

**Student Information**

Name: \_\_\_\_\_ OSU Email: \_\_\_\_\_

**Suggested Curriculum**

This should be used as a **guide** only. Offerings subject to change. (**BOLD** courses offered only in indicated semesters.)

Year	Autumn	Spring
1	___ <b>ENGR 1100.10</b> or equiv ( <i>Survey</i> )..... 1 hr ___ ENGR 1181 ( <i>Fundamentals of Engineering 1</i> )..... 2 hr ___ MATH 1151 ( <i>Calculus 1</i> )..... 5 hr ___ PHYSICS 1250 ( <i>Mechanics, Thermal, Waves</i> ).....5 hr ___ General Education..... 3 hr	___ PHYSICS 1251 ( <i>E&amp;M, Optics, Modern Physics</i> ).. 5 hr ___ ENGR 1182 ( <i>Fundamentals of Engineering 2</i> ).... 2 hr ___ MATH 1172 ( <i>Engineering Math A</i> )..... 5 hr ___ ENGR 1221 <sup>1</sup> ( <i>Computer programming-MATLAB</i> ).2 hr ___ General Education..... 3 hr
2	___ <b>FABE 2100</b> ( <i>Energy in Biological Systems</i> )..... 1 hr ___ <b>FABE 2710</b> ( <i>Surveying</i> )..... 2 hr ___ MATH 2177 ( <i>Math Topics for Engineers</i> )..... 4 hr ___ MECHENG 2010 ( <i>Statics</i> )..... 2 hr ___ CHEM 1250 ( <i>Chemistry for Engineers</i> ).....4 hr ___ General Education..... 3 hr	___ <b>FABE 2110</b> ( <i>Fluid Mechanics in FABE</i> )..... 3 hr ___ <b>FABE 2720</b> ( <i>Principles of Soil &amp; Water Engr</i> )..... 2 hr ___ ISE 2040 ( <i>Engineering Economics</i> )..... 2 hr ___ MECHENG 2020 ( <i>Mechanics of Materials</i> )..... 3 hr ___ Applied Biol or Ag Science Elective*..... 3 hr ___ General Education..... 3 hr
3	___ <b>FABE 3120</b> ( <i>Thermodynamics in FABE</i> )..... 4 hr ___ <b>FABE 3810</b> ( <i>Ag Structures</i> )..... 3 hr ___ MECHENG 2030 ( <i>Dynamics</i> )..... 3 hr ___ Technical Elective*..... 3 hr ___ FABE 3171 <sup>2</sup> ( <i>Computer Graphics</i> )..... 2 hr or FABE 3170	___ <b>FABE 3130</b> ( <i>Heat &amp; Mass Transfer in FABE</i> ).... 4 hr ___ <b>FABE 3140</b> ( <i>Professional Development in FABE</i> ).. 1 hr ___ <b>FABE 3150</b> ( <i>System Dynamics &amp; Electricity</i> )..... 4 hr ___ <b>FABE 3610</b> ( <i>Utilization of Energy in Agriculture</i> ).. 3 hr ___ Technical Elective*..... 3 hr ___ General Education..... 3 hr
4	___ <b>FABE 4900</b> ( <i>Capstone Design 1</i> )..... 3 hr ___ <b>FABE 5160</b> ( <i>Elec, Msmts, &amp; Instrumentation</i> )..... 4 hr ___ <b>FABE 5820</b> ( <i>Environ Controls &amp; Air Quality</i> )..... 3 hr ___ Technical Elective*..... 3 hr ___ General Education..... 3 hr	___ <i>Required Senior Exit Survey via E-mail for FABE</i> ___ <b>FABE 4910</b> ( <i>Capstone Design 2</i> )..... 3 hr ___ <b>FABE 5730</b> ( <i>Design of Ag Water Mgmt Systems</i> ).. 3 hr ___ Technical Elective*..... 3 hr ___ Technical Elective*..... 3 hr ___ General Education..... 3 hr ___ General Education..... 3 hr

**Total Hours to complete the degree program = 132**

- 1- CSE 1222 Programming in C++ (3 credit hours) is also accepted.
- 2- FABE 3171 (AutoCAD) or FABE 3170 (SolidWorks). Power and Machinery students: FABE 3170 (SolidWorks) is highly recommended.

\*A list of approved Technical Electives and Applied Science Electives can be found at [go.osu.edu/fabetech](http://go.osu.edu/fabetech).

Agricultural Engineering students may choose from three “tracks” of concentration based on technical electives:

- Power and Machinery
- Soil and Water
- Structures and Facilities

**Acceptance Criteria**

Acceptance into the Food, Agricultural and Biological Engineering major will depend upon 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 & 1182. Minimum EPHR of 2.0 is required.

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## General Education Requirements

### Writing and Communication

English 1110.xx 3 hr

Second Writing Course 3 hr

### Social Science

*Must choose each course from a distinct subgroup of this category.*

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.*

0 / 3 hr

### Ethics

*Some courses may overlap with another GE category.*

0 / 3 hr

### Optional: Foreign Language

**Foreign Language 1103 Course:** 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.

**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.

### Optional: University Capstone

Completion of a Social Science 3597 or 4597 can be substituted for a Social Science general education course in any subgroup. 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](http://www.advising.engineering.osu.edu)