



ENVIRONMENTAL FOCUS AREA: Urban Studies

Department of Civil and Environmental Engineering

General Education (19 sh) sh

ALL	RHET:1030 Rhetoric	4
F/S	Diversity & Inclusion	3
ALL	Be Creative	3
ALL	Approved Gen Ed Course	3
ALL	Approved Gen Ed Course	3
F	URP:3001 Planning Livable Cities	3

Math & Basic Science Core (24 sh) sh

F/S	MATH:1550 Math I: Single Variable Calculus (P: ALEKS score ≥ 75 or MPT Level 3 score ≥ 9)	4
ALL	MATH:1560 Math II: Multivariable Calculus (P: MATH:1550)	4
ALL	MATH:2550 Math III: Matrix Algebra (P: MATH:1550)	2
ALL	MATH:2560 Math IV: Differential Equations (P: MATH:1560 & MATH:2550)	3
F/S	STAT:2020 Probability & Statistics For Engr & Phys Sci (P: MATH:1560)	3
ALL	CHEM:1110 Principles of Chemistry I (P: ALEKS score ≥ 55 or MPT Level 3 score ≥ 9)	4
ALL	PHYS:1611 Introductory Physics I / Lab (C: MATH:1550)	4

Engineering Core (7 sh) sh

F	ENGR:1000 Engineering Success for First-Year Students (First semester standing)	1
F	ENGR:1100 Intro to Engineering Problem Solving	3
F/S	ENGR:1300 Intro to Engineering Computing (C: MATH:1550)	3

EnvE Requirements (58 sh) sh

ALL	BIOL:1411 Foundations of Biology (P: CHEM:1110)	4
ALL	CHEM:1120 Principles of Chemistry II (P: CHEM:1110 with a minum grade of C-)	4
ALL	CHEM:2210 Organic Chemistry I (no lab required)	3
ALL	ENGR:2110 Statics (P: MATH:1550; C: MATH:1560 & PHYS:1611)	2
ALL	ENGR:2130 Thermodynamics (P: CHEM:1110 & PHYS:1611; C: MATH:1560)	3
F/S	ENGR:2510 Fluid Mechanics (P: MATH:2560 & ENGR:2710; C: ENGR:2130)	4
ALL*	ENGR:2710 Dynamics (P: ENGR:2110 & MATH:1550)	3
ALL*	ENGR:2720 Materials Science (P: CHEM:1110; C: MATH:1550)	3
ALL	EES:1080 Introduction to Environmental Science (no lab required)	3
S	CEE:3155 Principles of Environmental Engineering (with Lab) (P: CHEM:1110)	4
S	CEE:3371 Principles of Hydraulics and Hydrology (P: ENGR:2510)	3
S	CEE:3430 Water Treatment (with Lab) (P: ENGR:2510 & CEE:3155)	4
F	CEE:4102 Groundwater	3
F	CEE:4150 Environmental Chemistry (P: CHEM:1120)	3
F	CEE:4157 Environmental Engineering Design (P: CEE:3155)	3
F	CEE:4158 Solid and Hazardous Wastes	3
S	CEE:4159 Air Pollution Control Technology	3
F	CEE:4374 Water Resources Design (P: CEE:3371)	3

CEE Capstone Design Courses (3 sh) sh

F/S	CEE:4850 Project Design & Management in CEE (P: final semester; C: CEE:3003)	3
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CEE Professional Skills (4 sh) sh

S	CEE:1010 Introduction to Careers in Env. Engineering	0
S	CEE:2010 Professional Practice and Ethics	1
F	CEE:3001 Leadership Skills for Engineers (junior standing)	1
S	CEE:3002 Technical Communication in CEE (sophomore standing)	1
F	CEE:3003 Project Management Skills (senior standing)	1

Required: Urban Studies (0 sh) sh

Electives: Urban Studies (15 sh) sh

Electives: Focus Area, Minor, Certificate, etc. sh

select 4 courses from the list below

F	PBAF:3560 Public Policy and Persuasion (P:RHET:1030 or RHET:1040 or RHET:1060)	3
F	PBAF:3570 Poverty Policy	3
F	URP:2020 Environment and Society: Sustainability, Policy, and Politics	3
S	URP:4170 Megacities Seminar	3
S	URP:4225 Applied GIS for Planning and Policy Making	3
S	URP:4253 Designing Sustainable and Healthy Cities	3
S	URP:4260 Transportation Policy and Planning	3
F	URP:4266 Transportation and Land Use Planning	3
S	URP:4273 Community Development Through Creative Placemaking	3
F	URP:4280 Planning for Disaster Mitigation and Recovery	3
S	URP:4295 Economic Development Policy	3
S	URP:4752 Eight Generation Planning: Envisioning Cities for Year 2228	3
F	CRIM:4120 Environmental Criminology (P: CRIM:1410)	3

Any other course approved for the Urban Studies Minor

Electives: Focus Area, Minor, Certificate, etc. sh

select 1 course from the list below

Any 3000 level or above course(s) in CEE

F	URP:3350 Transportation Economics ¹	3
F	CEE:2015 Civil Engineering Tools	2
S	ISE:2500 Engineering Economy (C: STAT:2020)	3
F/S	ENGR:2995 Intro to AI & Machine Learning in Engineering (P: ENGR:1300; C: MATH:2550)	3
F/S	ENGR:2730 Computers in Engineering (P: ENGR:1300)	3
F/S	GEOG:1050 Foundations of GIS	4
S	GEOG:3210 Health Work and Environment	3
F/S	OEH:4240 Global Environmental Health	3
F	ECON:3625 Environmental and Natural Resources Economics (P: ECON:1100 & ECON:1200)	3

All other course(s) require approval for Focus Area credit
(see CEE web site regarding the approval process)

Students in the Focus Area will receive a Minor in Urban Studies. Students must enroll in the minor through the School of Planning and Public Affairs.

¹If URP:3350 is taken, coursework will satisfy requirements of the Certificate in Urban Studies. Students should enroll in the certificate through the School of Planning and Public Affairs.

Total Semester Hours Requirements: 130