



BIOSYSTEMS ENGINEERING PRE-MED OPTION

Course Plan
2021-2022
125 Hours

Year 1

16 Credit Hours

BAE 1012 **BAE 1022**
Intro Biosystems
2 Hours

MATH 2144 **MATH 2153**
Calculus 1
4 Hours
Note 1

PHYS 2014 **BAE 2013**
ENSC 2113
ENSC 2213

BIOL 1114 **BAE 2013**
4 Hours

BAE 3033
MICR 2123

HIST 1103
American Hist
3 Hours
Note 2

ENGL 1113 **ENGL 1213**
Engl Comp 1
3 Hours
Note 3, 4

17 Credit Hours

BAE 1012 **BAE 1022**
Exper Methods
2 Hours

MATH 2144 **MATH 2153** **MATH 2163**
Calculus II
3 Hours

IEM 3503

MATH 2144 **PHYS 2014** **BAE 3033**
Gen. Physics I
4 Hours

PHYS 2114
ENSC 2213
ENSC 2113

Chem 1314 **CHEM 1515** **ENSC 2213**
Chemistry II
5 Hours

CHEM 3053
MICR 2123

ENGL 1113 **ENGL 1213**
Engl Comp II
3 Hours
Note 5

Year 2

16 Credit Hours

BIOL 1114 **BAE 2013**
MATH 2144 Modeling
3 Hours

MATH 2153 **MATH 2163** **STAT 4033**
Calculus III
3 Hours

or 4073

PHYS 2014 **PHYS 2114** **ENSC 2613**
Gen. Physics II
4 Hours

MATH 2144 **ENSC 2213** **BAE 3213**
PHYS 2014 Thermodynamics
3 Hours

CHEM 1414

MATH 2144 **ENSC 2113** **ENSC 2143**
PHYS 2014 Statics
3 Hours

ENSC 3233

17 Credit Hours

MATH 2144 **BAE 3033**
BIOL 1114 Biomaterials
PHYS 2014 3 Hours

MATH 2153 **MATH 2233**
Diff Equations
3 Hours

ENGR 1332
Engr Design
3 Hours

MATH 2153 **ENSC 3233** **BAE 3013**
ENSC 2113 Fluid Mech
3 Hours

BAE 3213

MATH 2153 **ENSC 2613** **BAE 3023**
PHYS 2114 Elec. Science
3 Hours

BAE 3213

POLS 1113
American Gov't
3 Hours

Other Requirements:

- A minimum 2.0 Technical GPA. The Technical GPA is calculated from all BAE prefixes or substitutions to BAE courses.
- Students are required to complete the Fundamentals of Engineering (FE) exam prior to graduation.
- A minimum of 40 semester credit hours and 100 grade points must be earned in courses numbered 3000 or above.
- A 2.00 GPA or higher in upper-division hours.

Patterned = General Education Course

Shaded = Course requires a grade of C or above

Prerequisites

Course No.
Course Name
of Hours
See Note #

Subsequent Courses

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

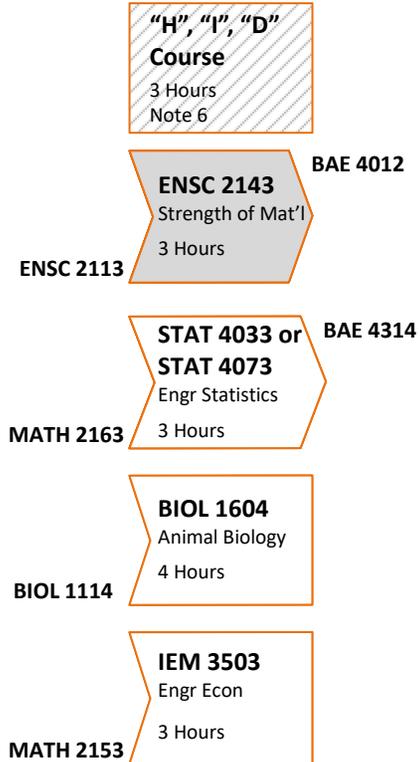


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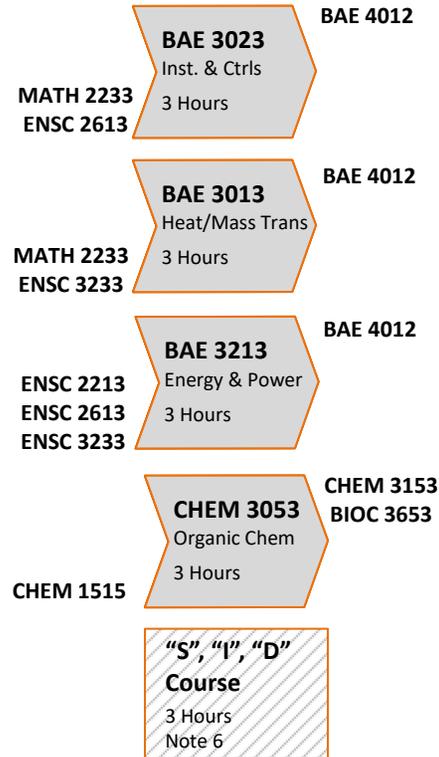
Course Plan
2021-2022
125 Hours

Year 3

16 Credit Hours

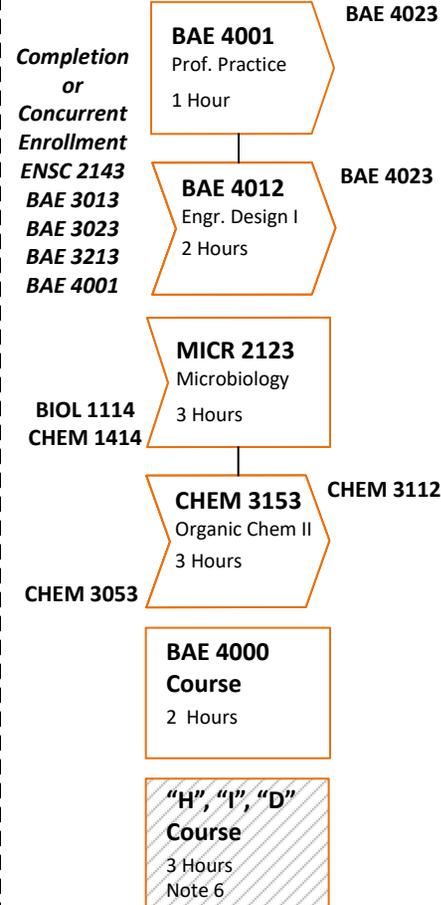


15 Credit Hours

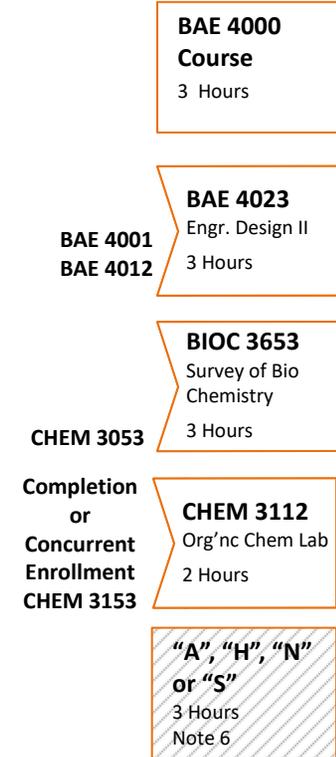


Year 4

14 Credit Hours



14 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.

Patterned = General Education Course

Shaded = Course requires a grade of C or above

Prerequisites

Course No.
Course Name
of Hours
See Note #

Subsequent
Courses

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 2027.