

## **BIOSYSTEMS ENGINEERING BIOPROCESSING & FOOD PROCESSING OPTION**

Course Plan 2024-2025 122 Hours

## Year 1 Year 2 17 Credit Hours 16 Credit Hours 16 Credit Hours 14 Credit Hours **BAE 2013 BIOL 1113 & BAE 1022 BAE 3033 BAE 1011** BIOL 1111 or Comp Methods **BIOL 1114 Biomaterials Exper Methods** Intro to **MATH 2144** 3 Hours **Biosystems** 2 Hours 3 Hours PHYS 2014 1 Hour **BAE 3033 ENSC 2143** UNIV 1111 **ENSC 2113 PHYS 2014 ENSC 2213 MATH 2144 ENSC 2143** Strength of Mat'l **ENSC 2113 BAE 4012** First Yr. Seminar Statics Gen Physics I **MATH 2144 ENSC 2113 PHYS 2014 ENSC 3233** 3 Hours 1 Hour 3 Hours **ENSC 2613** 4 Hours Prerequisites: **MATH 2153 MATH 2163** C or better in **MATH 2233 MATH 2144 MATH 2163 PHYS 2014 MATH 2153 BAE 3013** one of the **MATH 2233** MATH 2153 \Diff Equations STAT 4033 or Calculus 1 Calculus III **BAE 3033** following-Calculus II **MATH 2153 BAE 3023 MATH 2144** IEM 3503 **STAT 4073 MATH 1613** 4 Hours 3 Hours **ENSC 2113** 3 Hours 3 Hours **ENSC 2613** Note 1 **MATH 1715 ENSC 2213 MATH 1813 BAE 3013 ENSC 3233 ENGR 1332 or CHEM 1414 ENSC 2213 MATH 2144 BAE 3213 BAE 3213 MATH 2153** Fluid Mech Gen Chemistry **ENGR 1322 PHYS 2014** Thermodynamics **ENSC 2213 BAE 4283 BAE 4413 ENSC 2113** 3 Hours Engr Design **CHEM 1414** 3 Hours 4 Hours **BAF 4413** 2 Hours **ENSC 3231 ENSC 3431** Concurrent ENGL 1113 Current **ENGL 1213** Fluids and Enrollment Thermo &Heat Engl Comp 1 **ENGL 1213** Enrollment Engl Comp II **Hvdraulics ENGL 1113** Transfer 3 Hours 3 Hours **ENSC 3233** 1 Hour **ENSC 2213** Note 2, 3 1 Hour Note 5 POLS 1113 HIST 1103 BIOL 1113 & American Hist American Gov't **BIOL 1111 or BAE 3033 BIOL 1114** 3 Hours **MICR 2123** 3 Hours 4 Hours Note 4 NOTES: (F)-offered in Fall, (SP)-offered in Spring Patterned = General Education Course

## 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.

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) HIST 1103 can be replaced with HIST 1483 (H) or HIST 1493 (DH)
- 5) ENGL 1213 can be replaced with ENGL 1413 or ENGL 3323.
- 6) Any engineering and/or science elective to be selected from an approved list and approved by advisor.
- 7) At least 6 hours designated "A," 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.
- 8) BAE 4001 and BAE 4012 are to be taken concurrently.
- 9) Select one of the following labs: ENSC 2141 (F,SP), ENSC 2411 (F,SP), ENSC 2611 (F,SP), ENSC 3311 (F,SP), ENGR 2421 (F,SP)

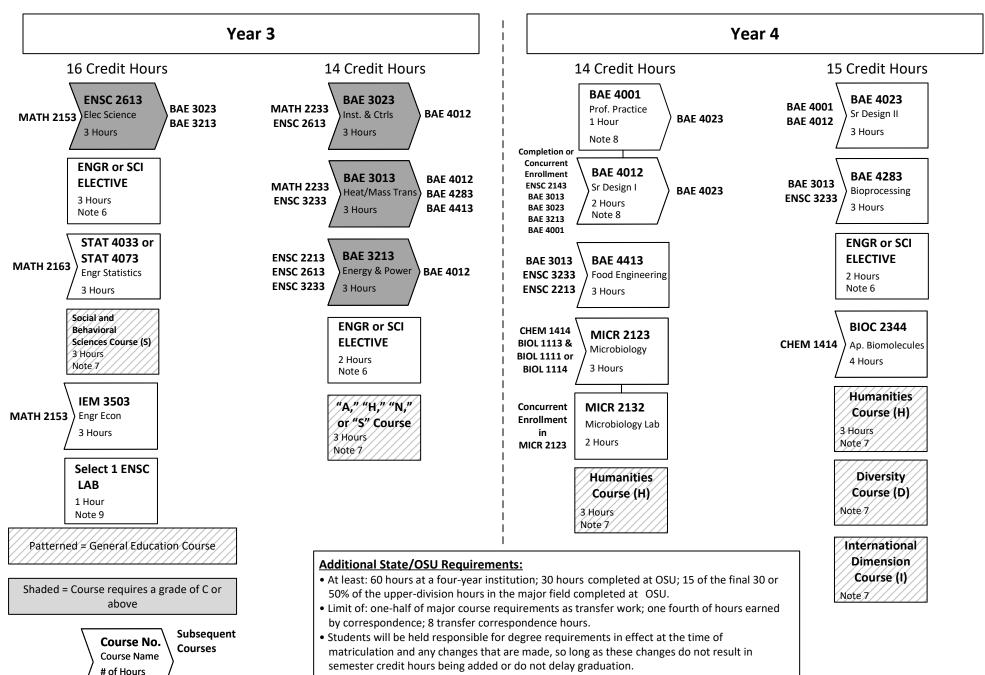


See Note #

**Prerequisites** 

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