Sustainable Energy

This section presents the requirements for programs in:

- Master of Public Policy - Sustainable Energy and the Environment
- Master of Public Policy - Sustainable Energy and the Environment with Collaborative Specialization in Climate Change
- M.A.Sc. Sustainable Energy
- M.Eng. Sustainable Energy
- M.Eng. Sustainable Energy with Collaborative Specialization in Climate Change

### Master of Public Policy - Sustainable Energy and the Environment (5.0 credits)

#### Requirements - Coursework pathway:

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.5</td>
<td>SERG 5002</td>
<td>Sustainable Energy Engineering for Policy Students</td>
</tr>
<tr>
<td>0.5</td>
<td>SERG 5003</td>
<td>Energy Evaluation and Assessment Tools</td>
</tr>
<tr>
<td>0.5</td>
<td>SERG 5005</td>
<td>Applied Interdisciplinary Project</td>
</tr>
<tr>
<td>0.5</td>
<td>SERG 5800</td>
<td>Sustainable Energy Seminar</td>
</tr>
<tr>
<td>0.5</td>
<td>PADM 5121</td>
<td>Policy Analysis: The Practical Art of Change</td>
</tr>
<tr>
<td>0.5</td>
<td>PADM 5510</td>
<td>Energy Economics</td>
</tr>
<tr>
<td>0.5</td>
<td>PADM 5515</td>
<td>Sustainable Energy Policy or PADM 5615</td>
</tr>
</tbody>
</table>

#### Notes:

1. Courses must be appropriate to the student's qualifications and selected with the approval of the student's program supervisor.

### Master of Public Policy - Sustainable Energy and the Environment with Collaborative Specialization in Climate Change (6.0 credits)

#### Requirements - Coursework pathway:

<table>
<thead>
<tr>
<th>Credit</th>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>CLIM 5000</td>
<td>Climate Collaboration</td>
</tr>
<tr>
<td>0.0</td>
<td>CLIM 5800</td>
<td>Climate Seminar Series</td>
</tr>
<tr>
<td>1.5</td>
<td>SERG 5002</td>
<td>Sustainable Energy Engineering for Policy Students</td>
</tr>
<tr>
<td>0.5</td>
<td>SERG 5003</td>
<td>Energy Evaluation and Assessment Tools</td>
</tr>
<tr>
<td>0.5</td>
<td>SERG 5005</td>
<td>Applied Interdisciplinary Project</td>
</tr>
<tr>
<td>0.5</td>
<td>SERG 5800</td>
<td>Sustainable Energy Seminar</td>
</tr>
<tr>
<td>0.5</td>
<td>PADM 5121</td>
<td>Policy Analysis: The Practical Art of Change</td>
</tr>
<tr>
<td>0.5</td>
<td>PADM 5510</td>
<td>Energy Economics</td>
</tr>
</tbody>
</table>

#### Notes:

1. Courses must be appropriate to the student's qualifications and selected with the approval of the student's program supervisor.
8. 2.0 credits from Sustainable Energy Policy courses listed below or other courses as approved by the MA supervisor

Total Credits 6.0

Requirements - Research essay pathway:
1. 1.0 credit in:
   - CLIM 5000 [1.0] Climate Collaboration
2. 0.0 credit in:
   - CLIM 5800 [0.0] Climate Seminar Series
3. 1.5 credits in:
   - SERG 5002 [0.5] Sustainable Energy Engineering for Policy Students
   - SERG 5003 [0.5] Energy Evaluation and Assessment Tools
   - SERG 5005 [0.5] Applied Interdisciplinary Project
4. 0.0 credit in:
   - SERG 5800 [0.0] Sustainable Energy Seminar
5. 0.5 credit in:
   - PADM 5121 [0.5] Policy Analysis: The Practical Art of Change
6. 0.5 credit in:
   - PADM 5510 [0.5] Energy Economics
7. 0.5 credit in:
   - PADM 5515 [0.5] Sustainable Energy Policy or PADM 5615 [0.5] Politics and Policy of Energy in Canada
8. 1.0 credit from Sustainable Energy Policy courses listed below or other courses as approved by the MA supervisor
8. 1.0 credit in:
   - PADM 5908 [1.0] Research Essay (in the specialization)

