## Secondary Education

**Department of Educational Studies**

**Department Chair:** Lesley Bogad

**Secondary Education Program Faculty: Professors** August, Bigler, Bogad, Cvornyek, Horwitz, Johnson, La Ferla, McLaughlin Jr.; **Associate Professors** Brell Jr., Christy, McKamey, Tiskus, Williams; **Assistant Professors** Benson, Caswell, Goss, Hesson, Kraus, Rosa, Shipe

Students **must** consult with their assigned advisor before they will be able to register for courses.

Secondary Education B.A.

Retention Requirements

1. A minimum cumulative GPA of 2.75 each semester.

2. A minimum grade of B- in all teacher education courses.

3. A satisfactory GPA in the major area.

4. Positive recommendations from all education instructors based on academic work, fieldwork, and professional behavior.

If a student’s GPA falls below the minimum 2.75, or if the required GPA in the major falls below the minimum, the student will be put on probation, which means the student cannot continue to take courses in the professional education sequence until the probationary status is removed. If either the overall GPA or the required GPA in the major falls below the minimum for two consecutive semesters, the student may be suspended or dismissed from the secondary education program.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CEP 215 | Introduction to Educational Psychology | 4 | F, Sp, Su |
| FNED 101 | Introduction to Teaching and Learning | 2 | F, Sp, Su |
| FNED 246 | Schooling for Social Justice  | 4 | F, Sp, Su |
| SED 201 | Introduction to Lesson Planning | 2  | F, Sp, Su |
| SED 202 | Introduction to Assessment | 2 | F, Sp, Su |
| SED 301 | Discourses, Literacies, and Technologies of Learning | 2 | F |
|  |  |  |  |
| SED 420 | Introduction to Student Teaching | 2 | Sp |
| SED 421 | Student Teaching in the Secondary School | 7 | Sp |
| SED 422 | Student Teaching Seminar in Secondary Education | 3 | Sp |
|  |  |  |  |
| SPED 333 | Introduction to Special Education | 3 | F, Sp |
| TESL 401 | Introduction to Teaching Emergent Bilinguals | 4 | F, Sp |

Note: To be admitted into SED 301 students must be admitted into FSEHD, and to take their Practicum I course (SED 31X) they must submit passing scores for both the Praxis II content tests and the Praxis II: Principles of Learning and Teaching Tests.

Note: SED 420 is taken in the Early Spring session.

See Secondary Education Majors and Concentrations (p. 160) for further requirements, including SED Practicum courses.

Total Credit Hours: 35

### Secondary Education Majors and Concentrations

Undergraduate students planning to teach in the secondary school—grades 7–12—also major in one of the following areas: biology, chemistry, English, general science, history, mathematics, physics or social studies. See course requirements for these majors on the following pages. A teaching concentration in special education may be chosen **in addition** to one of these majors. See course requirements for the teaching concentration in special education (p. 167).

Biology Major (MORE ON THIS WILL BE SUBMIITED IN MAY)

Students electing a major in Biology apply to the Feinstein School of Education and Human Development and meet admission requirements that include a 2.50 in their content grade point average (GPA) and a minimum grade of C. Students must maintain the content GPA of 2.50 for retention and, along with satisfactorily completing required courses in secondary education (minimum grade B-), complete the following courses to obtain Biology certification:

Requirements

Biology

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |
| BIOL 213 | Introductory Physiology of Plants and Animals | 4 | Sp |
| BIOL 221 | Genetics | 4 | F |
| BIOL 318 | Ecology | 4 | F |
| BIOL 320 | Cell and Molecular Biology | 4 | Sp |
| BIOL 348 | Microbiology | 4 | F, Sp, Su |
| BIOL 491-494 | Research in Biology | 1-4 | F, Sp, Su |

Chemistry

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
| CHEM 205 | Organic Chemistry I | 4 | F, Su |
| CHEM 206 | Organic Chemistry II | 4 | Sp, Su |

Mathematics

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| MATH 240 | Statistical Methods I | 4 | F, Sp, Su |

Physical Science

|  |  |  |  |
| --- | --- | --- | --- |
| PSCI 212 | Introduction to Geology | 4 | F, Su |
| PSCI 357 | Historical and Contemporary Contexts of Science | 3 | As needed |

