

**Student Information**

Name: \_\_\_\_\_ OSU ID: \_\_\_\_\_ New to OSU: \_\_\_\_\_

Phone: \_\_\_\_\_ Email (*name.number@osu.edu*): \_\_\_\_\_

**Suggested Curriculum**

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

Year	Autumn	Spring
1	___ <b>ENGR 1100.10</b> or equiv ( <i>Survey</i> )..... 1 hr ___ CHEM 1210 ( <i>General Chemistry 1</i> )* ..... 5 hr ___ ENGR 1181 ( <i>Fundamentals of ENGR 1</i> )*..... 2 hr ___ MATH 1151 ( <i>Calculus 1</i> )* ..... 5 hr ___ General Education ..... 3 hr * Honors alternative course options available	___ CHEM 1220 ( <i>General Chemistry 2</i> )* ..... 5 hr ___ ENGR 1182 ( <i>Fundamentals of ENGR 2</i> )* ..... 2 hr ___ MATH 1172 ( <i>Engineering Math A</i> )* ..... 5 hr ___ PHYSICS 1250 ( <i>Mechanics, Thermal, Waves</i> ).... 5 hr
2	___ <b>FABE 2100</b> ( <i>Introduction to FABE</i> )..... 1 hr ___ BIOLOGY 1113 ( <i>Biological Analysis</i> )..... 4 hr ___ MATH 2177 ( <i>Math Topics for Engineers</i> ) ..... 4 hr ___ PHYSICS 1251 ( <i>E&amp;M, Optics, Modern Physics</i> )..... 5 hr ___ General Education ( <i>English 1110</i> )..... 3 hr	___ <b>FABE 2110</b> ( <i>Fluid Mechanics in FABE</i> )..... 3 hr ___ CHEM 2310 ( <i>Organic Chemistry</i> )..... 4 hr ___ MICROBIO 4000 ( <i>Basic &amp; Practical Microbio</i> ) ..... 4 hr ___ ENGR 1221** ( <i>Cptr Prgm</i> ) ..... 2 hr ___ General Education course ( <i>2nd writing</i> )..... 3 hr
3	___ <b>FABE 3120</b> ( <i>Thermodynamics in FABE</i> )..... 4 hr ___ BIOCHEM 5721 ( <i>Physical Biochemistry 1</i> ) ..... 3 hr ___ # <b>FABE 3171</b> ( <i>Computer Graphics-AutoCad</i> ) ..... 2 hr or <b>FABE 3170</b> ( <i>Solid Works</i> ) in SP ___ <b>FDSCTE 5536</b> ( <i>Food Microbiology</i> ) ..... 3 hr ___ General Education ..... 3 hr ___ General Education ..... 3 hr	___ <b>FABE 3130</b> ( <i>Heat &amp; Mass Transfer FABE</i> )..... 4 hr ___ <b>FABE 3140</b> ( <i>Professional Dev FABE</i> )..... 1 hr ___ <b>FABE 3150</b> ( <i>System Dynamics &amp; Electricity</i> )..... 4 hr ___ <b>FABE 4410</b> ( <i>Unit Operations in Food Engr</i> )..... 3 hr ___ ISE 2040 ( <i>Engineering Economics</i> )..... 2 hr ___ General Education ..... 3 hr
4	___ <b>FABE 4900</b> ( <i>Capstone Design 1</i> )..... 3 hr ___ <b>FABE 5160</b> ( <i>Elec, Msmt, &amp; Instrumentation</i> )..... 4 hr ___ <b>FABE 5405</b> ( <i>Food Engr Kinetics</i> )..... 4 hr ___ Technical Elective ..... 2 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 5410</b> ( <i>Advanced Food Engr</i> )..... 3 hr ___ Technical Electives ..... 3 hr ___ Technical Electives ..... 3 hr ___ General Education ..... 3 hr

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

# Either FABE 3171 (Auto cad) offered in Autumn or FABE 3170 (Solid Works), offered in Spring semesters, accepted

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

\*\* 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.

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## Technical and Other Electives

(9 hours required)

BIOMEDE 4210	(3)	ENGR 5680	(1-5)	FDSCTE 5720	(3)
BIOMEDE 4310	(3)	ENGR 5695	(1)	FDSCTE 5730	(3)
BIOMEDE 4610	(3)	ENGR 5797	(1/2-12)	ISE 5110	(3)
CBE 5755	(3)	FABE 5200	(3)	MECHENG 2010	(2)
CBE 5766	(3)	FABE 5550	(3)	MECHENG 2020	(3)
CBE 5772	(3)	FDSCTE 5320	(2)	MECHENG 2030	(3)
CBE 5775	(3)	FDSCTE 5330	(2)	MECHENG 2040	(4)
CBE 5779	(3)	FDSCTE 5410	(3)	STAT 3450	(2)
ENGR 4692.01S	(1-3)	FDSCTE 5420	(3)	STAT 3460	(3)
		FDSCTE 5450	(3)	STAT 3470	(3)

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## 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 Survey

\_\_\_\_\_ 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. Credit (including EM) for a foreign language sequence through 1103, or credit for a foreign language course with a prerequisite of 1103, can be substituted for one Gen Ed course requirement as a Cultures & Ideas.
- B. Completion of a foreign language minor can be substituted for two Gen Ed courses: one course as a Social Science, (Individuals & Groups or Organizations & Politics subgroups only) and one course as either a Literature or a Cultures & Ideas.

Parameters: Students must choose either Substitution A OR Substitution B. Both substitutions cannot be applied simultaneously.

### 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](http://www.advising.engineering.osu.edu).