A., Associated
Mennonite Biblical Seminary; Ph.D., University of
Notre Dame

Sarah C. Schmalenberger

Assistant Professor of Music
2002; B.A., Capital University Conservatory;
M.M., University of Michigan; Ph.D., University
of Minnesota

U. Kurt Scholz

Professor of Mathematics
1972; B.A., M.A., Ph.D., University of California
(Los Angeles)

Paul A. Schons

Professor of German
1967; B.A., University of St. Thomas; M.A.,
University of Colorado; Ph.D., University of
Minnesota

Doreen J. Schroeder

Laboratory Coordinator in Biology
1989; B.S., M.A., University of South Dakota

University Faculty

Ann L. Schrooten

Director, Chapel Music
Studio Instructor in Voice
2003; B.M., St. Olaf College; M.M., University of Minnesota

Ivancica D. Schruink

Member of Adjunct Faculty in History
1990; B.A./M.A., University of Zagreb (Croatia); M.A., Ph.D., University of Minnesota

Sister Katarina M. Schuth, OSF

Endowed Chair for the Social Scientific Study of Religion

Associate Professor of Sociology
1991; B.A., College of St. Teresa; M.T.S., S.T.L., Weston Jesuit School of Theology; M.A., Ph.D., Syracuse University

Joseph P. Schwebel

Assistant Professor of Quantitative Methods and Computer Science
1969; B.A., St. Mary's University (Minnesota); M.A., University of Minnesota; M.S., Purdue University

Britain A. Scott

Associate Professor of Psychology
1996; B.S., University of Iowa; Ph.D., University of Minnesota

Timothy L. Scully

Associate Professor of Communication Studies
1990; B.A., M.A., University of Iowa

Chehrzad (Cheri) Shakiban

Professor of Mathematics
1983; B.S., National University of Iran; M.S., Harvard University; Ph.D., Brown University

Sister Mary Catherine Shambour, OSB

Member of Adjunct Faculty in Russian
1986; B.A., College of St. Scholastica; M.A., University of Minnesota (Duluth); M.A.T., Indiana University

Ashley N. Shams

Instructor in French
2002; B.A., M.A., University of North Texas

Barbara W. Shank

Dean, School of Social Work
Professor of Social Work
1978; B.A., Macalester College; M.S.W., Ph.D., University of Minnesota

Brian P. Shapiro

Assistant Professor of Accounting
2004; B.A., Ph.D., University of Minnesota

Colleen J. Sheehy

Member of Adjunct Faculty in Art History
1999; B.A., M.A., Ph.D., University of Minnesota

Arkady Shemyakin

Associate Professor of Mathematics
1993; Diploma (M.S.), Novosibirsk State University; C.S.D. (Ph.D.), Academy of Science (Siberia)

Melissa A. Shepard-Loe

Assistant Professor of Mathematics
1989; B.A., St. Olaf College; M.S., Ph.D., University of Minnesota

Michael A. Sheppeck

Assistant Dean, Division of Executive and Professional Development, College of Business
Associate Professor of Management
1990; B.A., Slippery Rock University; M.A., Western Washington University; Ph.D., University of South Florida

Glenn K. Sherer

Associate Professor of Biology
1984; B.S., Muhlenberg College; Ph.D., Temple University

James A. Shovein

Distinguished Service Professor of Finance
1999; B.S., University of Northern Iowa; M.B.A., University of Minnesota

Mikhail M. Shvartsman

Assistant Professor of Mathematics
1998; B.S., M.S., Moscow Institute of Steel and Alloys (Russia); Ph.D., University of Maryland (College Park)

Gregory Sisk

Professor of Law
2003; Montana State University; J.D., University of Washington School of Law

Trygve Skaar

Studio Instructor in Tuba
2000; Free-lance professional

Walter J. Skierski, Jr., Lieutenant Colonel, USAF

Professor of Aerospace Studies
2001; B.A., King's College; Master of Strategic Studies, Air War College; J.D., Temple University

Terrence P. Skrypek

Member of Adjunct Faculty in Health and Human Performance
1987; B.A., St. Mary's College; M.A., University of St. Thomas

Amy F. Smith

Assistant Professor of Education
2001; B.A., M.A., University of St. Thomas; Ph.D., University of New Hampshire

Buffy Smith

Instructor in Sociology
2004; B.A., Marquette University; M.S., University of Wisconsin (Madison)

Rev. David W. Smith

Professor of Theology
1970; B.A., University of St. Thomas; B.A., St. Paul Seminary; S.T.L., S.T.D., Angelicum (Rome); S.S.B., S.S.L., Pontifical Biblical Commission, Vatican (Catholic University and Ecole Biblique, Jerusalem)

