

PRE-MED OPTION

2023-2024 125 Hours

Year 1 16 Credit Hours 17 Credit Hours **BAE 1022 BAE 1012 BAE 1022** Intro Biosystems **Exper Methods** 2 Hours 2 Hours **BAE 1012** Preparatory **MATH 2153 MATH 2163 MATH 2144 MATH 2153** One of These **PHYS 2014 IEM 3503** Calculus 1 Calculus II **BAE 2013 MATH 1613** 4 Hours **ENSC 2113 MATH 1715** 3 Hours Note 1 **MATH 2144 MATH 1813 ENSC 2213 BAE 2013 BAE 3033 BIOL 1113 & PHYS 2014 PHYS 2114 BAE 3033 BIOL 1111** Gen. Physics I **ENSC 2213 MICR 2123 ENSC 2113** 4 Hours 4 Hours **MATH 2144** ENSC 2213 HIST 1103 **CHEM 1515 CHEM 3053** American Hist Chemistry II **MICR 2123** 3 Hours 5 Hours Note 2 Chem 1314 ENGL 1113 **ENGL 1213** ENGL 1213 Engl Comp 1 Engl Comp II 3 Hours 3 Hours Note 3, 4 Note 5 **ENGL 1113**

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

Course No.
Course Name
of Hours
Prerequisites

Course Name
of Hours
See Note #

Year 2 17 Credit Hours 16 Credit Hours **MATH 2144 BAE 3033 BAE 2013 BIOL 1113 & Biomaterials BIOL 1113 &** Modeling **BIOL 1111** 3 Hours **BIOL 1111 PHYS 2014** 3 Hours **MATH 2144 MATH 2233** STAT 4033 or **Diff Equations MATH 2163 STAT 4073** 3 Hours **MATH 2153** Calculus III 3 Hours **MATH 2153 ENGR 1332** Engr Design **ENSC 2613 PHYS 2114** 3 Hours Gen. Physics II **BAE 3013 ENSC 3233** 4 Hours **BAE 3213 PHYS 2014** Fluid Mech **MATH 2153** 3 Hours **ENSC 2113 BAE 3213 ENSC 2213 BAE 3023** Thermodynamics ! **ENSC 2613 MATH 2144 BAE 3213 PHYS 2014** Elec. Science 3 Hours **MATH 2153 CHEM 1414** 3 Hours **PHYS 2114 ENSC 2143 ENSC 2113 CHEM 3153** ENSC 3233 **CHEM 3053** Statics **BIOC 3653** Organic Chem **MATH 2144** 3 Hours **PHYS 2014** 3 Hours **CHEM 1515**

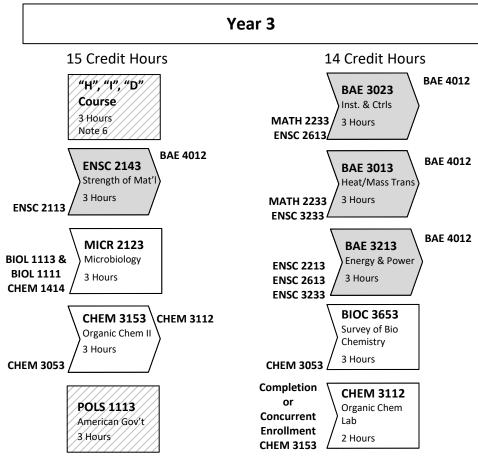
NOTES:

- 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



BIOSYSTEMS ENGINEERING PRE-MED OPTION

<u>Course Plan</u> 2023-2024 125 Hours

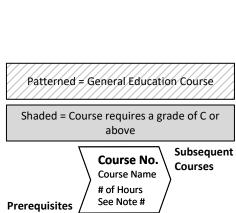


Master's Programs:

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.



Year 4 15 Credit Hours 15 Credit Hours **BAE 4023 BAE 4000 BAE 4001** Completion Course Prof. Practice 3 Hours 1 Hour Concurrent Enrollment ENSC 2143 **BAE 4023 BAE 4012** BAE 3013 **BAE 4023** Engr. Design I **BAE 3023** Engr. Design II **BAF 4001** 2 Hours **BAE 3213** 3 Hours **BAE 4012 BAE 4001 BAE 4000** STAT 4033 or **STAT 4073** Course **Engr Statistics** 2 Hours MATH 2163 **IEM 3503 BIOL 1604 Engr Econ Animal Biology** 4 Hours **BIOL 1113** 3 Hours **MATH 2153 BIOL 1111** "S", "I", "D" "A", "H", "N" or "S" Course 3 Hours 3 Hours Note 6 Note 6 "H"."I"."D" Course 3 Hours Note 6

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.