

# ENVIRONMENTAL ENGINEERING (B.S.)

## 2014-2015, 2015-2016, 2016-2017 Curriculum

FRESHMAN YEAR			
_____ ENGR 1050 Engineering Discipline and Skills I	1	_____ ENGR 1070 Programming and Problem Solving I	1
_____ ENGR 1060 Engineering Discipline and Skills II	1	_____ ENGR 1080 Programming and Problem Solving II	1
_____ CH 1010 General Chemistry (Lab)	4	_____ ENGR 1090 Program & Problem Solving Applications	1
_____ MATH 1060 Calculus of One Variable I	4	_____ CH 1020 General Chemistry (Lab)	4
_____ ENGL 1030 Accelerated Composition	3	_____ MATH 1080 Calculus of One Variable II	4
_____ Hum/SS Req. <sup>1</sup> _____	3	_____ PHYS 1220 Physics with Calculus I	3
		_____ HIST 1240 Environmental History Survey <sup>2</sup>	3
	16		17
SOPHOMORE YEAR			
_____ EES 2010 Environmental Engineering Fnd I	3	_____ EES 2020 Environmental Engineering Fnd II (Lab)	4
_____ BIOL 1030 General Biology <sup>3</sup>	3	_____ ENGR 2100 Engineering Graphics <sup>4</sup> (Lab)	2
_____ BIOL 1050 General Biology Lab	1	_____ CH 2010 Organic Chemistry <sup>5</sup>	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 <sup>6</sup>	3
_____ Hum/SS Req. <sup>1</sup> _____	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 <sup>8</sup> _____	6
_____ EES 4800 Environmental Risk Assessment	3		
_____ EES 4860 Environmental Sustainability	3	_____ Hum/SS Req. <sup>1</sup> _____	3
_____ Engr Econ Req <sup>7</sup> _____	2	_____ Hum/SS Req. <sup>1</sup> _____	3
_____ Engr or Sci Reqt <sup>8</sup> _____	3		
	15		15

### 127 Total Semester Hours

#### General Education Requirements:

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

#### Other:

Calhoun Honors ☐  
ROTC ☐  
     Air Force ☐  
     Army ☐  
Transfer ☐  
Co-op ☐

<sup>1</sup>See 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

<sup>2</sup>HIST 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.

<sup>3</sup>BIOL 1100 (5hrs) may be substituted for the combination of BIOL 1030 & 105C

<sup>4</sup>ENGR 2080 may be substituted

<sup>5</sup>CH 2230 may be substituted

<sup>6</sup>May Substitute PES 2020 & PES 2021.

<sup>7</sup>The following courses are acceptable: CE 3520 or IE 3840.

<sup>8</sup>Choose 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