

(For all students in the Program)

Undergraduate Minor Program in Environmental Sustainability and Management

Any undergraduate students with a CGA of 2.15 or above may enroll in this minor program. A background in basic chemistry would be beneficial to students' study but not essential for admission. Typically, students need three regular terms to finish this minor program. Students must declare their intention to enroll in the minor program no earlier than the second regular term of their first year of study but no later than the last day of the add/drop period in the second regular term of their penultimate year of study. Special approval should be obtained from the program coordinator for declaration made later than the enrollment window. Students who wish to withdraw from the minor program should apply before the last day of add/drop period in the last regular term of their study.

Minor Requirements

To graduate with a minor in Environmental Sustainability and Management, students must have enrolled in the minor program and complete a minimum total of 18 credits and all of its requirements, as well as all the requirements of their major program of study; and attain an average grade point of at least 2.15 in course taken within the minor program.

For credit transfer, students can transfer a maximum total of 6 credits to the Minor Program.

For students admitted in 2012-13 and after, at least 9 credits out of the total credits required by the minor program should be single-counted within the minor and are not used to fulfill any other requirements for graduation except the 120-credit degree requirement. For those admitted prior to 2012-13, the minimum number of single-counted credits would be 6.

Students may use no more than 6 credits earned from courses offered in pure online delivery mode to satisfy the graduation requirements of a degree program. This 6-credit limit does not apply to credits obtained through the credit transfer procedures of the University.

Required Course(s)

		Credit(s) attained
CIVL/CENG	Note: CIVL 1140 <u>OR</u> CENG 1700	3
CIVL	1140 Environmental Quality Control and Improvement	3
CENG	1700 Introduction to Environmental Engineering	3
CIVL	4430 Environmental Impact Assessment	3

Elective(s)

		Minimum credit(s) required
SENG	Environmental Sustainability and Management Electives (4 courses from the specified elective list. No more than one course within the same course group of CIVL 2510/CENG 2220/MECH 2210 can be counted towards the elective requirement.)	12
CIVL	1170 Big History, Sustainability and Climate Change	3
CIVL	2510 Fluid Mechanics	3
CIVL	3420 Water and Wastewater Engineering	3

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CIVL	4460	Process Design of Environmental Engineering Facilities	3
CIVL	4470	Air Quality Control and Management	3
CIVL	4520	Municipal Hydrosystems Engineering and Management	3
CENG	2220	Process Fluid Mechanics	3
CENG	3210	Separation Processes	3
CENG	4140	Energy Resources, Conversions and Technologies	3
CENG	4710	Environmental Control	3
MECH	2210	Fluid Mechanics	3
MECH	4350	Indoor Air Quality in Buildings	3
LIFS	1030	Environmental Science	3
PHYS	1003	Energy and Related Environmental Issues	3