The Ohio State University College of Engineering Department of Civil, Environmental and Geodetic Engineering Environmental Engineering Minor (ENVENG-MN)

	ering Minor (ENVENG-MN)
Department of Civil, Environmental and Geodetic Engineering	ENVENG 5600 - Science, Technology, and Public Policy (3)
470 Hitchcock Hall, 2070 Neil Ave.	ENVENG 5718 – Aquatic Chemistry (3)
614-292-2771; <u>ceg.osu.edu</u>	ENVENG 5760 – Design of Urban Stormwater Control Measures (3)
CEG Undergraduate Advising: 495 Hitchcock Hall	FABENG 5310 – Ecological Engineering and Science (4)
	FABENG 5520 – Phytotechnology and Phytoremediation (3)
The Environmental Engineering minor will provide a wide range of	MICROBIO 4000.xx – Basic and Practical Microbiology (4)
undergraduate majors with an introductory background in	
sustainability, pollution prevention, environmental modeling, and	Environmental Engineering minor program guidelines
pollution control technologies. By completing the minor in	
Environmental Engineering, students should add considerably to their	Credit hours required A minimum of 15 credit hrs. 1000 level
major program skills and become more valuable to their future	courses shall not be counted in the minor. At least 6 cr hrs need to be
employer. Science majors will gain an understanding of engineering	upper-division courses (3000 level or above) as defined by the
problem-solving methods and procedures, as well as standard	College of Engineering.
pollution control technologies. Other engineering majors will become	
more aware of the environmental effects of technologies in their	Transfer and EM Credit A student is permitted to count up to 6
major field, and how to reduce these effects.	total hours of transfer credit and/or credit by examination toward the
	minor.
Prerequisites (2-3 courses; 9-15 CH)	
Must be completed prior to beginning the minor program:	Overlap with the GE A student is permitted to overlap up to 6 cr hrs
1. MATH 1151 (5)	between the GE and the minor
2. CHEM 1210 (5) <u>AND</u> 1220 (5)	
<u>OR</u>	Overlap with the Major and Additional Minor(s)
CHEM 1250 (4)	• The minor must be in a different subject than the major.
	• The minor must contain a minimum of 12 hours distinct from the
Required Courses (3 courses; 9 CH)	major and/or additional minors.
1. CIVILEN 3130 Fluid Mechanics (3 CH)	Grades Required
2. ENVENG 3200 Fundamentals of Environmental Engineering* (3	• Minimum C- for a course to be listed on the minor.
CH) 2 ENVENC 5170 Sustainability on 14b c Cincular Economy (2 CH)	• Minimum 2.00 cumulative GPA for all minor course work.
3. ENVENG 5170 Sustainability and the Circular Economy (3 CH) *Civil Engineering students who use CIVILEN 3130 and ENVENG 3200 as a	• Course work graded Pass/Non-Pass cannot count on the minor.
part of their major coursework must take an additional 3 hours of elective	• No more than 3 cr hrs of course work graded
credit from the list below. Engineering majors may overlap six credit hours	Satisfactory/Unsatisfactory may count towards the minor.
from the minor with the elective portion of their engineering degree program.	V102 Credita No more than 2 on hrs
	X193 Credits No more than 3 cr hrs
Elective Coursework (2-3 courses; 6 CH)	Declaring the minor
Select 6 hours of coursework from the approved elective list below.	In order to declare the minor, students must meet with Academic
PLEASE NOTE: Many of the courses below have additional	Advising Manager Barry Tolchin prior to the filing of the graduation
prerequisites, some of which may be flexible. Students should work	application. Please use OnCourse (https://advising.osu.edu/oncourse)
with an academic advisor in the Department of Civil, Environmental,	to make an appointment.
and Geodetic Engineering to choose coursework that best suits their	
individual preparation and skills.	Approval of Coursework
	Initial approval of the minor coursework:
CBE 5772 Principles of Sustainable Engineering (3)	Students who complete the minor following the guidelines on this
CIVILEN 3160 Water resources Engineering (3)	sheet need only verify with their academic advisor that the minor
CIVILEN 4210 Physics of Sustainable Buildings (3)	appears complete on the Degree Audit Report. No approval from the
CIVILEN 5220 – Open Channel Hydraulics (3)	Department of Civil, Environmental and Geodetic Engineering is
CIVILEN 5230 – Transport Phenomenon in Water Resource	required.
Engineering (3)	
CIVILEN 5610.01 – Sustainable WaSH Infrastructure for	Approval for courses not listed on this form to apply to the minor
Developing Rural Communities (3)	program:
CIVILEN 5610.02 – Safe Water On Tap (3)	Students must obtain the approval of the Department of Civil,
EARTHSC 5651 – Hydrogeology (4)	Environmental and Geodetic Engineering to apply courses not listed
ENR 3000 – Soil Science (3) ENR 3001 – Soil Science Laboratory (1)	on this form toward the Environmental Engineering minor. Please
ENR 3001 – Soil Science Laboratory (1) ENVENG 2100 – Environmental Engineering Analytical Methods (3)	email Barry Tolchin (tolchin.5@osu.edu) to request approval.
ENVENG 2100 – Environmental Engineering Analytical Methods (3) ENVENG 2210 – Environmental Engineering Unit Operations (3)	College of Arts and Sciences Commentations and A
ENVENG 3210 – Environmental Engineering Unit Operations (3) ENVENG 4218 – Measurement and Modeling of Climate Change (3)	College of Arts and Sciences Curriculum and Assessment Services 306 Dulles Hall, 230 Annie & John Glenn Ave
	http://artsandsciences.osu.edu
ENVENG 4400 - Integrated Environmental Chemical Fate and	<u>Imparationaboronoos.oou.ouu</u>
Transport (3)	DH 6-9-21
ENVENG 5110 - Environmental Engineering Bioprocesses (3)	Rev. CAA 11-20-2024 RLS
ENVENG 5110 – Environmental Engineering Bioprocesses (3) ENVENG 5120 – Bioremediation in Groundwater and Soil (3)	Rev. CAA 11-20-2024 RLS
ENVENG 5110 – Environmental Engineering Bioprocesses (3) ENVENG 5120 – Bioremediation in Groundwater and Soil (3) ENVENG 5140 – Air Quality Engineering (3)	Rev. CAA 11-20-2024 RLS
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