

Michigan Technological University
Graduate School & Sustainable Futures Institute

Degree Schedule - Graduate Certificate in Sustainability

Due in the Graduate School Office following completion of all required coursework.

Name _____ Student ID # _____ E-mail _____
as it should appear on certificate

Graduate Program (Major) _____ Semester MS/PhD expected _____

Indicate which of the following courses you have taken to complete requirements for the Certificate: 15 credits required. (See requirements side 2 of this form)

Policy and Societal Systems & Economics (requires minimum of one course)

Course Number & Name	Term	credits
BA 4790 Ecological Sustainability & Organizations		
EC4600/EC5600 Natural Resource and Environmental Economics		
EC4620/EC5620 Energy Economics		
SS5200 Environmental Decision-Making		
SS5300 Environmental Policy and Politics (PPOL750 transfer equivalent)		
SS5350 Environmental Policy Analysis (PPOL714 transfer equivalent)		
SS5400 Sociology of the Environment		

Industrial Systems (requires minimum of one course)

Course Number & Name	Term	credits
BA4630 (or BA5630) Operations Strategy		
CE5408 Public Transit		
CE5560 Air Quality/Built Environment		
CE5610 Engineering Systems Analysis		
CM4720 Design for the Environmental		
MEEM5653 Life-cycle Engineering		
MEEM5685 Environmentally Responsible Design & Mfg		

Sustainability (requires minimum of two courses)

Course Number & Name	Term	credits
ENG5510/SS5510 Sustainable Futures I (PPOL/EX 780 & transfer equivalent)		
ENG5520/SS5520 Sustainable Futures II (PPOL/EX 625 transfer equivalent)		
-or- CE5993 Field Engineering in the Developing World + 1 credit CE5994/GE5994/ED5994/FW5730		

Environmental Systems (requires minimum of one course)

Course Number & Name	Term	credits
BL3850 Environmental Toxicology & Society		
BL4860 Toxicology		
CE4504 Air Quality Engineering & Science		
CE4505 Surface Water Quality Engineering		
CE4506 Application of Environmental Regulations		
CE5405 Environmental Impacts of Transportation		
CE5501 Environmental Process Engineering		
CE5504 Surface Water Quality Modeling		
CE5505 Atmospheric Chemistry		
CE5506 Air Quality Modeling		
FW3540 Introduction to GIS for Natural Resource Management		
FW5550 Geographical Information Systems (PPOL786 transfer equivalent)		
SS5100 Global Environmental Systems		

Approval Signatures

Please print name after signature

*Major Advisor*_____
*Date*_____
*SFI Director / Co-Director*_____
*Date*_____
*Assistant to the Dean of the Graduate School*_____
Date

This certificate is only open to students with graduate standing. This Certificate formally recognizes curricular breadth in the following areas: i) policy, societal, and economic systems, ii) environmental systems, and iii) industrial systems.

The certificate requires a total of 15 credits. Students must obtain a grade of B or higher in each of the courses. Students must be enrolled in a graduate program. At least 9 of the total certificate credits must be at the 5000-level or higher. Students can only substitute a course if they have the prior approval of the Sustainable Futures Institute Director and Graduate School Dean. If a course is substituted, a memo signed by the Sustainable Futures Institute Director (or one of the Co-Directors) must be attached to this degree schedule explaining that the course content for the substituted course meets the requirement of the Certificate.