SCP Projects: 2016-2023

SCP expands partners' capacity to address long-standing and emerging sustainability challenges facing our communities and prepares University of St. Thomas students to be sustainability leaders and collaborators in their future careers.

Partner	Project	Course
City of Big Lake (2017-2019)	Analyzing Costs and Benefits of Going Paperless	Service Operations Management
	Developing Design Ideas for a Bandshell	Engineering Graphics and Design
	Designing Natural Playgrounds	Engineering Graphics and Design
	Designing Parks for Experiential Engagement	Psychology for Sustainability
	Marketing the Northstar Village and City of Big Lake Marketplace	Marketing Management
	Minnesota Avenue Pedestrian and Bicycle Safety Demonstration Project	Transportation Engineering
	Surveying Residents' Preferences for Environmental Amenities	Marketing Research
	Assessing Ridesharing Opportunities for City of Big Lake Commuters	Marketing Research
City of Cottage Grove	Analyzing the Effects of a Smart Irrigation Controller Subsidy Program	Economics of the Public Sector
(2019-2020)	Investigating Benefits of and Barriers to Residential Outdoor Water Conservation	Psychology for Sustainability
	Open Space Connectivity and Park Information Mapping	Applied Geographic Information Systems
City of Delano (2016)	Analyzing Energy Efficiency Upgrades of Public Infrastructure	Managerial Decision Making & Economics of the Public Sector
City of Elk River (2016-2017)	Bike Route Analysis	Geographic Information Systems
	Climate Adaptation: Learning from Historical Perspectives	History and Climate
	Creating a Solar-Powered Picnic Table Prototype	Engineering Senior Design Clinic



City of Elk River	Decreasing Use of Plastic Shopping	Christian Faith and the
(2016-2017)	Bags (multi-year project)	Management Professions
(2010/2017)	Decreasing Use of Polystyrene	Christian Faith and the
		Management Professions
	Developing Public Relations	Christian Faith and the
	Information for Organics and Recycling	Management Professions
	Evaluating Current Solid Waste Rate	Industrial Organizational
	Structure	
	Examining Effects of Climate Change	Conservation Biology
	on Tree Species	
	Floodplain Assessment	Applied Geographic
		Information Systems
	Fostering Sustainable Behaviors with	Psychology and Work
	City Employees	
	Green Roof Design	Environmental Problem Solving
	Marketing "Energy City"	Applied Business Research
	Modeling Pollutant Levels in Lake	Aquatic Biology &
	Orono After Rainfall Events	Environmental Problem
		Solving
	Park Trail Mapping	Geographic Information Systems
	Translation for Climate-Smart	Introduction to German
	Municipalities	Studies
	Wetland Buffer Assessment	Geographic Information Systems
	William H. Houlton Conservation Area Mapping	Geographic Information Systems
City of St. Paul	City of Saint Paul Fleet Services Vehicle	Service Operations
(2020)	Idling Reduction	Management
City of Woodbury	Analyzing Sustainable Waters Future	Construction and
(2020-2023)	Policy	Engineering Economic Analysis
	Analyzing Water Savings from	Environmental Problem
	Woodbury's Residential Smart	Solving
	Irrigation Program	5
	Reanalysis of Woodbury Smart	Environmental Problem
	Irrigation Controller data	Solving
	Stormwater Basin Study (multi-phase	Environmental Geology &
	project)	Introduction to
		Environmental Science
	Urban Tree Canopy Plan	Senior Research Seminar
Caponi Art Park	Analyzing User Accessibility of Website	Introduction to
(2020-2023)		Professional Writing



