BIOSYSTEMS ENGINEERING  
MACHINE SYSTEMS & AGRICULTURAL ENGINEERING OPTION  
124 Semester Hours  
2020-2021

Preparatory Courses

MATH 1513  
College Algebra  
Grade  Sem

MATH 1813  
Prep Calc I  
Grade  Sem

MATH 2144  
Calculus I  
Grade  Sem

MATH 2153  
Calculus II  
Grade  Sem

MATH 2163  
Calculus III  
Grade  Sem

BAE 1012  
Intro Biosystems  
Grade  Sem

BAE 1022  
Exper Methods  
Grade  Sem

BAE 2013  
Modeling  
Grade  Sem

BAE 3033  
Biomaterials  
Grade  Sem

PHYS 2014  
General Physics  
Grade  Sem

PHYS 2114  
General Physics  
Grade  Sem

PHYS 2213  
Thermodynamics  
Grade  Sem

ENS C 2123  
Fluid Mech  
Grade  Sem

ENS C 2143  
Strength Mat'ls  
Grade  Sem

ENS C 2113  
Statics  
Grade  Sem

ENS C 3233  
Fluid Mech  
Grade  Sem

ENGL 1113  
Eng Comp I  
Grade  Sem

ENGL 1213  
Engl Comp II  
Grade  Sem

ENGL 1213  
Eng Comp II  
Grade  Sem

ENGR 1332  
Eng Design  
Grade  Sem

POLS 1113  
American Gov’t  
Grade  Sem

Year 1

BAE 1012  
Intro Biosystems  
Grade  Sem

BAE 1022  
Exper Methods  
Grade  Sem

BAE 2013  
Modeling  
Grade  Sem

BAE 3033  
Biomaterials  
Grade  Sem

PHYS 2014  
General Physics  
Grade  Sem

PHYS 2114  
General Physics  
Grade  Sem

PHYS 2213  
Thermodynamics  
Grade  Sem

ENS C 2123  
Fluid Mech  
Grade  Sem

ENS C 2143  
Strength Mat'ls  
Grade  Sem

ENS C 2113  
Statics  
Grade  Sem

ENS C 3233  
Fluid Mech  
Grade  Sem

ENGL 1113  
Eng Comp I  
Grade  Sem

ENGL 1213  
Eng Comp II  
Grade  Sem

ENGR 1332  
Eng Design  
Grade  Sem

POLS 1113  
American Gov’t  
Grade  Sem

Year 2

BAE 1012  
Intro Biosystems  
Grade  Sem

BAE 1022  
Exper Methods  
Grade  Sem

BAE 2013  
Modeling  
Grade  Sem

BAE 3033  
Biomaterials  
Grade  Sem

PHYS 2014  
General Physics  
Grade  Sem

PHYS 2114  
General Physics  
Grade  Sem

PHYS 2213  
Thermodynamics  
Grade  Sem

ENS C 2123  
Fluid Mech  
Grade  Sem

ENS C 2143  
Strength Mat'ls  
Grade  Sem

ENS C 2113  
Statics  
Grade  Sem

ENS C 3233  
Fluid Mech  
Grade  Sem

ENGL 1113  
Eng Comp I  
Grade  Sem

ENGL 1213  
Eng Comp II  
Grade  Sem

ENGR 1332  
Eng Design  
Grade  Sem

POLS 1113  
American Gov’t  
Grade  Sem

Horizontal arrows indicate prerequisites.

Graduation Requirements for the Biosystems Engineering Degree

Please refer to the OSU Catalog corresponding to your matriculation date for detailed requirements. The following is an overview of the minimum curricular requirements necessary to be completed for graduation.

• At least 6 hours designated “H”, 3 hours designated “S”, and 3 hours designated “H”, “S”, “A” or “N” (A total of 12 hours). Of these, 3 hours need to meet the International Dimension “I” and 3 hours need to meet the Diversity Component “D”.

• Minimum Technical GPA of 2.00. Technical GPA is calculated from all courses counting in the curriculum with a prefix belonging to the degree program, or substitution for these courses.

• An overall GPA of 2.00 or better at OSU.

• A grade of “C” or better required in the following courses: BAE 2013, BAE 3013, BAE 3023, BAE 3033, BAE 3213, ENS C 2113, ENS C 2123, ENS C 2143, ENS C 2213, ENS C 2613, ENS C 3233.

• Completion of the Fundamentals of Engineering Examination.

REQUIRED: 40 HOURS OF UPPER DIVISION COURSE WORK

NOTE: This flow chart is for planning purposes only. Students matriculating in AY 2020 must meet the degree requirements as stated on the official degree requirement sheet dated “Academic Year 2020-2021”
Criteria for admission to the Graduate College to pursue the Master of Science include:

1. receive a B.S. degree from an accredited institution.

2. academic performance in undergraduate work at a level that indicates a high probability of success in a graduate program requiring a 3.0/4.0 minimum grade point average.

For further information, contact the School or the Office of the Dean of Engineering.

A flexible study plan is designed to meet each student’s individual goals.

1. 6 hours of courses to be selected from an approved list upon consultation with the advisor.

Up to 3 credit hours from an engineering study abroad course is allowed.