**BIOSYSTEMS ENGINEERING**  
**ENVIRONMENT & NATURAL RESOURCES OPTION**  

**Course Plan**  
2023-2024  
125 Hours

### Year 1

- **16 Credit Hours**
  - BAE 1012 Intro Biosystems  
  - MATH 2144 Calculus I  
  - PATH 1101 Science  
  - BIOL 1113 Intro to Biology  
  - ENGL 1113 Comp 1  
  - ENGL 1213 Comp II  
  - HIST 1103 American Hist

### Preparatory Courses
- One of these courses:
  - MATH 1613  
  - MATH 1715  
  - MATH 1813

### Year 2

- **18 Credit Hours**
  - BAE 1012  
  - MATH 2153 Calculus II  
  - MATH 2163 Calculus III  
  - STAT 4033 Statistics  
  - PHYS 2014 Gen. Physics I  
  - PHYS 2114 Gen. Physics II  
  - ENGL 1213 Engl Comp II  
  - ENGL 1313 Critical Analysis and Writing I  
  - ENGR 1332 Engr Design  
  - CHEM 1414 Gen Chemistry  
  - ENSC 2123 Thermodynamics  
  - ENSC 2213 Thermodynamics  
  - ENSE 2113 Statics  
  - ENSE 2213 Thermodynamics  
  - ENSE 2313 Thermodynamics  

### 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.

**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 3213.
6. At least 6 hours designated “H”, 3 hours designated “S”, and 3 hours designated “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.
**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.

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**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.