Certificate- Programs

Chemistry Education C.U.S.

Maintain a 2.5 G.P.A. in all science classes.

Course Requirements

Courses

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

TWO COURSES from:

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 310 | Biochemistry | 4 | F |
| CHEM 403 | Inorganic Chemistry I | 3 | F |
| CHEM 404W | Analytical Chemistry | 4 | Sp (even years) |
|  |  |  |  |
| CHEM 405 | Physical Chemistry I | 3 | F |
|  | -And- |  |  |
| CHEM 407W | Physical Chemistry Laboratory I | 1 | F |
|  |  |  |  |
| CHEM 412 | Inorganic Chemistry II | 2 | Sp |
|  | -And- |  |  |
| CHEM 413 | Inorganic Chemistry Laboratory | 1 | Sp |
|  |  |  |  |
| CHEM 416W | Environmental Analytical Chemistry | 4 | Sp (odd years) |
| CHEM 418 | Marine Environmental Chemistry | 4 | F (even years) |
| CHEM 425 | Advanced Organic Chemistry | 4 | F (odd years) |
| CHEM 435 | Pharmacology and Toxicology | 3 | As needed |

General Science C.U.S.

Course Requirements

If have Biology Certification, must take:

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

CHOOSE TWO 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 |

If have Chemistry Certification, must take:

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

CHOOSE TWO 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 |

Students with Earth/Space Certification, must take:

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

If have Physics Certification, must take:

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |

CHOOSE TWO 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 Education C.U.S.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |
| PHYS 307 | Quantum Mechanics I | 4 | Sp (odd years) |
| PHYS 311 | Thermodynamics | 4 | Sp (even years) |

CHOOSE TWO from:

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 309 | Nanoscience and Nanotechnology | 4 | F (even years) |
| PHYS 312 | Mathematical Methods in Physics | 3 | F |
| PHYS 313W | Junior Laboratory | 3 | F |
| PHYS 315 | Optics | 4 | Sp (odd years) |
| PHYS 320 | Analog Electronics | 4 | F (odd years) |
| PHYS 321 | Digital Electronics | 4 | Sp (even years) |
| PHYS 401 | Advanced Electricity and Magnetism I | 4 | Sp (even years) |
| PHYS 402 | Advanced Electricity and Magnetism II | 3 | As needed |
| PHYS 403 | Classical Mechanics | 4 | Sp (odd years) |
| PHYS 407 | Quantum Mechanics II | 3 | As needed |
| PHYS 409 | Solid State Physics | 3 | As needed |
| PHYS 413W | Senior Laboratory | 3 | F |

Note: Successful completion of the Praxis II Physics test to get the certification along with the certificate.

Total Credit Hours: 26-28

Arts and Sciences Programs

Chemistry B.A.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
|  | -Or- |  |  |
| CHEM 103H | Honors General Chemistry I | 4 | F |
|  |  |  |  |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
|  | -Or- |  |  |
| CHEM 104H | Honors General Chemistry II | 4 | Sp |
|  |  |  |  |
| CHEM 205W | Organic Chemistry I | 4 | F, Su |
| CHEM 206W | Organic Chemistry II | 4 | Sp, Su |
| CHEM 310 | Biochemistry | 4 | F |
| CHEM 403 | Inorganic Chemistry I | 3 | F |
|  |  |  |  |
| CHEM 404W | Analytical Chemistry | 4 | Sp (even years) |
|  | -Or- |  |  |
| CHEM 416W | Environmental Analytical Chemistry | 4 | Sp (odd years) |
|  |  |  |  |
| CHEM 405 | Physical Chemistry I | 3 | F |
| CHEM 407W | Physical Chemistry Laboratory I | 1 | F |

CHOOSE ONE OF THE OPTIONS below

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 406 | Physical Chemistry II | 3 | Sp |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 412 | Inorganic Chemistry II | 2 | Sp |
|  | -And- |  |  |
| CHEM 413 | Inorganic Chemistry Laboratory | 1 | Sp |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 414 | Instrumental Methods of Analysis | 4 | Sp (odd years) |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 418 | Marine Environmental Chemistry | 4 | F (even years) |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 420 | Biochemistry of Proteins and Nucleic Acids | 3 | F, Sp (odd years) |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 425 | Advanced Organic Chemistry | 4 | F (odd years) |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 435 | Pharmacology and Toxicology | 3 | As needed |

Note: MATH 314 Calculus III is a prerequisite for CHEM 406.

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

Note: Prior to enrolling in any Chemistry course students must have completed the college mathematics competency.

Subtotal: 50-51

Course Requirements — Concentration in Environmental Chemistry

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
| CHEM 205W | Organic Chemistry I | 4 | F, Su |
| CHEM 206W | Organic Chemistry II | 4 | Sp, Su |
| CHEM 310 | Biochemistry | 4 | F |
| CHEM 403 | Inorganic Chemistry I | 3 | F |
| CHEM 405 | Physical Chemistry I | 3 | F |
| CHEM 407W | Physical Chemistry Laboratory I | 1 | F |
| CHEM 416W | Environmental Analytical Chemistry | 4 | Sp (odd years) |
| CHEM 418 | Marine Environmental Chemistry | 4 | F (even years) |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |
|  |  |  |  |
| PSCI 212 | Introduction to Geology | 4 | F, Su |
|  | -Or- |  |  |
| PSCI 217 | Introduction to Oceanography | 4 | Sp |

Subtotal: 55

Chemistry B.S

Course Requirements — Concentration in Biochemistry

The B.S. degree program is approved by the American Chemical Society.

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
|  | -Or- |  |  |
| CHEM 103H | Honors General Chemistry I | 4 | F |
|  |  |  |  |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
|  | -Or- |  |  |
| CHEM 104H | Honors General Chemistry II | 4 | Sp |
|  |  |  |  |
| CHEM 205W | Organic Chemistry I | 4 | F, Su |
| CHEM 206W | Organic Chemistry II | 4 | Sp, Su |
| CHEM 310 | Biochemistry | 4 | F |
| CHEM 403 | Inorganic Chemistry I | 3 | F |
|  |  |  |  |
| CHEM 404W | Analytical Chemistry | 4 | Sp (even years) |
|  | -Or- |  |  |
| CHEM 416W | Environmental Analytical Chemistry | 4 | Sp (odd years) |
|  |  |  |  |
| CHEM 405 | Physical Chemistry I | 3 | F |
| CHEM 407W | Physical Chemistry Laboratory I | 1 | F |
| CHEM 419 | Biochemistry Mechanisms | 3 | Sp |
| CHEM 422 | Biochemistry Laboratory | 3 | Sp |
| CHEM 491-493 | Research in Chemistry | 1 | As needed |

Note: CHEM 491, CHEM 492, CHEM 493: Research in Chemistry can be fulfilled through any combination of these courses. It is strongly suggested that students take research credits in multiple semesters, beginning in their junior year for a total of 3 credit hours.

CHOOSE ONE OF THE OPTIONS below:

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 406 | Physical Chemistry II | 3 | Sp |
|  | -And- |  |  |
| CHEM 408 | Physical Chemistry Laboratory II | 1 | Sp |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 412 | Inorganic Chemistry II | 2 | Sp |
|  | -And- |  |  |
| CHEM 413 | Inorganic Chemistry Laboratory | 1 | Sp |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 414 | Instrumental Methods of Analysis | 4 | Sp (odd years) |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 418 | Marine Environmental Chemistry | 4 | F (even years) |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 425 | Advanced Organic Chemistry | 4 | F (odd years) |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

Note: Prior to enrolling in any Chemistry course students must have completed the college mathematics competency.

Subtotal: 67-68

Course Requirements — Concentration in Environmental Chemistry

The B.S. degree program is approved by the American Chemical Society.

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
|  | -Or- |  |  |
| CHEM 103H | Honors General Chemistry I | 4 | F |
|  |  |  |  |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
|  | -Or- |  |  |
| CHEM 104H | Honors General Chemistry II | 4 | Sp |
|  |  |  |  |
| CHEM 205W | Organic Chemistry I | 4 | F, Su |
| CHEM 206W | Organic Chemistry II | 4 | Sp, Su |
| CHEM 310 | Biochemistry | 4 | F |
| CHEM 403 | Inorganic Chemistry I | 3 | F |
| CHEM 405 | Physical Chemistry I | 3 | F |
| CHEM 407W | Physical Chemistry Laboratory I | 1 | F |
| CHEM 414 | Instrumental Methods of Analysis | 4 | Sp (odd years) |
| CHEM 416W | Environmental Analytical Chemistry | 4 | Sp (odd years) |
| CHEM 418 | Marine Environmental Chemistry | 4 | F (even years) |
| CHEM 491-493 | Research in Chemistry | 1 | As needed |

Note: CHEM 491, CHEM 492, CHEM 493: Research in Chemistry can be fulfilled through any combination of these courses. It is strongly suggested that students take research credits in multiple semesters, beginning in their junior year, for a total of 3 credit hours.

CHOOSE one of the options below:

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 406 | Physical Chemistry II | 3 | Sp |
|  | -And- |  |  |
| CHEM 408 | Physical Chemistry Laboratory II | 1 | Sp |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 412 | Inorganic Chemistry II | 2 | Sp |
|  | -And- |  |  |
| CHEM 413 | Inorganic Chemistry Laboratory | 1 | Sp |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 420 | Biochemistry of Proteins and Nucleic Acids | 3 | F, Sp (odd years) |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 425 | Advanced Organic Chemistry | 4 | F (odd years) |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |
| PSCI 212 | Introduction to Geology | 4 | F, Su |

Note: Prior to enrolling in any Chemistry course students must have completed the college mathematics competency.

Subtotal: 69-70

Course Requirements ­— Concentration in Professional Chemistry

The B.S. degree program is approved by the American Chemical Society.

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
|  | -Or- |  |  |
| CHEM 103H | Honors General Chemistry I | 4 | F |
|  |  |  |  |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
|  | -Or- |  |  |
| CHEM 104H | Honors General Chemistry II | 4 | Sp |
|  |  |  |  |
| CHEM 205W | Organic Chemistry I | 4 | F, Su |
| CHEM 206W | Organic Chemistry II | 4 | Sp, Su |
| CHEM 310 | Biochemistry | 4 | F |
| CHEM 403 | Inorganic Chemistry I | 3 | F |
|  |  |  |  |
| CHEM 404W | Analytical Chemistry | 4 | Sp (even years) |
|  | -Or- |  |  |
| CHEM 416W | Environmental Analytical Chemistry | 4 | Sp (odd years) |
|  |  |  |  |
| CHEM 405 | Physical Chemistry I | 3 | F |
| CHEM 406 | Physical Chemistry II | 3 | Sp |
| CHEM 407W | Physical Chemistry Laboratory I | 1 | F |
| CHEM 408 | Physical Chemistry Laboratory II | 1 | Sp |
| CHEM 414 | Instrumental Methods of Analysis | 4 | Sp (odd years) |
| CHEM 491-493 | Research in Chemistry | 1 | As needed |

Note: CHEM 491, CHEM 492, CHEM 493: Research in Chemistry can be fulfilled through any combination of these courses. It is strongly suggested that students take research credits in multiple semesters, beginning in their junior year for a total of 3 credit hours.

CHOOSE one of the options below:

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 412 | Inorganic Chemistry II | 2 | Sp |
|  | -And- |  |  |
| CHEM 413 | Inorganic Chemistry Laboratory | 1 | Sp |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 418 | Marine Environmental Chemistry | 4 | F (even years) |
|  |  |  |  |
|  | -Or- |  |  |
| CHEM 425 | Advanced Organic Chemistry | 4 | F (odd years) |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| MATH 314 | Calculus III | 4 | F, Sp |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

Note: Prior to enrolling in any Chemistry course students must have completed the college mathematics competency.

Subtotal: 65-66

**Computer Information Systems Program Faculty: Professor**Bain;**Associate Professor** Hayden; **Assistant Professor** Perry

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

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| ACCT 202 | Principles of Accounting II: Managerial | 3 | F, Sp, Su |
| CIS 252 | Introduction to Information Systems | 4 | F, Sp, Su |
| CIS 301 | Introduction to Computer Programming in Business | 4 | F, Sp |
| CIS 421 | Networks and Infrastructure | 4 | F, Sp |
| CIS 440 | Issues in Computer Security | 4 | F, Sp |
| CIS 455 | Database Programming | 4 | F, Sp |
| CIS 462W | Applied Software Development Project | 4 | F, Sp |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |

TWO ADDITIONAL COURSES in computer information systems or computer science at the 300-level or above or COMM 230 (for a total of 8 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| COMM 230 | Interpersonal Communication | 4 | F |

COGNATES

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

Note: MATH 177: Fulfills the Mathematics category of General Education.

Note: MATH 248: Fulfills the Advanced Quantitative Scientific Reasoning category of General Education.

Computer Science B.A.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CSCI 211 | Computer Programming and Design | 4 | F, Sp |
| CSCI 212W | Data Structures | 4 | F, Sp |
| CSCI 309 | Object-Oriented Design | 4 | F, Sp |
| CSCI 312 | Computer Organization and Architecture I | 4 | F, Sp |
| CSCI 313 | Computer Organization and Architecture II | 3 | F, Sp |
| CSCI 325 | Organization of Programming Language | 3 | F (even years), Sp |
| CSCI 401W | Software Engineering | 3 | F (even years), Sp |
| CSCI 423 | Analysis of Algorithms | 4 | F (odd years), Sp |
| CSCI 435 | Operating Systems and Computer Architecture | 3 | F, Sp (even years) |

THREE COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| CSCI 305 | Functional Programming | 4 | F |
| CSCI 415 | Software Testing | 4 | Sp |
| CSCI 416 | Human-Computer Interaction Design | 4 | As needed |
| CSCI 422 | Introduction to Computation Theory | 4 | Sp (As needed) |
| CSCI 427 | Introduction to Artificial Intelligence | 3 | As needed |
| CSCI 428 | Machine Learning | 4 | Sp |
| CSCI 437 | Network Architectures and Programming | 4 | As needed |
| CSCI 455 | Introduction to Database Systems | 3 | F |
| CSCI 467 | Computer Science Internship | 4 | As needed |
| CSCI 476 | Advanced Topics in Computer Science | 4 | Sp |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 436 | Discrete Mathematics | 3 | F, Sp |

IT IS RECOMMENDED that students also take:

|  |  |  |  |
| --- | --- | --- | --- |
| COMM 208 | Public Speaking | 4 | F, Sp |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| MATH 315 | Linear Algebra | 4 | F |

Total Credit Hours: 49-51

Computer Science B.S.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CSCI 211 | Computer Programming and Design | 4 | F, Sp |
| CSCI 212W | Data Structures | 4 | F, Sp |
| CSCI 309 | Object-Oriented Design | 4 | F, Sp |
| CSCI 312 | Computer Organization and Architecture I | 4 | F, Sp |
| CSCI 313 | Computer Organization and Architecture II | 3 | F, Sp |
| CSCI 325 | Organization of Programming Language | 3 | F (even years), Sp |
| CSCI 401W | Software Engineering | 3 | F (even years), Sp |
| CSCI 423 | Analysis of Algorithms | 4 | F (odd years), Sp |
| CSCI 435 | Operating Systems and Computer Architecture | 3 | F, Sp (even years) |

THREE COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| CSCI 305 | Functional Programming | 4 | F |
| CSCI 415 | Software Testing | 4 | Sp |
| CSCI 416 | Human-Computer Interaction Design | 4 | As needed |
| CSCI 422 | Introduction to Computation Theory | 4 | Sp (As needed) |
| CSCI 427 | Introduction to Artificial Intelligence | 3 | As needed |
| CSCI 428 | Machine Learning | 4 | Sp |
| CSCI 437 | Network Architectures and Programming | 4 | As needed |
| CSCI 455 | Introduction to Database Systems | 3 | F |
| CSCI 467 | Computer Science Internship | 4 | As needed |
| CSCI 476 | Advanced Topics in Computer Science | 4 | Sp |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
|  | -Or- |  |  |
| ENGL 231W | Writing for Digital and Multimedia Environments | 4 | As needed |
|  |  |  |  |
| 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 |
|  | -Or- |  |  |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |
|  |  |  |  |
| MATH 436 | Discrete Mathematics | 3 | F, Sp |
| PHIL 206 | Ethics | 3 | F, Sp, Su |
|  |  |  |  |

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 300W | Bridge to Advanced Mathematics | 4 | Sp |
| MATH 314 | Calculus III | 4 | F, Sp |

# English

**Department of English**

**Department Chair:** Alison Shonkwiler

**Department Faculty: Professors** Abbotson, Bohlinger, Boren, Brown, Dagle, Grund, Jalalzai, Kalinak, Michaud, Potter, Reddy, Schapiro, Zornado; **Associate Professors** Anderson, Caouette, Duneer, Holl, Ostas, Shonkwiler; **Assistant Professors** Benson, Hawk, Okoomian, Shipers, Sibielski

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

English B.A.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 200W | Reading Literature and Culture | 4 | F, Sp |
| ENGL 208 | British Literature | 4 | Annually |
| ENGL 209 | American Literature | 4 | Annually |
| ENGL 300W | Introduction to Theory and Criticism | 4 | F, Sp |
| ENGL 460 | Seminar in English | 4 | F, Sp |

ONE COURSE from:

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 220W | Introduction to Creative Writing | 4 | F, Sp |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| ENGL 231W | Writing for Digital and Multimedia Environments | 4 | As needed |
| ENGL 232 | Writing for the Public Sphere | 4 | As needed |
| ENGL 250 | Topics Course in Writing | 4 | As needed |
| ENGL 492 | Independent Study II | 4 | As needed |

TWENTY ADDITIONAL CREDIT HOURS

Twenty additional credit hours in English at the 300- or 400-level, of which a minimum of THREE courses should be in Literature, including ONE from ENGL 301, ENGL 304, ENGL 305, ENGL 306, ENGL 335, ENGL 345, or ENGL 346.  
  