Richard E. Smith

Assistant Professor of Quantitative Methods and Computer Science

2003; B.S., Boston University; M.S., Ph.D., University of Minnesota

Susan L. Smith-Cunnien

Associate Professor of Sociology

1990; B.A., University of Delaware; Ph.D., University of Minnesota

James Snapko

Member of Adjunct Faculty in Theater

M.A., University of Minnesota

Kenneth D. Snyder

Assistant Professor of Church History, School of Divinity

1994; B.A., Mary College; M.T.S., Weston Jesuit School of Theology; Ph.D., The Catholic University of America

Ephraim M. Sparrow

Senior Member of Adjunct Faculty in Engineering 3M Fellow

1997; B.S., M.S., Massachusetts Institute of Technology; M.A., Ph.D., Harvard University

Marguerite L. Spencer

Member of Adjunct Faculty in Theology

1990; B.A., University of St. Thomas; M.A., University of Chicago; J.D., University of Minnesota

Mark T. Spriggs

Associate Professor of Marketing

1997; B.S., Ph.D., University of Wisconsin (Madison); M.B.A., University of Wisconsin (Eau Claire)

John A. Spry

Assistant Professor of Economics

2003; B.S., The Ohio State University; M.A., Ph.D., University of Rochester

Mark Stansbury-O'Donnell

Professor of Art History

1990; B.A., College of William and Mary; M.A., Williams College; Ph.D., Yale University

Jeanne R. Steele

Associate Professor of Journalism and Mass Communication

2000; A.B., Dominican University; M.S., Syracuse University; Ph.D., University of North Carolina (Chapel Hill)

Tyrone D. Stenzel

Member of Adjunct Faculty in Health and Human Performance

1991; B.S., University of Minnesota; M.A., University of St. Thomas

Anthony C. Steyermark

Assistant Professor of Biology

2002; B.S., St. Joseph's University; M.S., Ph.D., Drexel University

Thomas J. Stoffel

Assistant Professor of Accounting

1988; B.A., University of St. Thomas; M.B.A., University of Wisconsin (Milwaukee); C.P.A.

Ralph E. Stouffer

Associate Professor of Education

1972; B.A., Dakota Wesleyan University; M.Ed., South Dakota State University; Ed.D., University of South Dakota

Tamas Strasser

Member of Adjunct Faculty in Music

Studio Instructor in Violin, Viola

1988; B.A., University of Missouri (Kansas City); Co-principal viola, St. Paul Chamber Orchestra

Robert P. Strusinski

Director, Chapel Music

Studio Instructor in Voice

1977; B.A., B.S., M.A., M.M., University of Minnesota

Bridget Stuckey

Studio Instructor in Harp

1990; B.S., Ball State University; St. Paul Chamber Orchestra; Free-lance professional

Thomas P. Sturm

Professor of Quantitative Methods and Computer Science

1971; B.A., University of St. Thomas; M.S., Ph.D., University of Minnesota

Mary Kay Sullivan

Member of Adjunct Faculty in Mathematics

1987; A.B., Marymount College; M.S., University of Notre Dame

Michael F. Sullivan

Associate Professor of Finance

2000; B.A., St. John's University (Minnesota); Ph.D., University of Minnesota

Richard J. Sullivan

Member of Adjunct Faculty in Professional Psychology

2001; B.A., M.A., Ph.D., University of Minnesota

Thomas D. Sullivan

Aquinas Chair in Philosophy and Theology

Professor of Philosophy

1966; B.A., M.A., DePaul University; Ph.D., St. John's University (New York)

Joe V. Sweeney

Member of Adjunct Faculty in Health and Human Performance

1979; B.A., M.A., University of St. Thomas

Dawn Ranae Swink

Assistant Professor of Legal Studies in Business

2002; B.A., Mankato State University; J.D., Drake University Law School

T

Jane D. Tar

Assistant Professor of Spanish

2001; B.A., University of Minnesota; M.A., Ph.D., University of Wisconsin (Madison)

University Faculty

John M. Tauer

Assistant Professor of Psychology
2000; B.A., University of St. Thomas; M.S.,
Ph.D., University of Wisconsin (Madison)

Scott A. Taylor

Professor of Law
2002; B.S., M.A., University of New Mexico; J.D.,
University of New Mexico School of Law; LL.M.,
New York University School of Law

Trudi A. Taylor

Professor of Education
1988; B.A., Anderson College; M.S., City
University of New York; Ed.D., Ball State
University

Kevin Theissen

Assistant Professor of Geology
2003; B.A., Carleton College; Ph.D., Stanford
University

Janet T. Thomas

Member of Adjunct Faculty in Professional Psychology
1998; B.A., M.A., St. Cloud State University;
Psy.D., University of St. Thomas

Christopher J. Thompson

Associate Professor of Theology and Catholic Studies
1992; B.A., Creighton University; M.A., Saint
Louis University; Ph.D., Marquette University

Serene Thornton

Assistant Professor of Social Work
1984; B.A., Concordia College; M.S.W.,
University of Denver

Jeffrey K. Thygeson

Studio Instructor in Guitar
2002; B.A., University of St. Thomas; M.M.,
University of Southern California

