

Environmental Engineering Sample Curriculum - 2009-2010

Name: _____ E-mail: _____@osu.edu

YEAR	AUTUMN	WINTER	SPRING
1	Math 151.OX (Calc. & Analytic Geom.) 5 _____ Chem. 121 (General Chemistry).....5 _____ Engr. 181.01 (Intro. to Eng. I).....3 _____ Engr. 100.17 (Eng. Survey).....1 _____ GEC.....5 _____	Math 152.OX (Calc. & Analytic Geom.) 5 _____ Chem. 125 (Chemistry for Engrs.).....4 _____ Or Chem 122 (General Chemistry) Engr. 183.OX (Intro. Eng. II).....3 _____ GEC.....5 _____	Math 153.OX (Calc. & Analytic Geom.) 5 _____ Physics 131 (Particles & Motion)... 5 _____ EG 167 (Prob. Solv. Prog. Eng.) 4 _____ Or CSE 202 or CSE 294P English 110 (1 st yr. English Comp.) 5 _____
2	Math 254.OX (Calc. & Analytic Geom.) 5 _____ Physics 132 (Elec. & Magnetism) .. 5 _____ ME 410 (Statics)..... 4 _____ GEC.....5 _____	Math 415.OX (Ord. & Part. Diff. Eq.)..4 _____ Physics 133 (Thermal/Quantum) ...5 _____ ME 420 (Strength of Materials) 4 _____ GEC.....5 _____	CE 405 (Observational Analysis)..... 4 _____ Chem. 231 (Intro. Organic Chem.) ..3 _____ ME 430 (Dynamics) 4 _____ ENE 511 (Intro. to Enviro. Eng.) ... 3 _____
3	Chem. 221 (Analytical Chemistry) .. 5 _____ ENE 413 (Fluid Mechanics) 4 _____ ENE 540 (CE & ENE Systems) 4 _____ GEC.....5 _____	Chem. 520 (Physical Chemistry) ..3 _____ CE 406 (Fund. of CE Analysis) 4 _____ ENE 516 (Water Resources Eng.) ..4 _____ ENR 300 (Soil Science)5 _____	Chem. 521 (Physical Chemistry) . 3 _____ ENE 460 (Prof. Aspects of CEE)..... 1 _____ ENE 520 (Dsgn. of Trtmt. Facilities) 4 _____ GEC 5 _____
4	Micro. 509 (Basic Microbiology)..... 5 _____ ENE 610 (Natural & Pollut. Waters) 3 _____ Technical Elective..... 1-5 _____ Technical Elective..... 1-5 _____	CHBE 771 (Air Pollution) 3 _____ ENE 576 (CEE Econ. & Planning) .. 4 _____ ENE 620 (Trtmt. Plant Design Lab) 2 _____ ENE 711 (Bioremed. Used Water) .. 4 _____	Chem. 587 (Analytical Chem. II) .. 3 _____ ENE 619 (ENE Capstone Design) . 4 _____ ENE 717 (Solid Waste Mgmt.) 4 _____ Technical Elective..... 1-5 _____

Courses in **bold** are offered once a year. Quarterly course offerings are subject to change. Please check the on-line course bulletin and master schedule for pre-requisite requirements and course availability. Please note that students who need preparatory work before beginning Math 151 will need additional time to complete this curriculum.

GENERAL EDUCATION (35 hours)

English & Communication Skills (10 hrs)

English 110..OX (5) _____

Students must take 25 hours across Social Sciences, Historical Study, and Arts & Humanities with a minimum of 5 hours and maximum of 10 hours per category.

Social Sciences (5-10 hours)

Economics 200 (Required) (5) _____

_____ () _____

Historical Study (5-10 hours)

_____ () _____

_____ () _____

Arts & Humanities (5-10 hours)

_____ () _____

_____ () _____

Ethics

(May overlap with another GEC category)

Social Diversity

(May overlap with another GEC category)

_____ () _____

Technical Electives (10 hours)

_____ () _____

_____ () _____

_____ () _____

Technical Writing (4 hours)

(Counted in Environmental core)

ENE 619 (4) _____

Hours Required:

Pre-Environmental..... 49

Environmental Core..... 103

General Education..... 35

Technical Electives..... 10

TOTAL HOURS 197

Admission to the Environmental Engineering program requires a minimum cumulative point-hour ratio (CPHR) of 2.0 as well as a minimum secondary point-hour ratio (SPHR) of 2.0 in the following pre-major courses: *Math 151.OX, 152.OX, 153.OX; Physics 131, 132, 133; Chemistry 121, 125; Engineering 181.01, 183.OX, Eng Graphics 167 & ME410.* English 110.OX and Engineering 100.17 must also be completed. Formal application is required.

Technical Electives: Chem 251, 252, 253 Entomology 694, 762 Soil Science 680 Env. Eng: 613, 618, 714, 719, 720, 722, 723, 750, 760, 771
Earth Sciences: 651, 717, 718, 719, 751, 752, 754 Ind, Sys & Weld En: 757 Food, Agr & Bio Eng: 625, 650, 652 Nat Res: 201, 355, 627, 675, 752, 770

Contact the Undergraduate Advisor (HI 475) with questions about admittance to the major.