Total Credits 6.0

Requirements - Thesis pathway:
1. 1.0 credit in:
   - CLIM 5000 [1.0] Climate Collaboration
2. 0.0 credit in:
   - CLIM 5800 [0.0] Climate Seminar Series
3. 1.5 credits in:
   - SERG 5002 [0.5] Sustainable Energy Engineering for Policy Students
   - SERG 5003 [0.5] Energy Evaluation and Assessment Tools
   - SERG 5005 [0.5] Applied Interdisciplinary Project
4. 0.0 credit in:
   - SERG 5800 [0.0] Sustainable Energy Seminar
5. 0.5 credit in:
   - PADM 5121 [0.5] Policy Analysis: The Practical Art of Change
6. 0.5 credit in:
   - PADM 5510 [0.5] Energy Economics
7. 0.5 credit in:
   - PADM 5515 [0.5] Sustainable Energy Policy or PADM 5615 [0.5] Politics and Policy of Energy in Canada
8. 2.0 credits in:
   - SERG 5909 [2.0] MA Sustainable Energy Thesis (in the specialization)

Total Credits 6.0

Notes:
1. Courses must be appropriate to the student's qualifications and selected with the approval of the student's program supervisor.

M.A.Sc. Sustainable Energy (5.0 credits)

M.A.Sc. Sustainable Energy (5.0 credits)
1. 1.0 credit in:
   - SERG 5001 [0.5] Sustainable Energy Policy for Engineers
   - SERG 5003 [0.5] Energy Evaluation and Assessment Tools
2. 0.0 credit in:
   - SERG 5800 [0.0] Sustainable Energy Seminar
3. 1.5 credits in:
   - Mechanical Engineering focus:
     1.5 credits in Mechanical Energy Conversion courses (listed below), or Sustainable Energy Policy courses.
     A maximum of 0.5 credits in Sustainable Energy Policy courses will be allowed.
   - Electrical Engineering focus:
     1.5 credit in Efficient Electrical Energy Systems courses (listed below) or Sustainable Energy Policy courses. A maximum of 0.5 credits in Sustainable Energy Policy courses will be allowed.
4. 2.5 credits in M.A.Sc. thesis:
   - MECH 5909/ SYSC 5909/ ELEC 5909 [2.5]

Total Credits 5.0

M.Eng. Sustainable Energy (5.0 credits)

Requirements:
1. 1.5 credits in:
   - SERG 5001 [0.5] Sustainable Energy Policy for Engineers
   - SERG 5003 [0.5] Energy Evaluation and Assessment Tools
   - SERG 5005 [0.5] Applied Interdisciplinary Project
2. 0.0 credit in:
   - SERG 5800 [0.0] Sustainable Energy Seminar
3. 1.5 credits in:
   - Mechanical Engineering focus:
     1.5 credits in Mechanical Energy Conversion courses (listed below), or Sustainable Energy Policy courses.
     A maximum of 0.5 credits in Sustainable Energy Policy courses will be allowed.
   - Electrical Engineering focus:
     1.5 credit in Efficient Electrical Energy Systems courses (listed below) or Sustainable Energy Policy courses. A maximum of 0.5 credits in Sustainable Energy Policy courses will be allowed.
4. 2.0 credits in:
   - Mechanical Engineering focus:
     Graduate-level MECH courses
   - Electrical Engineering focus:
Graduate level ELEC, SYSC or EACJ courses

| Total Credits | 5.0 |

**M.Eng. Sustainable Energy with Collaborative Specialization in Climate Change (5.0 Credits)**

**Requirements:**

1. **1.0 credit in:**
   - CLIM 5000 [1.0] Climate Collaboration

2. **0.0 credit in:**
   - CLIM 5800 [0.0] Climate Seminar Series

3. **1.5 credits in:**
   - SERG 5001 [0.5] Sustainable Energy Policy for Engineers
   - SERG 5003 [0.5] Energy Evaluation and Assessment Tools
   - SERG 5005 [0.5] Applied Interdisciplinary Project

4. **0.0 credit in:**
   - SERG 5800 [0.0] Sustainable Energy Seminar

5. **0.5 credit in:**
   - Mechanical Engineering Focus: Mechanical Energy Conversion courses (listed below), or Sustainable Energy Policy courses
   - Electrical Engineering focus: Efficient Electrical Energy Systems courses (listed below) or Sustainable Energy Policy courses