Anthony J. Titus

Member of Adjunct Faculty in Music
Studio Instructor in Guitar
1990; B.M., North Carolina School of Performing
Arts; M.A., San Diego State University

Cris E. Toffolo

Associate Professor of Political Science
1992; B.S., Alma College; M.A., George
Washington University; Ph.D., University of
Notre Dame

Thomas N. Tommet

Associate Professor of Physics
1979; B.A., University of St. Thomas; M.S.,
Ph.D., University of Wisconsin (Madison)

Jill L. Trinka

Associate Professor of Music
Director, Music Education
2001; B.S., University of Illinois (Urbana); M.M.,
Liszt Academy of Music; Ph.D., University of
Texas (Austin)

John B. Tschida

*Member of Adjunct Faculty in Health and Human
Performance*
2000; B.A., M.A., St. Mary's University

Radka Turcajova

Assistant Professor of Mathematics
2000; R.N.Dr., Charles University (Prague);
Ph.D., Flinders University of South Australia

Mary K. Twite

Member of Adjunct Faculty in Theology
2000; B.A., University of St. Thomas; M.A.,
Boston College

U

Rev. John L. Ubel

Formation Faculty, School of Divinity
2003; B.A., M.A., University of St. Thomas;
M.Div., The Saint Paul Seminary

Edward T. Ulrich

Assistant Professor of Theology
2000; B.S., University of Minnesota; M.A., St.
John's University (Minnesota); Ph.D., The
Catholic University of America

V

Patrick J. Van Fleet

Professor of Mathematics
1998; B.S., Western Illinois University; Ph.D.,
Southern Illinois University (Carbondale)

John F. van Ingen

Associate Professor of Philosophy
1989; B.A., University of St. Thomas; M.A.,
Ph.D., University of Chicago

Carol Van Nostrand

Senior Member of Adjunct Faculty in Music
1984; B.M., State University of Iowa; M.M.,
University of Massachusetts; D.M.A., University of
Cincinnati College Conservatory of Music

Terri L. Vandercook

Associate Professor of Education
1996; B.A., M.A., University of Northern Iowa;
Ph.S., University of Minnesota

David O. Vang

Professor of Finance
1983; B.A., St. Cloud State University; Ph.D.,
Iowa State University

Amy S. Verhoeven

Assistant Professor of Biology
1999; B.S., University of Iowa; Ph.D., University
of Colorado

James W. Vincent

Professor of Economics
1988; B.A., University of Montana; M.S., Ph.D.,
University of Wisconsin (Madison)

Denis Vlahovic

Assistant Professor of Philosophy
2002; B.A., M.A., York University (Toronto);
Ph.D., McGill University

Stacy M. Vollmers

Associate Professor of Marketing
2003; B.S., Moorhead State University; Ph.D., The
Florida State University

Christopher A. Volpe
Member of Adjunct Faculty in Music
Studio Instructor in Trumpet
 1996; B.M., Northwestern University; Free-lance professional

Kimberly J. Vrudny
Assistant Professor of Theology
 2001; B.A., Gustavus Adolphus College; M.A., United Theological Seminary; Ph.D., Luther Seminary

Christopher S. Vye
Assistant Professor of Professional Psychology
 1999; B.A., Ph.D., University of Minnesota

W

Lisa K. Waldner
Associate Professor of Sociology
 2001; B.A., M.A., Minnesota State University (Mankato); Ph.D., Iowa State University

William J. Walsh
Associate Professor of Economics
 1970; B.A., St. Mary's University (Minnesota); M.A., Ph.D., University of Notre Dame

Zhiwei Wang
Assistant Professor of Software Engineering
 2001; B.S., M.S., Wuhan University; M.S., Ph.D., University of Regina

Rev. Martin L. Warren
Assistant Professor of English
 1998; B.A., Oscott College (Birmingham, England); M.A., St. John's University (Minnesota); Ph.D., University of Minnesota

Douglas F. Warring
Professor of Education
 1974; B.A., Bethel College; M.A., University of St. Thomas; Ph.D., University of Minnesota

Susan V. Webster
Associate Professor of Art History
 1992; B.A., Reed College; M.A., Williams College; Ph.D., University of Texas (Austin)

Michael P. Weigl
Associate Professor of Theology
 2002; M.A., Ph.D., University of Vienna

Ursula H. Weigold
Director of Legal Writing, School of Law
Associate Professor of Law
 2001; B.J., B.A., University of Texas (Austin); J.D., University of Texas School of Law

Arnold M. Weimerkirsch
Thwait's 3M Chair
 2000; B.S., M.S., University of Minnesota

Leora S. Weitzman
Assistant Professor of Philosophy
 2000; A.B., Ph.D., Stanford University

Matthew R. Welch
Member of Adjunct Faculty in Art History
 1995; B.A., Trinity University; M.A., M.Phil., Ph.D., University of Kansas

