

to graduation.

numbered 3000 or above.

• A minimum of 40 semester credit hours and

100 grade points must be earned in courses

• A 2.00 GPA or higher in upper-division hours.

# BIOSYSTEMS ENGINEERING ENVIRONMENT & NATURAL RESOURCES OPTION

<u>Course Plan</u> 2022-2023 123 Hours

### Year 1 Year 2 16 Credit Hours 18 Credit Hours 16 Credit Hours 15 Credit Hours **MATH 2144 BAE 4314 BAE 1022 BIOL 1113/ BAE 1022 BAE 3033 BAE 1012 BAE 2013 PHYS 2014** 1111 or **Exper Methods** Biomaterials Intro Biosystems Modeling **BIOL 1113/ PBIO 1404** 2 Hours 1111 or 3 Hours 3 Hours 2 Hours **BAE 1012 MATH 2144 PBIO 1404 Preparatory STAT 4033 MATH 2153 MATH 2163 MATH 2144 MATH 2163** One of These **MATH 2153** or 4073 **PHYS 2014 MATH 2233** IEM 3503 Calculus 1 **MATH 1613** Calculus II Calculus III **BAE 2013 Diff Equations** 4 Hours **MATH 1715 ENSC 2123** 3 Hours 3 Hours 3 Hours Note 1 **MATH 2153 MATH 1813 MATH 2144 MATH 2153 ENSC 2213 BAF 2013 BAE 3033 ENSC 2613 BIOL 1113/ PHYS 2014 PHYS 2114** POLS 1113 **PHYS 2114 BAE 3033** 1111 or Gen. Physics I Gen. Physics II American Gov't **ENSC 2213 PBIO 1404 ENSC 2113** 4 Hours 4 Hours 3 Hours **PHYS 2014 MATH 2144** 4 Hours **BAE 3213 ENSC 2213 BAE 3013** HIST 1103 **ENSC 2213 CHEM 1414 ENSC 3233 CIVE 3833 BAE 3213** American Hist **MATH 2144** Thermodynamics Gen Chemistry Fluid Mech **BAE 4314** 3 Hours **PHYS 2014** 3 Hours **MATH 2153 CIVE 3833** 3 Hours 4 Hours Note 2 **CHEM 1414 ENSC 2113 ENSC 2143 ENGL 1213 BAE 3023** ENGL 1113 ENGL 1213 **ENSC 2113 ENSC 2613 ENSC 3233 BAE 3213** Engl Comp 1 Engl Comp II Statics Elec. Science 3 Hours 3 Hours **MATH 2153 MATH 2144** 3 Hours 3 Hours Note 3, 4 Note 5 **ENGL 1113 PHYS 2014 PHYS 2114 ENGR 1332 NOTES: Engr Design** 1) MATH 2144 needs to be preceded with a minimum score of 75 on the Math Placement Test or 2 Hours Other Requirements: with MATH 1513 and MATH 1813, respectively. • A minimum 2.0 Technical GPA. The Technical 2) HIST 1103 can be replaced with HIST 1483 (H) or HIST 1493 (DH) GPA is calculated from all BAE prefixes or 3) See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/ Patterned = General Education Course substitutions to BAE courses. #english-composition) • Students are required to complete the 4) ENGL 1113 can be replaced with ENGL 1313 Critical Analysis and Writing I. Shaded = Course requires a grade of C or above Fundamentals of Engineering (FE) exam prior

Subsequent

Courses

Course No.

Course Name

# of Hours

See Note #

**Prerequisites** 

5) ENGL 1213 can be replaced with ENGL 1413 or ENGL 3323.

hours need to meet the Diversity Component "D".

7) BAE 4001 and BAE 4012 are to be taken concurrently

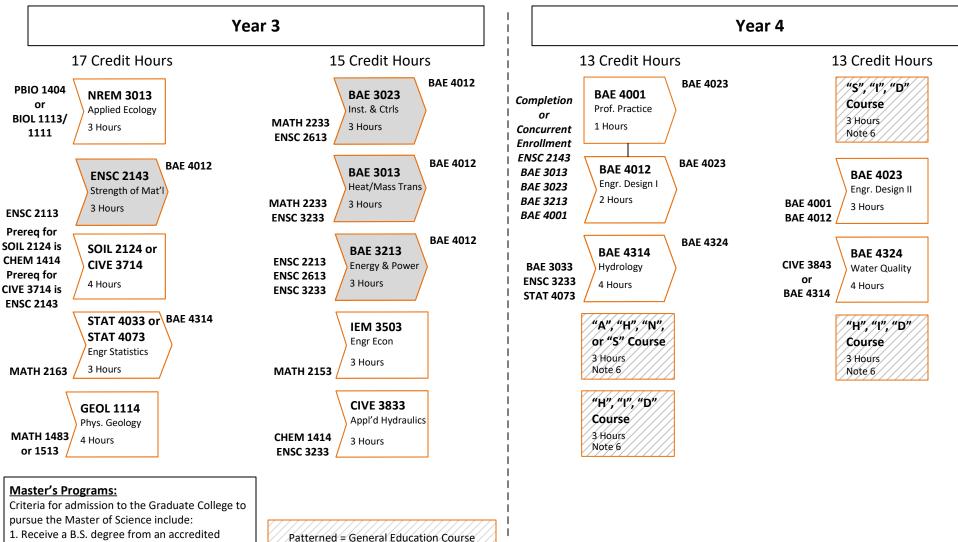
6) At least 6 hours designated "H", 3 hours designated "S", and 3 hours designated "H", "S", "A" or

"N" (A total of 12 hours). Of these, 3 hours need to meet the International Dimension "I" and 3



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Shaded = Course requires a grade of C or above

Course No. Course Name # of Hours See Note # **Prerequisites** 

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.

- 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.