

GLOBAL SOLUTIONS IN ENGINEERING TECHNOLOGY MINOR

Global Solutions in Engineering Technology

College of Science, Engineering and Technology
Advising Center
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Website: www.cset.mnsu.edu

Locations: Mankato Campus, Mesabi Range Community and Technical College, Normandale, and 7700 France

Global experiences are difficult to fit into a traditional engineering program because of credit expectations and sequential course offerings. This minor in the context of engineering experiences and with a focus on cultural learning will create a pathway for students to develop cultural and language skills desired by our regional employers. Through the resulting minor, graduates will be produced with an expanded set of skills to address global problem solving in engineering and technology.

Policies: This minor includes several components. First, 16 credits of coursework from a wide range of courses offered through many programs on campus will be required in order for the student to gain a better understanding of global issues and practices. Two courses must be taken from a short list (Tier 1) of potential classes from either of the following two groups; "Culture and Communication" and "Trade and Technology." In addition to these Tier 1 courses, several additional courses must be taken from Tier 2 options in the following groups; "Culture and Communication", "Language", and "Trade and Technology." Students must take between 4 and 8 credits from the "Language" group, with the remaining credits to be taken in any combination from the remaining groups.

In addition to the course requirements given above, the students will participate in an international experience of an approved type (i.e., study abroad, international internship/coop, Engineers Without Borders projects, etc.) The students will work with program leadership in ascertaining whether the proposed experience meets the expectations of the minor.

Lastly, in preparation for and upon completion of this international experience, the student will participate twice (2 at 1 credit) in the "Global Experience in Engineering and Technology" course developed in conjunction with the minor. This seminar course will include material to prepare the students for the international experience, development of goals/objectives for the international experience, an opportunity for returning students to mentor students preparing for a similar experience, etc.

Admission Standards Admission to this minor and the associated engineering and engineering technology courses will require admission to the Engineering or Engineering Technology program in which the student is pursuing a baccalaureate degree.

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Core

Minor Core - Tier 1 Courses

Select at least two courses from either group "Culture and Communication" or "Trade and Technology", minimum 6 credits

Tier 1 Course Options - Culture and Communication Core

CMST	203	Intercultural Communication (4)
GEOG	103	Introductory Cultural Geography (3)
HIST	170	Ancient World Civilization to 1500 (4)
HIST	170W	Ancient World Civilization to 1500 (4)
HIST	171	World Civilization, 1500-Present (4)
HIST	171W	World Civilization, 1500-Present (4)
HIST	180	European History to 1648 (4)
HIST	180W	European History to 1648 (4)
HIST	181	European History: 1648 to the Present (4)
HIST	181W	European History: 1648 to the Present (4)
PHIL	205W	Culture, Identity, and Diversity (3)

Tier 1 Course Options - Trade and Technology Core

ECON	420	International Economics (3)
IBUS	380	Principles of International Business (3)
MRKT	100	Foundations of Business Concepts (3)

Program-specific Core

Take one of the following courses twice, once before and a second time after the required international experience (2 credits required).

CIVE	494	Global Experience in Engineering and Technology (1)
EE	494	Global Experience in Engineering and Technology (1)
EET	494	Global Experience in Engineering and Technology (1)
ENGR	494	Global Experience in Engineering and Technology (1)
ME	494	Global Experience in Engineering and Technology (1)

Elective

Minor Electives - Tier 2 Courses

(Minimum 10 credits from the following three groups).

Tier 2 Course Options - Trade and Technology Electives

Select from the following courses (0-6 credits).

IBUS	419	International Business Seminar (3)
IBUS	428	International Marketing (3)
IBUS	448	International Business Management (3)
IBUS	469	International Business Finance (3)
MRKT	494	Fair Trade Study Abroad in Belize (3)
RPLS	475	Public Land Use Policies (3)

Tier 2 Course Options - Language Electives

Select from the following courses (4-8 credits).

