Application for Minor in Sustainability Engineering

Student name ________________________________________________

ID number __________________________ Email Address ________________________@wpi.edu

Academic Advisor ___________________________________ Major ________________________

The Sustainability Engineering Minor consists of 2 units of work distributed as follows with no more than 1 unit of work overlapping other degree requirements.

<table>
<thead>
<tr>
<th>Requirement/Option</th>
<th>Course #</th>
<th>Units</th>
<th>Term</th>
<th>Grade</th>
<th>X if double counted</th>
</tr>
</thead>
<tbody>
<tr>
<td>Required 1/3 U of ES 2800</td>
<td>ES 2800</td>
<td>1/3</td>
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<tr>
<td>Optional 1/3 U of 1000 level work from List A</td>
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<tr>
<td>Required 2/3 U of HU/A, BUS, and/or SSPS from list B</td>
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<tr>
<td>Required 2/3 U from list C</td>
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<tr>
<td>1/3 U from list B or C if needed to total 2U</td>
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<tr>
<td>Approved substitute activity, if any</td>
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</tbody>
</table>

Total Units 2

Focus of this Minor (such as, Engineering Design for Sustainability, Sustainable Manufacturing, Clean and Renewable Energy, etc.):

__________________________________________________________________________________

Required Signatures

Approval of substitution for any of the requirements
The following activity ____________________________________________________________ is approved for substitution of ____________________________________________________
Sustainability Minor Review Committee signature ___________________________________
Date __________________________

Approval of the Minor Plan of Study verifying that this represents a thematically related set of activities distinct from the student’s major area of study.
Sustainability Minor Review Committee signature ___________________________________
Date __________________________

The student is responsible for completing this form and obtaining the required signatures in advance of application for graduation.
List A, 1000 level Courses
• Relevant GPS activity
• ENV 1100, Introduction to Environmental Studies

List B, HU/A, BUS, SSPS Courses
• DEV 2200, Case Studies in International Development Policy and Engineering
• DEV 4400, Science, Engineering and Design in International Development
• ECON 2117, Environmental Economics
• ECON 2125, Development Economics
• ENV 2201, Planning for Sustainable Communities
• ENV 2310, Environmental Governance and Innovation
• ENV 2400, Environmental Problems and Human Behavior
• ENV 2600, Environmental Problems in the Developing World
• ENV 2700 Social Media, Social Movements, and the Environment
• ENV 3100, Adventures in Sustainable Urbanism
• ENV 4400, Senior Seminar in Environmental Studies
• ETR 2900, Social Entrepreneurship
• GOV 2311, Environmental Policy and Law
• GOV 2312, International Environmental Policy
• GOV 2319, Global Environmental Politics
• HI 2401, U.S. Environmental History
• HI 2400, Topics in Environmental History
• HI 3317, Topics in Environmental History
• OBC 4367 Leadership, Ethics, and Social Responsibility
• PY 2717, Philosophy and the Environment
• STS 1200 Fundamentals of Global Health
• STS 4000 Senior Seminar in Global Health

List C, Engineering Courses*1
• AREN 3003, Principles of HVAC Design for Buildings
• AREN 3024, Building Physics
• AREN 3025, Building Energy Simulation
• CHE 3702, Energy Challenges of the 21st Century
• CHE 3722, Bioenergy
• CHE/CE 4063, Transport and Transformations in the Environment
• CE 3059, Environmental Engineering
• CE 3060, Water Treatment
• CE 3061, Wastewater Treatment
• CE 3062, Hydraulics
• CE 3070, Urban and Environmental Planning
• CE 3074, Environmental Analysis
• CE 4600, Hazardous and Industrial Waste Management
• CE 4061, Hydrology
• ECE 3500, Introduction to Contemporary Electric Power Systems
• ES 2001, Introduction to Materials Science
- ES 3001, Introduction to Thermodynamics
- ES3002, Introduction to Mass Transfer
- ES 3003, Heat Transfer
- ES 3004, Fluid Mechanics
- ME 2820, Materials Processing
- ME 4422, Design and Optimization of Thermal Systems
- ME 4429, Thermofluid Application and Design
- ME 5105, Renewable Energy

*1 - the course selections from List C cannot include more than one ES course.