B.S. Food, Agricultural and Biological Engineering
Agricultural Engineering Specialization

2023-2024 Academic Year

Name: _____ OSU Email: _____

Suggested Curriculum

This should be used as a **guide** only. Offerings subject to change. Degree Audit will be updated with any changes. (**BOLD courses offered <u>only</u> in indicated semesters.**)

Year	Autumn		Spring	
1	___ **ENGR 1100.15** or equiv *(Survey)*	1 hr	___ PHYSICS 1251 *(E&M, Optics, Modern Physics)*	5 hr
	___ ENGR 1181 *(Fundamentals of Engineering 1)*	2 hr	___ ENGR 1182 *(Fundamentals of Engineering 2)*	2 hr
	___ MATH 1151 *(Calculus 1)*	5 hr	___ MATH 1172 *(Engineering Math A)*	5 hr
	___ PHYSICS 1250 *(Mechanics, Thermal, Waves)*	5 hr	___ ENGR 1221[2] *(Computer programming-MATLAB)*	2 hr
	___ General Education	3 hr	___ General Education	3 hr
	___ GENED 1201[1] *(GE Launch Seminar)*	1 hr		
2	___ **FABE 2100** *(Energy in Biological Systems)*	1 hr	___ **FABE 2110** *(Fluid Mechanics in FABE)*	3 hr
	___ **FABE 2710** *(Surveying)*	2 hr	___ **FABE 2720** *(Principles of Soil & Water Engr)*	2 hr
	___ MATH 2177 *(Math Topics for Engineers)*	4 hr	___ ISE 2040.02 *(Engineering Economics)*	2 hr
	___ MECHENG 2010 *(Statics)*	2 hr	___ MECHENG 2020 *(Mechanics of Materials)*	3 hr
	___ CHEM 1250[3] *(Chemistry for Engineers)*	4 hr	___ Applied Science Elective*	3 hr
	___ General Education	3 hr	___ General Education	4 hr
3	___ **FABE 3120** *(Thermodynamics in FABE)*	4 hr	___ **FABE 3130** *(Heat & Mass Transfer in FABE)*	4 hr
	___ **FABE 3810** *(Ag Structures)*	3 hr	___ **FABE 3140** *(Professional Development in FABE)*	1 hr
	___ MECHENG 2030 *(Dynamics)*	3 hr	___ **FABE 3150** *(System Dynamics & Electricity)*	4 hr
	___ Technical Elective*	3 hr	___ **FABE 3610** *(Utilization of Energy in Agriculture)*	3 hr
	___ FABE 3171 or 3170[4] *(Computer Graphics)*	2 hr	___ Technical Elective*	3 hr
4	___ **FABE 4900** *(Capstone Design 1)*	3 hr	___ ***Required*** Senior Exit Survey via email for FABE	
	___ **FABE 5160** *(Elec, Msmts, & Instrumentation)*	4 hr	___ **FABE 4910** *(Capstone Design 2)*	3 hr
	___ **FABE 5820** *(Environ Controls & Air Quality)*	3 hr	___ **FABE 5730** *(Design of Ag Water Mgmt Systems)*	3 hr
	___ Technical Elective*	3 hr	___ Technical Elective*	3 hr
	___ General Education	4 hr	___ Technical Elective*	3 hr
			___ General Education	3 hr
			___ General Education	3 hr

Total Hours to complete the degree program = 132

1- GE Launch seminar must be taken within first 3 semesters at OSU.

2- CSE 1222 (3 cr hrs- Programming in C++) or CSE 1224 (3 cr hrs- Python) are accepted alternatives.

3- CHEM 1210 (5 cr hrs) or CHEM 1206+1208 (7 hrs total) are accepted alternatives.

4- Either FABE 3171 (AutoCAD) or FABE 3170 (SolidWorks- offered only spring semesters) is accepted.

*A list of approved Technical Electives and Applied Science Electives can be found at go.osu.edu/fabetech

Prerequisites for all courses can be found at courses.osu.edu