6. **2.0 credits in:**
   - Mechanical Engineering focus: Graduate-level MECH courses
   - Electrical Engineering focus: Graduate-level ELEC, SYSC or EACJ courses

**Total Credits**

<table>
<thead>
<tr>
<th>Courses - Mechanical Energy Conversion</th>
</tr>
</thead>
<tbody>
<tr>
<td>MECH 5006 [0.5] Solar Energy</td>
</tr>
<tr>
<td>MECH 5009 [0.5] Environmental Fluid Mechanics Relating to Energy Utilization</td>
</tr>
<tr>
<td>MECH 5201 [0.5] Methods of Energy Conversion</td>
</tr>
<tr>
<td>MECH 5203 [0.5] Nuclear Engineering</td>
</tr>
<tr>
<td>MECH 5204 [0.5] Fundamentals of Combustion</td>
</tr>
<tr>
<td>MECH 5205 [0.5] Building Performance Simulation</td>
</tr>
<tr>
<td>MECH 5206 [0.5] Wind Engineering</td>
</tr>
<tr>
<td>MECH 5402 [0.5] Gas Turbines</td>
</tr>
<tr>
<td>ENVE 5101 [0.5] Air Pollution Control</td>
</tr>
<tr>
<td>SERG 5906 [0.5] Directed Studies in Sustainable Energy</td>
</tr>
</tbody>
</table>

**Courses - Efficient Electrical Energy Systems**

<table>
<thead>
<tr>
<th>ELEC 5200 [0.5] Advanced Topics in Integrated Circuits and Devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>ELEC 5302 [0.5] Renewable and Distributed Energy Resource Technologies</td>
</tr>
<tr>
<td>ELEC 5405 [0.5] Advanced Linear and Nonlinear Circuit Theory and Applications</td>
</tr>
<tr>
<td>ELEC 5509 [0.5] Integrated Circuit Technology</td>
</tr>
<tr>
<td>ELEC 5707 [0.5] Microsensors and MEMS</td>
</tr>
<tr>
<td>ELEC 5808 [0.5] Signal Processing Electronics</td>
</tr>
<tr>
<td>ELEC 5900 [0.5] Engineering Project I</td>
</tr>
<tr>
<td>SYSC 5001 [0.5] Simulation and Modeling</td>
</tr>
<tr>
<td>SYSC 5004 [0.5] Optimization for Engineering Applications</td>
</tr>
<tr>
<td>SYSC 5103 [0.5] Software Agents</td>
</tr>
<tr>
<td>SYSC 5104 [0.5] Methodologies For Discrete-Event Modeling And Simulation</td>
</tr>
<tr>
<td>SYSC 5105 [0.5] Software Quality Engineering and Management</td>
</tr>
<tr>
<td>SYSC 5207 [0.5] Distributed Systems Engineering</td>
</tr>
<tr>
<td>SYSC 5401 [0.5] Adaptive and Learning Systems</td>
</tr>
<tr>
<td>SERG 5906 [0.5] Directed Studies in Sustainable Energy</td>
</tr>
</tbody>
</table>

**Courses - Sustainable Energy Policy**

<table>
<thead>
<tr>
<th>PADM 5510 [0.5] Energy Economics</th>
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</thead>
<tbody>
<tr>
<td>PADM 5511 [0.5] Energy Management</td>
</tr>
<tr>
<td>PADM 5512 [0.5] International Politics of Sustainable Energy</td>
</tr>
<tr>
<td>PADM 5572 [0.5] Policy Seminar (Sustainable Energy)</td>
</tr>
<tr>
<td>PADM 5611 [0.5] Science and Technology Policies</td>
</tr>
<tr>
<td>PADM 5612 [0.5] Industrial Policy, Innovation and Sustainable Production</td>
</tr>
<tr>
<td>PADM 5613 [0.5] Science, Risk and Evaluation</td>
</tr>
</tbody>
</table>
After two terms of full-time study (or equivalent), or if their weighted grade point average falls below 7.0 (B-), students will be required to withdraw from the program. A grade of B- or better must be obtained in each course counted towards the master’s degree. For immigration purposes, the summer term (May to August) for the M.Eng. Sustainable Energy (coursework pathway) is considered a regularly scheduled break approved by the University. Students should resume full-time studies in September.