FREN	101	Elementary French I (5)
FREN	102	Elementary French II (5)
FREN	201	Intermediate French I (4)
FREN	202	Intermediate French II (4)
GER	101	Elementary German I (4)
GER	102	Elementary German II (4)
GER	201	Intermediate German I (4)
GER	202	Intermediate German II (4)
SCAN	101	Elementary Norwegian I (4)
SCAN	102	Elementary Norwegian II (4)
SCAN	292	Intermediate Norwegian I (1-4)
SCAN	293	Intermediate Norwegian II (1-4)
SPAN	101	Elementary Spanish I (4)
SPAN	102	Elementary Spanish II (4)
SPAN	193	Individual Study Abroad: Elementary Spanish I (1-6)
SPAN	194	Individual Study Abroad: Elementary Spanish II (1-6)
SPAN	201	Intermediate Spanish I (4)
SPAN	202	Intermediate Spanish II (4)
SPAN	293	Individual Study Abroad: Intermediate Spanish I (1-6)
SPAN	294	Individual Study Abroad: Intermediate Spanish II (1-6)
SPAN	355	Spanish Civilization (1-4)
SPAN	356	Latin American Civilization (1-4)
SPAN	396	Experiencing Diverse Cultures (1-3)

Tier 2 Course Options - Culture and Communication Electives

Select from the following courses (0-6 credits).

ANTH	230	Peoples and Cultures of the World (4)
ANTH	240	Language and Culture (4)
ANTH	250W	Portraits of Culture (4)
ANTH	412	Archaeology of Latin America (3)
ANTH	430	Peoples and Cultures of Latin America (3)
ANTH	443W	People and Cultures of East Asia (3)
ART	265W	Art As Politics (3)
ART	467	Art of the Islamic World (3)
ART	469	Asian Art (3)
CMST	212	Professional Communication and Interviewing (4)
CMST	225	Communicating With/Through Technology (4)
CMST	305	Communication and Community (4)
CMST	445	Conflict Management (4)
ENG	118	Diverse Cultures in Literature and Film (4)
ENG	212W	Perspectives in World Literature (4)
ENG	213W	Perspectives: Ethics and Civic Responsibility in Literature (4)
ENG	272W	Business Communication (4)
ENG	435	The World Novel (2-4)
ENG	469	Project Management in Technical Communication (4)
GEOG	341	World Regional Geography (3)

GEOG	425	Economic Geography (3)
GEOG	438	Social Geography (3)
GEOG	445	Latin America (3)
GEOG	446	Canada (3)
GEOG	450	Europe (3)
GEOG	456	Africa (3)
GEOG	458	Geography of East Asia (3)
GER	150W	The German-Speaking Countries: An Interdisciplinary Introduction (4)
GERO	450	Innovations in Aging Policy (3)
GWS	220	Global Perspectives on Women and Change (4)
GWS	220W	Global Perspectives on Women and Change (4)
HIST	402	Foundations of Judaism, Christianity, & Islam (4)
HIST	415	England since 1603 (4)
HIST	419	France since the Revolution in 1789 (4)
HIST	424	Scandinavian History (4)
HIST	431	European History: Selected Topics (1-4)
HIST	432	World History: Selected Topics (1-4)
HIST	435	East Asian History: 1945 - The Present (4)
HIST	436	History of East Asian Relations with the United States (4)
HIST	438	Modern Africa (4)
HIST	442	History of Latin America (4)
HIST	466	History of U.S. Foreign Relations in the Twentieth Century (4)
IBUS	448	International Business Management (3)
SCAN	150W	The Nordic Countries: Interdisciplinary Introduction (4)
SOC	325	Sociology of Popular Culture (3)
SOC	461	Urban Sociology (3)
SOC	463	Social Stratification (3)
SOC	482	Social Change (3)
SOWK	255	Global Responses to Human Need (3)
URBS	100	Introduction to the City (3)
URBS	150	Sustainable Communities (3)
URBS	431	Urban Design Principles (3)
URBS	461	Environmental Planning (3)
URBS	471	Urban Transportation (3)