John T. Wendt
Assistant Professor of Legal Studies in Business
 2002; B.A., M.A., University of Minnesota; J.D., William Mitchell College of Law

Frederick J. Wenzel
Distinguished Service Professor of Management
 1996; B.S., Wisconsin State University (Stevens Point); M.B.A., University of Chicago

Robert J. Werner
Professor of Geography
 1991; B.A., Montana State University; M.A., University of Wyoming; Ph.D., University of Minnesota

Mark E. Werness
Associate Professor of Quantitative Methods and Computer Science
 1980; B.A., Carleton College; M.S., Ph.D., University of Minnesota

Karen L. Westberg
Associate Professor of Education
 2000; B.A., Augsburg College; M.S., Ph.D., University of Connecticut

Shanan Custer Wexler
Member of Adjunct Faculty in Theater
 1998; B.A., College of St. Catherine; M.A., University of Maryland (College Park)

Virgil Wiebe
Director of Clinical Education, School of Law
Assistant Professor of Law
 2002; B.A., Kansas State University; M.Phil., Oxford University; J.D., New York University School of Law

Troy C. Wilhelmson
Member of Adjunct Faculty in Theater
 1999; B.S., Carroll College; M.A., University of North Dakota (Grand Forks)

Miriam Q. Williams
Dean, School of Education
Associate Professor of Education
 1978; B.S., West Chester University; M.A., Ph.D., The Catholic University of America

Bradley Kemp Wilson
Assistant Professor of Economics
 2002; B.A., University of Montana; Ph.D., University of Kansas

Chester E. Wilson
Laboratory Coordinator in Biology
 1993; B.A., Duke University; M.S., University of Oregon; Ph.D., State University of New York (Stony Brook)

Randy S. Winkler
Member of Adjunct Faculty in Theater
 2000; B.A., University of St. Thomas

Michael J. Winter
Associate Professor of Philosophy
 1992; B.A., University of St. Thomas; M.A., Ph.D., University of Minnesota

University Faculty

Carol Ann Winther

Member of Adjunct Faculty in Theater
1999; B.A., M.A., University of Minnesota

Paul J. Wojda

Associate Professor of Theology
1992; B.A., University of Notre Dame; M.A., Yale University Divinity School; Ph.D., University of Notre Dame

Barbara L. Wolfe

Associate Professor of Education
1996; B.S., Carroll College; M.Ed., University of Wisconsin (Whitewater); Ph.D., University of Wisconsin (Madison)

George M. Woytanowitz

Member of Adjunct Faculty in History
1987; B.A., University of St. Thomas; M.A., University of Chicago; Ph.D., The Johns Hopkins University

Jennifer L. Wright

Associate Professor of Law
2003; B.A., Swarthmore College; J.D., Stanford Law School

Scott K. Wright

Professor of History
1968; B.A., M.A., Ph.D., University of Minnesota

Y

Seung Ai Yang

Assistant Professor of Sacred Scripture, School of Divinity
1998; B.A., M.A., Sogang University (Seoul); M.A., Marquette University; Ph.D., University of Chicago

Yongzhi (Peter) Yang

Associate Professor of Mathematics
1993; B.S., M.S., Northeast University of Technology (People's Republic of China); M.S., Ph.D., University of Illinois (Chicago)

Heekyung Kang Youn

Professor of Mathematics
1984; B.S., Sogang Jesuit University (Seoul); Ph.D., University of Minnesota

Merra L. Young

Member of Adjunct Faculty in Social Work
1996; B.A., M.S.W., University of Iowa

Peter C. Young

Blanch Chair in Risk Management
Professor of Risk Management and Insurance
1994; B.A., Augustana College; M.P.A., University of Nebraska; Ph.D., University of Minnesota

Victoria M. Young

Assistant Professor of Art History
2000; B.A., New York University; M.ArchH., University of Virginia

Z

Peter Zelles

Member of Adjunct Faculty in Professional Psychology
1992; B.A., Macalester College; M.A., University of St. Thomas; Ph.D., California School of Professional Psychology-Berkeley

Kyle D. Zimmer

Assistant Professor of Biology
2003; B.A., Luther College; M.A., St. Cloud State University; Ph.D., North Dakota State University

Frederick M. Zimmerman

Professor of Engineering
1981; B.A., Ph.D., University of Minnesota

Larry J. Zimmerman

Studio Instructor in Trombone and Euphonium
2000; B.A., St. Olaf College; M.M., Boston University

Nancy H. Zingale

Executive Assistant to the President
Professor of Political Science
1976; A.B., University of Rochester; M.A., Washington University (St. Louis); Ph.D., University of Minnesota