Physics

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 101 | General Physics I | 4 | F, Su |
|  | -Or- |  |  |
| PHYS 200 | Mechanics | 4 | F |

ONE COURSE from:

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 300 | Developmental Biology of Animals | 4 | Sp |
| BIOL 321 | Invertebrate Zoology | 4 | As needed |
| BIOL 324 | Vertebrate Zoology | 4 | As needed |
| BIOL 329 | Comparative Vertebrate Anatomy | 4 | As needed |
| BIOL 353 | The Plant Kingdom | 4 | As needed |
| BIOL 354 | Plant Growth and Development | 4 | As needed |

Note: To enroll in SED 411 and SED 412, students must have completed at least 55 credit hours of required and cognate courses in the major or have the consent of the program advisor. Prior to enrolling in SED 421, students must have completed all requirements in the biology major.

Total Credit Hours: 68

Chemistry Major (MORE ON THIS WILL BE SUBMIITED IN MAY)

Students electing a major in Chemistry apply to the Feinstein School of Education and Human Development and meet admission requirements that include a 2.50 in their content grade point average (GPA) and a minimum grade of C. Students must maintain the content GPA of 2.75 for retention and, along with satisfactorily completing required courses in secondary education (minimum grade B-), complete the following courses to obtain Chemistry certification:

Requirements

Biology

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |

Chemistry

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
| CHEM 205 | Organic Chemistry I | 4 | F, Su |
| CHEM 206 | Organic Chemistry II | 4 | Sp, Su |
| CHEM 310 | Biochemistry | 4 | F |
| CHEM 403 | Inorganic Chemistry I | 3 | F |
| CHEM 404 | Analytical Chemistry | 4 | Sp (even years) |
| CHEM 405 | Physical Chemistry I | 3 | F |
| CHEM 407 | Physical Chemistry Laboratory I | 1 | F |
| CHEM 491-493 | Research in Chemistry | 1 | As needed |

Mathematics

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |

Physical Science

|  |  |  |  |
| --- | --- | --- | --- |
| PSCI 212 | Introduction to Geology | 4 | F, Su |
| PSCI 357 | Historical and Contemporary Contexts of Science | 3 | As needed |

Physics

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 200 | Mechanics | 4 | F |
| PHYS 201 | Electricity and Magnetism | 4 | Sp |

Note: In unusual circumstances, PHYS 101 and 102 may be substituted for PHYS 200 and 201, with consent of department chair.

ONE COURSE from:

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 406 | Physical Chemistry II | 3 | Sp |
|  |   |  |  |
| CHEM 412 | Inorganic Chemistry II | 2 | Sp |
|  | -And- |  |  |
| CHEM 413 | Inorganic Chemistry Laboratory | 1 | Sp |
|  |   |  |  |
| CHEM 414 | Instrumental Methods of Analysis | 4 | Sp (odd years) |
| CHEM 420 | Biochemistry of Proteins and Nucleic Acids | 3 | F, Sp (odd years) |
| CHEM 422 | Biochemistry Laboratory | 3 | Sp |
| CHEM 425 | Advanced Organic Chemistry | 4 | F (odd years) |
| CHEM 435 | Pharmacology and Toxicology | 3 | As needed |

Note: To enroll in SED 411 and SED 412, students must have completed at least 55 credit hours of required and cognate courses in the major or have the consent of the program advisor. Prior to enrolling in SED 421, students must have completed all requirements in the chemistry major.

Total Credit Hours: 61-62

English Major

Students electing a major in English apply to the Feinstein School of Education and Human Development and meet admission requirements that include a 3.00 in their content grade point average (GPA). Students must maintain the content GPA of 3.00 for retention and, along with satisfactorily completing required courses in secondary education (minimum grade B-), complete the following courses to obtain English certification:

Requirements

Secondary Education

|  |  |  |  |
| --- | --- | --- | --- |
| SED 302 | Teaching and Learning: Humanities in Communities | 2 | F |
| SED 313 | Critical Writing and Teaching in Schools | 4 | Sp |
| SED 413 | Social Justice Teaching in English Education | 4 | F |
|  |  |  |  |
| SPED 433 | Special Education: Best Practices and Applications | 3 | F, Sp |
|  | -Or\_ |  |  |
| TESL 402 | Applications of Second Language Acquisition | 3 | F, Sp |
|  |  |  |  |

