# Mathematics and Sciences in Secondary Education Specialization in Physics (SED-PHY)

## Year 1

### Semester 1
- **MAT 206.5** Intermediate Algebra and Precalculus\(^1\)  
  - 4 CREDITS
- **ENG 101** English Composition  
  - 3 CREDITS
- **PSY 100** Introduction to Psychology  
  - 3 CREDITS
- **XXX xxx** Creative Expression\(^2\)  
  - 3 CREDITS
- **XXX xxx** Individual and Society\(^3\)  
  - 3 CREDITS

### Semester 2
- **MAT 302** Analytic Geometry and Calculus II\(^5\)  
  - 4 CREDITS
- **PHY 215** University Physics I\(^6\)  
  - 4 CREDITS
- **ENG 201** Introduction to Literature  
  - 3 CREDITS
- **CHE 201** College Chemistry I\(^7\)  
  - 4 CREDITS

### Summer/Winter Session
- **MAT 301** Analytic Geometry and Calculus I\(^4\)  
  - 4 CREDITS

### Semester 3
- **PHY 225** University Physics II\(^8\)  
  - 4 CREDITS
- **ENG 391** World Literature I\(^9\)  
  - 3 CREDITS
- **EDS 201** Adolescent Development  
  - 3 CREDITS
- **CHE 202** College Chemistry II\(^10\)  
  - 4 CREDITS

### Semester 4
- **PHY 240** Modern Physics\(^11\)  
  - 3 CREDITS
- **EDS 202** Special Topics in Secondary School\(^12\)  
  - 3 CREDITS
- **XXX xxx** U.S Experience in Its Diversity\(^3\)  
  - 3 CREDITS
- **XXX xxx** World Culture and Global Issues\(^3\)  
  - 3 CREDITS

### Total Credits: 61 CREDITS\(^13\)

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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 General Elective Requirement.
2. Select any Creative Expression Pathways course except SPE 100 or SPE 102.
3. Please consult with an academic or faculty advisor.
4. Students must have passed MAT 206.5 in order to take MAT 301.
5. MAT 301 must be passed in order to take MAT 302.
6. PHY 215 has a co-requisite of MAT 302. This means that both courses must be taken in the same semester.
7. PHY 215 and MAT 302 must be passed in order to take PHY 225.
8. ENG 390, and SPE 100 or 102 are alternative options.
9. CHE 201 must be passed in order to take CHE 202.
10. EDS 201 must be passed in order to take EDS 202. EDU 202 is an alternative option. For EDU 202, EDS 201 must first be passed.
11. A Writing Intensive course is needed to graduate.