ENVIRONMENTAL FOCUS AREA:
Public Health

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
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F/S	**CPH:1400 Fundamentals of Public Health**	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

CEE Professional Skills (4 sh)		sh
S	**CEE:1010 Indtroduction 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: Public Health (3 sh)		sh
F/S	**CPH:1600 Public Health Science**	3

Electives: Public Health (12 sh)		sh
Electives: Focus Area, Minor, Certicate, etc. select **3 courses** from the list below		sh
F	**CPH:1800 Social and Psychological Determinants of Health**	3
S	**CPH:2400 The US Health System in a Global Context**	3
S	**CPH:3400 Health, Work and the Environment**	3
F/S	**CPH:3500 Global Public Health**	3
Electives: Focus Area, Minor, Certicate, etc. select **1 course** from the list below		sh
F	**CPH:2200 Climageddon: Climate Change and Health**	3
S	**CPH:2220 Building a Healthier Tomorrow**	3
F	**CPH:4200 Agriculture, Food Systems & Sustain** (odd years)	3
S	**CPH:4220 Global Road Safety**	3

Other courses that satisfy Certificate in Public Health requirements (see Undergraduate Certificate in Public Health page on the College of Public Health web site)

Total Semester Hours Requirements: 130

Students in the Focus Area will receive an Undergraduate Certificate in Public Health. Students must enroll in the certificate through the College of Public Health.