English

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 200 | Reading Literature and Culture | 4 | F, Sp |
| Choose ONE from: |  |  |  |
| ENGL 208 | British Literature  | 4 | Annually |
| ENGL 304 | Studies in British Literature to 1500 | 4 | As needed |
| ENGL 305 | Studies in British Literature 1500-1700 | 4 | As needed |
| ENGL 306 | Studies in British Literature 1700-1914 |  4 | As needed |
|  |  |  |  |
| Choose ONE from: |  |  |  |
| ENGL 209 | American Literature  | 4 | Annually |
| ENGL 301 | Reading America to the Civil War | 4 | As needed |
| ENGL 302 | Studies in American Literature 1860-1945 | 4 | As needed |
|  |  |  |  |
| ENGL 212 | Adolescent Literature: Images of Youth | 4 | Annually |
| ENGL 300 | Introduction to Theory and Criticism | 4 | F, Sp |
|  |  |  |  |
| ENGL 326 | Studies in African American Literature | 4 | As needed |
|  | -Or- |  |  |
| ENGL 327 | Studies in Multicultural American Literatures | 4 | As needed |
|  |  |  |  |
| ENGL 336 | Reading Globally | 4 | As needed |
|  |  |  |  |
| ENGL 345 | Shakespeare: Histories and Comedies | 4 | As needed |
|  | -Or- |  |  |
| ENGL 346 | Shakespeare: Tragedies and Romances | 4 | As needed |
|  |  |  |  |
| Choose ONE from: |  |  |  |
| ENGL 378 | Studies in Composition | 4 | As needed |
| ENGL 379 | Studies in Rhetoric | 4 | As needed |
| ENGL 432 | Studies in the English Language | 4 | As needed |
|  |  |  |  |
| ENGL 460 | Seminar in English | 4 | F, Sp |
|  |  |  |  |
| ENGL 341 | Studies in Literature and Film | 4 | As needed |
|  | -Or- |  |  |
| FILM 116 | Introduction to Film | 4 | F, Sp, Su |
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Note: To enroll in SED 420, students must have completed all but two of the required 300-level English courses and all other requirements in the English major.

Total Credit Hours: 57

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General Science Major

Students electing a major in General Science apply to the Feinstein School of Education and Human Development and meet admission requirements that include a 2.50 in their content grade point average (GPA) and a minimum grade of C. Students must maintain the content GPA of 2.50 for retention and, along with satisfactorily completing required courses in secondary education (minimum grade B-), complete the following courses to obtain General Science certification:

Requirements

Secondary Education

|  |  |  |  |
| --- | --- | --- | --- |
| SED 303 | Engaging in STEM | 2 | F |
| SED 316 | Practicum in Secondary Education: Science | 4 | Sp |
| SED 416 | Socio-Scientific Issues in the Classroom | 4 | F |
|  |  |  |  |
| SPED 433 | Special Education: Best Practices and Applications | 3 | F, Sp |
|  | -Or\_ |  |  |
| TESL 402 | Applications of Second Language Acquisition | 3 | F, Sp |

Biology

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |

Chemistry

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |

History

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 108 | History of Science and Medicine | 4 | F |

Mathematics

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
|  |  |  |  |
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TWO COURSES from:

|  |  |  |  |
| --- | --- | --- | --- |
| PSCI 211 | Introduction to Astronomy | 4 | F, Sp |
| PSCI 212 | Introduction to Geology | 4 | F, Su |
| PSCI 214 | Introduction to Meteorology | 4 | F |
| PSCI 217 | Introduction to Oceanography | 4 | Sp |
|  |  |  |  |

Physics

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
|  |  |  |  |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |
|  |  |  |  |
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ONE RESEARCH COURSE from:

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 491 | Research in Biology | 1 | F, Sp, Su |
| CHEM 491 | Research in Chemistry | 1 | As needed |
| PHYS 491 | Research in Physics | 1 | As needed |
| PSCI 491 | Research in Physical Science | 1 | As needed |

Note: To enroll in SED 316, students must have completed at least 28 credit hours of required and cognate courses in the major or have the consent of the program advisor. Prior to SED 420, students must have completed all requirements in the general science major.

