



BIOSYSTEMS ENGINEERING GENERAL OPTION

Course Plan
2023-2024
121 Hours

Year 1

Year 2

16 Credit Hours

18 Credit Hours

16 Credit Hours

15 Credit Hours

Preparatory
One of These
MATH 1613
MATH 1715
MATH 1813

BAE 1012
Intro Biosystems
2 Hours

BAE 1022

MATH 2144
Calculus 1
4 Hours
Note 1

MATH 2153
PHYS 2014
BAE 2013
BAE 3033
ENSC 2113
ENSC 2113

**BIOL 1113 &
BIOL 1111 or
PBIO 1404**
4 Hours

BAE 2013
BAE 3033

HIST 1103
American Hist
3 Hours
Note 2

ENGL 1113
Engl Comp 1
3 Hours
Note 3, 4

ENGL 1213

BAE 1022
Exper Methods
2 Hours

BAE 1012

MATH 2153
Calculus II
3 Hours

MATH 2144

MATH 2163
MATH 2233
IEM 3503
ENSC 2613

PHYS 2014
Gen. Physics I
4 Hours

MATH 2144

BAE 3033
PHYS 2114
ENSC 2113
ENSC 2213

CHEM 1414
Gen Chemistry
4 Hours

ENSC 2213

ENGL 1213
Engl Comp II
3 Hours
Note 5

ENGL 1113

ENGR 1332
Engr Design
2 Hours

Patterned = General Education Course

Shaded = Course requires a grade of C or above

	Subsequent Courses
Course No.	
Course Name	
# of Hours	
See Note #	

Prerequisites

**BIOL 1113 &
BIOL 1111 or
PBIO 1404**
MATH 2144

BAE 2013
Modeling
3 Hours

MATH 2153

MATH 2163
Calculus III
3 Hours

**STAT 4033 or
STAT 4073**

PHYS 2014

PHYS 2114
Gen. Physics II
4 Hours

ENSC 2613

MATH 2144
PHYS 2014
CHEM 1414

ENSC 2213
Thermodynamics
3 Hours

BAE 3213
BAE 4413

MATH 2144
PHYS 2014

ENSC 2113
Statics
3 Hours

ENSC 2123
ENSC 2143
ENSC 3233

**BIOL 1113 &
BIOL 1111 or
PBIO 1404**
MATH 2144
PHYS 2014

BAE 3033
Biomaterials
3 Hours

BAE 4314

MATH 2153

MATH 2233
Diff Equations
3 Hours

ENSC 2113

ENSC 2123
Dynamics
3 Hours

MATH 2153
ENSC 2113

ENSC 3233
Fluid Mech
3 Hours

BAE 3013
BAE 3213
BAE 3223
BAE 4283
BAE 4314
BAE 4413

ENSC 2113

ENSC 2143
Strength of Mat'l
3 Hours

BAE 4012
BAE 4224

NOTES:

- 1) MATH 2144 needs to be preceded with a minimum score of 75 on the Math Placement Test or with MATH 1513 and MATH 1813, respectively.
- 2) HIST 1103 can be replaced with HIST 1483 (H) or HIST 1493 (DH)
- 3) See Academic Regulation 3.5 (<http://catalog.okstate.edu/university-academic-regulations/#english-composition>)
- 4) ENGL 1113 can be replaced with ENGL 1313 Critical Analysis and Writing I.
- 5) ENGL 1213 can be replaced with ENGL 1413 or ENGL 3323.
- 6) 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".
- 7) BAE 4001 and BAE 4012 are to be taken concurrently



