ENVIRONMENTAL ENGINEERING PROGRAM – University of Connecticut (Catalog of 2020-2021)

NORMAL SEMESTER BY SEMESTER COURSE SEQUENCE (128 credits)

CHEM 1127Q General Chemistry 4 CHEM 1128Q General Chemistry 4 MATH 1131Q Calculus I 4 MATH 1132Q Calculus II 4 MATH 1131Q Calculus I 4 MATH 1132Q Calculus II 4 ENGR 1000 Orientation to Engineering 1 ENGR 1000 Computing for Engineers (F/S) 3 ENVE 1000 Environmental Sustainability 3 CA2 (CA2) (CA2) 1 7 3 SECOND YEAR - First Semester Second Semester 9 9 4	FIRST YEAR - First Semester	Cr.	Second Semester	Cr.
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NOTES: (F/S): these courses are offered both Fall and Spring semesters

(1) CA = Content Area in General Education (GenEd) Requirements (For current lists of GenEd courses, visit <u>http://geoc.uconn.edu</u>). These courses may be taken at any time and CA courses in particular semesters are indicative only.

(2) Earth Science Requirement (1 Course):

- NRE 4135-Intro. to Groundwater Hydrology (Fall semester) OR
- ENVE 3530- Engr. & Env. Geology (Spring semester)

(3) Professional Electives (4 Courses/12 credits): At least one course from the area of Management and Policy (see next page for courses); At least two courses from any 3000-level or higher courses in engineering or science (BIOL, CHEM, EEB, GEOG, GSCI, LAND, MARN, MATH, MCB, NRE, PHYS, SOIL, TURF), or CE 2500 or CHEM 2241, 2443; At least one course from any 3000-level or higher CE or ENVE courses. See suggested courses on the next page. Three credits of ENVE 4886 and/or 4986 Thesis may fulfill one professional elective. Honors students must fulfill one professional elective using Thesis credits. Research courses (4986, 3997, 4997) are recommended as professional electives for students planning to pursue graduate studies.

ENVIRONMENTAL ENGINEERING PROGRAM – University of Connecticut (Catalog of 2020-2021)

ENVE Professional Electives (F: Fall semester, S: Spring semester) Note: Course scheduling may change for departments other than CEE

Management and Policy:

AH 3275. HAZWOPER (F) ARE 3434. Environment and Resource Policy (S) ARE 4462. Economics of Natural Resource Use EEB 3205. Current Issues in Environmental Science (F, odd years) ENVE 3100 Climate Resilience and Adaptation (F) GEOG 3320W. Environmental Evaluation and Assessment (S, online) GEOG 3340. Environmental Planning and Management LAND 3230W. Environmental Planning and Landscape Design MEM 2221. Principles of Engineering Management NRE 3245. Environmental Law (F) OPIM 3801. Project Management

Suggested courses in other Engineering or Science Programs:

CHEG 3151. Process Kinetics CHEG 4147. Process Dynamics and Control CHEM 2241 or CHEM 2443. Organic Chemistry GEOG 3400. Climate and Weather (F) MARN 3030. Coastal Pollution and Bioremediation MARN 4030W. Chemical Oceanography (F) ME 3239. Combustion for Energy Conversion ME 3263 Introduction to Sensors and Data Analysis ME 3270 Fuel Cells (S, even yrs) ME 3285 Sustainable Energy Sources and Systems (S, odd yrs) Wetlands Biology and Conservation (F) NRE 3105. Wetlands Biology and Conservation (F) NRE 3125 Watershed Hydrology (F) NRE 3145. Meteorology (F) NRE 3146 Climatology (S) NRE 3155. Water Quality Management (F, even yrs) NRE 3205. Stream Ecology (F, odd yrs) NRE 3535 Remote Sensing of the Environment (F) NRE 4135.Groundwater Hydrology (F)* NRE 4165. Soil and Water Management and Engineering (S, odd yrs) NRE 4340 Ecotoxicology (S, odd yrs) SPSS 3420. Soil Chemistry Components (F, even vrs) SPSS 4420. Soil Chemistry Processes (F, odd yrs)

Suggested courses in CE and ENVE (note, you must select one in this category but may select up to three): CE 2500 Introduction to GIS (S) CE 3220.Principles of Construction Management I (F) CE 2410 Geomatics & Spatial Measurement (F) CE 3510. Soil Mechanics (F) CE 4210. Operations Research in Civil and Environmental Engineering (S) CE 4220. Principles of Construction Management II (S) CE 4410. Computer Aided Site Design (S) ENVE 4820. Hydraulic Engineering (S) ENVE 3530. Engineering and Environmental Geology ENVE 4850. Sustainable and Resilient Water Governance and Management (F) ENVE 3995. Special Topics in Environmental Engineering (F/S) Examples: Ecohydrology Hydroclimatology Environmental Organic Chemistry **Biodegradation and Bioremediation** Environmental Remediation Vadose zone hydrology ENVE 3997. Directed Research in ENVE ENVE 4997. Independent Research in ENVE ENVE 4999. Independent Study (F/S, by arrangement)

* If you choose one course as earth science requirement, then you can take the other one as professional elective.