

# ENVIRONMENTAL ENGINEERING MAJOR, B.S.

Course	Title	Credits
<b>General Requirements</b>		
General Education ( <a href="https://catalog.uwplatt.edu/undergraduate/degree-requirements/bachelor-of-science-degree-core-curriculum/">https://catalog.uwplatt.edu/undergraduate/degree-requirements/bachelor-of-science-degree-core-curriculum/</a> )		25
<b>Required Courses</b> <sup>1,2</sup>		
<b>Mathematics (18 credits)</b>		
MATH 2640	Calculus and Analytic Geometry I	4
MATH 2740	Calculus and Analytic Geometry II	4
MATH 2840	Calculus and Analytic Geometry III	4
MATH 3630	Differential Equations I	3
MATH 4030	Statistical Methods with Applications	3
<b>Basic Sciences (21-22 credits)</b>		
CHEMISTRY 1450	Chemistry for Engineers	5
CHEMISTRY 3130	Environmental Chemistry	3
CHEMISTRY 3110	Environmental Chemistry Lab	1
PHYSICS 2240	General Physics I	4
BIOLOGY 3240	Microbiology	5
Select one of the following:		3-4
GEOLOGY 1140	Physical Geology	
GEOLOGY 3130	Geology for Engineers	
SCSCI 2230	Soils	
<b>Engineering Topics (53 Credits)</b>		
GENENG 1030	Introduction to Engineering Projects	1
GENENG 1320	Engineering Computer Graphics	2
GENENG 2820	Engineering Economy	2
GENENG 2130	Engineering Mechanics-Statics	3
GENENG 2340	Mechanics of Materials	4
CIVILENG 2000	Introduction to Infrastructure	3
CIVILENG 2220	Civil and Environmental Engineering Computer Applications	2
CIVILENG 2630	Elements of Surveying	3
CIVILENG 3300	Fluid Mechanics	4
ENVENG 3340	Environmental Engineering	4
CIVILENG 3740	Geotechnical Engineering I	4
ENVENG 4300	Hydrology	3
ENVENG 4310	Groundwater Hydrology	3
ENVENG 4330	Air and Waste Management	3
ENVENG 4400	Municipal Hydraulics	3
ENVENG 4410	Wastewater Treatment and Management	3
ENVENG 4420	Water Supply and Treatment	3
CIVILENG 4930	Civil and Environmental Engineering Design Project	3
<b>Electives</b>		
Select 9 credits of the following:		9
SCSCI 2230	Soils (if GEOLOGY taken as Earth Science)	
CIVILENG 4630	Geographic Information Systems	
or ENVSS 3230	Geographic Information Systems	
CIVILENG 3020	Construction Engineering	
or CIVILENG 3030	Construction Materials	
CIVILENG 4640	Site Design and Stormwater Management	
AETM 1010	Principles of Safety and Risk Management	
AETM 3180	Construction Safety Management	
AETM 3590	Industrial Hygiene and PPE	

ECORES 3880	Environmental Law
GENENG 2630 or MECHENG 2630	Basic Thermoscience for Engineers Thermodynamics
ENERGY 2340	Fundamentals of Energy Sources
ENERGY 3130	Sustainability: Ecology, Resources and Practice
ENERGY 3230	Biorenewable Resources
ENERGY 3320	Understanding Electric Power Systems
ENERGY 3430	Green Building Design
ENVENG 4940	Undergraduate Research
BIOLOGY 3750	Freshwater Biology
BIOLOGY 3450	Ecology and Evolution
ECORES 3410	Wetland Ecology, Restoration and Management
SCSCI 3340	Soil Nutrient Management (consent of instructor)
SCSCI 4350	Soil and Water Conservation (consent of instructor)
ACCTING 2010	Financial Accounting
BUSADMIN 2330	Leadership and Management
INDSTENG 4430	Quality Engineering
ENTRP 2020	Startup Launchpad
BUSADMIN 3130	Business Law
BUSADMIN 3230	Small Business Management
CHEMISTRY 3540	Organic Chemistry I
CHEMISTRY 2150	Quantitative Analysis
CHEMISTRY 4240	Instrumental Analysis

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**Total Credits**
**123**

<sup>1</sup> A 2.0 G.P.A. in the major is required for graduation.

<sup>2</sup> No more than two D/D+'s in CIVILENG/ENVENG courses fulfilling graduation requirements is allowed.