Total Credit Hours: 54

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History Major (MORE ON THIS WILL BE SUBMIITED IN MAY)

Students electing a major in History apply to the Feinstein School of Education and Human Development and meet admission requirements that include a 3.00 in their content grade point average (GPA). Students must maintain the content GPA of 3.00 for retention and, along with satisfactorily completing required courses in secondary education (minimum grade B-), complete the following courses to obtain History certification:

Requirements

Secondary Education (TBA)

|  |  |  |  |
| --- | --- | --- | --- |
| SED 302 | Teaching and Learning: Humanities in Communities | 2 | F |
| SED 314 | ?? | 4 | Sp |
| SED 414 | ?? | 4 | F |

History

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 290 | History Matters I Methods and Skills | 3 | F, Sp |
| HIST 291 | History Matters II Historical Research | 3 | F, Sp |
| HIST 389 | History Matters III: Senior History Research | 2 | F, Sp |

TWO courses from:

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 201 | U.S. History: 1400 to 1800 | 3 | F, Sp |
| HIST 202 | U.S. History: 1800 to 1920 | 3 | F, Sp |
| HIST 203 | U. S. History: 1920 to the Present | 3 | F, Sp |

ONE course from. U.S. History

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 209 | The American Revolution | 3 | Annually |
| HIST 217 | American Gender and Women’s History | 3 | Alternate years |
| HIST 218 | American Foreign Policy: 1945 to the Present | 3 | F |
| HIST 219 | Popular Culture in Twentieth Century America | 3 | Alternate years |
| HIST 320 | American Colonial History | 3 | Annually |
| HIST 322 | The Early American Republic | 3 | Annually |
| HIST 323 | The Gilded Age and Progressive Era | 3 | Alternate years |
| HIST 324 | Crises of American Modernity, 1914-1945 | 3 | Annually |
| HIST 325 | Superpower America 1945-1990 | 3 | Annually |
| HIST 326 | American Cultural History: The Nineteenth Century | 3 | As needed |
| HIST 328 | History of the American West | 3 | As needed |
| HIST 329 | Civil War and Reconstruction | 3 | As needed |
| HIST 330 | History of American Immigration | 3 | As needed |
| HIST 331 | Rhode Island History | 3 | Sp |
| HIST 334 | African American History | 3 | Annually |
| HIST 336 | The United States and the Emerging World | 3 | Sp |

ONE COURSE from European History:

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 220 |  Ancient Greece | 3 | Alternate years |
| HIST 221 | The Roman Republic | 3 | As needed |
| HIST 222 | The Roman Empire | 3 | As needed |
| HIST 223 | Medieval History | 3 | As needed |
| HIST 224 | The Glorious Renaissance | 3 | F |
| HIST 234 | Challenges and Confrontation: Women in Europe | 3 | As needed |
| HIST 235 | Voices of the Great War | 3 | Alternative years |
| HIST 258 | Environmental History | 3 | Annually |
| HIST 307 | Europe in the Age of Enlightenment | 3 | As needed |
| HIST 308 | Europe in the Age of Revolution, 1789 to 1850 | 3 | As needed |
| HIST 309 | Europe in the Age of Nationalism, 1850 to 1914 | 3 | As needed |
| HIST 310 | Twentieth-Century Europe | 3 | As needed |
| HIST 312 | Russia from Peter to Lenin | 3 | Alternate years |
| HIST 313 | The Soviet Union and After | 3 | Alternate years |
| HIST 318 | Tudor-Stuart England | 3 | As needed |

ONE COURSE Africa, Asia, Latin American, Middle East:

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 236 | Post-Independence Africa | 3 | Annually |
| HIST 238 | Early Imperial China | 3 | As needed |
| HIST 239 | Japanese History through Art and Literature | 3 | Alternate years |
| HIST 241 | Colonial and Neocolonial Latin America | 3 | Annually |
| HIST 242 | Modern Latin America | 3 | Annually |
| HIST 340 | The Muslim World from the Age of Muhammad to 1800 | 3 | As needed |
| HIST 341 | The Muslim World in Modern Times, 1800 to the Present | 3 | as needed |
| HIST 342 | Islam and Politics in Modern History | 3 | As needed |
| HIST 348 | Africa under Colonial Rule | 3 | Annually |

