



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.

Requirement/Option	Course #	Units	Term	Grade	X if double counted
Required 1/3 U of ES 2800	ES 2800	1/3			
Optional 1/3 U of 1000 level work from List A					
Required 2/3 U of HU/A, BUS, and/or SSPS from list B					
Required 2/3 U from list C					
1/3 U from list B or C if needed to total 2U					
Approved substitute activity, if any					
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
- CE3060, Water Treatment
- CE3061, 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.**