NOTE: ENGL 300 must be taken by the time a student reaches 75 credits.

Subtotal: 44

Course Requirements for English B.A.—with Concentration in Creative Writing

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 200W | Reading Literature and Culture | 4 | F, Sp |
| ENGL 220W | Introduction to Creative Writing | 4 | F, Sp |
| ENGL 310 | Readings for Writers | 4 | Annually |
| ENGL 461 | Advanced Workshop in Creative Writing | 4 | As needed |

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 208 | British Literature | 4 | Annually |
| ENGL 209 | American Literature | 4 | Annually |
| ENGL 210 | Children’s Literature: Interpretation and Evaluation | 4 | Annually |
| ENGL 212 | Adolescent Literature: Images of Youth | 4 | Annually |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| ENGL 231W | Writing for Digital and Multimedia Environments | 4 | As needed |
| ENGL 232 | Writing for the Public Sphere | 4 | As needed |
| ENGL 250 | Topics Course in Writing | 4 | As needed |

THREE COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 371 | Intermediate Creative Writing, Fiction | 4 | F, Sp |
| ENGL 372 | Intermediate Creative Writing, Poetry | 4 | F, Sp |
| ENGL 373 | Intermediate Creative Writing, Nonfiction Prose | 4 | As needed |

Note: ENGL 371, ENGL 372, ENGL 373: May be repeated for credit. Students must choose at least two different courses from this list.

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 300W | Introduction to Theory and Criticism | 4 | F, Sp |
| ENGL 350 | Topics Course in English | 4 | As needed |
|  |  |  |  |
| ENGL 375 | Shoreline Production: Selection and Editing | 2 | F |
|  | -And- |  |  |
| ENGL 376 | Shoreline Production: Design and Distribution | 2 | Sp |
|  |  |  |  |
| 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 450 | Advanced Topics in English | 4 | As needed |
| ENGL 477 | Internship in Rhetoric and Writing | 4 | As needed |

ENGL 350 and ENGL 450: When on appropriate topic.

TWO COURSES in literature or theory at the 300- or 400-level.

Subtotal: 44

Course Requirements for English B.A. with Concentration in Professional Writing

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 200W | Reading Literature and Culture | 4 | F, Sp |
| ENGL 222W | Introduction to Professional Writing | 4 | Annually |
| ENGL 300W | Introduction to Theory and Criticism | 4 | F, Sp |
| ENGL 378 | Studies in Composition | 4 | As needed |
| ENGL 379 | Studies in Rhetoric | 4 | As needed |
| ENGL 477 | Internship in Rhetoric and Writing | 4 | As needed |

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 220W | Introduction to Creative Writing | 4 | F, Sp |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| ENGL 231W | Writing for Digital and Multimedia Environments | 4 | As needed |
| ENGL 232 | Writing for the Public Sphere | 4 | As needed |
| ENGL 250 | Topics Course in Writing | 4 | As needed |

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 350 | Topics Course in English | 4 | As needed |
| ENGL 373 | Intermediate Creative Writing, Nonfiction Prose | 4 | As needed |
|  |  |  |  |
| ENGL 375 | Shoreline Production: Selection and Editing | 2 | F |
|  | -And- |  |  |
| ENGL 376 | Shoreline Production: Design and Distribution | 2 | Sp |
|  |  |  |  |
| ENGL 432 | Studies in the English Language | 4 | As needed |

ONE COURSE in literature at the 200 - or 300 - level

Subtotal: 44

English Minor

Course Requirements

The minor in English consists of a minimum of 20 credit hours (five courses), as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 200W | Reading Literature and Culture | 4 | F, Sp |
| ENGL 300W | Introduction to Theory and Criticism | 4 | F, Sp |

THREE 300- or 400-level English courses

Note: At least two of the 300- and 400-level English courses must be in literature and one of the two in literature before 1800.

Total Credit Hours: 20

Creative Writing Minor

Course Requirements

The minor in creative writing consists of a minimum of 20 credit hours (five courses), as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 200W | Reading Literature and Culture | 4 | F, Sp |
| ENGL 220W | Introduction to Creative Writing | 4 | F, Sp |

THREE COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 371 | Intermediate Creative Writing, Fiction | 4 | F, Sp |
| ENGL 372 | Intermediate Creative Writing, Poetry | 4 | F, Sp |
| ENGL 373 | Intermediate Creative Writing, Nonfiction Prose | 4 | As needed |
|  |  |  |  |
| ENGL 375 | Shoreline Production: Selection and Editing | 2 | F |
|  | -And- |  |  |
| ENGL 376 | Shoreline Production: Design and Distribution | 2 | Sp |
|  |  |  |  |
| ENGL 461 | Advanced Workshop in Creative Writing | 4 | As needed |

Total Credit Hours: 20

Professional Writing Minor

The minor in professional writing consists of a minimum of 24 credit hours (six courses), as follows:

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 222W | Introduction to Professional Writing | 4 | Annually |
| ENGL 378 | Studies in Composition | 4 | As needed |
| ENGL 379 | Studies in Rhetoric | 4 | As needed |
| ENGL 477 | Internship in Rhetoric and Writing | 4 | As needed |

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| ENGL 231W | Writing for Digital and Multimedia Environments | 4 | As needed |
| ENGL 232 | Writing for the Public Sphere | 4 | As needed |
| ENGL 350 | Topics Course in English | 4 | As needed |

ENGL 350: When on appropriate topic.

Total Credit Hours: 24

Data Science B.S.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| 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 245 | Principles of Data Science | 4 | F, Sp |
| MATH 314 | Calculus III | 4 | F, Sp |
| Math 345 | Linear Models for Data Science | 4 | F |
| MATH 436 | Discrete Mathematics | 3 | F, Sp |
| MATH 441 | Introduction to Probability | 4 | F |
| MATH 445 | Advanced Statistical Methods | 4 | Sp |
| CSCI 157 | Introduction to Algorithmic Thinking in Python | 4 | F, Sp |
| CSCI 428 | Machine Learning | 4 | Sp |
|  |  |  |  |
| CIS 455 | Database Programming | 4 | F, Sp |
|  | -Or- |  |  |
| CSCI 455 | Introduction to Database Systems | 3 | F |
|  |  |  |  |
|  |  |  |  |
| CIS 470 | Introduction to Data Science | 4 | F |
| CIS 472 | Data Visualization | 4 | As needed |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| PHIL 207 | Technology and the Future of Humanity | 3 | F, Sp |

Subtotal: 65-66

Computer Information Systems B.S.

**Department of Computer Science and Information Systems**  
  
**Department Chair:** Lisa Bain

**Computer Information Systems Program Faculty: Professor**Bain;**Associate Professor** Hayden; **Assistant Professor** Perry

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

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| ACCT 202 | Principles of Accounting II: Managerial | 3 | F, Sp, Su |
| CIS 252 | Introduction to Information Systems | 4 | F, Sp, Su |
| CIS 301 | Introduction to Computer Programming in Business | 4 | F, Sp |
| CIS 421 | Networks and Infrastructure | 4 | F, Sp |
| CIS 440 | Issues in Computer Security | 4 | F, Sp |
| CIS 455 | Database Programming | 4 | F, Sp |
| CIS 462W | Applied Software Development Project | 4 | F, Sp |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |

TWO ADDITIONAL COURSES in computer information systems or computer science at the 300-level or above or COMM 230 (for a total of 8 credits):

|  |  |  |  |
| --- | --- | --- | --- |
| COMM 230 | Interpersonal Communication | 4 | F |

COGNATES

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

Note: MATH 177: Fulfills the Mathematics category of General Education.

Note: MATH 248: Fulfills the Advanced Quantitative Scientific Reasoning category of General Education.

Geography B.A.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| GEOG 100W | Introduction to Environmental Geography | 4 | F, Sp, Su |
|  | -Or- |  |  |
| GEOG 205 | Earth's Physical Environments | 4 | F, Sp |
|  |  |  |  |
| GEOG 101 | Introduction to Geography | 4 | F, Sp, Su |
| GEOG 200 | World Regional Geography | 4 | F, Sp |
| GEOG 201 | Mapping Our Changing World | 4 | F, Sp |
| GEOG 202 | Geographic Information Systems I | 4 | Sp |
| GEOG 460W | Senior Seminar: Theory and Research | 4 | Sp |
| GEOG 463 | Internship in Geography | 4-6 | F, Sp, Su |

FIFTEEN ADDITIONAL CREDIT HOURS OF COURSES in geography with the exception of GEOG 261.

Total Credit Hours: 43-45

Geography Minor

Course Requirements

The minor in geography consists of a minimum of 19 credit hours, as follows:

Courses

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

and 15 credit hours of courses chosen in consultation with a geography advisor.

One interdisciplinary social science course at the 300- or 400-level may be included (see social science courses under Course Descriptions). Note: Connections courses cannot be used to satisfy these requirements.

Total Credit Hours: 19

Health Sciences B.S.

C. Human Services

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 108 | Basic Principles of Biology | 4 | F, Sp, Su |
|  |  |  |  |
|  | -Or- |  |  |
|  |  |  |  |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
|  | -And- |  |  |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |
|  |  |  |  |
| BIOL 231 | Human Anatomy | 4 | F, Sp, Su |
| BIOL 335 | Human Physiology | 4 | F, Sp, Su |

Either

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
|  | -And- |  |  |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
|  |  |  |  |
|  | -Or- |  |  |
|  |  |  |  |
| CHEM 105 | General, Organic and Biological Chemistry I | 4 | F, Sp, Su |
|  | -And- |  |  |
| CHEM 106 | General, Organic, and Biological Chemistry II | 4 | F, Sp, Su |
|  |  |  |  |
| COMM 338 | Communication for Health Professionals | 4 | F |
| CSCI 101 | Introduction to Computers | 3 | F, Sp, Su |
| HCA 201W | Introduction to Health Care Systems | 3 | F, Sp, Su |
| HCA 303W | Health Policy and Contemporary Issues | 3 | F, Sp |
| HPE 102 | Human Health and Disease | 3 | F, Sp, Su |
| HPE 233 | Social and Global Perspectives on Health | 3 | F, Sp, Su |
| HPE 307 | Introduction to Epidemiology | 3 | F, Sp |
| HSCI 105 | Medical Terminology | 2 | F, Sp |
| HSCI 232 | Human Genetics | 4 | F |
| HSCI 494W | Independent Study in Health Sciences | 4 | As needed |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MATH 240 | Statistical Methods I | 4 | F, Sp, Su |
| PHIL 206 | Ethics | 3 | F, Sp, Su |
| PSYC 110 | Introduction to Psychology | 4 | F, Sp, Su |
| PSYC 230 | Human Development | 4 | F, Sp, Su |

FOUR COURSES from:

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 213W | Plant and Animal Form and Function | 4 | F, Sp |
| BIOL 348 | Microbiology | 4 | F, Sp, Su |
| GRTL 314/NURS 314 | Health and Aging | 4 | F, Sp, Su |
| HCA 302 | Health Care Organizations | 3 | F, Sp |
| HCA 401W/HCA 501 | Ethical and Legal Issues in Health Care Management | 3 | F, Sp, Su |
| HPE 303W | Research in Community and Public Health | 3 | F, Sp |
| HPE 420 | Physiological Aspects of Exercise | 3 | F, Sp |
| MGT 320 | Human Resource Management | 4 | F, Sp, Su |
| MGT 322 | Organizational Behavior | 4 | F, Sp, Su |
| MATH 209 | Precalculus Mathematics | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |
| PSYC 221W | Research Methods I: Foundations | 4 | F, Sp, Su |
| PSYC 335 | Family Psychology | 4 | Annually |
| PSYC 339 | Psychology of Aging | 4 | Annually |
| PSYC 345 | Physiological Psychology | 4 | F, Sp |
| PSYC 424 | Health Psychology | 4 | Annually |
| PSYC 445 | Behavioral Neuroscience | 4 | Annually |
| SOC 217 | Sociology of Aging | 4 | F, Sp, Su |
| SOC 314 | The Sociology of Health and Illness | 4 | Annually |

Subtotal: 83-91

**Department of Modern Languages**

**Department Chair:** Eliani Basile

**Department Faculty: Associate Professors** Basile, Margenot, Oliveira; **Assistant Professor** Falangola

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

Language Courses

The Department of Modern Languages offers elementary and intermediate courses in Arabic, French, German, Greek, Italian, Japanese, Latin, Portuguese, and Spanish. Placement for language study is determined by the student’s performance in course work or, for French, German, Portuguese and Spanish, by their score on the modern languages online test at: www.ric.edu/modernlanguages/Pages/Language-Placement.aspx. Students who demonstrate proficiency on the CEEB or the College Level Examination Program tests are granted credit toward graduation in accordance with Rhode Island College policy.

Elementary courses (101 and 102) and intermediate courses (113 and 114) may be offered in languages not listed in this catalog. Refer to the schedule of classes published each semester and contact the department chair for details. Advanced courses are available in French, Italian, Latin American studies, Portuguese, and Spanish.

Elementary courses may be taken for elective credit, except in the language presented to meet college admission requirements. Students who wish to continue their study of the language presented for admission should elect language courses numbered 102, 113, or 114. For fulfillment of the Second Language Requirement see the section on General Education.

Internship

The Department of Modern Languages strongly encourages students to undertake internship experiences as part of their undergraduate education. Every semester, the department offers twelve-week internships for students in all modern languages concentrations. Students are placed in area agencies, organizations, and companies where they have the opportunity to use the language of their concentration. In order to participate in an internship, students must register for MLAN 320.

Modern Language B.A.