ONE COURSE from Global History of Non-Western History (Africa, Asia, Latin American, Middle East)

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 218 | American Foreign Policy: 1945 to the Present | 3 | F |
| HIST 222 | The Roman Empire | 3 | As needed |
| HIST 236 | Post-Independence Africa | 3 | Annually |
| HIST 238 | Early Imperial China | 3 | As needed |
| HIST 239 | Japanese History through Art and Literature | 3 | Alternate years |
| HIST 241 | Colonial and Neocolonial Latin America | 3 | Annually |
| HIST 242 | Modern Latin America | 3 | Annually |
| HIST 258 | Environmental History | 3 | Annually |
| HIST 309 | Europe in the Age of Nationalism, 1850 to 1914 | 3 | As needed |
| HIST 310 | Twentieth-Century Europe | 3 | As needed |
| HIST 313 | The Soviet Union and After | 3 | Alternate years |
| HIST 330 | History of American Immigration | 3 | As needed |
| HIST 336 | The United States and the Emerging World | 3 | Sp |
| HIST 340 | The Muslim World from the Age of Muhammad to 1800 | 3 | As needed |
| HIST 341 | The Muslim World in Modern Times, 1800 to the Present | 3 | as needed |
| HIST 342 | Islam and Politics in Modern History | 3 | As needed |
| HIST 348 | Africa under Colonial Rule | 3 | Annually |

Certification Courses

To be certified to teach history in Rhode Island secondary schools, students must also complete the certification courses listed below. Upon completion, students may be eligible for Rhode Island endorsement to teach economics, geography, political science, and social studies.

Courses:

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 101 | Introduction to Cultural Anthropology | 4 | F, Sp |
| ECON 200 | Introduction to Economics | 4 | F, Sp, Su |
| GEOG 200 | World Regional Geography | 4 | F, Sp |
| GEOG 401 |  | 4 |  |
| POL 202 | American Government | 4 | F, Sp, Su |

Note: ECON 200 will double-count as the General Education Social and Behavioral Sciences distribution (SB).)

Total Credit Hours: 57

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Mathematics Major

Students electing a major in Mathematics apply to the Feinstein School of Education and Human Development and meet admission requirements that include a 2.75 in their content grade point average (GPA). Students must maintain the content GPA of 2.75 for retention and, along with satisfactorily completing required courses in secondary education (minimum grade B-), complete the following courses to obtain Mathematics certification:

Requirements

Secondary Education

|  |  |  |  |
| --- | --- | --- | --- |
| SED 301 | Engaging in STEM | 2 | F |
| SED 315 | Mathematics Teaching in a Diverse Classroom | 4 | Sp |
| SED 415 | Rethinking Mathematics Teaching and Learning | 4 | F |
|  |  |  |  |
| SPED 433 | Special Education: Best Practices and Applications | 3 | F, Sp |
|  | -Or\_ |  |  |
| TESL 402 | Applications of Second Language Acquisition | 3 | F, Sp |

Computer Science

|  |  |  |  |
| --- | --- | --- | --- |
| CSCI 157 | Introduction to Algorithmic Thinking in Python | 4 | F, Sp |

Mathematics

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| MATH 240 | Statistical Methods I | 4 | F, Sp, Su |
| MATH 300 | Bridge to Advanced Mathematics | 4 | Sp |
| MATH 314 | Calculus III | 4 | F, Sp |
| MATH 315 | Linear Algebra | 4 | F |
| MATH 324 | College Geometry | 4 | F, Sp |
| MATH 431 | Number Theory | 3 | F, Sp |
| MATH 432 | Introduction to Abstract Algebra | 4 | Sp |
| MATH 441 | Introduction to Probability | 4 | F |
| MATH 458 | History of Mathematics | 4 | F |

Physics

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 103 | Calculus Applications in Mechanics | 1 | F |

Note: To enroll in SED 415, students must have completed the calculus sequence: MATH 212, 213, 314; in addition to MATH 240, MATH 300, MATH 315, MATH 324; and at least concurrent enrollment in MATH 432. Prior to enrollment in SED 420, SED 421 and SED 422, students must have completed all requirements in the mathematics major.

