# Engineering Science (ESC) Two Year Degree Map

## Year 1

### Semester 1
- **MAT 206.5** Intermediate Algebra and Precalculus\(^1\)
  - 4 Credits
- **ENG 101** English Composition
  - 3 Credits
- **XXX xxx** World Cultures and Global Issues\(^2\)
  - 3 Credits
- **SCI 120** Computer Methods in Science
  - 4 Credits
- **XXX xxx** U.S. Experience in Its Diversity\(^2\)
  - 3 Credits

### Summer/Winter Session
- **MAT 301** Calculus I\(^3\)
  - 4 Credits

### Semester 2
- **ENG 201** Introduction to Literature
  - 3 Credits
- **MAT 302** Calculus II\(^4\)
  - 4 Credits
- **PHY 215** University Physics I\(^5\)
  - 4 Credits
- **CHE 201** College Chemistry I\(^6\)
  - 4 Credits

## Year 2

### Semester 3
- **MAT 303** Calculus III\(^7\)
  - 4 Credits
- **PHY 225** University Physics II\(^8\)
  - 4 Credits
- **CHE 202** College Chemistry II\(^9\)
  - 4 Credits
- **ESC 111** Elements of Engineering Design\(^10\)
  - 1 Credit
- **XXX xxx** Curriculum Elective\(^11\)
  - 5 Credits

### Semester 4
- **MAT 501** Ordinary Differential Equations\(^12\)
  - 3 Credits
- **ESC 113** Computer Aided Analysis for Engineering
  - 2 Credits
- **SPE 100** Fundamentals of Public Speaking\(^13\)
  - 3 Credits
- **XXX xxx** Curriculum Elective\(^11\)
  - 4 Credits
- **XXX xxx** Individual and Society\(^2\)
  - 3 Credits

### Total Credits: 69

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**Footnotes**

1. MAT 206.5 is a combination course of Intermediate Algebra and Trigonometry and Precalculus. MAT 206.5 will satisfy the Mathematical & Quantitative Requirement.
2. Please consult with an academic or faculty advisor.
3. Students must have taken and passed MAT 206.5 in order to take MAT 301.
4. MAT 301 must be passed in order to take MAT 302.
5. PHY 215 has a corequisite of MAT 302.
6. Students must have taken and passed MAT 206.5 in order to take CHE 201.
7. MAT 302 must be passed in order to take MAT 303.
8. PHY 215 must be passed in order to take PHY 225.
9. CHE 201 must be passed in order to take CHE 202.
10. MAT 206.5 and CHE 201 must be passed in order to take ESC 111.
11. A total of 9 credits is required. Choose from CHE 230, CHE 240, ESC 130, ESC 131, ESC 201, ESC 202, ESC 211, ESC 221, ESC 223, GLY 210, MAT 315, or PHY 240.
12. MAT 302 must be passed in order to take MAT 501.
13. SPE 102 is an option for non-native speakers of English.
14. A Writing Intensive course is needed to graduate.