

ENVIRONMENTAL ENGINEERING (B.S.)

2017-2018 Curriculum

FRESHMAN YEAR			
_____ ENGR 1020 Engineering Discipline and Skills	2	_____ ENGR 1410 Programming and Problem Solving	3
_____ CH 1010 General Chemistry (Lab)	4	_____ CH 1020 General Chemistry (Lab)	4
_____ MATH 1060 Calculus of One Variable I	4	_____ MATH 1080 Calculus of One Variable II	4
_____ ENGL 1030 Composition and Rhetoric	3	_____ PHYS 1220 Physics with Calculus I	3
_____ Hum/SS Req. ¹ _____	3	_____ HIST 1240 Environmental History Survey ²	3
	16		17

SOPHOMORE YEAR			
_____ EES 2010 Environmental Engineering Fnd I	3	_____ EES 2020 Environmental Engineering Fnd II (Lab)	4
_____ BIOL 1030 General Biology ³	3	_____ ENGR 2100 Engineering Graphics ⁴ (Lab)	2
_____ BIOL 1050 General Biology Lab	1	_____ CH 2010 Organic Chemistry ⁵	3
_____ MATH 2060 Calculus of Several Variables	4	_____ MATH 2080 Intro to Ordinary Differential Equations	4
_____ PHYS 2210 Physics with Calculus II	3	_____ CE 2080 Dynamics	2
_____ CE 2010 Statics	3		
	17		15

JUNIOR YEAR			
_____ EES 3030 Water Treatment Systems	2	_____ EES 4840 Municipal Solid Waste Mgmt	3
_____ EES 3040 Wastewater Treatment Systems	2	_____ EES 4850 Hazardous Waste Management	3
_____ EES 3050 Water and Wastewater Treatment Lab	1	_____ ME 3100 Thermodynamics & Heat Transfer	3
_____ MICR 3050 General Microbiology (Lab)	4	_____ CE 3410 Intro to Fluid Mechanics (Lab)	4
_____ MATH 3020 Statistics for Science and Engineering	3	_____ GEOL 1010 Physical Geology ⁶	3
_____ Hum/SS Req. ¹ _____	3	_____ GEOL 1030 Physical Geology Lab	1
	15		17

SENIOR YEAR			
_____ EES 4300 Air Pollution Engineering	3	_____ EES 4750 Env Engr Capstone Design (Lab)	3
_____ EES 4500 Env Engr Senior Seminar	1	_____ Engr or Sci Reqt ⁸ _____	6
_____ EES 4800 Environmental Risk Assessment	3		
_____ EES 4860 Environmental Sustainability	3	_____ Hum/SS Req. ¹ _____	3
_____ Engr Econ Req ⁷ _____	2	_____ Hum/SS Req. ¹ _____	3
_____ Engr or Sci Reqt ⁸ _____	3		
	15		15

127 Total Semester Hours

General Education Requirements:

LIT: _____
 Non-Lit: _____
 SS1: _____
 SS2: _____
 ENGR 5th: _____
 CCA: _____
 STS: _____

Other:

Calhoun Honors
ROTC
 Air Force
 Army
Transfer
Co-op

¹See the Policy on Humanities and Social Sciences for Engineering Curricula. HIST 1240 must be taken as one of the courses; it satisfies 3 credit hours of the social science requirement and the Science and Technology in Society requirement. Students are encouraged to take PHIL 3450 (Environmental Ethics) to fulfill the non-literature humanities requirement

²HIST 1240 satisfies 3 credit hours of the social science requirement and the Science and Technology in Society requirement in the University's General Education requirements. If a student is not able to enroll in the second semester of the freshman year, this course may be taken at another time.

³BIOL 1100 (5hrs) may be substituted for the combination of BIOL 1030 & 1050

⁴ENGR 2080 may be substituted

⁵CH 2230 may be substituted

⁶May Substitute PES 2020 & PES 2021.

⁷The following courses are acceptable: CE 3520 or IE 3840.

⁸Choose any combination of engineering and/or sciences courses from a department-approved list.

NOTES

The following courses must be completed with a grade of C or better: MATH 2060, MATH 2080, CE 2010, CE 2080, CE 3410, PHYS 2210