Technical Courses

The total credit requirement to complete this course-based program is 30 credit hours of technical courses and will be taken from the following four groups:

**Group A - Environmental engineering project (six credit hours):**
- ENGI 960A/B Environmental engineering project course (six credit hours). Students would normally be required to complete a team project, which should be taken over the last two terms.

**Group B - Five core courses (three credit hours each):**
- ENGI 9601 Environmental pollution and mitigation
- ENGI 9609 Environmental risk assessment
- ENGI 9626 Environmental management system
- ENGI 9627 Environmental systems engineering
- ENGI 9628 Environmental laboratory

**Group C - Three courses from the following list (three credit hours each):**
- ENGI 9603 Environmental sampling and pollutant analysis
- ENGI 9605 Water and wastewater treatment
- ENGI 9621 Soil remediation engineering
- ENGI 9622 Environmental statistics
- ENGI 9624 Air pollution
- ENGI 9625 Environmental impacts of offshore oil and gas operations
- ENGI 9629 Environmental policy and regulations
- ENGI 9630 Pollution prevention
- ENGI 9610-9615 Special studies topics
- ENVS 6001 Earth and ocean sciences
- ENVS 6002 Environmental chemistry & toxicology
- ENVS 6003 Applied ecology
- GEOG 6250 Conservation of natural resources
### Course Offering of MESEM Program

**(Fall 2014-Spring 2015)**

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<tr>
<th>Terms</th>
<th>Fall Term 2014</th>
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<tr>
<td><strong>Core courses</strong></td>
<td>ENGI 9601 - Environmental Pollution and Mitigation (C. Coles)</td>
<td>ENGI 960A - Project course (T. Husain)</td>
<td>ENGI 960B - Project course (H. Zhang)</td>
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<td></td>
<td>ENGI 9627 - Environmental Systems Engineering (B. Chen)</td>
<td>ENGI 9609 - Environmental Risk Assessment (T. Husain)</td>
<td>ENGI 9626 - Environmental Management System (S. Alam)</td>
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<td>ENGI 9628 - Environmental Laboratory (H. Zhang)</td>
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<td><strong>Elective courses</strong></td>
<td>ENGI 9629 - Environmental Policy and Regulations (P. Li)</td>
<td>ENGI 9605 - Water and Wastewater Treatment (C. Coles)</td>
<td>ENGI 9621 - Soil Remediation Engineering (H. Zhang)</td>
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<td>ENGI 9614 - Renewable Energy and Resource Conservation (C. Coles)</td>
<td>ENGI 9622 Environmental Statistics (L. Lye)</td>
<td>ENGI 9624 - Air pollution (Sessional)</td>
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<td>ENGI 9625 - Environmental Impacts of Offshore Oil and Gas Operations (K. Hawboldt)</td>
<td>ENVS 6002 - Environmental Chemistry and Toxicology (Science Faculty)</td>
<td>ENGI 9630 - Pollution Prevention (Sessional)</td>
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<td>ENVS 6001 - Earth and Ocean Systems (Science Faculty)</td>
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<td>ENVS 6003 - Applied ecology (Science Faculty)</td>
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<td>ENGI 6651 - Sustainable Engineering in Processing Industries (A. Rahman)</td>
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* One elective is recommended in each term.