Retired Faculty**James G. Ahler***Assistant Professor of Sociology*
1967-2000**Martin Allen***Professor Emeritus of Chemistry*
1956-1984**Paul Alper***Associate Professor Emeritus of Quantitative Methods
and Computer Science*
1976-1998**Sister M. Christine Athans, BVM***Professor Emerita of Church History, School of Divinity*
1984-2002**Richard H. Berquist***Associate Professor Emeritus of Philosophy*
1965-2001**Thomas L. Bohem***Professor of Business Administration*
1958-1983**Harriet Burns***Professor of Education*
1973-1988**Richard J. Connell***Professor of Philosophy*
1963-1990**Joseph B. Connors***Professor of English*
1946-1955; 1964-1982**Rev. Thomas J. Conroy***Assistant Professor of Theology*
1968-1997**DuWayne R. Deitz***Assistant Professor of Health and Human Performance*
1970-1997**William M. Delehanty***Associate Professor Emeritus of History*
1964-2003**Harriet Ebeling***Associate Professor of Education*
1967-1989**Thomas J. Feely***Assistant Professor of Health and Human Performance*
1954-1990**James Filkins***Professor of Finance*
1977-1994**Joseph N. Flood***Assistant Professor of Health and Human Performance*
1963-1997**Bernice M. Folz***Professor Emerita of Software Engineering*
1977-2004**Robert C. Foy***Associate Professor Emeritus of English*
1973-2001**Jane Frazee***Assistant Professor of Music*
1991-2001**Tadeusz Gierymski***Assistant Professor of Psychology*
1954-1989**Richard P. Goblirsch***Professor of Mathematics*
1964-1995**George M. Golden***Associate Professor of Management*
1990-2003**Roy J. Gosselin***Assistant Professor of Business Administration*
1956-1982**Demos Hadjiyanis***Professor of Economics*
1965-1991**Paul J. Hague***Assistant Professor of English*
1955-1990**Gerald J. Hahm***Assistant Professor of Mathematics*
1961-1996**Thomas E. Holloran***Professor Emeritus of Management*
1985-2002**J Macoubrey Hubbard***Associate Professor Emeritus of Philosophy*
1973-2003**James E. Hundley***Assistant Professor of Spanish*
1977-2003**Eric Jaede***Associate Professor of Quantitative Methods and
Computer Science*
1979-2000**Norman L. James***Professor of Professional Psychology*
1991-2004**Stanley C. Johnson***Associate Professor of Management*
1977-1995**Dale Kramm***Assistant Professor of Latin and Greek*
1960-1990**Patrick H. Lally***Assistant Professor of English*
1960-1997

Retired Faculty

Norman W. Larson

*Assistant Professor of Journalism and Mass
Communication*

1968-2000

James J. Leigh

Associate Professor of Physics

1961-1995

Rev. Roy C. Lepak

Associate Professor of Theology

1966-1990

Robert D. Lippert

Assistant Professor of English

1955-1989

Francis G. Mach

Associate Professor of Health and Human Performance

1968-1998

William L. Madsen

Professor of Professional Psychology

1975-1993

Joseph A. Mason

Assistant Professor of Accounting

1977-2000

Francis N. Mayer

Professor of Music

1947-1982

Warren McIntire

Professor of Management

1978-1992

Richard R. Meierotto

Professor of Biology

1961-1995

Eileen Michels

Professor Emerita of Art History

1974-1992

Len F. Minars

Assistant Professor of Accounting

1979-2002

Shelly Ann Moorman

Assistant Professor of Spanish

1968-2004

Richard J. Morath

Professor of Chemistry

1957-1992

Rev. James Motl, OP

*Associate Professor Emeritus of Homiletics, School of
Divinity*

1985-2002

Merritt C. Nequette

Associate Professor Emeritus of Music

1977-2002

David H. Nimmer

*Assistant Professor of Journalism and Mass
Communication*

1989-2000

William L. O'Neill C.P.P.S.

