GLOBAL SOLUTIONS IN ENGINEERING TECHNOLOGY MINOR

Global Solutions in Engineering Technology
College of Science, Engineering and Technology
Advising Center
131 Trafton Science Center N  •  507-389-1521
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/co-op, Engineers Without Boarders 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 bachelor’s degree.

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 bachelor’s degree.

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 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)
EE 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
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)
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 - Trade and Technology 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 Within/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 212W 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)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEOG 425</td>
<td>Economic Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 438</td>
<td>Social Geography</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 445</td>
<td>Latin America</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 446</td>
<td>Canada</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 450</td>
<td>Europe</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 456</td>
<td>Africa</td>
<td>3</td>
</tr>
<tr>
<td>GEOG 458</td>
<td>Geography of East Asia</td>
<td>3</td>
</tr>
<tr>
<td>GER 150W</td>
<td>The German-Speaking Countries: An Interdisciplinary Introduction</td>
<td>4</td>
</tr>
<tr>
<td>GERO 450</td>
<td>Innovations in Aging Policy</td>
<td>3</td>
</tr>
<tr>
<td>GWVS 220</td>
<td>Global Perspectives on Women and Change</td>
<td>4</td>
</tr>
<tr>
<td>GWVS 220W</td>
<td>Global Perspectives on Women and Change</td>
<td>4</td>
</tr>
<tr>
<td>HIST 402</td>
<td>Foundations of Judaism, Christianity, &amp; Islam</td>
<td>4</td>
</tr>
<tr>
<td>HIST 415</td>
<td>England since 1603</td>
<td>4</td>
</tr>
<tr>
<td>HIST 419</td>
<td>France since the Revolution in 1789</td>
<td>4</td>
</tr>
<tr>
<td>HIST 424</td>
<td>Scandinavian History</td>
<td>4</td>
</tr>
<tr>
<td>HIST 431</td>
<td>European History: Selected Topics</td>
<td>1-4</td>
</tr>
<tr>
<td>HIST 432</td>
<td>World History: Selected Topics</td>
<td>1-4</td>
</tr>
<tr>
<td>HIST 435</td>
<td>East Asian History: 1945 - The Present</td>
<td>4</td>
</tr>
<tr>
<td>HIST 436</td>
<td>History of East Asian Relations with the United States</td>
<td>4</td>
</tr>
<tr>
<td>HIST 438</td>
<td>Modern Africa</td>
<td>4</td>
</tr>
<tr>
<td>HIST 442</td>
<td>History of Latin America</td>
<td>4</td>
</tr>
<tr>
<td>HIST 466</td>
<td>History of U.S. Foreign Relations in the Twentieth Century</td>
<td>4</td>
</tr>
<tr>
<td>IBUS 448</td>
<td>International Business Management</td>
<td>3</td>
</tr>
<tr>
<td>SCAN 150W</td>
<td>The Nordic Countries: Interdisciplinary Introduction</td>
<td>4</td>
</tr>
<tr>
<td>SOC 325</td>
<td>Sociology of Popular Culture</td>
<td>3</td>
</tr>
<tr>
<td>SOC 461</td>
<td>Urban Sociology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 463</td>
<td>Social Stratification</td>
<td>3</td>
</tr>
<tr>
<td>SOC 482</td>
<td>Social Change</td>
<td>3</td>
</tr>
<tr>
<td>SOWK 255</td>
<td>Global Responses to Human Need</td>
<td>3</td>
</tr>
<tr>
<td>URBS 100</td>
<td>Introduction to the City</td>
<td>3</td>
</tr>
<tr>
<td>URBS 130</td>
<td>Sustainable Communities</td>
<td>3</td>
</tr>
<tr>
<td>URBS 431</td>
<td>Urban Design Principles</td>
<td>3</td>
</tr>
<tr>
<td>URBS 461</td>
<td>Environmental Planning</td>
<td>3</td>
</tr>
<tr>
<td>URBS 471</td>
<td>Urban Transportation</td>
<td>3</td>
</tr>
</tbody>
</table>