**Note:** a Regularly Scheduled Break as described for immigration purposes does not supersede the requirement for continuous registration in Thesis, Research Essay, or Independent Research Project as described in Section 8.2 of the Graduate General Regulations.

**Admission**

Applicants must have a bachelor’s degree (or equivalent), with an average of B+ or higher. The level of academic performance and potential demonstrated within the degree is more important than the discipline; students may enter the program from a wide variety of academic backgrounds in the social sciences, humanities, sciences and engineering. Mid-career applicants who do not have a bachelor’s degree, but who have demonstrated professional excellence over a number of years of work in the public sector will also be considered.

All applicants must have completed 1.0 credit in university-level micro- and macroeconomic theory (ECON 1000 [1.0] or the equivalent)

0.5 credit in PSCI at the 2000-level or higher, dealing with institutions and processes by which governments legitimize and exercise power, ideally in a Canadian setting (PSCI 2003 or equivalent).

A working knowledge of algebra is also expected.

In some cases, applicants may be admitted to the program despite not having completed one of these prerequisite courses.
courses in economics or political science, on the condition that the course be completed with a grade of B- or higher in the first year of the program. It is strongly recommended that students complete the prerequisites before starting the program, to ensure that their progress through the core courses is unimpeded.

Students whose first language is not English or who have not completed a previous degree at an English speaking university must demonstrate an adequate command of English by attaining, at least, a TOEFL score of 237 CBT (computer-based test) or 580 (written); or 86 IBT overall with a minimum score in each component of: writing: 22; speaking: 22; reading: 20; and listening: 20, or a CAEL score of 70, or an IELTS score of 7.0.

**Admission**

Applicants must have a bachelor's degree (or equivalent) in a discipline relevant to engineering disciplinary foundations.

Normally, an average of B+ or higher is required for admission.

**Co-operative Education**

For information about how to apply for the Co-op program and how the Co-op program works, visit the Co-op website.

All graduate students participating in the Co-op program are governed by this Graduate Co-operative Education Policy.

**Application Requirements**

Graduate students are encouraged to apply to the Co-op Program during their first term of studies. Alternatively, students may delay their participation until later on, provided that they have mandatory credits remaining for degree completion.

**Participation Requirements**

Graduate students:

- must be registered as full-time before they begin their co-op job search and their co-op work term.
- will be registered in a Co-op Work Term course while at work. This course does not carry academic course credit, but is noted on academic transcripts.
- may register in a 0.5 credit during a work term, provided the course is offered during the evening or is offered asynchronously online.
- are not permitted to hold a Teaching Assistantship while on a co-op work term. Where eligible, Teaching Assistantships will be deferred to a later term.
- in receipt of internal or external scholarships should contact the Faculty of Graduate and Post-Doctoral Affairs to discuss the possible funding implications of being on a co-op work term
- must have mandatory credits left to complete following their final co-op work term. In cases where the graduate student has just a 0.5 credit left, he or she may request permission of the Co-op Office to complete this course during the work term.

**Co-op Participation Agreement**

All graduate students must adhere to the policies found within the Co-op Participation Agreement.

**Communication with the Co-op Office**

Graduate students must maintain regular contact with the Co-op Office during their job search and while on a work term. All email communication will be conducted via the student’s Carleton email account.

**Graduation with the Co-op Designation**

In order to graduate with the Co-op Designation, graduate students must satisfy all requirements of the degree program in addition to the successful completion of two work terms. Students found in violation of the Co-op Participation Agreement may have the Co-op Designation withheld.

**Employment**

Although every effort is made to ensure a sufficient number of job postings for all Co-op students, no guarantee of employment can be made. The Co-op job search process is competitive, and success is dependent upon factors such as current market conditions, academic performance, skills, motivation, and level of commitment to the job search. It is the student’s responsibility to apply for positions via the Co-op job board in addition to actively conducting a self-directed job search. Students who do not obtain a co-op work term are expected to continue with their academic studies. It should be noted that hiring priority for positions within the Federal Government of Canada is given to Canadian citizens.

**Work Term Assessment and Evaluation**

**Work Term Evaluation**

Employers are responsible for submitting to Carleton University final performance evaluations for their Co-op students at the end of their work terms.

