

Michigan State University
Department of Mechanical Engineering

GLOBAL ENGINEERING CONCENTRATION

(12 credits)

The aim of this concentration is to provide opportunities for students to broaden their experience of other cultures while simultaneously progressing towards qualification as a professional engineer. The ability to understand and appreciate other cultural perspectives is significantly enhanced by living within another culture and such an experience will both improve the employability and effectiveness of engineering graduates in the global economy. The concentration is intended to allow students to spend at least a semester studying in an overseas institution, taking credit-bearing courses provided by the host institution as part of their elective choices. To support this concentration, relationships have been established with departments in a number of countries, such as Korea, Taiwan, and the United Kingdom. Future opportunities may include Australia, India, Singapore, and South Africa.

To complete a Bachelor of Science degree in mechanical engineering with the global engineering concentration, students must complete the requirements for the B.S. degree in mechanical engineering, including the following 12 credits obtained as part of a study abroad experience:†

•CSX 4XX Global Team Design Project (3 credits)

A design intensive experience performed as part of a team at the host institution that involves the synthesis of engineering fundamentals and elements of business, management and marketing. Assessment should involve both written and oral presentations. The team must not consist of only MSU students.

•CSX 4YY Mechanical Engineering Applications in a Global Context (9 credits)

Mechanical Engineering courses to be selected by the student with the approval of their advisor and endorsed by the Department Chair or his/her nominee. The courses will be equivalent in content and level to those offered as Senior Electives within the Mechanical Engineering program at Michigan State University. Any reasonable combination of not more than five courses will be selected to the equivalent of nine credits.

CREDIT DISTRIBUTION: The 3 credits of CSX 4XX will satisfy the Senior Elective design intensive requirement. The 9 credits of CSX 4YY will satisfy the remaining Senior Elective requirement.

†All courses will be conducted at an institution of equivalent standing to Michigan State University and usually in English. Credits must be gained in courses provided and taught by the host institution. Credit and grade equivalence will be set by the ME Department Chair or his/her nominee.