



**Teacher Education (Physics - Mathematics) (TEPM)**

**Major Electives**

| Code  | Title          | Credits | Prerequisites | Corequisites |
|-------|----------------|---------|---------------|--------------|
|       | Major Elective | 3       |               |              |
|       | Major Elective | 3       |               |              |
| Total |                | 6       |               |              |

**Core Requirements**

| Code     | Title   | Credits | Prerequisites           | Corequisites     |
|----------|---|---------|-------------------------|------------------|
| CSCI250  | Introduction to Programming                                       | 3       | CSCI200                 | ENGL101-CSCI250L |
| CSCI250L | Introduction to Programming Lab                                   | 1       | ENGL101-CSCI200         | CSCI250          |
| EDIT250  | Educational Technology for Teachers                               | 3       | CSCI200                 |                  |
| EDUC221  | Introduction to Educational Psychology                            | 3       |                         | ENGL201          |
| EDUC281  | Learning & Developmental Theories                                 | 3       | EDUC221                 |                  |
| EDUC328  | Introduction to Math and General Sciences Curriculum              | 3       | ENGL251                 |                  |
| EDUC346  | Introduction to Classroom Management                              | 3       | EDUC281                 |                  |
| EDUC380  | Statistical Research in Education                                 | 3       | ENGL251                 |                  |
| EDUC405  | Methods of Teaching & Testing                                     | 3       | EDUC281                 |                  |
| EDUC411  | Introduction to the Philosophy of Education                       | 3       | ENGL201                 |                  |
| EDUC423  | Teaching Mathematics and General Sciences for Elementary Teachers | 3       | EDUC328                 | EDUC405          |
| EDUC440  | Teaching Practicum I  | 3       |                         | EDUC405          |
| EDUC490  | Teaching Practicum II   | 3       | EDUC440                 |                  |
| MATH210  | Calculus II   | 3       | MATH160                 |                  |
| MATH220  | Calculus III  | 3       | MATH210                 |                  |
| MATH225  | Linear Algebra with Applications                                  | 3       | MATH160                 |                  |
| MATH260L | Discrete Mathematics Lab  | 1       | MATH225                 | MATH260          |
| MATH305  | Programming Languages for Scientist                               | 3       | MATH260                 |                  |
| MATH310  | Probability & Statistics for Scientists & Engineers               | 3       | MATH210-ENGL201         |                  |
| MATH345  | Introduction to Real Analysis                                     | 3       | MATH270-MATH220         |                  |
| MATH492  | Mathematical Seminar  | 1       |                         |                  |
| PHYS210  | Mechanics   | 3       | PHYS160-MATH160-ENGL051 |                  |
| PHYS280  | Electricity and Magnetism   | 3       | PHYS160-MATH160         |                  |
| PHYS340  | Modern Physics  | 3       | PHYS250                 |                  |
| Total    |   | 66      |                         |                  |

**Major Requirements**

| Code    | Title                           | Credits | Prerequisites           | Corequisites |
|---------|---------------------------------|---------|-------------------------|--------------|
| MATH260 | Discrete Mathematics            | 3       | MATH225                 | MATH260L     |
| MATH270 | Ordinary Differential Equations | 3       | MATH210                 | MATH225      |
| PHYS250 | Thermodynamic and Waves         | 3       | ENGL051-MATH160-PHYS160 |              |
| Total   |                                 | 9       |                         |              |

**General Education Requirements**

| Code | Title | Credits | Prerequisites | Corequisites |
|------|-------|---------|---------------|--------------|
|------|-------|---------|---------------|--------------|

|         |   |    |         |  |
|---------|---|----|---------|--|
| ARAB200 | Arabic Language and Literature              | 3  |         |  |
| CSCI200 | Introduction to Computers                   | 3  | ENGL051 |  |
| CULT200 | Introduction to Arab - Islamic Civilization | 3  |         |  |
| ENGL201 | Composition and Research Skills             | 3  | ENGL151 |  |
| ENGL251 | Communication Skills                        | 3  | ENGL201 |  |
| Total   |   | 15 |         |  |

### General Education Electives

| Code  | Title                       | Credits | Prerequisites | Corequisites |
|-------|-----------------------------|---------|---------------|--------------|
|       | General Education Electives | 3       |               |              |
| Total |                             | 3       |               |              |

### Major Elective Courses

| Code    | Title   | Credits | Prerequisites | Corequisites |
|---------|---|---------|---------------|--------------|
| EDUC305 | Educational Theories in Guidance and Counseling | 3       | EDUC221       |              |
| EDUC375 | Introduction to Special Education               | 3       | EDUC221       |              |
| EDUC421 | Teaching Mathematics for Elementary Teachers    | 3       |               | EDUC405      |
| EDUC460 | Role of Play in Child Development               | 3       | EDUC281       |              |