Course Requirements

CHOOSE concentration A, B, C, D, or E below

A. Francophone Studies

|  |  |  |  |
| --- | --- | --- | --- |
| FREN 201WW | Advanced French: Conversation and Composition | 4 | F |
| FREN 202 | Advanced French: Composition and Conversation | 4 | Sp |
| FREN 313 | Modern France and the Francophone World | 4 | Alternate years |
| FREN 324 | Survey of French Literature from 1789 to the Present | 4 | Alternate years |
| FREN 420W | Applied Grammar | 3 | Alternate years |
| FREN 460W | Seminar in French | 3 | Annually |
| HIST 236 | Post-Independence Africa | 3 | Annually |
| HIST 348 | Africa under Colonial Rule | 3 | Annually |
| MLAN 360 | Seminar in Modern Languages | 3 | Annually |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| ARBC 101 | Elementary Arabic I | 4 | F, Sp |
| ARBC 102 | Elementary Arabic II | 4 | F, Sp |

Subtotal: 39

Note: ARBC 101, ARBC 102: May be substituted for another language spoken in Francophone Africa

B. French

|  |  |  |  |
| --- | --- | --- | --- |
| FREN 201W | Advanced French: Conversation and Composition | 4 | F |
| FREN 202W | Advanced French: Composition and Conversation | 4 | Sp |
| FREN 313 | Modern France and the Francophone World | 4 | Alternate years |
| FREN 323 | Survey of French Literature from the Middle Ages to 1789 | 4 | Alternate years |
| FREN 324 | Survey of French Literature from 1789 to the Present | 4 | Alternate years |
| FREN 420W | Applied Grammar | 3 | Alternate years |
| FREN 460W | Seminar in French | 3 | Annually |
| MLAN 360 | Seminar in Modern Languages | 3 | Annually |
| MLAN 400 | Applied Linguistics | 3 | Annually |

TWO ADDITIONAL COURSES in French at the 300-level or above (6 credits)

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
|  | TWO COURSES in another world language | 8 |  |

Subtotal: 46

C. Latin American Studies

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 101 | Introduction to Cultural Anthropology | 4 | F, Sp |
| HIST 241 | Colonial and Neocolonial Latin America | 3 | Annually |
| HIST 242 | Modern Latin America | 3 | Annually |
| LAS 363 | Seminar: Topics in Latin American Studies | 3 | Alternate years |
| MLAN 360 | Seminar in Modern Languages | 3 | Annually |

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 325 | Cultures and Environments in South American | 4 | Alternate years |
| ANTH 461/FNED 461 | LatinX in the United States | 4 | Annually |
| MLAN 320 | Internship in Modern Languages | 1-4 | As needed |
| POL 203 | Global Politics | 4 | F, Sp |
| POL 317 | Politics and Society | 4 | Sp |
| POL 341 | The Politics of Developing Nations | 4 | Sp |
|  | -Or- |  |  |
|  | a 400-level Spanish or Portuguese course in Latin American literature As needed film, culture, etc. | 3 |  |

CHOOSE Track 1 or Track 2

Track 1: Brazil

|  |  |  |  |
| --- | --- | --- | --- |
| PORT 201W | Conversation and Composition | 4 | F |
| PORT 202W | Composition and Conversation | 4 | Sp |
| PORT 304 | Brazilian Literature and Culture | 4 | Alternate years |
|  | ONE ADDITIONAL COURSE in Portuguese at the 300-level or above | 3-4 |  |
|  | Cognates: TWO COURSES in Spanish | 6-8 |  |

Track 2: Spanish-Speaking Latin America

|  |  |  |  |
| --- | --- | --- | --- |
| SPAN 201W | Conversation and Composition | 4 | F, Sp |
| SPAN 202W | Composition and Conversation | 4 | F, Sp |
| SPAN 312 | Latin American Literature and Culture: Pre-Eighteenth Century | 4 | F |
| SPAN 313 | Latin American Literature and Culture: From Eighteenth Century | 4 | Sp |
|  | Cognates: TWO COURSES in Portuguese | 6-8 |  |

Subtotal: 40-44

D. Portuguese

|  |  |  |  |
| --- | --- | --- | --- |
| MLAN 360 | Seminar in Modern Languages | 3 | Annually |
| MLAN 400 | Applied Linguistics | 3 | Annually |
| PORT 201W | Conversation and Composition | 4 | F |
| PORT 202W | Composition and Conversation | 4 | Sp |
| PORT 301 | Portuguese Literature and Culture I | 4 | Alternate years |
| PORT 302 | Portuguese Literature and Culture II | 4 | Alternate years |
| PORT 304 | Brazilian Literature and Culture | 4 | Alternate years |
| PORT 305 | Lusophone African Literatures and Cultures | 4 | As needed |
| PORT 420W | Applied Grammar | 3 | Alternate years |
| PORT 460W | Seminar in Portuguese | 3 | As needed |

ONE ADDITIONAL COURSE in Portuguese at the 300-level or above (3-4 credits)

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
|  | TWO COURSES in another world language | 8 |  |

Subtotal: 47-48

E. Spanish

|  |  |  |  |
| --- | --- | --- | --- |
| MLAN 360 | Seminar in Modern Languages | 3 | Annually |
| MLAN 400 | Applied Linguistics | 3 | Annually |
| SPAN 201W | Conversation and Composition | 4 | F, Sp |
| SPAN 202W | Composition and Conversation | 4 | F, Sp |
| SPAN 310 | Spanish Literature and Culture: Pre-Eighteenth Century | 4 | F |
| SPAN 311 | Spanish Literature and Culture: From Eighteenth Century | 4 | Sp |
| SPAN 312 | Latin American Literature and Culture: Pre-Eighteenth Century | 4 | F |
| SPAN 313 | Latin American Literature and Culture: From Eighteenth Century | 4 | Sp |
| SPAN 420W | Applied Grammar | 3 | Sp |
| SPAN 460W | Seminar in Spanish | 3 | Annually |

ONE ADDITIONAL COURSE in Spanish at the 300-level or above (3-4 Credits)

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
|  | TWO COURSES in another world language | 8 |  |

Subtotal: 47-48

Francophone Studies Minor

Requirements

The minor in Francophone studies consists of any 6 courses from the Francophone studies concentration, chosen with the consent of the advisor.

French Minor

Requirements

The minor in French consists of 18-20 credit hours, as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| FREN 115 | Literature of the French-Speaking World | 4 | F, Sp |
| FREN 201W | Advanced French: Conversation and Composition | 4 | F |
| FREN 202W | Advanced French: Composition and Conversation | 4 | Sp |

and 6-8 credit hours of additional courses in French at the 300-level or above.

Total Credit Hours: 18-20

Italian Minor

Requirements

The minor in Italian consists of 18-20 credit hours, as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ITAL 115 | Literature of Italy | 4 | F, Sp |
| ITAL 201 | Conversation and Composition | 4 | F |
| ITAL 202 | Composition and Conversation | 4 | Sp |

and 6-8 credit hours of additional courses in Italian at the 300-level or above.

Total Credit Hours: 18-20

Latin American Studies Minor

Requirements

The minor in Latin American studies consists of any 6 courses from one of the two tracks in the Latin American Studies concentration, chosen with the consent of the advisor.

Portuguese Minor

Requirements

The minor in Portuguese consists of 18-20 credit hours, as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| PORT 115 | Literature of the Portuguese-Speaking World | 4 | F, Sp |
| PORT 201W | Conversation and Composition | 4 | F |
| PORT 202W | Composition and Conversation | 4 | Sp |

and 6-8 credit hours of additional courses in Portuguese at the 300-level or above.

Total Credit Hours: 18-20

Spanish Minor

Requirements

The minor in Spanish consists of 18-20 credit hours, as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| SPAN 115 | Literature of the Spanish-Speaking World | 4 | F, Sp |
| SPAN 201W | Conversation and Composition | 4 | F, Sp |
| SPAN 202 | Composition and Conversation | 4 | F, Sp |

and 6-8 credit hours of additional courses in Spanish at the 300-level or above.

Total Credit Hours: 18-20

Music B.A.

Course Requirements

Music Theory

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 230 | Music Theory I | 3 | F |
| MUS 232 | Music Theory II | 3 | Sp |
| MUS 234 | Music Theory III | 3 | F |
| MUS 236 | Music Theory IV | 3 | Sp |

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 305 | Form and Analysis | 3 | F (odd years) |
| MUS 307 | Composition | 3 | F (even years) |
| MUS 321 | Orchestration | 3 | Sp (odd years) |
| MUS 323 | Counterpoint | 3 | Sp (even years) |
| MUS 458 | Twentieth-Century Theory | 3 | As needed |

Sight Singing and Ear Training

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 113 | Basic Rhythm | 1 | F, Sp |
| MUS 231 | Sight Singing and Ear Training I | 1 | F |
| MUS 233 | Sight Singing and Ear Training II | 1 | Sp |
| MUS 235 | Sight Singing and Ear Training III | 1 | F |
| MUS 237 | Sight Singing and Ear Training IV | 1 | Sp |

Music History and Literature

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 205W | Music History and Literature I | 3 | F |
| MUS 206W | Music History and Literature II | 3 | Sp |

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 310 | Medieval and Renaissance Music | 3 | Sp (even years) |
| MUS 311 | Music of the Baroque | 3 | F (even years) |
| MUS 312 | Music of the Classical Era | 3 | Sp (odd years) |
| MUS 313 | Music of the Romantic Period | 3 | F (odd years) |
| MUS 314 | Twentieth-Century Music | 3 | Sp (even years) |

Performance

SIX SEMESTERS of

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 161-163 | Large Ensembles | 0.5 | F, Sp |

Note: Choose one major ensemble.

SIX SEMESTERS of

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 270-286 | Applied Music |  |  |
| MUS 288 | Harp | 2 | F, Sp, Su |
| MUS 289 | Harpsichord | 2 | F, Sp, Su |

Note: Choose one instrument.

SIX SEMESTERS of

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 091 | Student Recital Series |  | F, Sp |

TWO SEMESTERS of

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 164-166 | Chamber Ensembles | 1 | F, Sp |
|  | -Or- |  |  |
| MUS 268 | Opera Workshop | 1 | F, Sp |

Note: Students must pass Freshman Applied Music Proficiency upon completion of the second semester of Applied Music.

Capstone Course

|  |  |  |  |
| --- | --- | --- | --- |
| PFA 461W | Senior Seminar | 3 | Sp |

Music in Music Education B.M.

Course Requirements

Music Theory

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 230 | Music Theory I | 3 | F |
| MUS 232 | Music Theory II | 3 | Sp |
| MUS 234 | Music Theory III | 3 | F |
| MUS 236 | Music Theory IV | 3 | Sp |

Sight Singing and Ear Training

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 231 | Sight Singing and Ear Training I | 1 | F |
| MUS 233 | Sight Singing and Ear Training II | 1 | Sp |
| MUS 235 | Sight Singing and Ear Training III | 1 | F |
| MUS 237 | Sight Singing and Ear Training IV | 1 | Sp |

Music History and Literature

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 167 | Music Cultures of Non-Western Worlds | 4 | F, Sp |
| MUS 205W | Music History and Literature I | 3 | F |
| MUS 206W | Music History and Literature II | 3 | Sp |

Note: MUS 167/ANTH 167 will count as Arts GenEd course.

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 310 | Medieval and Renaissance Music | 3 | Sp (even years) |
| MUS 311 | Music of the Baroque | 3 | F (even years) |
| MUS 312 | Music of the Classical Era | 3 | Sp (odd years) |
| MUS 313 | Music of the Romantic Period | 3 | F (odd years) |
| MUS 314 | Twentieth-Century Music | 3 | Sp (even years) |

Class Instruments/Conducting

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 104 | Class Piano I | 1 | F, Sp |
| MUS 105 | Class Piano II | 1 | F, Sp |
| MUS 107 | Class Voice | 1 | Sp |
| MUS 308 | Fundamentals of Conducting | 2 | F |

FOUR COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 106 | Class Strings | 1 | F |
| MUS 110 | Brass Class | 1 | F |
| MUS 111 | Woodwinds Class | 1 | Sp |
| MUS 112 | Percussion Class | 1 | F |
| MUS 210 | Language Orientation I | 1 | F |
| MUS 211 | Language Orientation II | 1 | Sp |

Note: MUS 210 and MUS 211: Vocalists only; required for vocalists.

Applied Music

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 492W | Senior Recital-Music Education |  | F, Sp, Su |

SEVEN SEMESTERS of each of the following groups:

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 091 | Student Recital Series |  | F, Sp |
| MUS 161-163 | Large Ensembles | 0.5 | F, Sp |
| MUS 270–286 or 288–289 | Applied Music (in one instrument) | 2 | F, Sp |

ONE SEMESTER in a second major ensemble for .5 credits.

Note: Students must pass Freshman Applied Music Proficiency upon completion of the second semester of Applied Music.

Related Requirements

TWO SEMESTERS of either

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 164-166 | Chamber Ensembles | 1 | F, Sp |
|  | -Or- |  |  |
| MUS 268 | Opera Workshop | 1 | F, Sp |

MUS 164-166: Keyboard majors may substitute 1 credit hour of MUS 366 for 1 credit hour of MUS 164.

Professional 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 |
| MUSE 212 | Introduction to Music Education | 2 | Sp |
| MUSE 412 | General Music Practicum in Music Education | 3 | Sp |
| MUSE 413 | Secondary Ensemble Practicum in Music Education | 3 | F |
| MUSE 424 | Student Teaching in Music Education | 10 | F, Sp |
| MUSE 460 | Student Teaching Seminar in Music Education | 2 | F, Sp |
| SPED 333 | Introduction to Special Education: Policies/Practices | 3 | F, Sp |
| TESL 401 | Introduction to Teaching Emergent Bilinguals | 4 | F, Sp |

Note: CEP 215 will count as Social/Behavioral Sciences GenEd course.

CHOOSE ONE from:

|  |  |  |  |
| --- | --- | --- | --- |
| SPED 433 | Special Education: Best Practices and Applications | 3 | F, Sp |
| TESL 402 | Applications of Second Language Acquisition | 3 | F, Sp |

Total Credit Hours: 98

Music in Performance B.M.

Course Requirements

Music Theory

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 230 | Music Theory I | 3 | F |
| MUS 232 | Music Theory II | 3 | Sp |
| MUS 234 | Music Theory III | 3 | F |
| MUS 236 | Music Theory IV | 3 | Sp |
| MUS 305 | Form and Analysis | 3 | F (odd years) |

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 307 | Composition | 3 | F (even years) |
| MUS 321 | Orchestration | 3 | Sp (odd years) |
| MUS 323 | Counterpoint | 3 | Sp (even years) |
| MUS 458 | Twentieth-Century Theory | 3 | As needed |

Sight Singing and Ear Training

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 113 | Basic Rhythm | 1 | F, Sp |
| MUS 231 | Sight Singing and Ear Training I | 1 | F |
| MUS 233 | Sight Singing and Ear Training II | 1 | Sp |
| MUS 235 | Sight Singing and Ear Training III | 1 | F |
| MUS 237 | Sight Singing and Ear Training IV | 1 | Sp |

Music History and Literature

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 167 | Music Cultures of Non-Western Worlds | 4 | F, Sp |
| MUS 205W | Music History and Literature I | 3 | F |
| MUS 206W | Music History and Literature II | 3 | Sp |
| MUS 360 | Seminar in Music Literature | 2 | Sp |

Note: MUS 167/ANTH 167 will count as Arts GenEd course.

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 310 | Medieval and Renaissance Music | 3 | Sp (even years) |
| MUS 311 | Music of the Baroque | 3 | F (even years) |
| MUS 312 | Music of the Classical Era | 3 | Sp (odd years) |
| MUS 313 | Music of the Romantic Period | 3 | F (odd years) |
| MUS 314 | Twentieth-Century Music | 3 | Sp (even years) |

Class Instruments

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 104 | Class Piano I | 1 | F, Sp |
| MUS 105 | Class Piano II | 1 | F, Sp |
| MUS 308 | Fundamentals of Conducting | 2 | F |

Note: Voice majors are required to take MUS 210 and MUS 211.

Applied Music

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 391W | Junior Recital |  | F, Sp, Su |
| MUS 493W | Senior Recital-Music Performance Majors |  | F, Sp, Su |

EIGHT SEMESTERS of each of the following groups

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 091 | Student Recital Series |  | F, Sp |
| MUS 161-163 | Large Ensembles | 0.5 | F, Sp |
| MUS 370-389 | Applied Music | 3 | F, Sp |

Cognates

FOUR CREDIT HOURS from

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 164-166 | Chamber Ensembles | 1 |  |
| MUS 210 | Language Orientation I | 1 | F |
| MUS 211 | Language Orientation II | 1 | Sp |
| MUS 268 | Opera Workshop | 1 | F, Sp |
| MUS 366 | Accompanying | 1 | F, Sp |

Total Credit Hours: 75-77

Music Minor

Course Requirements

The minor in music consists of a minimum of 18 credit hours, as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| MUS 205W | Music History and Literature I | 3 | F |
| MUS 206W | Music History and Literature II | 3 | Sp |
| MUS 230 | Music Theory I | 3 | F |
| MUS 231 | Sight Singing and Ear Training I | 1 | F |
| MUS 232 | Music Theory II | 3 | Sp |
| MUS 233 | Sight Singing and Ear Training II | 1 | Sp |

and 4 credit hours from applied music and/or ensembles.

Note: MUS 201, MUS 203, and music education courses may not be elected in the minor.

Total Credit Hours: 18

Physics B.S.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |
| PHYS 307 | Quantum Mechanics I | 4 | Sp (odd years) |
| PHYS 311 | Thermodynamics | 4 | Sp (even years) |
| PHYS 312 | Mathematical Methods in Physics | 3 | F |
| PHYS 313W | Junior Laboratory | 3 | F |
| PHYS 401 | Advanced Electricity and Magnetism I | 4 | Sp (even years) |
| PHYS 403 | Classical Mechanics | 4 | Sp (odd years) |
| PHYS 413W | Senior Laboratory | 3 | F |

ONE COURSE from

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

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 309 | Nanoscience and Nanotechnology | 4 | F (even years) |
| PHYS 402 | Advanced Electricity and Magnetism II | 3 | As needed |
| PHYS 407 | Quantum Mechanics II | 3 | As needed |
| PHYS 409 | Solid State Physics | 3 | As needed |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
| MATH 212 | Calculus I | 4 | F, Sp, Su |
| MATH 213 | Calculus II | 4 | F, Sp, Su |
| MATH 314 | Calculus III | 4 | F, Sp |
| MATH 416 | Ordinary Differential Equations | 4 | Sp (as needed) |

Total Credit Hours: 67-68

Education Programns

Course Requirements common to Elementary Education B.A. with a Teaching Concentration in Middle Level General Science and Elementary Education B.A. with a Teaching Concentration in Middle Level Mathematics

Professional Courses

|  |  |  |  |
| --- | --- | --- | --- |
| CEP 215 | Introduction to Educational Psychology | 4 | F, Sp, Su |
|  |  |  |  |
| ELED 202W | Teaching All Learners: Foundations and Strategies | 4 | F |
|  | -Or- |  |  |
| SPED 202W | Teaching All Learners: Foundations and Strategies | 4 | Sp |
|  |  |  |  |
| ELED 222 | Foundations of Literacy I: Grades 1-3 | 3 | F, Sp |
| ELED 324 | Foundations of Literacy II: Grades 3-6 | 3 | F, Sp |
| ELED 326 | Assessment and Intervention in Literacy-Tier 2 | 4 | F, Sp |
| ELED 330 | Physical Sciences for Elementary School Teachers | 2 | F, Sp, Su |
| ELED 436 | Teaching Social Studies to Diverse Learners | 3 | F, Sp |
| ELED 437 | Elementary School Science and Health Education | 3 | F, Sp |
| ELED 438 | Teaching Elementary School Mathematics | 3 | F, Sp |
| ELED 439 | Student Teaching in the Elementary School | 9 | F, Sp |
| ELED 440 | Capstone: STEAM/Project-Based Learning | 2 | F, Sp, Su |
| ELED 469W | Best Practices: Instruction, Assessment, Classroom Management | 3 | F, Sp |
| FNED 101 | Introduction to Teaching and Learning | 2 | F, Sp, Su |
| FNED 246 | Schooling for Social Justice | 4 | F, Sp, Su |
| MLED 230 | Young Adolescent Development in Social Contexts | 4 | F, Sp, Su |
| MLED 331 | Disciplinary Literacies with Young Adolescents | 4 | F, Sp |
| MLED 332 | Curriculum and Assessment for Young Adolescents | 4 | F, Sp |
| SPED 433 | Special Education: Best Practices and Applications | 3 | F, Sp |
| TESL 401 | Introduction to Teaching Emergent Bilinguals | 4 | F, Sp |

Subtotal: 68

Note: Students cannot receive credit for both ELED 202 and SPED 202.

Teaching Concentration in Middle Level General Science

Admissions Requirements

Admission to this program includes all Feinstein School of Education and Human Development admissions requirements and the following courses for the Concentration in Middle Level General Science: BIOL 111, GEOG 200 or POL 202, and MATH 143 (C or higher in all courses).

Additional Coursework

Students electing to complete the Teaching Concentration in Middle Level General Science must complete the following courses, with a minimum grade point average of 2.50 in the science content courses.

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| ART 210 | Nurturing Artistic and Musical Development | 4 | F, Sp |
| BIOL 111 | Introductory Biology I | 4 | F, Sp, Su |
|  |  |  |  |
| GEOG 200 | World Regional Geography | 4 | F, Sp |
|  | -Or- |  |  |
| POL 202 | American Government | 4 | F, Sp, Su |
|  |  |  |  |
| MATH 143 | Mathematics for Elementary School Teachers I | 4 | F, Sp, Su |
| MATH 144 | Mathematics for Elementary School Teachers II | 4 | F, Sp, Su |

Subtotal: 20

Note: ART 210, BIOL 111, MATH 144 and GEOG 200 or POL 202 courses can also apply to General Education requirements.

Note: All cognates require a minimum grade of C.

Note: If taking GEOG 200 then must choose HIST 107 from the General Education History distribution. If taking POL 202 any HIST General Education is accepted.

General Science Content Courses

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 112 | Introductory Biology II | 4 | F, Sp, Su |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
| PHYS 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

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 |

Subtotal: 28

Total Credit Hours for program: 116

Elementary Education B.S.

Admissions Requirements

Admission requires the successful completion of FYW 100 or FYW 100P (with a minimum of B), BIOL 100 (with a minimum of C), MATH 143 (with a minimum of C), FNED 101 and FNED 346 (both with a minimum of B), completion of basic skills test (CORE: Math, Reading, Writing) or SAT or ACT, and an overall GPA of 2.75.

Retention Requirements

1. A minimum overall GPA of 2.75 each semester.

2. A minimum grade of B- in ELED 202 (or SPED 202), and recommendation to continue from the instructor.

3. A minimum grade of B- in all coursework, including an “acceptable” rating on primary course artifact. Courses in the department may be repeated once with a recommendation to retake from the previous instructor.

4. A minimum grade of C in all prerequisite courses offered in the Faculty of Arts and Sciences.

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

Students must maintain acceptable standing in academic work, fieldwork, and demonstrate consistent professionalism (as described above), or risk suspension from the B.S. in Elementary Education program with teaching concentration in Special Education.

Course Requirements

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 100 | Fundamental Concepts of Biology | 4 | F, Sp, Su |
| GEOG 200 | World Regional Geography | 4 | F, Sp |
| MATH 143 | Mathematics for Elementary School Teachers I | 4 | F, Sp, Su |
| MATH 144 | Mathematics for Elementary School Teachers II | 4 | F, Sp, Su |
| PHYS 120 | The Extraordinary Physics of Ordinary Things | 4 | Sp |
| POL 202 | American Government | 4 | F, Sp, Su |

Note: BIOL 100 (NS), MATH 144 (M), PHYS 120 (AQSR), GEOG 200 or POL 202 (SS) all also apply to General Education requirements.

Note: If taking GEOG 200 then must choose HIST 107 from the General Education History distribution. If taking POL 202 any HIST General Education is accepted.

Note: All cognates require a minimum grade of C.

Professional Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ELED 202W | Teaching All Learners: Foundations and Strategies | 4 | F |
|  | -Or- |  |  |
| SPED 202W | Teaching All Learners: Foundations and Strategies | 4 | Sp |
|  |  |  |  |
| CEP 215 | Introduction to Educational Psychology | 4 | F, Sp, Su |
| ELED 222 | Foundations of Literacy I: Grades 1-3 | 3 | F, Sp |
| ELED 324 | Foundations of Literacy II: Grades 3-6 | 3 | F, Sp |
| ELED 326 | Assessment and Intervention in Literacy-Tier 2 | 4 | F, Sp |
| ELED 330 | Physical Sciences for Elementary School Teachers | 2 | F, Sp, Su |
| ELED 436 | Teaching Social Studies to Diverse Learners | 3 | F, Sp |
| ELED 437 | Elementary School Science and Health Education | 3 | F, Sp |
| ELED 438 | Teaching Elementary School Mathematics | 3 | F, Sp |
| ELED 439 | Student Teaching in the Elementary School | 9 | F, Sp |
| ELED 440 | Capstone: STEAM/Project-Based Learning | 2 | F, Sp, Su |
| ELED 469W | Best Practices: Instruction, Assessment, Classroom Management | 3 | F, Sp |
| FNED 101 | Introduction to Teaching and Learning | 2 | F, Sp, Su |
| FNED 246 | Schooling for Social Justice | 4 | F, Sp, Su |
| SPED 460 | Capstone: Specialized Language Instruction | 2 | F, Sp, Su |

Note: Students cannot receive credit for both ELED 202 and SPED 202.

Note: Students must choose one of the three Special Education Concentrations options to complete the Elementary Education B.S. See Special Education (p. ).

Subtotal: 69

Special Education B.S.—with Concentration in Elementary Special Education

OPEN ONLY TO STUDENTS MAJORING IN ELEMENTARY EDUCATION.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ELED 202W | Teaching All Learners: Foundations and Strategies | 4 | F |
|  | -Or- |  |  |
| SPED 202W | Teaching All Learners: Foundations and Strategies | 4 | Sp |
|  |  |  |  |
| SPED 210W | Supporting Social, Emotional and Behavioral Learning | 4 | F, Sp |
| SPED 211 | Supporting Students with Communication Needs | 3 | F, Sp |
| SPED 312W | Assessment Procedures for Students with Special Needs | 4 | F, Sp |
| SPED 412 | Intensive Intervention in Literacy | 4 | F, Sp |
| SPED 451 | Teaching Culturally/Linguistically Diverse Students with Exceptionality | 3 | F, Sp |
| SPED 453 | Content-Based ESL Instruction for Exceptional Students | 4 | F, Sp |
| SPED 458 | STEM for Diverse Learners: Intensive Intervention | 4 | F, Sp |
|  |  |  |  |
| ELED 440 | Capstone: STEAM/Project-Based Learning | 2 | F, Sp, Su |
|  | -Or- |  |  |
| SPED 460 | Capstone: Specialized Language Instruction | 2 | F, Sp, Su |
|  |  |  |  |
| SPED 470 | Collaboration: Home, School, and Community | 3 | F, Sp |
| SPED 471 | Student Teaching in Elementary Special Education | 8-9 | F, Sp |

Students cannot receive credit for both SPED 202 and ELED 202.

Note: SPED 471: For students seeking dual certification in Elementary Special Education and Severe Intellectual Disabilities (SID), this will be an 8 credit course, otherwise this is a 9 credit course.

Total Credit Hours: 43-44

Special Education B.S.—with Concentration in Elementary Special Education and Severe Intellectual Disabilities

OPEN ONLY TO STUDENTS MAJORING IN ELEMENTARY EDUCATION.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ELED 202W | Teaching All Learners: Foundations and Strategies | 4 | F |
|  | -Or- |  |  |
| SPED 202W | Teaching All Learners: Foundations and Strategies | 4 | Sp |
|  |  |  |  |
| SPED 210W | Supporting Social, Emotional and Behavioral Learning | 4 | F, Sp |
| SPED 211 | Supporting Students with Communication Needs | 3 | F, Sp |
| SPED 312W | Assessment Procedures for Students with Special Needs | 4 | F, Sp |
| SPED 412 | Intensive Intervention in Literacy | 4 | F, Sp |
| SPED 435W | Assessment/Instruction: Young Students with SID | 4 | Sp |
| SPED 436 | Assessment/Instruction: Older Students with SID | 4 | F |
| SPED 451 | Teaching Culturally/Linguistically Diverse Students with Exceptionality | 3 | F, Sp |
| SPED 453 | Content-Based ESL Instruction for Exceptional Students | 4 | F, Sp |
| SPED 458 | STEM for Diverse Learners: Intensive Intervention | 4 | F, Sp |
| SPED 470 | Collaboration: Home, School, and Community | 3 | F, Sp |
| SPED 471 | Student Teaching in Elementary Special Education | 8-9 | F, Sp |
| SPED 472 | Student Teaching Seminar: SID | 2 | F, Sp |
| SPED 473 | Student Teaching in SID | 8-10 | F, Sp |

Students cannot receive credit for both SPED 202 and ELED 202.

Note: SPED 471 and SPED 473: For students seeking dual certification in Elementary Special Education and SID, this will be an 8 credit course, otherwise these are 9 or 10 credit courses.

Total Credit Hours: 59

Special Education B.S.—with Concentration in Severe Intellectual Disabilities (SID), Ages Three to Twenty-One

OPEN ONLY TO STUDENTS MAJORING IN ELEMENTARY EDUCATION, EARLY CHILDHOOD EDUCATION, MIDDLE GRADES EDUCATION (any content area), or SECONDARY EDUCATION (any content area).

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ELED 202W | Teaching All Learners: Foundations and Strategies | 4 | F |
|  | -Or- |  |  |
| SPED 202W | Teaching All Learners: Foundations and Strategies | 4 | Sp |
|  |  |  |  |
| SPED 210W | Supporting Social, Emotional and Behavioral Learning | 4 | F, Sp |
| SPED 211 | Supporting Students with Communication Needs | 3 | F, Sp |
| SPED 312W | Assessment Procedures for Students with Special Needs | 4 | F, Sp |
| SPED 435W | Assessment/Instruction: Young Students with SID | 4 | Sp |
| SPED 436 | Assessment/Instruction: Older Students with SID | 4 | F |
| SPED 451 | Teaching Culturally/Linguistically Diverse Students with Exceptionality | 3 | F, Sp |
| SPED 453 | Content-Based ESL Instruction for Exceptional Students | 4 | F, Sp |
| SPED 472 | Student Teaching Seminar: SID | 2 | F, Sp |
| SPED 473 | Student Teaching in SID | 8-10 | F, Sp |

Students cannot receive credit for both SPED 202 and ELED 202.  
  
Note: SPED 473: For students seeking dual certification in Mild/Moderate and SID, this will be an 8 credit course, otherwise this is a 10 credit course.

Total Credit Hours: 42

Secondary Education Biology Major

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 213W | Plant and Animal Form and Function | 4 | F, Sp |
| BIOL 314 | 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 | F, Sp, Su |

Chemistry

|  |  |  |  |
| --- | --- | --- | --- |
| CHEM 103 | General Chemistry I | 4 | F, Sp, Su |
| CHEM 104 | General Chemistry II | 4 | F, Sp, Su |
| CHEM 205W | Organic Chemistry I | 4 | F, Su |
| CHEM 206W | 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 | Physics for Science and Mathematics I | 4 | F, Sp, Su |

ONE COURSE from:

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 321 | Invertebrate Zoology | 4 | As needed |
| BIOL 324 | Vertebrate Zoology | 4 | As needed |
| BIOL 329 | Comparative Vertebrate Anatomy | 4 | As needed |
| BIOL 330 | Developmental Biology of Animals | 4 | Alternate years |
| BIOL 353 | The Plant Kingdom | 4 | As needed |
| BIOL 354 | Plant Growth and Development | 4 | As needed |

Subtotal: 68

Total Credit Hours: 68

Secondary Education Chemistry Major

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 205W | Organic Chemistry I | 4 | F, Su |
| CHEM 206W | Organic Chemistry II | 4 | Sp, Su |
| CHEM 310 | Biochemistry | 4 | F |
| CHEM 403 | Inorganic Chemistry I | 3 | F |
| CHEM 404W | Analytical Chemistry | 4 | Sp (even years) |
| CHEM 405 | Physical Chemistry I | 3 | F |
| CHEM 407W | 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 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |

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 |

Subtotal: 62-63

Total Credit Hours: 62-63

Secondary Education Physics Major

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 101 | Physics for Science and Mathematics I | 4 | F, Sp, Su |
| PHYS 102 | Physics for Science and Mathematics II | 4 | F, Sp, Su |
| PHYS 307 | Quantum Mechanics I | 4 | Sp (odd years) |
| PHYS 311 | Thermodynamics | 4 | Sp (even years) |
| PHYS 312 | Mathematical Methods in Physics | 3 | F |
| PHYS 313W | Junior Laboratory | 3 | F |
| PHYS 413W | Senior Laboratory | 3 | F |
| 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 (even years) |
| PHYS 315 | Optics | 4 | Sp (odd years) |
| PHYS 320 | Analog Electronics | 4 | F (odd years) |
| PHYS 321 | Digital Electronics | 4 | Sp (even years) |

Subtotal: 61

Total Credit Hours: 61

Secondary Education Social Studies Major

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

|  |  |  |  |
| --- | --- | --- | --- |
| SED 302 | Teaching and Learning: Humanities in Communities | 2 | F |
| SED 314 | Responsive Social Studies Teaching/Learning I | 4 | Sp |
| SED 414 | Responsive Social Studies Teaching/Learning II | 4 | F |

Core Courses

Anthropology

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 101 | Introduction to Cultural Anthropology | 4 | F, Sp |
| ANTH 461/FNED 461 | LatinX in the United States | 4 | Annually |

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 200 | World Regional Geography | 4 | F, Sp |
| GEOG 401 | Geography for Social Studies Educators | 4 | Sp |

History Component

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 202 | U.S. History: 1800-1920 | 3 | F, Sp |
| HIST 203 | U.S. History: 1920 to the Present | 3 | F, Sp |
| HIST 281W | History Matters I: Methods and Skills | 3 | F, Sp |

Political Science

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

ONE COURSE from European History:

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 234 | Challenges and Confrontations: Women in Europe | 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 |

ONE COURSE from Africa, Asia, Middle East:

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 236 | Post-Independence Africa | 3 | Annually |
| HIST 238 | Early Imperial China | 3 | As needed |
| 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 345 | History of China in Modern Times | 3 | As needed |
| HIST 348 | Africa under Colonial Rule | 3 | Annually |

Concentrations

Select one concentration area (A, B, C or D) and then one course from the courses listed for your concentration.

