

BIOSYSTEMS ENGINEERING ENVIRONMENT & NATURAL RESOURCES OPTION

Course Plan 2024-2025 125 Hours

Year 1 Year 2 16 Credit Hours 14 Credit Hours 16 Credit Hours 16 Credit Hours BIOL 1113 & **BAE 1011 BAE 1022 BAE 2013 BIOL 1111 or BAE 3033** Intro to **Exper Methods** Comp Methods **BIOL 1114 or** Biomaterials **BAE 4314 Biosystems PBIO 1404** 2 Hours 3 Hours 3 Hours **MATH 2144** 1 Hour **PHYS 2014** BIOL 1113 & **CIVE 2081 UNIV 1111 PHYS 2014 BAE 3033** BIOL 1111 or Environ, Chem. **CHEM 1414** First Yr. Seminar Gen. Physics I **MATH 2144 ENSC 2213** BIOL 1114 or **BAE 3033** 1 Hour **ENSC 2113** PBIO 1404 1 Hour 4 Hours 4 Hours Prerequisites: C or better in one **MATH 2163 MATH 2153 MATH 2144 MATH 2233 MATH 2153 BAE 3013** of the following-**MATH 2163 MATH 2233 PHYS 2014** STAT 4033 or Calculus 1 **MATH 1613** Calculus II **MATH 2153** Diff Equations **MATH 2144 BAE 3213** Calculus III **MATH 2153 ENSC 2113 IEM 3503 STAT 4073 MATH 1715** 4 Hours **BAE 4324** 3 Hours 3 Hours 3 Hours **ENSC 2213 ENSC 2613 MATH 1813** Note 1 **ENGR 1332 ENSC 2213 BAE 3013 CHEM 1414 ENSC 3233 ENSC 2213 Or ENGR 1322 MATH 2144 CIVE 3833 MATH 2153** Fluid Mech **BAE 3213** Gen Chemistry Engr Design **PHYS 2014** Thermodynamics (**BAF 3213 SOIL 2124 ENSC 2113 BAE 4314** 3 Hours 4 Hours **BAE 4324 CHEM 1414** 3 Hours 2 Hours **ENGL 1213** ENGL 1113 **ENSC 2143 ENSC 2113 ENSC 2143** Engl Comp II Engl Comp I **BAE 4012 MATH 2144** Strength of Mat'l **ENGL 1213 ENGL 1113 ENSC 2113** Statics **ENSC 3233** 3 Hours 3 Hours **PHYS 2014** 3 Hours **BAE 4323** Notes 2, 3 Note 4 3 Hours HIST 1103 POLS 1113 American Hist American Gov't 3 Hours 3 Hours Note 5 Other Requirements: **NOTES:** (F)-offered in Fall, (SP)-offered in Spring 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 See Note # **Prerequisites**

Subsequent Courses

- 1) The prerequisite for MATH 2144 is to score a minimum of 75 on the Math Placement Test or by earning a minimum grade of "C" in MATH 1813 or MATH 1715 or MATH 1613.
- 2) See Academic Regulation 3.5 (http://catalog.okstate.edu/university-academic-regulations/#english-composition).
- 3) ENGL 1113 can be replaced with ENGL 1313(F) (Critical Analysis and Writing I).
- 4) ENGL 1213 can be replaced with ENGL 1413 or ENGL 3323.
- 5) HIST 1103 can be replaced with HIST 1483 (H) or HIST 1493 (DH).
- 6) An engineering and/or science elective to be selected from the following list: AST 2313 (F). AST 4203 (F), CIVE 3714 (F,SP), CIVE 3813 (F), CIVE 4013 (SP). Some of these courses may require specific pre-requisites. 7) BAE 4001 and BAE 4012 are to be taken concurrently.
- 8) At least 6 hours designated "H," 3 hours designated "S," and 3 hours designated "A," "H," "N" or "S" for a total of 12 hours. Additionally, at least one "D" course and at least one "I" course must be completed.

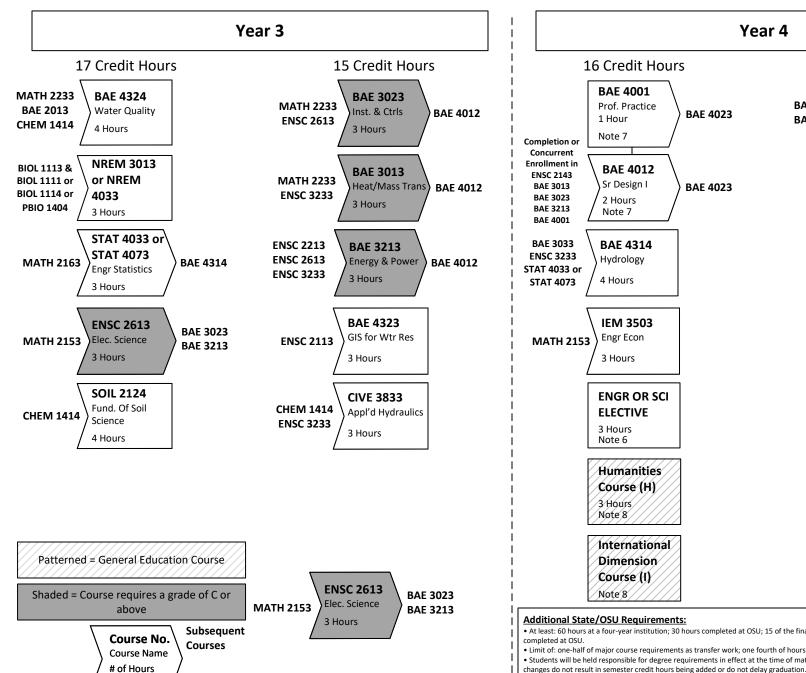


See Note #

Prerequisites

BIOSYSTEMS ENGINEERING ENVIRONMENT & NATURAL RESOURCES OPTION

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Year 4 16 Credit Hours 15 Credit Hours **BAE 4023 BAE 4001** Sr Design II **BAE 4023 BAE 4012** 3 Hours **ENGR OR SCI ELECTIVE BAE 4023** 3 Hours Note 6 Humanities Course (H) 3 Hours Note 8 "A,"/"H," "N," or "S" Course 3 Hours Note 8 Social and **ENGR OR SCI Behavioral Sciences Course** 3 Hours | Note 8 Diversity Course (D) Note 8 International

- 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
- 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
- Degrees that follow this plan must be completed by the end of Summer 2030