Total Credit Hours: 65

Physics Major (MORE ON THIS WILL BE SUBMITTED IN MAY)

Students electing a major in Physics apply to the Feinstein School of Education and Human Development and meet admission requirements that include a 2.50 in their content grade point average (GPA). Students must maintain the content GPA of 2.50 for retention and, along with satisfactorily completing required courses in secondary education (minimum grade B-), complete the following courses to obtain Physics certification:

Requirements

Biology

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |

Chemistry

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |

Mathematics

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| MATH 314 | Calculus III | 4 | F, Sp |

Physical Science

|  |  |  |  |
| --- | --- | --- | --- |
| PSCI 212 | Introduction to Geology | 4 | F, Su |
| PSCI 357 | Historical and Contemporary Contexts of Science | 3 | As needed |

Required Physics Courses

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 200 | Mechanics | 4 | F |
| PHYS 201 | Electricity and Magnetism | 4 | Sp |
| PHYS 307 | Quantum Mechanics I | 4 | F (even years) |
| PHYS 311 | Thermodynamics | 4 | F (odd years) |
| PHYS 312 | Mathematical Methods in Physics | 3 | Sp |
| PHYS 313 | Junior Laboratory | 3 | Sp |
| PHYS 413 | Senior Laboratory | 3 | Sp |
| PHYS 491-493 | Research in Physics | 1 | As needed |

PHYS 491: (for 1 credit)

Elective Physics Courses

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 309 | Nanoscience and Nanotechnology | 4 | F (odd years) |
| PHYS 315 | Optics | 4 | F (odd years) |
| PHYS 320 | Analog Electronics | 4 | F (even years) |
| PHYS 321 | Digital Electronics | 4 | Sp (odd years) |

Note: To enroll in SED 411 and SED 412, students must have completed at least 55 credit hours of required and cognate courses in the major or have the consent of the program advisor. Prior to enrollment in SED 421, students must have completed all requirements in the physics major.

Total Credit Hours: 61

Social Studies Major (MORE ON THIS WILL BE SUBMITTED IN MAY)

Students electing a major in Social Studies apply to the Feinstein School of Education and Human Development and meet admission requirements that include a 3.00 in their content grade point average (GPA). Students must maintain the content GPA of 3.00 for retention and, along with satisfactorily completing required courses in secondary education (minimum grade B-), complete the following courses to obtain Social Studies certification:

Requirements

Secondary Education (TBA)

|  |  |  |  |
| --- | --- | --- | --- |
| SED 302 | Teaching and Learning: Humanities in Communities | 2 | F |
| SED 314 | ?? | 4 | Sp |
| SED 414 | ?? | 4 | F |

Core Courses

Anthropology

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 101 | Introduction to Cultural Anthropology | 4 | F, Sp |
|  |   |  |  |
| ANTH 461 | Latinos in the United States | 4 | As needed |
|  | -Or- |  |  |
| SOC 208 | The Sociology of Race and Ethnicity | 4 | F, Sp, Su |

Economics

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 200 | Introduction to Economics | 4 | F, Sp, Su |
|  | -Or- |  |  |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
|  | -And- |  |  |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |

Geography

|  |  |  |  |
| --- | --- | --- | --- |
| GEOG 101 | Introduction to Geography | 4 | F, Sp, Su |
| GEOG 200 | World Regional Geography | 4 | F, Sp |

Political Science

|  |  |  |  |
| --- | --- | --- | --- |
| POL 202 | American Government | 4 | F, Sp, Su |
| POL 332 | Civil Liberties in the United States | 4 | F, Sp |

History Component

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 200 | The Nature of Historical Inquiry | 4 | F, Sp |
| HIST 201 | U.S. History to 1877 | 4 | F, Sp, Su |
| HIST 202 | U.S. History from 1877 to the Present | 4 | F, Sp, Su |

Note: HIST 200: (or an approved social science methods course) with a grade of C or higher

ONE COURSE from:

