

Student Information

Name: _____ OSU Email: _____

Suggested Curriculum

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

Year	Autumn	Spring
1	___ ENGR 1100.10 or equiv (<i>Survey</i>)..... 1 hr ___ CHEM 1210 (<i>General Chemistry 1</i>) 5 hr ___ ENGR 1181 (<i>Fundamentals of Engineering 1</i>)..... 2 hr ___ MATH 1151 (<i>Calculus 1</i>)..... 5 hr ___ General Education..... 3 hr	___ CHEM 1220 (<i>General Chemistry 2</i>)..... 5 hr ___ ENGR 1182 (<i>Fundamentals of Engineering 2</i>) 2 hr ___ MATH 1172 (<i>Engineering Math A</i>)..... 5 hr ___ PHYSICS 1250 (<i>Mechanics, Thermal, Waves</i>)..... 5 hr
2	___ FABE 2100 (<i>Energy in Biological Systems</i>)..... 1 hr ___ MATH 2177 (<i>Math Topics for Engineers</i>)..... 4 hr ___ PHYSICS 1251 (<i>E&M, Optics, Modern Physics</i>).. 5 hr ___ Biology 1113 (<i>Energy Transfer</i>)..... 4 hr ___ General Education..... 3 hr	___ FABE 2110 (<i>Fluid Mechanics in FABE</i>)..... 3 hr ___ MICROBIO 4000.01 or 4000.02 (<i>Basic Micro</i>)4 hr ___ CHEM 2310 ¹ (<i>Introductory Organic Chemistry</i>) .. 4 hr ___ MECHENG 2040 (<i>Statics & Mechanics</i>)..... 4 hr ___ ENG 1221 ² (<i>Computer Programming-MATLAB</i>).. 2 hr
3	___ FABE 3120 (<i>Thermodynamics FABE</i>)..... 4 hr ___ FABE 3500 ⁴ (<i>Biological Engineering</i>)..... 3 hr ___ ISE 2040 (<i>Engineering Economics</i>)..... 2 hr ___ FABE 3171 or 3170 ³ (<i>Computer Graphics</i>)..... 2 hr ___ Advanced Biology Elective*..... 3 hr ___ General Education..... 3 hr	___ FABE 3130 (<i>Heat & Mass Transfer FABE</i>)..... 4 hr ___ FABE 3140 (<i>Professional Development in FABE</i>) 1 hr ___ FABE 3150 (<i>Systems Dynamics & Electricity</i>)..... 4 hr ___ FABE 4500 ⁴ (<i>Adv. Biological Engineering</i>)..... 2 hr ___ General Education..... 3 hr ___ Technical Elective*..... 3 hr
4	___ FABE 4900 (<i>Capstone Design 1</i>)..... 3 hr ___ FABE 5160 (<i>Electr, Msmt & Instrumentation</i>)..... 4 hr ___ Technical Elective*..... 3 hr ___ General Education..... 3 hr ___ General Education..... 3 hr	___ <i>Required Senior Exit Survey via E-mail for FABE</i> ___ FABE 4910 (<i>Capstone Design 2</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- Chem 2510 is also accepted
- 2- CSE 1222 (3 credit hours) is also accepted
- 3- Either FABE 3171 (AutoCAD) or FABE 3170 (SolidWorks) is accepted.
- 4- FABE 3500 and FABE 4500 will be offered starting in 2020-2021 pending university approval.

*A list of approved Technical Electives and Advanced Biology Electives can be found at go.osu.edu/fabetechn.

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. A minimum EPHR of 2.0 is required.

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