

FAB Engineering – Ecological Engineering Specialization

Suggested GUIDE only. Semesters of offerings subject to change.

Rev. 6/6/2013

Name: _____

2013-2014

ID #: _____

E-Mail: _____

Entered OSU: (Qtr) _____ (Acad Yr) _____

General Education and Tech Elec course lists available in 260 Ag Eng Bldg

NOTE: Bolded courses offered once/year.

| Yr | Autumn Semester | Spring Semester | Yr. |
|----------|--|---|-----------|
| 1 | Engineer 1110.10 (Intro to OSU and FABE I) 0.5 | Engineer 1120.10 (Intro to OSU and FABE II) 0.5 | 32 |
| | Chemistry 1250 (Chem for Engrs - Selected topics) 4 | * Engineer 1182.xx (Fundamentals of Engineering II) 2 | |
| | * Engineer 1181.xx (Fundamentals of Engineering I) 2 | Engineering 1221 or CSE 1222 (Computer Programming) 2 | |
| | Math 1151 (Engineering Calculus I) 5 | Math 1172 (Engineering Calculus II) 5 | |
| | General Education course Physics 1250 (Mechanics, Thermal Physics, Waves) 5 | English 1110 (First-year English Composition, Gen Educ) 5 | |
| | *Note: Honors and Scholars versions available Target/Actual: 14.5 | Target/Actual: 17.5 | |
| 2 | FABE 2100 (Energy in Bio-Systems) 1 | FABE 2110 (Fluid Mechanics in FABE) 4 | 32 |
| | FABE 2710 (Surveying) 2 | FABE 2720 (Principles of Soil & Water Engineering) 2 | |
| | Biology 2100 (Bio for Engrs) or Bio 1114 (Quant Biol) 4 | Engineer 4410.01 (Computer Graphics - AutoCad) 2 | |
| | Math 2177 (Mathematical Topics for Engineers) 4 | Chemistry 2310 (Intro Organic Chemistry) 4 | |
| | Physics 1251 (E&M, Optics, Modern Physics) 5 | EEOB 3410 (Ecology) 4 | |
| | Target/Actual: 16 | Target/Actual: 16 | |
| 3 | FABE 2120 (Thermodynamics in FABE) 4 | FABE 3130 (Heat & Mass Transfer in FABE) 4 | 34 |
| | ISE 2040 (Engineering Economics) 2 | FABE 3140 (Professional Development in FABE) 1 | |
| | ISE 3800 (Engineering Project Management) 2 | FABE 3150 (System Dynamics & Electricity) 4 | |
| | Mech Eng 2040 (Statics & Strength of Materials) 4 | FABE 5310 (Ecological Engineering & Science) 4 | |
| | Engineering 2367 (Writing for Engineer, Gen Educ) General Education course | Technical Elective General Education course | |
| | Target/Actual: 18 | Target/Actual: 16 | |
| 4 | FABE 4900 (Capstone Design I) 3 | FABE 4170 (Program Review for FABE) 0 | 36 |
| | FABE 5160 (Electronics, Measremnt, & Instrmntation) 4 | FABE 4910 (Capstone Design II) 3 | |
| | FABE 5750 (Stream Geomorphlgy/Watershed Hydrlgy) 3 | FABE 5550 (Sustainable Waste Management) 3 | |
| | EEOB Elective 3 | EEOB Elective 3 | |
| | Technical Elective General Education course | Technical Elective (2) General Education courses | |
| | Target/Actual: 18 | Target/Actual: 18 | |

> Check On-line Course Bulletin for availability of other courses.

| GENERAL EDUCATION (24 hrs.) | TECHNICAL ELECTIVES: (9 hrs.) |
|---|--|
| A total of 18 hours (or 5 courses) must be taken between History, Social Sciences, and Arts & Humanities, PLUS 6 hours (2 courses) of English and Communication (Second Writing Course) | (any engineering or science course related to ecological engineering, level ≥ 3000) |
| History Survey (3hrs) _____ () _____ () 2nd History or Cultures & Ideas (3 hrs) _____ () _____ () Literature (3 hrs.) _____ () _____ () Visual & Performing Art (3 hrs.) _____ () _____ () Social Sciences (6 hrs., only 1 per group) _____ () _____ () _____ () | _____ () _____ () _____ () _____ () _____ () Total: _____ |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> English and Communication Skills (6 hrs.) English 1110.xx _____ () (2367.) _____ () Total: _____ </div> | |
| <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Select appropriately identified GE courses eligible to double count from list on the back of this sheet </div> | |
| Ethics (3 hrs) (May overlap another GE category) _____ () Social Diversity in the US (3 hrs) (May overlap another GE category) _____ () _____ () | |
| | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Hours Required Required Engineering Courses (ABET 48): 58 Math and Science Courses (ABET 32): 41 General Education: 24 Technical Electives: 9 Total: _____ </div> |
| | <div style="border: 1px solid black; padding: 5px; display: inline-block;"> Minimum Required to Graduate: 132 </div> |