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 308 | Europe in the Age of Revolution, 1789 to 1850 | 4 | As needed |
| HIST 309 | Europe in the Age of Nationalism, 1850 to 1914 | 4 | As needed |
| HIST 310 | Twentieth-Century Europe | 4 | As needed |
| HIST 311 | The Origins of Russia to 1700 | 4 | Alternate years |
| HIST 313 | The Soviet Union and After | 4 | Alternate years |
| HIST 314 | Women in European History | 4 | As needed |

ONE COURSE from:

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 340 | The Muslim World from the Age of Muhammad to 1800 | 4 | Alternate years |
| HIST 341 | The Muslim World in Modern Times, 1800 to the Present | 4 | Alternate years |
| HIST 342 | Islam and Politics in Modern History | 4 | Alternate years |
| HIST 344 | History of East Asia to 1600 | 4 | As needed |
| HIST 345 | History of China in Modern Times | 4 | As needed |
| HIST 346 | Japanese History through Art and Literature | 4 | Alternate years |
| HIST 348 | Africa under Colonial Rule | 4 | Annually |
| HIST 349 | History of Contemporary Africa | 4 | Annually |

Note: To enroll in SED 411 and SED 412, students must have completed at least 24 credit hours of the History Component courses and Core courses listed above, including ECON 200 or ECON 214, GEOG 200, HIST 201, HIST 202, and POL 202.

Concentrations

Choose a concentration below in anthropology, geography, political science, sociology, or an interdisciplinary social sciences/global focus:

A. Anthropology

(If ANTH 461 was taken as part of the Core Courses listed above)

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 103 | Introduction to Biological Anthropology | 4 | Sp |
| ANTH 104 | Introduction to Anthropological Linguistics | 4 | F |

B. Geography

|  |  |  |  |
| --- | --- | --- | --- |
| GEOG 100 | Introduction to Environmental Geography | 4 | F, Sp, Su |
|  |   |  |  |
| GEOG 337 | Urban Political Geography | 3 | As needed |
|  | -Or- |  |  |
| GEOG 338 | People, Houses, Neighborhoods, and Cities | 3 | As needed |
|  | -Or- |  |  |
| GEOG 339 | Metropolitan Providence: Past, Present, and Future | 3 | As needed |

C. Global Studies

|  |  |  |  |
| --- | --- | --- | --- |
| GLOB 356 | The Atlantic World | 4 | As needed |
| POL 203 | Global Politics | 4 | F, Sp |

D. Political Science

Either POL 203 and one of the following

|  |  |  |  |
| --- | --- | --- | --- |
| POL 303 | International Law and Organization | 4 | Sp |
| POL 342 | The Politics of Global Economic Change | 4 | Every third semester |
| POL 343 | The Politics of Western Democracies | 4 | As needed |
| POL 345 | International Nongovernmental Organizations | 4 | F |
| POL 353 | Parties and Elections | 4 | F, of election years |
| POL 357 | The American Presidency | 4 | As needed |
| POL 358 | The American Congress | 4 | Every third semester |

OR

POL 204 and one of the following

|  |  |  |  |
| --- | --- | --- | --- |
| POL 316 | Modern Western Political Thought | 4 | F |
| POL 317 | Politics and Society | 4 | Sp |
| POL 353 | Parties and Elections | 4 | F, of election years |
| POL 357 | The American Presidency | 4 | As needed |
| POL 358 | The American Congress | 4 | Every third semester |

E. Sociology

(If SOC 208 was taken as part of the Core Courses listed above)

|  |  |  |  |
| --- | --- | --- | --- |
| SOC 300 | Classical Sociological Theories | 4 | F, Sp |

and one additional 300-level course chosen with consent of advisor

Total Credit Hours: 65-68

Teaching Concentration in Special Education (MORE ON THIS WILL BE SUBMITTED IN MAY)

A teaching concentration in special education may be chosen in addition to one of the majors listed above. Students must complete required secondary education courses, required courses in the major, and special education courses. See course requirements for a teaching concentration in special education (p. 166).

Middle School CERTIFICATION

The endorsement program in middle school education is for students who wish to teach in a middle school. Students must be enrolled in the secondary education program and must fulfill the following requirements: