Suggested Curriculum

This should be used as a guide only. Semester offerings are subject to change. (BOLD courses offered only indicated semesters.)

<table>
<thead>
<tr>
<th>Year</th>
<th>Autumn</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ENGR 1110.10 (Engineering Survey 1) 0.5 hr</td>
<td>ENGR 1120.10 (Engineering Survey 2) 0.5 hr</td>
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<tr>
<td></td>
<td>ENGR 1181 (Fundamentals of ENGR 1) 2 hr</td>
<td>CHEM 1250 (Chem for Engr) 4 hr</td>
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<td></td>
<td>MATH 1151 (Calculus 1)* 5 hr</td>
<td>ENGR 1182 (Fundamentals of ENGR 2)* 2 hr</td>
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<td></td>
<td>PHYSIC 1250 (Mech, Therm, Waves) 5 hr</td>
<td>General Education (English 1110) 3 hr</td>
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<tr>
<td></td>
<td>General Education 3 hr</td>
<td>MATH 1172 (Engineering Math A)* 5 hr</td>
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<td>* Honors and Scholars versions available</td>
<td>General Education 3 hr</td>
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<tr>
<td>2</td>
<td>FABE 2100 (Introduction to FABE) 1 hr</td>
<td>FABE 2110 (Fluid Mechanics in FABE) 3 hr</td>
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<td>FABE 2710 (Surveying) 2 hr</td>
<td>FABE 2720 (Principles of Soil/Water Eng) 2 hr</td>
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<td>ENGR 1221** (Civ Engg) 2 hr</td>
<td>PHYS 1251 (E&amp;M, Optics, Modern Physics) 5 hr</td>
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<td>MATH 2177 (Math Topics for Engineers) 4 hr</td>
<td>EEOB 3410 (Ecology) 4 hr</td>
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<td></td>
<td>BIOLOGY 1114 (Biol) 4 hr</td>
<td>General Education 3 hr</td>
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<td>General Education (2nd writing) 3 hr</td>
<td>General Education 3 hr</td>
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<tr>
<td>3</td>
<td>FABE 3120 (Thermodynamics FABE) 4 hr</td>
<td>FABE 3130 (Heat &amp; Mass Transfer FABE) 4 hr</td>
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<td>FABE 3171 (Computer Graphics - AutoCad) 2 hr</td>
<td>FABE 3140 (Prof Dev in FABE) 1 hr</td>
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<td>MECHENG 2040 (Statistics &amp; strength of mat) 4 hr</td>
<td>FABE 3150 (Sys Dynamics &amp; Electricity) 4 hr</td>
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<td></td>
<td>Chemistry 2310 (Intro Organic Chemistry) 3 hr</td>
<td>Technical Elective 3 hr</td>
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<td></td>
<td>Technical Elective 3 hr</td>
<td>ISE 2040 (Engineering Economics) 2 hr</td>
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<td></td>
<td>General Education 3 hr</td>
<td>Technical Elective 3 hr</td>
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<tr>
<td>4</td>
<td>FABE 4900 (Capstone Design 1) 3 hr</td>
<td>Required Senior Exit Survey via E-mail for FABE</td>
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<tr>
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<td>FABE 5160 (Elecir, Msmt &amp; Instrumentation) 4 hr</td>
<td>FABE 4910 (Capstone Design 2) 3 hr</td>
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<td>FABE 5750 (Stream Geomorphlgy -Watrshed Hyd) 3 hr</td>
<td>FABE 5550 (Sustainable Waste Management) 3 hr</td>
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<td>Technical Elective 3 hr</td>
<td>EEOB Elective 3 hr</td>
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<tr>
<td></td>
<td>General Education 3 hr</td>
<td>Technical Elective 2 hr</td>
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<tr>
<td></td>
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<td>General Education 3 hr</td>
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</table>

Total Hours to complete the degree program = 132

** CSE 1222 which is 3 credit hours is also accepted

Acceptance Criteria

Acceptance into the Food, Agricultural and Biological Engineering major will depend upon the cumulative point-hour ratio (CPHR) and the earned point-hour ratio (EPHR) at completion of the following pre-major courses: Math 1151, 1172; Physics 1250; Chemistry 1210 or 1250; Engineering 1181 and 1182. A minimum EPHR of 2.0 is required. Currently there is no limit to the number of students accepted annually. See the department's Undergraduate Academic Program Coordinator in 260-B AE for application details.
Technical and Other Electives
(14 hours required)

CIVILEN 3160 (3)
CIVILEN 5130 (3)
CIVILEN 6230 (3)
ENG 4510 (1)
ENG 4692.01 (1-3)
ENG 5680 (1.5)
ENG 5695 (1)
ENG 5797E (1-15)
ENR 3000 (3)
ENR 3001 (1)
ENR 5225 (3)
ENR 5250.01 (3)
ENR 5250.02 (1)
ENR 5261 (3)
ENR 5263 (3)
ENR 5280 (2)
ENVENG 3200 (3)
ENVENG 3210 (3)
ENVENG 5110 (3)
ENVENG 5170 (3)
ENVENG 5210 (3)
EEOB 5420 (1.5 - 4)
EEOB 5470 (3)
FABE 5320 (3)
STATS 3470 (3)

General Education Requirement

Writing and Communication

English 1110.xx 3 hr
Second Writing Course* 3 hr
*Recommend ENGR 2367

Social Science
Only one course per Social Science group may count.

3 hr
3 hr

Literature

3 hr

Visual and Performing Arts

3 hr

Historical Study

3 hr

Second Historical Study or Cultures and Ideas

3 hr

Social Diversity in the U.S. or Global Diversity
Some courses may overlap with another GE category. See course list.

0 / 3 hr

Ethics
Some courses may overlap with another GE category. See course list.

0 / 3 hr

Foreign Language
Pre-approved substitutions

A. Foreign Language 1103: credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be used to satisfy the Cultures & Ideas Gen Ed category.

B. Foreign Language Minor Courses: completion of a foreign language minor permits a student to overlap up to 6 credit hours between the Gen Ed and minor. A curricular petition must be submitted to the student’s program, which will forward it to the college for review. The courses must meet the spirit of the Gen Ed category for which overlap is requested.

University Capstone (Cross-Disciplinary Seminar)
Pre-approved substitutions

Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any group. Completion of an Arts & Humanities 3597 or 4597 can be substituted for a Visual/Performing Arts general education course.

See the list of approved general education courses for additional details: www.advising.engineering.osu.edu.