Caponi Art Park	Caponi Art Park Habitat Assessment	Environmental Science
(2020-2023)		Capstone
	Designing a Nature Tour Guide for	Design Concepts in
	Caponi Art Park (multi-phase project)	Communication & Plants,
		Food, and Medicine
	Developing Nature Interaction Stations	Psychology for
	at the Caponi Art Park	Sustainability
	Developing STEAM Lesson Plans for	Statics, Materials, and
	Park Sculptures	Structures
	Interactive Web Design to Explore the	Writing and Designing for
	Ecology of the Caponi Art Park	the Web
	Market Assessment for Outdoor Venue Use	Marketing Management
	Preferences for Online Educational	Marketing Research
	Programming During COVID-19	Marketing Research
	Pandemic	
Creation Care Team	Climate Vulnerability in Minnesota -	Theology and the
Serving the	Laudato Si' Action Plan	Environment
Archdiocese of Saint	Investigating College Students'	Psychology for
	Perspectives on Climate Change	Sustainability
Paul and	Recommendations to Integrate	Theology and the
Minneapolis	Environmental Justice into Laudato Si'	Environment
(2022-2023)	Action Plan	Livionment
Freshwater Society	Designing Urban Garden Perimeter	Plants, Food, and Medicine
2016-2017)	Plantings	
	Examining Urban Agriculture as a	Urban Ecosystem Ecology
	Stormwater Best Management Practice	
	Marketing and Recruitment for Master	Advertising Portfolio
	Water Stewards	
	Modeling Mining Impacts on	Center for Applied Math
	Groundwater	
	Strategic Communication for Master	Writing for Strategic
	Water Stewards	Communications
	User-Centered Design: Creating an	Systems Analysis and
	App for Tracking Stormwater Projects	Design II
	and Volunteer Hours	0
GreenStep Cities	Recommendations for Alignment and	Construction and
(2022-2023)	Integration of Envision into Green Step	Engineering Economic
	Cities Resources (multi-year)	Analysis
	GIS Analysis to Support Sustainability	Geographic Information
	Best Practices	Systems
Keys4/4Kids	Designing Musical Instruments from	Introduction to
(2022-2023)	Discarded Piano Parts	Engineering Design &
(=		Music and the Creative
		Process
	L	1100000



Melinda Vaughn School Pollinator Fund (2022-2023)	Developing Community Outreach Materials about the Importance of Pollinators	Plants, Food, and Medicine
Metro Transit (2017-2022)	"College Pass" Market Research	Advanced Business Research
	A Study in Organizational Change: Metro Transit Main Campus Expansion	Business Writing
	Advertising and PR for the 63 Bus Line	Principles of Strategic Communication
	Assessing Perceptions of Public Health Safety of Ride Share Options during COVID-19	Marketing Research
	Designing a Bus Bike Rack Demo	Senior Engineering Design Clinic
	Engaging Transit Riders' Stories through Art	Leadership for Social Justice
	Improving Customer Satisfaction for Native Spanish Speakers	Business Spanish
	Investigating Preferred and Sustainability Promotional Give-Aways for College Students	Marketing Research
	Market Demand Research for Metro Transit Merchandise	Marketing Research
	Preventing Littering at Transit Stops	Psychology for Sustainability
	St. Thomas Shuttle Use	Marketing Research
	Strategic Communications to Promote Transit Lines to College Students	Writing for Strategic Communications
	Tracking Metro Transit Advertising Inventory	Decision Analysis
	Tracking Metro Transit's Fleet Vehicles	Services Operations Management & Systems Analysis and Design II
	Transit Surveys	Marketing Research
Metropolitan Council (2017-2023)	Analyzing Equity, Inclusion, and Justice Implications of Potential Climate Action Strategies	Environmental Policy
	Analyzing Viewsheds for the Mississippi River Corridor Critical Area Program and Future Recommendations (multi-phase project)	Art and the Environment
	Climate Planning	Society and Sustainability



Metropolitan	Climate Vulnerability Assessment:	Environmental Studies
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Council	Extreme Heat Report	Capstone
(2017-2023)	Community Climate Change	Environmental Writing and
	Conversations	Community Outreach
	Earth's Record of Climate in Twin Cities	Earth's Record of Climate
	Lakes	
	Examining the Urban Tree Canopy	Environmental Studies
		Capstone
	Factsheets for Climate Resiliency	Policy Writing and Rhetoric
	Planning	
	Heat and Flooding Story Maps	Geographic Information
		Systems
	Metro-wide Tree Planting Prioritization	Advanced Geographic
	Analysis	Information Systems
	Promoting Employment Opportunities	Writing for Strategic
	with the Metropolitan Council	Communication
	Recommendations for Climate	Visual Rhetoric and Design
	Vulnerability Visuals for City Staff	viedal fille constant 2 congil
	Recommendations for Engaging with	Leadership for Social
	Communities about Environmental	Justice
	Justice	505000
	Stories of Climate Vulnerability in the	City Lights: Urban
	-	
	Twin Cities	Experience Environmental Science
	Sustainability Landscape Analysis at	
	Metropolitan Council Wastewater	Capstone
	Treatment Plants	
	User Assessment of Growing Shade	Marketing Research
	Resources	
Mississippi	Analyzing the Mississippi Watershed	Environmental Science
Watershed	Management Organization's Water	Capstone
Management	Reuse Projects and Developing	
Organization	Recommendations for Future Projects	
(2016-2020)	Culturally Diverse Environmental	Large Client Systems
(Engagement	
	Designing Stormwater Management	Psychological Testing
	and Water Quality Surveys	
	Evaluating Stormwater Management	Environmental
	Graphics	Communication
	Examining Land Use Scenarios for	Environmental Problem
	Vacant Lots	Solving
	Exploring Mississippi River	Society and Sustainability
	Experiences	
	Mississippi River Corridor Habitat	Environmental Science
	Assessment	Capstone
	Mississippi River Stories Art Exhibit	Society and Sustainability
	iviississippi kiver stories Art Exhibit	society and sustainability