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121 Hours

Year 3

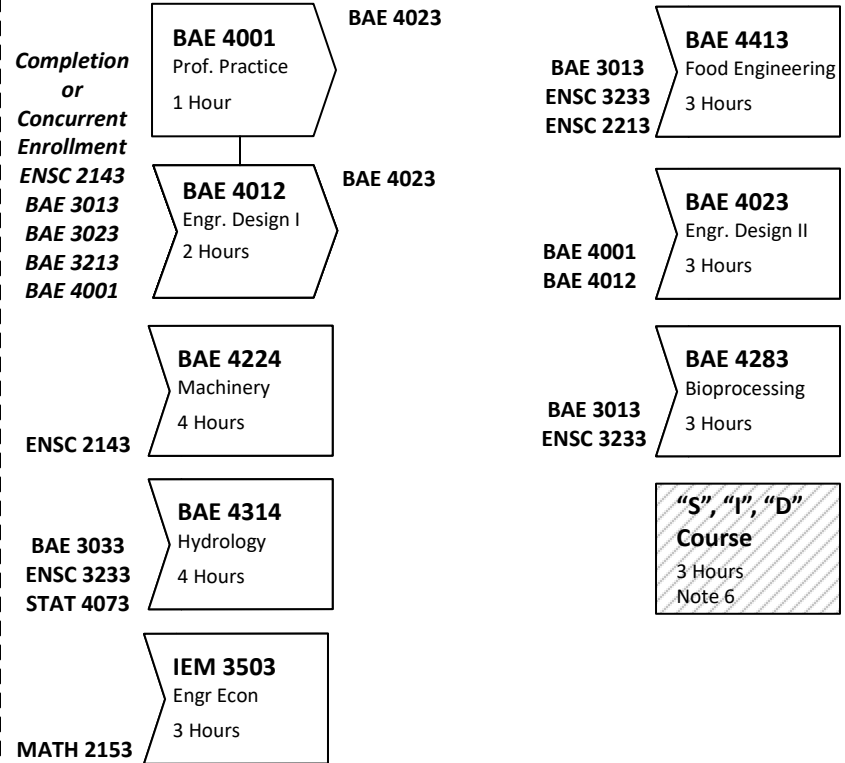
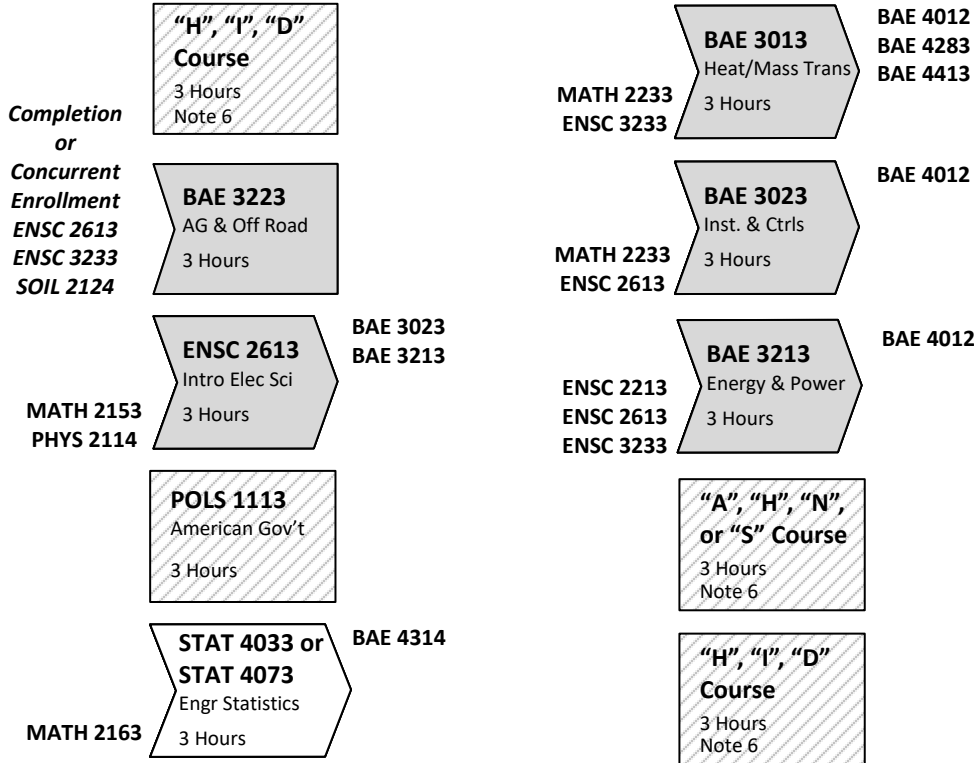
Year 4

15 Credit Hours

15 Credit Hours

14 Credit Hours

12 Credit Hours



Master's Programs:

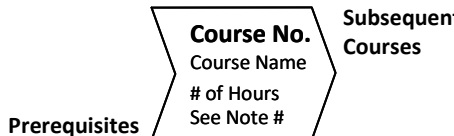
Criteria for admission to the Graduate College to pursue the Master of Science include:

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
- Or 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.

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Additional State/OSU Requirements:

- At least: 60 hours at a four-year institution; 30 hours completed at OSU; 15 of the final 30 or 50% of the upper-division hours in the major field completed at OSU.
- Limit of: one-half of major course requirements as transfer work; one fourth of hours earned by correspondence; 8 transfer correspondence hours.
- Students will be held responsible for degree requirements in effect at the time of matriculation and any changes that are made, so long as these changes do not result in semester credit hours being added or do not delay graduation.
- Degrees that follow this plan must be completed by the end of Summer 2029.