A. Anthropology/Sociology (select one course)

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 102 | Introduction to Archaeology | 4 | F, Sp |
| ANTH 103 | Introduction to Biological Anthropology | 4 | Sp |
| ANTH 104 | Introduction to Anthropological Linguistics | 4 | F |
| SOC 200 | Introduction to Sociology | 4 | F, Sp |
| SOC 208 | The Sociology of Race and Ethnicity | 4 | F, Sp, Su |

B. Geography (select one course)

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

C. Global Studies (select one course)

|  |  |  |  |
| --- | --- | --- | --- |
| GLOB 356 | The Atlantic World | 4 | As needed |
| INGO 301 | Global Development | 4 | Sp |
| POL 203 | Global Politics | 4 | F, Sp |
| POL 342 | The Politics of Global Economic Change | 4 | Every third semester |

D. Political Science (select one course)

|  |  |  |  |
| --- | --- | --- | --- |
| POL 203 | Global Politics | 4 | F, Sp |
| POL 204 | Introduction to Political Thought | 4 | F, Sp |

Total Credit Hours: 56-59

World Languages Education B.A.

**Admission Requirements**

For acceptance into the teacher preparation program in world languages education, students must fulfill the following requirements by the end of the semester in which they apply for admission:

1. All FSEHD admission requirements. Please refer to the FSEHD section of this catalog or go to www.ric.edu/feinsteinSchoolEducationHumanDevelopment/Pages/Admission-Requirements.aspx.

2. Completion of 24 credit hours, including 8 in the content major

**Retention Requirements**

1. A minimum cumulative G.P.A. of 2.75 each semester.

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

3. A G.P.A. of 3.0 or higher in the major area.

4. Positive recommendations from all education instructors based on academic work, fieldwork and professional behavior.  
  
  
If a student’s G.P.A. falls below the minimum of 2.50, or if the required G.P.A. in the major falls below the minimum of 3.0, 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 G.P.A. or the required G.P.A. in the major falls below the minimum for two consecutive semesters, the student may be suspended or dismissed from the world languages 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 301 | Discourses, Literacies and Technologies of Learning | 2 | F |
| SED 302 | Teaching and Learning: Humanities in Communities | 2 | F |
| SPED 333 | Introduction to Special Education: Policies/Practices | 3 | F, Sp |
| TESL 401 | Introduction to Teaching Emergent Bilinguals | 4 | F, Sp |
|  |  |  |  |
| MLAN 400 | Applied Linguistics | 3 | Annually |
|  | -Or- |  |  |
| TESL 402 | Applications of Second Language Acquisition | 3 | F, Sp |
|  |  |  |  |
| WLED 201 | Introduction to World Languages Education | 4 | Sp |
| WLED 317 | Practicum I: Community-Based Language Learning | 4 | Sp |
| WLED 417 | Practicum II: PK-12 World Languages Education | 4 | F |
| WLED 420/SED 420/TECH 420 | Introduction to Student Teaching | 2 | Early Sp |
| WLED 421/SED 421/TECH 421 | Student Teaching in the Secondary School | 7 | Sp |
| WLED 422/SED 422/TECH 422 | Student Teaching Seminar in Secondary Education | 3 | Sp |

Subtotal: 48

Note: CEP 215 satisfies the General Education Social and Behavioral Science (SB) requirement

French Concentration

Along with completing required courses in world languages education, students electing a major in world languages with a concentration in French must complete the following courses with a minimum grade point average of 3.00:

|  |  |  |  |
| --- | --- | --- | --- |
| FREN 201W | Advanced French: Conversation and Composition | 4 | F |
| FREN 202W | Advanced French: Composition and Conversation | 4 | Sp |
|  | FOUR ADDITIONAL COURSES in French at the 300-level | 16 |  |
| FREN 420W | Applied Grammar | 3 | Alternate years |
| FREN 460W | Seminar in French | 3 | Annually |
|  | TWO COURSES in another world language | 8 |  |

Subtotal: 38-40

To enroll in WLED 417, students must have completed FREN 201 or FREN 201W, FREN 202 or FREN 202W, three 300-level or higher courses in FREN, and FREN 420 or FREN 420W. Exam prerequisites to enrollment are Principles of Learning and Teaching Grades K-6 (5622) score of 160 OR 7-12 (5624) score of 157; a score of 162 on the French World Language (5174) exam; and a score of Advanced Low or higher on the French-language Oral Proficiency Interview (OPI or OPIc) and Writing Proficiency Test (WPT).

Portuguese Concentration

Along with completing required courses in world languages education, students electing a major in world languages with a concentration in Portuguese must complete the following courses with a minimum grade point average of 3.00:

|  |  |  |  |
| --- | --- | --- | --- |
| PORT 201W | Conversation and Composition | 4 | F |
| PORT 202W | Composition and Conversation | 4 | Sp |
|  | FOUR COURSES in Portuguese at the 300-level or above | 16 |  |
| PORT 420W | Applied Grammar | 3 | Alternate years |
| PORT 460W | Seminar in Portuguese | 3 | As needed |
|  | TWO COURSES in another world language | 8 |  |

Subtotal: 38

To enroll in WLED 417, students must have completed PORT 201 or PORET 201W, PORT 202 or PORT 202W, three 300-level or higher courses in Portuguese, and PORT 420 or PORT 420W. Exam prerequisites to enrollment are Principles of Learning and Teaching Grades K-6 (5622) score of 160 OR 7-12 (5624) score of 157; and a score of Advanced Low or higher on the Portuguese-language Oral Proficiency Interview (OPI or OPIc) and Writing Proficiency Test (WPT).

Spanish Concentration

Along with completing required courses in world languages education, students electing a major in world languages with a concentration in Spanish must complete the following courses with a minimum grade point average of 3.00:

|  |  |  |  |
| --- | --- | --- | --- |
| SPAN 201W | Conversation and Composition | 4 | F, Sp |
| SPAN 202W | Composition and Conversation | 4 | F, Sp |
| SPAN 310 | Spanish Literature and Culture: Pre-Eighteenth Century | 4 | F |
| SPAN 311 | Spanish Literature and Culture: From Eighteenth Century | 4 | Sp |
| SPAN 312 | Latin American Literature and Culture: Pre-Eighteenth Century | 4 | F |
| SPAN 313 | Latin American Literature and Culture: From Eighteenth Century | 4 | Sp |
| SPAN 420W | Applied Grammar | 3 | Sp |
| SPAN 460W | Seminar in Spanish | 3 | Annually |
|  | TWO COURSES in another world language | 8 |  |

Subtotal: 38

To enroll in WLED 417, students must have completed SPAN 201 or SPAN 201W, SPAN 202 or SPAN 202W, three 300-level courses in Spanish, and SPAN 420 or SPAN 420W. Exam prerequisites to enrollment are Principles of Learning and Teaching Principles of Learning and Teaching Grades K-6 (5622) score of 160 OR 7-12 (5624) score of 157; a score of 168 on the Spanish World Language (5195) exam; and a score of Advanced Low on the Spanish-language Oral Proficiency Interview (OPI or OPIc) and Writing Proficiency Test (WPT).

Subtotal: 45

Wellness and Exercise Science B.S.

Admission Requirements

1. Completion of 24 credits.

2. Minimum G.P.A. of 2.75.

3. Completion of College Math Competency.

4. Minimum Grade of B in FYW 100.

5. Minimum of B- in HPE 140 and HPE 205.

6. Submission of HPE 205 Faculty Reference Form.

Retention Requirements

1. A minimum cumulative G.P.A. of 2.75 each semester.

2. A minimum grade of B- in all other required program courses, except for BIOL 108, BIOL 231, BIOL 335, and PSYC 110 or PSYC 215, which, when needed, require a minimum grade of C.

Note: BIOL 108 fulfills the Natural Science category of General Education.

Note: BIOL 335 fulfills the Advanced Quantitative/Scientific Reasoning category of General Education.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 108 | Basic Principles of Biology | 4 | F, Sp, Su |
| BIOL 231 | Human Anatomy | 4 | F, Sp, Su |
| BIOL 335 | Human Physiology | 4 | F, Sp, Su |
|  |  |  |  |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
|  | -Or- |  |  |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |
|  |  |  |  |
| HPE 102 | Human Health and Disease | 3 | F, Sp, Su |
| HPE 140 | Foundations: Physical Education and Exercise Science | 3 | F, Sp |
| HPE 201 | Prevention and Care of Athletic Injuries | 3 | Sp |
| HPE 205 | Conditioning for Personal Fitness | 3 | F, Sp |
| HPE 221 | Nutrition | 3 | F, Sp |
| HPE 233 | Social and Global Perspectives on Health | 3 | F, Sp, Su |
| HPE 243 | Motor Development and Motor Learning | 3 | F, Sp |
| HPE 278 | Coaching Skills and Tactics | 3 | F, Sp |
| HPE 301W | Principles of Teaching Activity | 3 | F, Sp |
| HPE 303W | Research in Community and Public Health | 3 | F, Sp |
| HPE 309 | Exercise Prescription | 3 | F |
| HPE 406 | Health Program Planning and Development | 3 | Sp or as needed |
| HPE 410 | Managing Stress and Mental/Emotional Health | 3 | F, Sp |
| HPE 411 | Kinesiology | 3 | F, Su |
| HPE 420 | Physiological Aspects of Exercise | 3 | F, Sp |
| HPE 421 | Practicum in Movement Studies and Assessment | 3 | F |
| HPE 427W | Internship in Movement Studies and Recreation | 10 | F, Sp, Su |
| HPE 430 | Seminar in Movement Studies and Recreation | 2 | F, Sp, Su |
|  |  |  |  |
| PSYC 110 | Introduction to Psychology | 4 | F, Sp, Su |
|  | -Or- |  |  |
| PSYC 215 | Social Psychology | 4 | F, Sp, Su |

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| HPE 151 | Introduction to Recreation in Modern Society | 3 | As needed |
| HPE 244 | Group Exercise Instruction | 3 | Sp |
| HPE 247 | Rhythmic Movement | 3 | Sp |
| HPE 307 | Introduction to Epidemiology | 3 | F, Sp |
| HPE 308 | The Science of Coaching | 3 | Sp |
| HPE 310 | Strength and Conditioning for the Athlete | 3 | F |
| HPE 323 | Teaching in Adventure Education | 3 | F, Sp |
| HPE 404 | School Health and Physical Education Leadership | 3 | Sp |
| HPE 408 | Coaching Applications | 3 | F |
| HPE 451 | Recreation and Aging | 3 | As needed |
| SOC 217 | Sociology of Aging | 4 | F, Sp, Su |

Total Credit Hours: 85-87

Youth Development B.A.

Retention Requirements:

1. A grade of C or better in all program courses.

2. Positive recommendations from all field supervisors.

3. A current criminal background check prior to field experiences.

Course Requirements

Education Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| YDEV 300W | Introduction to Youth Development | 4 | F, Sp |
| FNED 246 | Schooling for Social Justice | 4 | F, Sp, Su |
| YDEV 352W | Seminar in Youth Development | 3 | F |
| YDEV 353 | Field Experience in Youth Development | 1 | F |
| YDEV 412 | Advanced Issues in Youth Development | 3 | Sp |
| YDEV 413 | Internship in Youth Development | 4 | Sp |

Note: YDEV 413: This course satisfies the elective requirement in the Nonprofit Management Cognates below.

CHOOSE ONE

|  |  |  |  |
| --- | --- | --- | --- |
| SPED 300 | Introduction to the Characteristics and Education of Children and Youth with Disabilities | 4 | F, Sp |
|  | -Or- |  |  |
| YDEV 301 | Community, Pedagogy and Inclusion | 4 | F, Sp |

CHOOSE ONE

|  |  |  |  |
| --- | --- | --- | --- |
| CEP 215 | Introduction to Educational Psychology | 4 | F, Sp, Su |
| MLED 230 | Young Adolescent Development in Social Contexts | 4 | F, Sp, Su |
| PSYC 215 | Social Psychology | 4 | F, Sp, Su |
| PSYC 230 | Human Development | 4 | F, Sp, Su |

Note: It is recommended that students also take PSYC 110 as their Social and Behavior Science General Education course requirement.

Social Work Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| SWRK 200 | Introduction to Social Work | 4 | F, Sp, Su |
| SWRK 324 | Diversity and Oppression I | 4 | F, Sp, Su |
| SWRK 325 | Diversity and Oppression II | 4 | F, Sp, Su |
| SWRK 326W | Generalist Social Work Practice | 4 | F, Sp |

Nonprofit Management Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| NPST 300 | Institute in Nonprofit Studies | 4 | F |
| NPST 301 | Financial Management for Nonprofits | 3 | Sp |
| NPST 402 | Staff and Volunteer Management for Nonprofits | 3 | F |
| NPST 404 | Communications and Resource Development for Nonprofits | 3 | Sp |
| ELECTIVE | ONE COURSE in an aspect of nonprofit organizations or philanthropy | 3-4 |  |

Business Programs

Accounting B.S.

**Department of Accounting**   
  
**Department Chair:** Susan Weiss

**Accounting Program Faculty: Professor** Schweikart; **Associate Professors** Church, Filipek, Haser; **Assistant Professor** Cote, Margarida, Weiss  
  
Students must consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required in **every** course.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| ACCT 202 | Principles of Accounting II: Managerial | 3 | F, Sp, Su |
| ACCT 310 | Accounting Systems and Concepts | 3 | F, Sp |
| ACCT 311W | External Reporting I | 3 | F, Sp |
| ACCT 312W | External Reporting II | 3 | F, Sp |
| ACCT 321 | Cost Management I | 3 | F, Sp, Su (as needed) |
| ACCT 331 | Federal Income Taxation | 3 | F, Sp |
| ACCT 441 | Auditing | 3 | F, Sp |
| ACCT 443 | Business Law | 3 | F, Sp |
| ACCT 461W | Seminar in Accounting Theory and Practice | 3 | F, Sp |
| CIS 252 | Introduction to Information Systems | 4 | F, Sp, Su |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 351 | Fraud Examination | 3 | F |
| ACCT 353 | Accounting for Governmental and Not-for-Profit Organizations | 3 | Sp |
| ACCT 422 | Cost Management II | 3 | Sp |
| ACCT 432 | Advanced Studies in Taxation | 3 | F |
| ACCT 451 | Advanced Financial Accounting | 3 | F, Sp |
| CIS 351 | Advanced Office Applications for Business | 4 | As needed |
| FIN 432 | Investments | 4 | F, Sp |
| MGT 348W | Operations Management | 4 | F, Sp, Su |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

Note: MATH 177: Fulfills the Mathematics category of General Education.

Economics B.A.

**Department of Economics and Finance**  
  
**Department Chair:** Alema Karim  
  
E**conomics Program Faculty: Professor** Blais; **Associate Professors** Basu, Karim, Tashiro  
  
Students must consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required for **every** course.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| ECON 314 | Intermediate Microeconomic Theory and Applications | 4 | F |
| ECON 315 | Intermediate Macroeconomic Theory and Analysis | 4 | Sp |
| ECON 449W | Introduction to Econometrics | 4 | F, Sp |
|  |  |  |  |
| ECON 462W | Seminar in Economic Research | 4 | Sp |
|  | -Or- |  |  |
| ECON 492 | Independent Study II | 4 | As needed |

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 331 | Topics in Global Economics | 4 | Annually (even years) |
| ECON 335 | Economics of Race and Gender | 4 | Annually (even years) |
| ECON 337 | Economics of Climate Change and Sustainability | 4 | Annually (odd years) |

THREE COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 390 | Directed Study | 4 | As needed |
| ECON 421 | International Economics | 4 | As needed |
| ECON 422 | Economics of Developing Countries | 4 | As needed |
| ECON 431 | Labor Economics | 4 | As needed |
| ECON 433 | Economics of Government | 4 | As needed |
| ECON 435 | Urban Economics | 4 | As needed |
| ECON 436 | Industrial Organization and Market Structure | 4 | As needed |
| ECON 437 | Environmental Economics | 4 | As needed |
| ECON 438 | History of Economic Thought | 4 | As needed |
| ECON 490 | Independent Study in Economics | 4 | As needed |
| ECON 491 | Independent Study I | 4 | As needed |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

Note: MATH 177: Fulfills the Mathematics category of General Education.

Note: MATH 248: Fulfills the Advanced Quantitative Scientific Reasoning category of General Education.

Total Credit Hours: 57

Economics Minor

**Department of Economics and Finance**  
  
**Department Chair:** Alema Karim  
  
**Economics Program Faculty: Professor** Blais; **Associate Professors** Basu, Karim, Tashiro  
  
Students must consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required for **every** course.

Course Requirements

The minor in economics consists of a minimum of 22 credit hours (six courses), as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
|  |  |  |  |
| ECON 314 | Intermediate Microeconomic Theory and Applications | 4 | F |
|  | -Or- |  |  |
| ECON 315 | Intermediate Macroeconomic Theory and Analysis | 4 | Sp |
|  |  |  |  |
| ECON 331 | Topics in Global Economics | 4 | Annually (even years) |
|  | -Or- |  |  |
| ECON 335 | Economics of Race and Gender | 4 | Annually (even years) |
|  | -Or- |  |  |
| ECON 337 | Economics of Climate Change and Sustainability | 4 | Annually (odd years) |

AND ONE ADDITIONAL course in economics at the 400-level.

Total Credit Hours: 22

Finance B.S.

**Department of Economics and Finance**  
  
**Department Chair:** Alema Karim  
  
**Finance Program Faculty: Professor** Kazemi; **Associate Professor** Aydogdu; **Assistant Professor** Saatcioglu  
  
Students **must** consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required in **every** course.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
| FIN 423W | Financial Markets and Institutions | 4 | F, Sp |
| FIN 431 | Advanced Corporate Finance | 4 | F, Sp |
| FIN 432 | Investments | 4 | F, Sp |
| FIN 434 | International Financial Management | 4 | F, Sp |
| FIN 435 | Financial Statement Analysis | 4 | F, Sp |
|  |  |  |  |
| FIN 461W | Seminar in Finance | 4 | F, Sp |
|  | -Or- |  |  |
| FIN 492 | Independent Study II | 4 | As needed |

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 314 | Intermediate Microeconomic Theory and Applications | 4 | F |
| ECON 315 | Intermediate Macroeconomic Theory and Analysis | 4 | Sp |
| ECON 449W | Introduction to Econometrics | 4 | F, Sp |

THREE COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| FIN 436 | Fixed Income Analysis | 4 | As needed |
| FIN 441 | Financial Derivatives and Risk Management | 4 | As needed |
| FIN 447 | Financial Modeling | 4 | As needed |
| FIN 463W | Seminar in Portfolio Management | 4 | As needed |
| FIN 491 | Independent Study I | 4 | As needed |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| CIS 252 | Introduction to Information Systems | 4 | F, Sp, Su |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

Note: MATH 177: Fulfills the Mathematics category of General Education.

Note: MATH 248: Fulfills the Advanced Quantitative Scientific Reasoning category of General Education.

Total Credit Hours: 77

Health Care Administration B.S.

**Director:** Marianne Raimondo  
  
**Health Care Administration Program Faculty: Assistant Professors** Raimondo, Connolly, Rampa

B.S. in Health Care Administration

The B.S. in Health Care Administration (HCA) provides baccalaureate-level education and training for students considering careers in the health care industry. The program is specifically targeted for those pursuing supervisory and entry-level management positions and/or preparation for graduate education. The Health Care Administration program focuses on the organization, financing and management of health care organizations and the delivery of health care services in the United States.  
  
Students **must** consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required in **every** course.  
  
Note: HCA 491: Independent Study I and HCA 492: Independent Study II are available for those seeking departmental honors, with consent of program director and dean.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| CIS 252 | Introduction to Information Systems | 4 | F, Sp, Su |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
|  |  |  |  |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
|  | -Or- |  |  |
| HCA 330 | Health Care Finance | 3 | Annually |
|  |  |  |  |
| HCA 201W | Introduction to Health Care Systems | 3 | F, Sp, Su |
| HCA 302 | Health Care Organizations | 3 | F, Sp |
| HCA 303W | Health Policy and Contemporary Issues | 3 | F, Sp |
| HCA 355 | Quality Management/Improvement in Health Care | 3 | F, Sp |
| HCA 401W/HCA 501 | Ethical and Legal Issues in Health Care Management | 3 | F, Sp, Su |
| HCA 461W | Seminar in Strategic Health Care Management | 3 | As needed |
| HCA 467 | Internship in Health Care Administration | 4 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MGT 320 | Human Resource Management | 4 | F, Sp, Su |
| MGT 322 | Organizational Behavior | 4 | F, Sp, Su |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |

Note: With permission of program director, HCA 490: Directed Study may be substituted for any 300/400 level HCA course.  
Note: Please note that HCA 201, HCA 302, HCA 303 and HCA 401 were previously offered as NURS 201, NURS 302, NURS 303 and NURS 401, and these courses are equivalent to the HCA courses.

THREE COURSES from

(It is recommended that the three courses be taken from the same category, but courses may be selected from multiple categories)

Gerontology

|  |  |  |  |
| --- | --- | --- | --- |
| GRTL 314 | Health and Aging | 4 | F, Sp, Su |
|  | -Or- |  |  |
| NURS 314 | Health and Aging | 4 | F, Sp, Su |
|  |  |  |  |
| HCA 403 | Long-Term Care Administration | 3 | Annually |
| HCA 404 | Long-Term Care Laws and Regulations | 2 | Annually |
| SOC 217 | Sociology of Aging | 4 | F, Sp, Su |
| SOC 320 | Aging and the Law | 3 | Annually |

Note: SOC 217: Fulfills the Social and Behavioral Sciences category of General Education.

Human Resource Management

|  |  |  |  |
| --- | --- | --- | --- |
| MGT 423 | Compensation and Benefits Administration | 4 | F |
| MGT 425 | Recruitment and Selection | 4 | F |
| MGT 428 | Human Resource Development | 4 | Sp |
| MGT 430W | Strategic Human Resource Management | 4 | Sp |

Informatics

|  |  |  |  |
| --- | --- | --- | --- |
| CIS 440 | Issues in Computer Security | 4 | F, Sp |
| CIS 455 | Database Programming | 4 | F, Sp |
| HCA 402 | Health Care Informatics | 3 | As needed |

Management Foundations

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 202 | Principles of Accounting II: Managerial | 3 | F, Sp, Su |
| MGT 349 | Service Operations Management | 4 | F |
| MKT 334 | Consumer Behavior | 4 | F, Sp |
| POL 301W | Foundations of Public Administration | 4 | F |

Wellness

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 309 | Medical Anthropology | 4 | Alternate years |
| HPE 406 | Health Program Planning and Development | 3 | Sp or as needed |
| PSYC 424 | Health Psychology | 4 | Annually |
| SOC 314 | The Sociology of Health and Illness | 4 | Annually |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 103 | Human Biology | 3 | F, Sp, Su |
|  | -Or- |  |  |
| BIOL 108 | Basic Principles of Biology | 4 | F, Sp, Su |
|  |  |  |  |
| COMM 230 | Interpersonal Communication | 4 | F |
| ENGL 230W | Writing for Professional Settings | 4 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |

Health Care Administration Minor

**Director:** Marianne Raimondo  
  
Students **must** consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required in **every** course.  
  
Note: HCA 491: Independent Study I and HCA 492: Independent Study II are available for those seeking departmental honors, with consent of program director and dean.

Course Requirements

The minor in health care administration consists of a minimum of 21 credit hours (seven courses), as follows:

|  |  |  |  |
| --- | --- | --- | --- |
| HCA 201W | Introduction to Health Care Systems | 3 | F, Sp, Su |
| HCA 302 | Health Care Organizations | 3 | F, Sp |
| HCA 401W/HCA 501 | Ethical and Legal Issues in Health Care Management | 3 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MGT 320 | Human Resource Management | 4 | F, Sp, Su |
| MGT 322 | Organizational Behavior | 4 | F, Sp, Su |

AND ONE ADDITIONAL course from the electives in the health care administration major.

Total Credit Hours: 24

Courses taken to meet the requirements of other majors or minors cannot be used to simultaneously fulfill the requirements of the health care administration minor (termed double counting). In these instances, please consult the health care administration director to arrange for appropriate substitute course(s).

Management B.S.

**Department of Management and Marketing**  
  
**Department Chair:** Constance Milbourne  
  
**Management Program Faculty: Professors** Jacques, Mello; **Associate Professors** Casey, DeSimone, Farinella, Sahba, Urda, Wu; **Assistant Professor** Feeney  
  
Students must consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required in **every** course.  
  
Note: MGT 491 Independent Study I and MGT 492 Independent Study II are available for those seeking departmental honors, with consent of instructor, department chair and dean.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| ACCT 202 | Principles of Accounting II: Managerial | 3 | F, Sp, Su |
| CIS 252 | Introduction to Information Systems | 4 | F, Sp, Su |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MGT 249 | Business Statistics II | 4 | F, Sp, Su |
| MGT 322 | Organizational Behavior | 4 | F, Sp, Su |
| MGT 341W | Business, Government, and Society | 4 | F, Sp, Su |
| MGT 348 | Operations Management | 4 | F, Sp, Su |
| MGT 461W | Seminar in Strategic Management | 4 | F, Sp, Su |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

Note: MATH 177 fulfills the Mathematics category of General Education and MATH 248 fulfills the Advanced Quantitative Scientific Reasoning category of General Education.

Note: If CIS 251 has been taken, this satisfies the CIS 252 requirement.

Concentrations

CHOOSE concentration A, B, or C below

A. General Management

|  |  |  |  |
| --- | --- | --- | --- |
| MGT 306 | Management of a Diverse Workforce | 4 | Sp |
| MGT 320 | Human Resource Management | 4 | F, Sp, Su |
|  | THREE ADDITIONAL FOUR CREDIT COURSES in management at the 300-level or above | 12 |  |

Subtotal: 76

B. Human Resource Management

|  |  |  |  |
| --- | --- | --- | --- |
| MGT 423 | Compensation and Benefits Administration | 4 | F |
| MGT 425 | Recruitment and Selection | 4 | F |
| MGT 428 | Human Resource Development | 4 | Sp |
| MGT 430W | Strategic Human Resource Management | 4 | Sp |

Subtotal: 76

C. Operations Management

|  |  |  |  |
| --- | --- | --- | --- |
| MGT 347 | Supply Chain Management | 4 | Annually |
| MGT 355 | Quality Assurance | 4 | Sp |
| MGT 455 | Global Logistics and Enterprise Management | 4 | As needed |

MGT 347: (Or MKT 347: Supply Chain Management)

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 449W | Introduction to Econometrics | 4 | F, Sp |
| MGT 331 | Occupational and Environmental Safety Management | 4 | F |
| MGT 335 | Process Management | 4 | Sp |
| MGT 349 | Service Operations Management | 4 | F |
| MGT 359 | Current Topics in Service Operations Management | 4 | As needed |
| MGT 465 | Organizational Theory | 4 | F |
| MGT 467 | Directed Internship | 4 | F, Sp, Su |
| MGT 490 | Directed Study | 4 | As needed |
| MGT 491 | Independent Study I | 4 | As needed |
| MGT 492 | Independent Study II | 4 | As needed |
| MKT 310 | Product Design and Development | 4 | As needed |
| MKT 322 | Services Marketing | 4 | As needed |

Subtotal: 76

Marketing B.S.

**Department of Management and Marketing**  
  
**Department Chair:** Constance Milbourne  
  
**Marketing Program Faculty: Professor** Ramocki; **Associate Professors** Blanchette**,** Milbourne  
  
Students **must** consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required in **every** course.  
  
Note: MKT 491 Independent Study I and MKT 492 Independent Study II are available for those seeking departmental honors, with consent of instructor, department chair and dean.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ACCT 201 | Principles of Accounting I: Financial | 3 | F, Sp, Su |
| ACCT 202 | Principles of Accounting II: Managerial | 3 | F, Sp, Su |
| CIS 252 | Introduction to Information Systems | 4 | F, Sp, Su |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| ECON 215 | Principles of Macroeconomics | 3 | F, Sp, Su |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MGT 249 | Business Statistics II | 4 | F, Sp, Su |
| MGT 322 | Organizational Behavior | 4 | F, Sp, Su |
| MGT 341W | Business, Government, and Society | 4 | F, Sp, Su |
| MGT 348W | Operations Management | 4 | F, Sp, Su |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |
| MKT 215 | Marketing Creativity | 4 | F, Sp |
| MKT 333 | Market Research | 4 | F, Sp |
| MKT 334 | Consumer Behavior | 4 | F, Sp |
| MKT 462W | Strategic Marketing Management | 4 | As needed |
|  | TWO ADDITIONAL COURSES in marketing at the 300-level or above. | 8 |  |

Cognates

|  |  |  |  |
| --- | --- | --- | --- |
| MATH 177 | Quantitative Business Analysis I | 4 | F, Sp, Su |
| MATH 248 | Business Statistics I | 4 | F, Sp, Su |

Note: MATH 177 fulfills the Mathematics category of General Education and MATH 248 fulfills the Advanced Quantitative Scientific Reasoning category of General Education.

Note: If CIS 251 has been taken, this satisfies the CIS 252 requirement..

Total Credit Hours: 76

Marketing Minor

**Department of Management and Marketing**  
  
**Department Chair:** Constance Milbourne  
  
**Marketing Program Faculty: Professor** Ramocki; **Associate Professors** Blanchette, Milbourne  
  
Students **must** consult with their assigned advisor before they will be able to register for courses. A graded writing assignment is required in **every** course.

Course Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| ECON 200 | Introduction to Economics | 4 | F, Sp, Su |
| MGT 201W | Foundations of Management | 4 | F, Sp, Su |
| MKT 201W | Introduction to Marketing | 4 | F, Sp, Su |
| MKT 215W | Marketing Creativity | 4 | F, Sp |
| MKT 334W | Consumer Behavior | 4 | F, Sp |

AND TWO ADDITIONAL 300-level marketing courses.

Note: ECON 200: (or both ECON 214 and ECON 215)

Total Credit Hours: 28-30

Social Work Programs

B.S.W. Program

Course Requirements

First through Third Semesters

|  |  |  |  |
| --- | --- | --- | --- |
| POL 202 | American Government | 4 | F, Sp, Su |
| PSYC 215 | Social Psychology | 4 | F, Sp, Su |
| PSYC 230 | Human Development | 4 | F, Sp, Su |
| SWRK 200 | Introduction to Social Work | 4 | F, Sp, Su |
| SWRK 306 | Biopsychosocial Perspectives for Social Workers | 2 | F, Sp, Su |
|  | ONE COURSE in sociology at the 200-level | 4 |  |

Third through Fifth Semesters

|  |  |  |  |
| --- | --- | --- | --- |
| SWRK 324 | Diversity and Oppression I | 4 | F, Sp, Su |
| SWRK 325 | Diversity and Oppression II | 4 | F, Sp, Su |

Fifth Semester

|  |  |  |  |
| --- | --- | --- | --- |
| SWRK 326W | Generalist Social Work Practice | 4 | F, Sp |

Fifth or Sixth Semester

|  |  |  |  |
| --- | --- | --- | --- |
| SWRK 301 | Policy Analysis and Practice | 4 | F, Sp, Su |
| SWRK 302W | Social Work Research Methods I | 4 | F, Sp, Su |

Sixth Semester

|  |  |  |  |
| --- | --- | --- | --- |
| SWRK 303 | Social Work Research Methods II | 4 | F, Sp, Su |
| SWRK 327 | Group and Community Practice | 4 | Sp, Su |
| SWRK 338 | Introduction to Fieldwork | 2 | Sp, Su |

Note: SWRK 327 and SWRK 338 can also be taken during the summer.

Summer Semester

|  |  |  |  |
| --- | --- | --- | --- |
| SWRK 445 | Summer Extended Fieldwork | 4 | Su |

Note: SWRK 445: Optional

Seventh Semester

|  |  |  |  |
| --- | --- | --- | --- |
| SWRK 426 | Clinical Social Work: Theories/Models | 4 | F |
|  |  |  |  |
| SWRK 436 | Fieldwork | 4-7 | F |
|  | -Or- |  |  |
| SWRK 446 | Fall Extended Fieldwork | 3 | F |
|  |  |  |  |
| SWRK 463 | Fieldwork Seminar | 3 | F |

Eighth Semester

|  |  |  |  |
| --- | --- | --- | --- |
| SWRK 437 | Advanced Fieldwork | 4-7 | Sp |
|  | -Or- |  |  |
| SWRK 447 | Spring Extended Fieldwork | 3 | Sp |
|  |  |  |  |
| SWRK 464 | Senior Seminar in Social Work | 3 | Sp |

Subtotal: 68-80

Course descriptions

Chemistry

CHEM 106 - General, Organic, and Biological Chemistry II (4)

Topics include alcohols, carbonyl compounds, amines, amides, carbohydrates, lipids, proteins, enzymes, bioenergetics, catabolism, biosynthesis, nucleic acids, hormones, and neurotransmitters. Lecture and laboratory. 6 contact hours.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: CHEM 105 with a minimum grade of C-.

Offered: Fall, Spring, Summer.

CHEM 205W - Organic Chemistry I (4)

Topics include structure, stereochemistry, nomenclature, and chemistry of hydrocarbons and alkyl halides, spectroscopy, reaction mechanisms, and computational chemistry. Lecture and laboratory. 7 contact hours.

Prerequisite: CHEM 104 with a minimum grade of C-.

Offered: Fall, Summer.