Associate Professor of Psychology

1974-1999

Roger R. Palmer

Assistant Professor of Finance

1982-2001

Rev. James E. Reidy

Associate Professor of English

1958-1996

Rev. John Riley

Associate Professor of Theology

1957-1994

Vincent Rush

Professor of Theology

1967-1988

James A. Ryan

Professor of Chemistry

1959-1989

William E. Salesses

Professor Emeritus of Education

Monsignor John P. Sankovitz

Assistant Professor of Theology

1980-1997

Richard F. Sauter

Associate Professor Emeritus of Marketing

1990-2002

Mabel Schleif

Associate Professor of Education

1972-1991

Jacob A. Schmitt

Assistant Professor of Education

1975-1990

Joseph J. Schramer

Instructor in Accounting

1961-1976; 1977-1998

Mohamed Ali Selim

Director, Center for Senior Citizens Education

Director, Center for Economic Education

Associate Professor of Economics

1959-2004

Daniel R. Sevenich

Senior Member of Adjunct Faculty in Accounting

1956-1998

William B. Silverman

Professor of Biology

1959-1990

E. Arnold Spencer

Assistant Professor of Speech and Theater

1960-1974

Rev. James S. Stromberg

Professor Emeritus of Philosophy

1956-1999

Rawlie R. Sullivan

Professor Emeritus of Marketing
1987-2004

Mary R. Supel

Assistant Professor of Economics
1976-2002

Mary T. Swanson

Professor Emerita of Art History
1979-2002

Albert O. Trostel

Professor Emeritus of Management
1977-1999

Peter B. Vaill

Professor of Management
1997-2004

Robert E. Veverka

Assistant Professor of Business Administration
1976-1989

Hubert R. Walczak

Professor of Mathematics
1963-1995

Rev. Peter E. Wang

Professor of Theology
1967-1996

Harry C. Webb

Associate Professor of Education
1954-1990

Rev. George A. Welzbacher

Instructor in History
1966-1995

Melvin D. Williams

Associate Professor Emeritus of Finance
1976-2004

Mary Lou Wolsey

Associate Professor Emerita of French
1976-2001

Robert H. Woodhouse

Associate Professor of Management
1983-2001

Jean Zilisch

Associate Professor of Education
1976-1987



Index

Index

Academic affairs	278
Academic calendars 2004-2006	2, 3
Academic counseling	38
Academic Development Program	38
Academic dismissal	36
Academic probation	35
Academic progress – financial aid	18
Academic Support Center	38
Academic support services organization	280
Academic suspension	36
ACC	39
Accounting, Department of	226
Accreditation of the university	12
ACTC majors and minors	31
ACTC	24
Actuarial Science	198
Addition of major, minor, or degree	31
Administrative Services organization	280
Admission application procedures	13
Admission policies	13
Admission visits	13
ADP	38
Advanced placement credits	14
Advertising, concentration in	122
Advisers, faculty	38
Advisers, major field	39
Aerospace Studies, Department of	60
Air Force ROTC scholarships	19
All College Council	39
American Cultural Studies, minor in	199
<i>Aquin</i>	40
Aquinas Scholars honors program	24, 37
<i>Aquinas</i>	40
Army ROTC scholarships	20
Art History, Department of	62
Assessment programs	13
Associated Colleges of the Twin Cities (ACTC)	24
Athletic facilities	46
Athletics, intercollegiate	40
Attendance	33
Audit	33
Auditoriums	46
Baccalaureate degrees	22
Bands	40
Beakers	43
Behavioral neuroscience, concentration in	169
Binz Refectory	43
Biochemistry	201
Biology (teaching licensure)	255
Biology, Department of	67
Board of Trustees	277
Bookstores	46
Box office & expeditions	42
Broadcast journalism, concentration in	122
Business administration, major in	222
Business administration, minor in	224
Business Communication, concentration in	234
Business semester in London	52
Cadet internship program	62
Calendars, academic 2004-2006	2, 3
Campus ministry	41
Campuses	11
Career counseling	42
Career development services	42
Catalog of record	35
Catholic Studies in Rome	52
Catholic Studies, Department of	74
Center for Women	45
Center for Writing	39
Change of grade	35
Changes in registration	33
Chapels	44
Chemical Dependency Counseling	274
Chemistry (teaching licensure)	253
Chemistry, Department of	77
Choirs	40
City of Minneapolis scholarships	19
Classical Civilization	202
Classical languages	132
CLEP	15
CLIC	45
Clubs, student	39
Coffee Cart	43
College expenses	18
College level examination program (CLEP)	15
College of Arts and Sciences organization	278
College of Business organization	279
Colleges and schools of the university	12
Co-majors	23
Committee on Studies	36
Committee participation	39
Communication (teaching licensure)	243, 248
Communication Arts and Literature (teaching licensure)	243, 248
Communication services (IRT)	39
Communication Studies, Department of	82
Community college students' scholarships	19
Community Health Education, major in	107
Commuter Center	42
Computer Competency requirement	29
Computer labs	45
Computer science, Department of QMCS	174
Consortium of Twin Cities colleges	24
Cooperating Libraries in Consortium (CLIC)	45
Core Curriculum	25
Corporation officials	277
Counseling, academic	38
Counseling, career	42
Counseling, personal	41
Course load	32
Course unit	47
Courses, definition of	32
Courses, generic	47
Courses, re-taking	34
Courses, withdrawal from	33
Credit by examination	16
Credit waivers	17
Credits toward admission	14
Criminal Justice, major in	180
C-Store	43
<i>Cum laude</i> requirements	37
Dance and Theatre Arts (teaching licensure)	249
Date of graduation	35
Dean of Student Life Office	41
Deans' honor lists	37
Degree progress	35
Degree requirements	25
Degree, addition after graduation	31
<i>Delta Epsilon Sigma</i>	37

Department honor societies	37	Geography, Department of	100
DES	37	Geology (teaching licensure)	254
Dining facilities	43	Geology, Department of	103
Disability, learning and physical	38	German (teaching licensure)	247, 258
Dismissal, academic	36	German	137
Dismissal, readmission after	36	Glasgow English Semester	52
Diversity requirement	28	GPA	35
Dual degree – mechanical engineering/general business management	266	Grade change	35
Dummer Center for Women	45	Grade point total and average	35
Earth and Space Science (teaching licensure)	254	Grade reports	35
East Asian Studies	203	Grades	34
Economics, Department of	87	Graduate Programs in Software organization	280
Education, London semester	53	Graduate School of Professional Psychology organization	280
Electrical engineering	264	Graduation, date of	35
Electronic music production, minor in	147	Grants	20
Elementary teaching licensures	243	Greek	134
Engineering scholarships	19	Grill	43
English (teaching licensure)	243, 248	Health and Fitness requirement	30
English requirement	26	Health and Human Performance, Department of	107
English semester in Glasgow	52	Health Education – non-licensure, major in	109
English with writing emphasis	93	Health Education (teaching licensure)	250
English, Department of	92	Health Promotion – science emphasis, major in	108
Enhancement Program	38	Health Promotion, major in	108
Ensembles, music	151	Health service	43
Ensembles, musical	40	HECUA	54
Entrepreneurship, Department of	227	High school credits toward admission	14
Environmental Studies	204	High school credits, post-secondary option	15
Examinations, final	32	Higher Education Consortium for Urban Affairs	54
Exchange courses	32	Historical Studies requirement	27
Expeditions & box office	42	History of the university	11
Experiential learning courses	47	History requirement	27
Faculty advisers	38	History, Department of	115
Faculty committees, student participation	39	Honor lists	37
Faculty	282	Honor societies	37
Faculty, retired	305	Honors program	24
Faith and the Catholic Tradition requirement	27	Housing	43
Family Studies	206	Human Diversity requirement	28
Federal Pell grants	20	Human Resource management, concentration in	235
Federal Perkins loans	21	Incompletes	34
Federal PLUS loans	21	Individual study courses	48
Federal subsidized Stafford loans	20	Individualized majors and minors	31
Federal Supplemental Education Opportunity	20	Information Resources and Technologies organization	281
FERPA policy	36	Information Resources and Technologies	39
Film club	41	Instrumental and Classroom Music (teaching licensure)	251
Film, minor in	185	Intercollegiate athletics	40
Final examinations	32	Interdisciplinary courses	49
Finance and administration organization	281	International baccalaureate	14
Finance, Department of	229	International business, concentration in	223
Financial aid	18	International business, language intensive	139
Financial aid – satisfactory academic progress	18	International Education	52
Financial aid application	18	International programs	52
Financial aid awards and renewals	18	International student services	42
Financial aid policy regarding withdrawal	21	International students	17
Fine Arts requirement	27	International Studies	207
Florance Chapel	44	Internship courses	47
Food Court	43	Intramural activities	40
Food for Thought	43	Ireland library	45
Foreign language requirement	28	Irish Gaelic	140
French (teaching licensure)	247, 258	January term	25
French	135	Japanese	140
Freshman status	35	Jazz studies, minor in	147
General business management	222		
Generic courses	33, 47		
Geographic Information Systems	100		

Index

Journalism and Mass Communication, Department of	121	Music performance studies	153
J-term	25	Music scholarships	19
Junior status	35	Music, Department of	144
Justice and Peace Studies	208	Musical organizations	40
Keffer library	45	National Merit finalists' scholarships	19
Language and Culture requirement	28	Natural Science requirement	26
Languages (teaching licensure)	247, 258	Navy ROTC scholarships	20
Latin honors	37	New student scheduling	32
Latin	133	Non-degree students	18
Law School chapel	45	O'Shaughnessy-Frey library	45
Leadership and management, concentration in	236	Off-campus programs	52
Learning disability program	38	Off-campus services	42
Legal Studies in Business, Department of	233	Operations management, concentration in	237
Legal Studies, minor in	212	Organization and personnel	277
Liberal arts semester in Paris	52	Organization of the university	12
Libraries	45	Organizations, student	39
Library consortium (CLIC)	45	Parents-on-campus program	59
Life Science (teaching licensure)	255	Paris, Liberal arts semester in	52
Life/Work Center	41	Parking services	44
Literary Studies	213	Pass/fail grading	34
Literature and Writing requirement	26	Pell grants	20
Liturgical music, concentration in	145	Perkins loans	21
Locations of campuses	11	Personal counseling	41
London Business Semester	52	Philosophy requirement	26
London Education semester	53	Philosophy, Department of	156
Luann Dummer Center for Women	45	Physical disability program	38
<i>Magna cum laude</i> requirements	37	Physical Education (teaching licensure)	253
Major field advisers	39	Physical Education requirement	30
Major, addition after graduation	31	Physics (teaching licensure)	256
Majors	22	Physics, Department of	160
Majors and minors	6	Pit Stop	43
Majors at ACTC institutions	31	PLUS loans	21
Majors, individualized	31	Political Science, Department of	164
Majors, requirements for	30	Post-secondary enrollment option credits	15
Management, Department of	234	Pre-dentistry	57
MaRC	38	Pre-engineering	56
Marine Corps ROTC scholarships	20	Pre-health professions	57
Marketing, Department of	240	Pre-law	58
Mathematics (teaching licensure)	244, 250	Pre-medicine	57
Mathematics requirement	26	Pre-pharmacy	57
Mathematics Resource Center	38	Pre-professional programs	56
Mathematics scholarships	19	President's office	278
Mathematics, Department of	127	Priesthood preparation	56
Mechanical engineering	265	Print journalism, concentration in	121
Media studies, concentration in	122	Probation, academic	35
Memberships of the university	12	Progress toward a degree	35
Middle East Studies, minor in	213	Psychology, Department of	168
MiniTex	45	Public relations, concentration in	122
Minneapolis, City scholarships	19	Public Safety	44
Minnesota state grants	20	Quantitative Methods and Computer Science, Department of	174
Minor, addition after graduation	31	Readmission after suspension, dismissal	36
Minors	23	Readmission policies	18
Minors and majors	6	Real Estate Studies	230
Minors at ACTC institutions	31	Refund policies, institutional and state	22
Minors, individualized	31	Registration changes	33
Minors, requirements for	31	Registration	32
Mission of the university	10	Renaissance Program	59, 215
Modern and Classical Languages, Department of	132	Renewal of financial aid	18
Moral and Philosophical Reasoning requirement	26	Requirements for a degree	25
Multicultural excellence program scholarships	19	Requirements for a major	30
Multicultural student services	42	Research courses	48
Music business, concentration in	146	Residency requirement	31
Music Education	251	Re-taking courses	34
Music ensembles	151	Retired faculty	305

Rome, Catholic Studies in	52	Student yearbook	40
Rome, Fall semester in	53	Studies committee	36
ROTC cadet internship program	62	Study abroad	52
ROTC scholarships	19, 20	Subsidized Stafford loans	20
Russian	141	<i>Summa cum laude</i> requirements	37
Russian, Central and East European Studies	216	Summer sessions	25
Satisfactory academic progress – financial aid	18	Summit Avenue Review	40
Scheduling as a new student	32	Superior Studies at Wolf Ridge	55
Scholarships	19	Suspension, academic	36
School of Education organization	280	Suspension, readmission after	36
School of Engineering organization	280	Table of contents	4
School of Engineering	264	Teacher Education, Department of	242
School of Law organization	280	Telephone services (IRT)	39
School of Social Work organization	280	Testing services	41
Science (teaching licensures)	245-248	Theater (teaching licensure)	249
Science and Mathematics for Elementary Education	245	Theater	40
Science facilities	46	Theater, Department of	184
Science scholarships	19	Theaters	46
Scooter's	43	Theology requirement	27
S-D-R grading	34	Theology, Department of	188
Secondary Education	248	Title IV aid	21
Secondary teaching licensures	248	Topics courses	47
SELF	21	Transcripts	35
Semesters	25	Transfer courses	33
Seminar courses	48	Transfer student credit	17
Seminary training	56	Undergraduate vision statement	10
Senior residency requirement	31	University faculty	282
Senior status	35	University Relations organization	281
SEOGs	20	Unsubsidized Stafford loans	20
SMEE	245	Urban Studies, minor in	218
Social Analysis requirement	27	Veterans	17
Social Sciences	217	Vision statement, undergraduate	10
Social Studies (teaching licensure)	247, 257	Visual communication, minor in	123
Social studies requirement	27	Vital statistics	12
Social Welfare, minor in	272	Vocal and Classroom Music (teaching licensure)	252
Social Work, School of	271	Waiver of credits	17
Sociology and Criminal Justice, Department of	179	Washington Semester	55
Sophomore status	35	Wellness center	44
Spanish (teaching licensure)	247, 258	Withdrawal from a course	33
Spanish	142	Withdrawal from the university	34
Special curricula	24	Withdrawal, financial aid policy	21
Special Education, Department of	263	Wolf Ridge, Superior Studies at	55
S-R grading	34	Women's Center	45
St. John Vianney Chapel	44	Women's Studies	218
St. John Vianney Seminary	56	World Languages (teaching licensure)	247, 258
St. Mary's Chapel	44	Writing center	39
St. Paul Seminary School of Divinity organization	280	Yearbook	40
St. Thomas Aquinas Chapel	44		
St. Thomas More Chapel	45		
Stafford loans	20		
Statistics of the university	12		
Student Affairs Life/Work Center	41		
Student Affairs organization	280		
Student classification	35		
Student Education Loan Fund (SELF)	21		
Student health service	43		
Student life policies	41		
Student life	39		
Student life, dean's office	41		
Student literary magazine	40		
Student newspaper	40		
Student organizations and clubs	39		
Student Policy Book	41		
Student publications	40		
Student work program	21		





UNIVERSITY of ST. THOMAS

University of St. Thomas
2115 Summit Avenue
St. Paul, MN 55105-1096