Mississippi	Organizational Communication with	Organizational
Watershed	Volunteers	Communication
	Public Media for Master Water	Analytical and Persuasive
Management Organization	Stewards	Writing
-	River Stories: The Mississippi River and	Critical Thinking:
(2016-2020)	Ideas of Sanctuary	Lit/Writing
	Stormwater Best Management	Engineering in the P-12
	Practices Curriculum Units	Classroom
	Urban Agriculture Ethnography	Ethnographic Writing
	Oak Park Outdoor Improvement	Civil Engineering Senior
Pillsbury United	Project	Design
Oak Park Farm	Urban Agriculture Grant Writing	Writing Grants and
(2019-2020)		Proposals
PLACE	Affordable Living	Economics of the Public
(2017-2019)	5	Sector
	Analyzing and Communicating Costs	Managerial Decision
	for PLACE's EcoVillage Development	Making
	Analyzing Sustainability Infrastructure	Construction and
		Engineering Economic
		Analysis
	Creating a Holistic Carbon Footprint Calculator for PLACE	Urban Ecosystem Ecology
	Designing an 'Energy Champion' App	Systems Analysis and
	for PLACE's EcoVillage Development	Design II
	Developing a Marketing Strategy for PLACE	Marketing Management
	Developing Survey Constructs for Happiness and Well-Being	Psychological Testing
	Exploring Issues of Funding and Policy for Affordable Living	Law and Economics
	Gathering Stories of PLACE	Leadership for Social
	Developments	Justice
	Using Models to Explore Sustainability	Environmental Problem
	Goals and Tradeoffs	Solving
University of St.	Developing Behavior Change	Psychology for
Thomas Dining	Strategies to Reduce Food Waste at	Sustainability
Services	the View and Northsider	
(2023)		
University of St.	Bicycle and Pedestrian Safety on	Transportation
Thomas Facilities	Campus	Engineering
(2018)	Designing Bike Racks	Engineering Graphics and Design
	Developing a Bicycle Master Plan	Advanced Business Research



University of St.	Developing a Medicinal Plant Guide	Plants, Food, and Medicine
Thomas Medicinal Garden	Developing a medicinal Flant Guide	riants, rood, and Medicine
(2021)		
University of St. Thomas Pollinator Path	Creating Interactive Activity Guides and Designs for Experiential Engagement for the St. Thomas Pollinator Path	Plants, Food, and Medicine & General Biology Labs
(2017-2023)	Designing St. Thomas Pollinator Path Gardens as an Immersive Experience	Engineering Graphics and Design
	Developing Content for the University of St. Thomas Pollinator Path	Intermediate Spanish 1 & The Christian Theological Tradition
	Little Free Library Design	Engineering Graphics and Design
	Modeling Pollinator Movement and Behavior	Center for Applied Math
	Reimagining Processes for Pollinator Counts on the St. Thomas Pollinator Path	Introduction to Engineering Design
	St. Thomas Pollinator Path Outreach	Marketing Research
	Surveying the St. Thomas Pollinator Path on South Campus	Surveying
	Modeling Nutrient Dynamics	Environmental Problem Solving
University of St. Thomas Sustainability	Analysis of Community Environmental Justice Interviews for Faculty Learning Resources	Qualitative Methods: Research for Social Justice
Initiatives (2017-2023)	Developing Virtual Exhibits	Writing and Designing for the Web
	Video Production to Document Stories of Sustainability	Environmental Communication
	Newsletter Template Design	Design Concepts in Communication
	Applying Biology to Communicate and Inform Campus Sustainability Initiatives	Biology of Sustainability
	Applying Moral Theories to Inform Campus Sustainability Strategic Planning	Introductory Ethics
	Highlights of Sustainability Achievements at the University of St. Thomas	Critical Thinking: Lit/Writing
	Researching Sustainability Give-aways for St. Thomas	Marketing Research



	Sharing Stories of Sustainability Leadership among Staff and Alumni	Theology and the Environment
	Surveying Visions for Sustainability at St. Thomas	Marketing Research
Walker Art Center (2021)	Developing STEAM Curriculum for Minneapolis Sculpture Garden Structures	Statics, Materials, and Structures