CHEM 206W - Organic Chemistry II (4)

Topics include reactions of functional groups, synthesis and mechanism, spectroscopic identification, and topics in biochemistry and computational chemistry. Lecture and laboratory. 7 contact hours.

Prerequisite: CHEM 205W.

Offered: Spring, Summer.

CHEM 310 - Biochemistry (4)

Topics include biological macromolecule structure, function and interactions, catalysis and kinetics of biochemistry, acid-base equilibrium in biological systems, and thermodynamics of binding and recognition. Lecture.

Prerequisite: CHEM 206W.

Offered: Fall.

CHEM 403 - Inorganic Chemistry I (3)

Topics include electronic structure of atoms, molecular symmetry, bond theories, acid-base chemistry, solids, redox and coordination chemistry.

Prerequisite: CHEM 206W.

Offered: Fall.

CHEM 404W - Analytical Chemistry (4)

Topics include the principles and applications of volumetric, gravimetric, and selected instrumental methods of analysis, including potentiometric and spectroscopic methods. Lecture and laboratory. 6 contact hours.

Prerequisite: CHEM 104.

Offered: Spring (even years).

CHEM 405 - Physical Chemistry I (3)

Through rigorous quantitative approaches, properties of gases, kinetic molecular theory, thermodynamics, statistical mechanics, and chemical and phase equilibrium are presented. Differential and integral calculus are used extensively. Lecture.

Prerequisite: CHEM 104, MATH 213, and PHYS 102.

Offered: Fall.

CHEM 406 - Physical Chemistry II (3)

Through rigorous quantitative approaches, quantum mechanics, atomic structure, atomic spectra, chemical bonding, molecular spectra, and chemical kinetics are presented. Differential and integral calculus are used extensively. Lecture.

Prerequisite: CHEM 104, MATH 314, and PHYS 102.

Offered: Spring.

CHEM 407W - Physical Chemistry Laboratory I (1)

Experiments involving topics covered in CHEM 405 are performed. The experimental methods of physical chemistry are developed. Error analysis, statistical methods, and computer applications are emphasized. 3 contact hours.

Prerequisite: Prerequisite or corequisite: CHEM 405.

Offered: Fall.

CHEM 408 - Physical Chemistry Laboratory II (1)

This is a continuation of CHEM 407W. Experiments involving chemical kinetics, molecular spectroscopy, photochemistry, computational chemistry, and other topics covered in CHEM 406 are performed. 3 contact hours.

Prerequisite: Prerequisite or corequisite: CHEM 406.

Offered: Spring.

CHEM 412 - Inorganic Chemistry II (2)

Topics include molecular orbital theory, symmetry, spectral and magnetic properties of coordination compounds, and selected main group and organometallic chemistry.

Prerequisite: CHEM 403.

Offered: Spring.

CHEM 413 - Inorganic Chemistry Laboratory (1)

Experiments illustrate main group periodicity, coordination and organometallic compounds' properties, and techniques, including the use of inert atmospheres and microwave acceleration of rates. 3 contact hours.

Prerequisite: Prior or concurrent enrollment in CHEM 406 and CHEM 412.

Offered: Spring.

CHEM 414 - Instrumental Methods of Analysis (4)

Emphasis is on the areas of spectroscopy, electrochemistry, chromatography, and other identification and separation techniques using instrumental methods. Lecture and laboratory. 6 contact hours.

Prerequisite: CHEM 404W or CHEM 416W.

Offered: Spring (odd years).

CHEM 416W - Environmental Analytical Chemistry (4)

Topics include the principles and applications of volumetric, gravimetric, and selected instrumental methods of analysis, including potentiometric and spectroscopic methods, with emphasis on environmental applications. Lecture and laboratory. 6 contact hours.

Prerequisite: CHEM 104.

Offered: Spring (odd years).

CHEM 418 - Marine Environmental Chemistry (4)

Examines biogeochemical cycling of material in the environment, including major and trace element distributions in seawater, environmental chemical equilibria, nutrient distributions and role of ocean in global climate. Students cannot receive credit for both CHEM 417 and CHEM 418.

Prerequisite: CHEM 206.

Offered: Fall (even years).

CHEM 419 - Biochemistry Mechanisms (3)

Mechanistic approaches to metabolic processes are discussed, including but not limited to glycolysis, citric acid cycle, oxidative phosphorylation and photosynthesis. Lecture.

Prerequisite: CHEM 310 or consent of department chair.

Offered: Spring.

CHEM 420 - Biochemistry of Proteins and Nucleic Acids (3)

The physical and chemical properties and metabolism of proteins and nucleic acids are discussed. Lecture.

Prerequisite: CHEM 206W and either BIOL 320 or CHEM 310.

Offered: Fall, Spring (odd years).

CHEM 421 - Biochemistry of Energy Metabolism (3)

The physical and chemical properties of carbohydrates and lipids are presented. Students cannot receive credit for both CHEM 421 and BIOL 421. Lecture.

Prerequisite: CHEM 206W and either BIOL 320 or CHEM 310.

Offered: As needed.

CHEM 422 - Biochemistry Laboratory (3)

Topics include basic laboratory concepts, including notebook documentation, ethics, and data interpretation, as well as experiments involving DNA cloning, protein purification, spectroscopic analysis, and functional assays. Laboratory.

Prerequisite: CHEM 310 or consent of department chair.

Offered: Spring.

CHEM 425 - Advanced Organic Chemistry (4)

Synthesis, structure determination, and mechanism are discussed in the context of natural product and bio-organic chemistry. Spectroscopic and computational methods are emphasized. Lecture and laboratory. 6 contact hours.

Prerequisite: CHEM 206W.

Offered: Fall (odd years).

CHEM 435 - Pharmacology and Toxicology (3)

The relationship between the chemical structure and biological activity of organic compounds is studied. Historical and current drug development and use are emphasized in relation to the biochemistry of disease.

Prerequisite: CHEM 205W and CHEM 206W, or consent of department chair.

Offered: As needed.

CHEM 467 - Honors Colloquium in Chemistry (05)

Advanced level topics in science are examined through participation in department colloquia with outside speakers and through a series of seminars. This course may be repeated for credit with a change in content. Graded S, U.

Prerequisite: CHEM 206W or consent of department chair.

Offered: Annually.

Elementary Education

ELED 202 - Teaching All Learners: Foundations and Strategies (4)

Teaching skills and strategies effective for diverse learners are presented and practiced; principles and practices addressing intellectual, physical, behavioral and cultural differences among children are discussed. Assigned practicum required. Students cannot receive credit for both ELED 202 or ELED 202W and SPED 202 or SPED 202W. This is a Writing in the Discipline (WID) course.

Prerequisite: FNED 101 and FNED 246, with a minimum grade of B-, and admission into the elementary and special education B.S. programs, or consent of department chair.

Offered: Fall.

ELED 222 - Foundations of Literacy I: Grades 1-3 (3)

In this course, students will learn and reflect critically on effective high quality core literacy curriculum for grades K-3. Students design standards-aligned literacy instruction and reading assessments.

Prerequisite: ELED 202 or ELED 202W with a minimum grade of B-; admission to the Elementary Education program or consent of the Department Chair.

Offered: Fall, Spring.

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ELED 435 - Language Arts and ELL Instruction (3)

The role of language arts in elementary schools and the development of teaching/learning strategies to include all children are examined, including English language learners and special populations. Laboratory/conference required. 5 contact hours.

Prerequisite: ELED 300, with minimum grade of B-; admission to the elementary education teacher preparation program; or consent of department chair. Concurrent with ELED 422.

Offered: Fall, Spring.

ELED 436 - Teaching Social Studies to Diverse Learners (3)

The role of social studies in elementary schools and the development of teaching/learning strategies are examined, including becoming culturally conscientious and responsive to diverse learners. Laboratory/conference required. 5 contact hours.

Prerequisite: ELED 202 or ELED 202W or SPED 202 or SPED 202W, with a minimum grade of B-; ELED 222 and ELED 324, each with a minimum grade of B-; GEOG 200 (and HIST 107) or POL 202 (and any HIST General Education) with a minimum grade of C; and admission to the elementary education teacher preparation program or consent of the department chair.

Offered: Fall, Spring.

ELED 437 - Elementary School Science and Health Education (3)

The role of science and health in elementary schools and the development of teaching/learning strategies are examined, including teaching science and health to special populations. Laboratory/conference required. 5 contact hours.

Prerequisite: BIOL 100 and PSCI 204, each with a minimum grade of C, except for students electing a content major in general science; ELED 202 or ELED 202W or SPED 202 or SPED 202W; ELED 222 and ELED 324.

Offered: Fall, Spring.

ELED 438 - Teaching Elementary School Mathematics (3)

The role of mathematics in elementary schools and the development of teaching/learning strategies are examined, including teaching mathematics to special populations. Laboratory/conference required. 5 contact hours.

Prerequisite: ELED 202 or ELED 202W or SPED 202 or SPED 202W, with a minimum grade of B-; ELED 222 and ELED 324, each with a minimum grade of B-; MATH 143 and MATH 144 each with a minimum grade of C, and admission to the elementary education teacher preparation program or consent of the department chair.

Offered: Fall, Spring.

English

ENGL 220W - Introduction to Creative Writing (4)

Basic techniques of writing fiction and poetry are introduced. Emphasis is on fundamental methods and forms basic to contemporary fiction and poetry. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100, FYW100H or FYW 100P or completion of College Writing Requirement.

Offered: Fall, Spring.

ENGL 222W - Introduction to Professional Writing (4)

Students are introduced to core concepts of writing and rhetoric as they apply to professional writing; students will lead investigations into career opportunities for professional writers. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100, FYW 100H or FYW 100P, or completion of College Writing Requirement.

Offered: Annually

ENGL 230W - Workplace Writing (4)

Students explore the social and rhetorical dimensions of professional communication. Emphasis is on the rhetorical situation. Genres may include business letters, memos, proposals, and/or reports. This is a Writing in the Discipline (WID) course.

Prerequisite: FYW 100 or FYW 100P or completion of College Writing Requirement.

Offered: Fall, Spring, Summer.

French

FREN 115 - Literature of the French-Speaking World (4)

Students are introduced to techniques of literary analysis through readings from France and the Francophone World as they continue to develop speaking, reading, and writing skills in French.

General Education Category: Literature.

Prerequisite: FREN 113 or equivalent, or consent of department chair.

Offered: Fall, Spring.

FREN 201W - Advanced French: Conversation and Composition (4)

Through contextualized activities, idiomatic spoken French and the structures required for written communication are studied. Modern France is discussed. Online work is required. This is a Writing in the Discipline (WID) course.

Prerequisite: FREN 114 or equivalent, or a score of 600 or above on the CEEB Achievement Test in French, or consent of department chair.

Offered: Fall.

FREN 202W - Advanced French: Composition and Conversation (4)

Writing skills, style, and content are developed. Current issues in France and the Francophone world are discussed. Online work is required. This is a Writing in the Discipline (WID) course.

Prerequisite: FREN 201 or FREN 201W, or consent of department chair.

Offered: Spring.

FREN 313 - Modern France and the Francophone World (4)

The major political, social, cultural, and economic forces at work in France today are examined, as well as France's role in the European Union and the Francophone world.

Prerequisite: FREN 202 or FREN 202W, or consent of department chair.

Offered: Alternate years.

FREN 323 - Survey of French Literature from the Middle Ages to 1789 (4)

Major writers and literary movements are studied in their historical and social context. Course activities include explications de texte, short papers, and discussion in French.

Prerequisite: Prior or concurrent enrollment in FREN 202 or FREN 202W, or consent of department chair.

Offered: Alternate years.

FREN 324 - Survey of French Literature from 1789 to the Present (4)

This is a continuation of FREN 323. Major French and Francophone writers are studied and the technique of close reading is presented. This course is conducted in French.

Prerequisite: Prior or concurrent enrollment in FREN 202 or FREN 202W, or consent of the department chair.

Offered: Alternate years.

FREN 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

FREN 416 - Studies in the Seventeenth Century (3)

Representative works of the seventeenth century are studied against the historical and social background of the period.

Prerequisite: FREN 323 and FREN 324, or consent of department chair.

Offered: As needed.

FREN 417 - Studies in the Eighteenth Century (3)

Representative works of the eighteenth century are studied against the historical and social background of the period.

Prerequisite: FREN 323 and FREN 324, or consent of department chair.

Offered: As needed.

FREN 418 - Studies in the Nineteenth Century (3)

Representative works of the nineteenth century are studied against the historical and social background of the period.

Prerequisite: FREN 323 and FREN 324, or consent of department chair.

Offered: As needed.

FREN 419 - Studies in the Twentieth Century (3)

Representative works of the twentieth century are studied against the historical and social background of the period.

Prerequisite: FREN 323 and FREN 324, or consent of department chair.

Offered: As needed.

FREN 420W - Applied Grammar (3)

The practical application of grammar in both oral and written forms is exercised. Included is an intensive study of construction and idiomatic expressions. This is a Writing in the Discipline (WID) course.

Prerequisite: FREN 202 or FREN 202W, or equivalent.

Offered: Alternate years.

FREN 460W - Seminar in French (3)

This course involves individual and group study of a major author, movement, or period in French literature. A major paper is required. Topics are announced in advance. This course may be repeated for credit with a change in content. This is a Writing in the Discipline (WID) course.

Prerequisite: Open to seniors majoring in French.

Offered: Annually.

FREN 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty advisor.

Prerequisite: Consent of instructor, program director and dean, and admission to the French honors program.

Offered: As needed.

Geography

GEOG 100W - Introduction to Environmental Geography (4)

Focus is on the nature and extent of human modification of the earth's natural environments.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

GEOG 101 - Introduction to Geography (4)

Cultural and physical elements of geography are considered individually, in interrelationship, and as these elements are found in real patterns of political, cultural, and economic associations.

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring, Summer.

GEOG 200 - World Regional Geography (4)

The geographic elements of major world areas are assessed. Focus is on physical and cultural elements in a comparative context. This is a Writing in the Discipline (WID) course. (Formerly GEOG 400: Regional Geography.)

General Education Category: Social and Behavioral Sciences.

Offered: Fall, Spring.

GEOG 201 - Mapping Our Changing World (4)

Basic mapping theories, models, and techniques enable students to become knowledgeable, critical consumers of the geographic data that is promulgated by government, industry, and the popular media.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: Gen. Ed. Mathematics.

Offered: Fall, Spring.

GEOG 202 - Geographic Information Systems I (4)

Introductory concepts and techniques, with hands-on laboratory experience, enable students to produce their own GIS maps of human and environmental phenomena.

Offered: Spring.

# MGT - Management

MGT 100 - Introduction to Business (4)

Business concepts are introduced and the practices of management in both the business sector and nonprofit organizations. Topics focus on all of the management disciplines.

Offered: Fall, Spring.

MGT 201W - Foundations of Management (4)

Management concepts are explained, including planning, organizing, leading, and controlling. Students develop managerial communication skills by working with groups. This is a Writing in the Discipline (WID) course. (Formerly MGT 301)

Prerequisite: Completion of at least 45 college credits.

Offered: Fall, Spring, Summer.

MGT 249 - Business Statistics II (4)

A continuation of MATH 240 or MATH 248, emphasis is on applied statistics, both parametric and nonparametric. Students cannot receive credit for both MGT 249 and either MATH 241 or 445.

General Education Category: Advanced Quantitative/Scientific Reasoning

Prerequisite: MATH 240 or 248.

Offered: Fall, Spring, Summer.

MGT 306 - Management of a Diverse Workforce (4)

Topics include contemporary paradigms, cultural issues, and rationales for managing a diverse workplace. Individual approaches, conflicts, and organizational responses are examined.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Spring.

MGT 310 - Small Business Management (4)

Management concepts are applied to small businesses and a business plan is developed.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Fall.

MGT 311 - Entrepreneurship and New Ventures (4)

Venture initiation, development, and capital are discussed. Emphasis is on decision making in an environment of market and venture uncertainty.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Spring.

MGT 320 - Human Resource Management (4)

This is an overview of the role of the general manager and human resource specialist.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Fall, Spring, Summer.

MGT 322W - Organizational Behavior (4)

Students investigate how and why certain events and behavioral processes occur in organizations. They also explore the ways in which a manager can influence those processes.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Fall, Spring, Summer.

MGT 329 - Organizational Theory and Design ()

Discussion focuses on why organizations behave the way they do (theory) and the elements managers use to build them (design).

Prerequisite: MGT 201W and 60 credits

Offered: Fall, Spring

MGT 331 - Occupational and Environmental Safety Management (4)

Occupational safety and health and environmental problems are discussed from technical, social, managerial, and legal perspectives.

Prerequisite: Completion of at least 45 college credits.

Offered: Fall.