**Work Term Assessment**

In order to successfully complete the co-op work term, graduate students must receive a Satisfactory (SAT) grade on their Co-op Work Term Report, which they must submit at the completion of each four-month work term.

**Voluntary Withdrawal from the Co-op Option**

Students who are currently on a co-op work term or who have already committed to a co-op work term either verbally or in writing may not leave the position and/or withdraw from the co-op option until they have completed the requirements of the work term.

**Involuntary or Required Withdrawal from the Co-op Option**

Graduate students may be removed from the Co-op Program for any of the following reasons:
1. Failure to attend all interviews for positions to which the student has applied;
2. Declining more than one job offer during the job search;
3. Reneging on a co-op position that the student has accepted either verbally or in writing;
4. Continuing a job search after accepting a co-op position;
5. Dismissal from a work term by the co-op employer;
6. Leaving a work term without approval from the Co-op Management Team;
7. Receipt of an unsatisfactory work term evaluation;
8. Receiving a grade of UNS on the work term report;

International Students
All Graduate International Students are required to possess a Co-op Work Permit issued by Immigration, Refugees and Citizenship Canada before they can begin working. The Co-operative Education Office will provide students with a letter of support to accompany their Co-op Work Permit application. Students are advised to discuss the application process and application requirements with the International Student Services Office.

Co-op Fees
All participating Co-op students are required to pay Co-op fees. For full details, please see the Co-op website.

Co-operative Education Option
Master of Public Policy - Sustainable Energy and the Environment
Students are encouraged to apply for admission to the Co-operative Education Program by the end of their first term of academic study.

To be eligible for admission to Co-op, students must:

1. be enrolled in the Master of Public Policy, Sustainable Energy and the Environment (MPP-SEE);
2. have successfully completed, by the start-date of the first work term, at least 2.0 credits of core MPP-SEE courses;
3. be registered as a full-time student in each academic term prior to a work term;
4. be eligible to work in Canada (for off-campus work terms)

For more information, please refer to the Co-operative Education Policy.

Co-operative Education
For information about how to apply for the Co-op program and how the Co-op program works, visit the Co-op website.

All graduate students participating in the Co-op program are governed by this Graduate Co-operative Education Policy.

Application Requirements
Graduate students are encouraged to apply to the Co-op Program during their first term of studies. Alternatively, students may delay their participation until later on, provided that they have mandatory credits remaining for degree completion.

Participation Requirements
Graduate students:

- must be registered as full-time before they begin their co-op job search and their co-op work term.
- will be registered in a Co-op Work Term course while at work. This course does not carry academic course credit, but is noted on academic transcripts.
- may register in a 0.5 credit during a work term, provided the course is offered during the evening or is offered asynchronously online.
- are not permitted to hold a Teaching Assistantship while on a co-op work term. Where eligible, Teaching Assistantships will be deferred to a later term.
- in receipt of internal or external scholarships should contact the Faculty of Graduate and Post-Doctoral Affairs to discuss the possible funding implications of being on a co-op work term
- must have mandatory courses left to complete following their final co-op work term. In cases where the graduate student has just a 0.5 credit left, he or she may request permission of the Co-op Office to complete this course during the work term.

Co-op Participation Agreement
All graduate students must adhere to the policies found within the Co-op Participation Agreement.

Communication with the Co-op Office
Graduate students must maintain regular contact with the Co-op Office during their job search and while on a work term. All email communication will be conducted via the student’s Carleton email account.

Graduation with the Co-op Designation
In order to graduate with the Co-op Designation, graduate students must satisfy all requirements of the degree program in addition to the successful completion of two work terms. Students found in violation of the Co-op Participation Agreement may have the Co-op Designation withheld.

Employment
Although every effort is made to ensure a sufficient number of job postings for all Co-op students, no guarantee of employment can be made. The Co-op job search process is competitive, and success is dependent upon factors such as current market conditions, academic performance, skills, motivation, and level of commitment to the job search. It is the student’s responsibility to apply for positions via the Co-op job board in addition to actively conducting a self-directed job search. Students who do not obtain a co-op work term are expected to continue with their academic studies. It should be noted that hiring priority for positions within the Federal Government of Canada is given to Canadian citizens.
Work Term Assessment and Evaluation

Work Term Evaluation
Employers are responsible for submitting to Carleton University final performance evaluations for their Co-op students at the end of their work terms.

Work Term Assessment
In order to successfully complete the co-op work term, graduate students must receive a Satisfactory (SAT) grade on their Co-op Work Term Report, which they must submit at the completion of each four-month work term.

Voluntary Withdrawal from the Co-op Option
Students who are currently on a co-op work term or who have already committed to a co-op work term either verbally or in writing may not leave the position and/or withdraw from the co-op option until they have completed the requirements of the work term.

Involuntary or Required Withdrawal from the Co-op Option
Graduate students may be removed from the Co-op Program for any of the following reasons:
1. Failure to attend all interviews for positions to which the student has applied;
2. Declining more than one job offer during the job search;
3. Reneging on a co-op position that the student has accepted either verbally or in writing;
4. Continuing a job search after accepting a co-op position;
5. Dismissal from a work term by the co-op employer;
6. Leaving a work term without approval from the Co-op Management Team;
7. Receipt of an unsatisfactory work term evaluation;
8. Receiving a grade of UNS on the work term report;

International Students
All Graduate International Students are required to possess a Co-op Work Permit issued by Immigration, Refugees and Citizenship Canada before they can begin working. The Co-operative Education Office will provide students with a letter of support to accompany their Co-op Work Permit application. Students are advised to discuss the application process and application requirements with the International Student Services Office.

Co-op Fees
All participating Co-op students are required to pay Co-op fees. For full details, please see the Co-op website.

Co-operative Education Option

M. Eng. Sustainable Energy
Students are encouraged to apply for admission to the Co-operative Education Program by the end of their first term of academic study.

To be eligible for admission to Co-op, students must:
1. be enrolled in the Master of Engineering Sustainable Energy;
2. have successfully completed, by the start-date of the first work term, a minimum of 2.0 credits towards the M.Eng program, including SERG 5001 Sustainable Energy Policy for Engineers;
3. obtained a minimum CGPA of 9.0;
4. be registered as a full-time student in each academic term prior to a work term;
5. be eligible to work in Canada (for off-campus work terms)

For more information, please refer to the Co-operative Education Policy.

Sustainable Energy (SERG) Courses

SERG 5001 [0.5 credit]
Sustainable Energy Policy for Engineers
This course introduces engineering students to the policy world by examining political and policy institutions, and covering basic principles of policy analysis, as they relate to the energy realm.

SERG 5002 [0.5 credit]
Sustainable Energy Engineering for Policy Students
This course introduces policy students to fundamental principles of engineering, particularly as they relate to energy production, transformation and consumption.

SERG 5003 [0.5 credit]
Energy Evaluation and Assessment Tools
Introduction to principles and tools for financial and performance analysis of energy projects, systems and technologies, and their application. Topics may include: probability theory, regression analysis, cost-benefit analysis, life cycle analysis, carbon accounting and emissions modeling, and other techniques particular to the energy field.

SERG 5004 [1.0 credit]
Applied Interdisciplinary Project
Application of assessment tools, energy evaluation methods, engineering, economics and policy studies to actual sustainable energy projects. Includes: Experiential Learning Activity Precludes additional credit for SERG 5000 (no longer offered).
Prerequisite(s): SERG 5003 and one of SERG 5001 or SERG 5002.

SERG 5005 [0.5 credit]
Applied Interdisciplinary Project
Application of assessment tools, energy evaluation methods, engineering, economics and policy studies to actual sustainable energy projects. Includes: Experiential Learning Activity Precludes additional credit for SERG 5004.
Prerequisite(s): SERG 5003 and one of SERG 5001 or SERG 5002.
SERG 5800 [0.0 credit]
Sustainable Energy Seminar
A series of seminars presented by researchers and practitioners in the area of sustainable energy. To complete this course, a student must attend at least ten seminars during their program.

SERG 5906 [0.5 credit]
Directed Studies in Sustainable Energy
A directed course on selected subjects related to sustainable energy as approved by a course supervisor.

SERG 5909 [2.0 credits]
MA Sustainable Energy Thesis
Includes: Experiential Learning Activity

SERG 5913 [0.0 credit]
Co-operative Work term
Includes: Experiential Learning Activity