MGT 333 - Negotiation and Conflict Resolution (4)

Students are introduced to concepts in negotiation and organizational conflict resolution. Topics include negotiation strategies, conflict resolution approaches, communication (face to face, virtual, verbal/non-verbal), emotion/perception (psychological intangibles) and team negotiations.

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and 60 credits.

Offered: As needed.

MGT 335 - Process Management (4)

The effectiveness and efficiency of business process design, implementation, and management are analyzed in manufacturing and service firms.

Prerequisite: MGT 249 and MGT 201 or MGT 201W or MGT 301.

Offered: Spring.

MGT 341W - Business, Government, and Society (4)

Focus is on dynamic social, legal, political, economic, and ecological issues that require socially responsible behavior on the part of individuals and organizations.

Prerequisite: Completion of at least 60 college credits.

Offered: Fall, Spring, Summer.

MGT 345 - Managing in the World’s Regions (4)

Students study issues relevant to managers of organizations in global settings and processes unique to those businesses. Focus on managerial challenges related to international cultures, markets, economics and governments. This is a Writing in the Discipline (WID) course. (Formerly International Business)

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: Annually.

MGT 347 - Supply Chain Management (4)

Emphasis is on the design and management of activities along the supply chain, from purchasing and materials management to distribution and transportation systems. Students cannot receive credit for both MGT 347 and MKT 347.

Prerequisite: MGT 201 or MGT 201W or MGT 301 and MKT 201 or MKT 201W or MKT 301.

Offered: Annually.

MGT 348W - Operations Management (4)

Techniques for the effective management of operations at both the strategic and operating levels are introduced. This is a Writing in the Discipline (WID) course.

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and MATH 240 or MATH 248.

Offered: Fall, Spring, Summer.

MGT 349 - Service Operations Management (4)

Students develop, analyze, and implement strategies for a wide range of service organizations. Emphasis is on the particular challenges for managers in service organizations.

Prerequisite: MGT 201 or MGT 201W, or MGT 301

Offered: Fall.

MGT 355 - Quality Assurance (4)

The means and advantages of establishing an effective quality system in manufacturing and service firms are discussed. Students cannot receive credit for both MGT 355 and HCA 355.

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and MATH 240 or MATH 248.

Offered: Spring.

MGT 359 - Current Topics in Service Operations Management (4)

Current trends in the management of service organizations are explored. Focus is on the design, implementation, and management of strategies specific to services, such as e-commerce, entrepreneurship, and technology management.

Prerequisite: MGT 201 or MGT 201W, or MGT 301.

Offered: As needed.

MGT 423 - Compensation and Benefits Administration (4)

The process of designing and managing a cost-effective, equitable, and legally acceptable total compensation package is examined. Topics include economic, social, and legal determinants of base pay; and incentives and benefits.

Prerequisite: MGT 320.

Offered: Fall.

MGT 425 - Recruitment and Selection (4)

Concepts and methods involved in designing and managing the recruitment and selection functions of management are examined.

Prerequisite: MGT 320.

Offered: Fall.

MGT 428 - Human Resource Development (4)

The concepts, programs, and practices that organizations use to train and develop its members are examined. Topics include learning, needs assessment, program design and implementation, evaluation, skills training, and coaching.

Prerequisite: MGT 320.

Offered: Spring.

MGT 430 - Strategic Human Resource Management (4)

Seminar focusing on timely challenges organizations face and the strategic role of human resource management in addressing them.

Prerequisite: MGT 320 and any two of MGT 423, MGT 425, MGT 428.

Offered: Spring.

MGT 455 - Global Logistics and Enterprise Management (4)

Emphasis is on the strategic integration of operations across functional areas to achieve sustainable competitive advantage in manufacturing and service organizations.

Prerequisite: : MGT 348 or MGT 348W, or consent of the director of the Master of Science in Operations Management program.

Offered: As needed.

MGT 461 - Seminar in Strategic Management (4)

Focus is on the formulation and implementation of organizational strategies and policies. The case method is used in integrating material from other management and economics courses.

Prerequisite: MKT 201 or MKT 201W, or MKT 301, MGT 348 or MGT 348W, and FIN 301.

Offered: Fall, Spring, Summer.

MGT 465 - Organizational Theory (4)

Students focus on organization theory concepts, including inter-organizational processes, and economic, institutional and cultural contexts in which organizations operate. Seminar entails student-led presentations and discussions. (Formerly MGT 329 Organizational Theory and Design.)

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and 60 credits.

Offered: Fall.

MGT 467 - Directed Internship (4)

Students are assigned to a business or nonprofit organization and earn three credits for topical course work, a two-hour biweekly seminar, and 120 hours of organization work, supervised by a mentor. Graded S, U.

Prerequisite: MGT 201 or MGT 201W, or MGT 301, completion of at least 60 college credits, a major or minor in a School of Business program, and consent of internship director and appropriate faculty member.

Offered: Fall, Spring, Summer.

MGT 490 - Directed Study (4)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

# MKT - Marketing

MKT 201W - Introduction to Marketing (4)

This is an examination of the role of marketing in society, consumer behavior, product management, pricing, distribution and promotion. This is a Writing in the Discipline (WID) course. (Formerly MKT 301)

Prerequisite: Completion of at least 45 college credits.

Offered: Fall, Spring, Summer.

MKT 215W - Marketing Creativity (4)

Focusing on the theories and models that enable students to develop perspectives upon creativity and its potential impacts on organizational life. Effective management of creativity within marketing organizations is emphasized. This is a Writing in the Discipline (WID) course. (Formerly MKT 315).

Prerequisite: Completion of at least 30 college credits.

Offered: Fall, Spring.

MKT 310 - Product Design and Development (4)

The development process of new products, from idea generation to launch, is explored.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 322 - Services Marketing (4)

Focus is on the difference between service industries and manufacturing industries. Topics include the development of marketing strategies in service industries.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 323 - Digital Marketing (4)

Students are introduced to digital marketing strategy and techniques. Topics include the digital marketing funnel, web-based campaigns and current best practices in digital marketing.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 329 - Global Marketing (4)

Global issues that confront today's international marketers are addressed. Concepts relevant to all international marketers are presented, regardless of the extent of their international involvement.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: Fall, Spring.

MKT 333 - Market Research (4)

The role of marketing information as the basis for decision making is studied, including the cost and value of information, research design and instrumentation, data analysis, and forecasting. Problem-solving exercises are included.

Prerequisite: MGT 249 and MKT 201 or MKT 201W, or MKT 301.

Offered: Fall, Spring.

MKT 334W - Consumer Behavior (4)

The marketing environment, consumer behavior, and market segmentation is studied. Emphasis is on understanding the turbulent environment surrounding the marketing decision maker. This is a Writing in the Discipline (WID) course.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: Fall, Spring.

MKT 335 - Marketing Communications and Promotion (4)

Basic promotional tools available to the marketing manager are studied: advertising, sales promotion, personal selling, and publicity.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 337 - Retail Management (4)

Emphasis is on retail strategies and the managerial planning required to meet objectives.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: Fall.

MKT 338 - Advertising (4)

he key processes of modern advertising practice are introduced. Topics include production of effective advertising and media. Students cannot receive credit for both COMM 334 and MKT 338.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 340 - Personal Selling and Sales Management (4)

Focus is on personal selling, a subset of the promotional element of marketing strategy, which involves face-to-face relationships, personal influence, and complex communication processes.

Prerequisite: MKT 201 or MKT 201W, or MKT 301.

Offered: As needed.

MKT 347 - Supply Chain Management (4)

Emphasis is on design and management of activities along the supply chain, from purchasing and materials management to distribution and transportation systems. Students cannot receive credit for both MGT 347 and MKT 347.

Prerequisite: MGT 201 or MGT 201W, or MGT 301 and MKT 201 or MKT 201W, or MKT 301.

Offered: Annually.

MKT 462W - Strategic Marketing Management (4)

This seminar course integrates the marketing functions of product, price, channels, and promotion with the concepts of strategic planning. Emphasis is on the relevance of this integration to marketing. This is a Writing in the Discipline (WID) course.

Prerequisite: MKT 201 or MKT 201W, or MKT 301, and TWO from MKT 215 or MKT 315, MKT 333, or MKT 334.

Offered: As needed.

Music

MUS 204 - Sight Singing and Ear Training (1)

Students develop basic sight-singing and rhythm-reading techniques, using the movable "do" system. Included is melodic material based on pentatonic scales, major and minor scales, and triadic patterns. 2 contact hours.

Offered: Spring.

MUS 205W - Music History and Literature I (3)

Students become familiar with the first three of six eras of Western art music history (medieval, Renaissance, and baroque) and explore the scores, styles, genres, composers, and historical and cultural events. This is a Writing in the Discipline (WID) course.

Prerequisite: MUS 230 and MUS 232, or consent of instructor.

Offered: Fall.

MUS 206W - Music History and Literature II (3)

Students become familiar with the last three of six eras of Western art music history (classical, romantic, and modern) and explore the scores, styles, genres, composers, and historical and cultural events. This is a Writing in the Discipline (WID) course.

Prerequisite: MUS 230 and MUS 232, or consent of instructor.

Offered: Spring.

MUS 207 - Electronic Music (4)

This studio course is designed for students with little or no experience in electronic music. Students become familiar with the basic components of the electronic lab and create electronic compositions.

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MUS 308 - Fundamentals of Conducting (2)

Basic instrumental- and choral-conducting techniques and score reading are presented. Study includes practical experience with ensembles. 4 contact hours.

Prerequisite: MUS 205 or MUS 205W, MUS 206 or MUS 206W, and MUS 236.

Offered: Fall.

MUS 310 - Medieval and Renaissance Music (3)

Music literature from its ancient beginnings through the Middle Ages and the Renaissance is studied. Included are plainchant, polyphony, sacred and secular music, and problems in early notation.

Prerequisite: MUS 205 or MUS 205W and MUS 206 or MUS 206W, and either MUS 203 or MUS 230, or consent of instructor.

Offered: Spring (even years).

MUS 311 - Music of the Baroque (3)

Music literature from the last decade of the sixteenth century to the middle of the eighteenth century is presented. Included is the development of instrumental and vocal music, culminating in the music of J. S. Bach and Handel.

Prerequisite: MUS 205 or MUS 205W and MUS 206or MUS 206W, and either MUS 203 or MUS 230, or consent of instructor.

Offered: Fall (even years).

MUS 312 - Music of the Classical Era (3)

Music literature from the mid-eighteenth century to about 1825 is studied, including precedents in the rococo period. Representative works are analyzed.

Prerequisite: MUS 205 or MUS 205W and MUS 206 or MUS 206W, and either MUS 203 or MUS 230, or consent of instructor.

Offered: Spring (odd years).

MUS 313 - Music of the Romantic Period (3)

Music literature during the nineteenth century is studied, including the late romantic composers. Representative works in various forms are analyzed.

Prerequisite: MUS 205 or MUS 205W and MUS 206 or MUS 206W, and either MUS 203 or MUS 230, or consent of instructor.

Offered: Fall (odd years).

MUS 314 - Twentieth-Century Music (3)

Music literature since 1900 is studied, with emphasis on major contemporary developments as seen in the music of Schoenberg, Bartok, Stravinsky, Webern, Berg, and Hindemith.

Prerequisite: MUS 205 or MUS 205W and MUS 206 or MUS 206W, and either MUS 203 or MUS 230, or consent of instructor.

Offered: Spring (even years).

MUS 321 - Orchestration (3)

The range, tonal quality, and characteristics of various orchestral and band instruments are studied. Included are problems and projects in scoring for various ensembles.

Prerequisite: MUS 232 or consent of instructor.

Offered: Spring (odd years).

MUS 323 - Counterpoint (3)

Contrapuntal practices, including species counterpoint through twentieth-century styles, are studied. Forms include canon, invention, fugue, passacaglia, and others. Extensive writing and special projects are included.

Prerequisite: MUS 236.

Offered: Spring (even years).

MUS 360 - Seminar in Music Literature (2)

Students concentrate on a selected topic and engage in intensive study and discussion of a major composer or an important historical development. Emphasis is on research techniques. 3 contact hours.

Prerequisite: MUS 205 or MUS 205W, MUS 206 or MUS 206W, MUS 232, and one course from MUS 310, MUS 311, MUS 312, MUS 313, MUS 314; or consent of instructor.

Offered: Spring.

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MUS 390 - Directed Study (3)

Directed study is designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

MUS 391W - Junior Recital (0)

This is a half-hour solo recital of appropriate literature. Students must be enrolled in Applied Music in the semester in which the recital is performed. Graded H, S, U. This is a Writing in the Discipline (WID) course

Prerequisite: 15 credit hours (five semesters) of Applied Music in the appropriate instrument.

Offered: Fall, Spring, Summer.

MUS 408 - Advanced Conducting (3)

A continuation of MUS 308, this course further develops the student's technical skill in choral and instrumental conducting.

Prerequisite: MUS 308 or consent of department chair.

Offered: Spring.

MUS 458 - Twentieth-Century Theory (3)

The theoretical and compositional techniques of twentieth-century composers is studied.

Prerequisite: MUS 236 or consent of instructor.

Offered: As needed.

MUS 490 - Independent Study in Music (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member. The independent study in music may be repeated with a different topic or continuation of a non-honors project.

Prerequisite: Junior or senior standing, and consent of instructor, department chair and dean.

Offered: As needed.

MUS 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty member.

Prerequisite: Junior or senior standing, consent of instructor, department chair and dean, and admission to the music honors program.

Offered: As needed.

MUS 492W - Senior Recital-Music Education (0)

This is a half-hour solo recital of representative literature. Students must be enrolled in Applied Music in the semester in which the recital is performed. Graded H, S, U. This is a Writing in the Discipline (WID) course

Prerequisite: 12 credit hours (six semesters) of Applied Music in the appropriate instrument.

Offered: Fall, Spring, Summer.

MUS 493W - Senior Recital-Music Performance Majors (0)

This is a one-hour solo recital of representative literature. Students must be enrolled in Applied Music in the semester in which the recital is performed. Graded H, S, U. This is a Writing in the Discipline (WID) course

Prerequisite: MUS 391W and 21 credit hours (seven semesters) of Applied Music in the appropriate instrument.

Offered: Fall, Spring, Summer.

MUS 494 - Independent Study II (3)

This course continues the development of research or activity begun in MUS 491. For departmental honors, the project requires final assessment from the department.

Performing Arts

PFA 461W - Senior Seminar (3)

Senior candidates for the B.A. in music complete a project appropriate to their interests and field within the performing arts. This project includes a written component and possibly a performance element. This is a Writing in the Discipline (WID) course.

Prerequisite: Senior standing in the B.A. in music program.

Offered: Spring.

Physics

PHYS 312 - Mathematical Methods in Physics (3)

Topics include curvilinear coordinates, complex variables, integral transforms, vectors and matrices, special functions, differential equations, and numerical methods as applied to physics. Lecture.

Prerequisite: MATH 314.

Offered: Fall.

PHYS 313W - Junior Laboratory (3)

Intermediate-level experiments are performed in all areas of physics. Students also learn research skills, such as data analysis, literature review, and communication skills. Laboratory. 6 contact hours.

Prerequisite: PHYS 102 and PHYS 307.

Offered: Fall.

PHYS 315 - Optics (4)

This course covers electromagnetic waves, geometric optics, and physical optics. Topics include: mirrors, lenses, optical systems, thick lenses, aberrations, interference, diffraction, polarization, coherence, and lasers. Laboratory. 6 contact hours.

Prerequisite: PHYS 102 or consent of department chair.

Offered: Spring (odd years).

PHYS 320 - Analog Electronics (4)

Students examine discrete components, including resistors, capacitors, diodes, and transistors, and their applications. Oscilloscopes and other standard laboratory test equipment are used extensively. Integrated circuits are also introduced. 6 contact hours.

Prerequisite: PHYS 102 or consent of department chair.

Offered: Fall (odd years).

PHYS 321 - Digital Electronics (4)

Students explore basic logic chips and combine them to build digital devices including a microcomputer. Devices include multiplexers, counters, adders, flip-flops, and memory buses. Laboratory. 6 contact hours.

Prerequisite: PHYS 102 or consent of department chair.

Offered: Spring (even years).

PHYS 401 - Advanced Electricity and Magnetism I (4)

This is an examination of the theory and application of electrostatic fields, charge, potential, magnetic fields, steady currents, magnetic flux, inductance, transient current, radiation, magnetic energy and Maxwell's Equations. Lecture.

Prerequisite: MATH 314 and PHYS 102.

Offered: Spring (even years).

PHYS 402 - Advanced Electricity and Magnetism II (3)

This course covers the principles of electrodynamics, conservation laws, electromagnetic radiation, and the application of Special Relativity to electrodynamics. Lecture.

Prerequisite: PHYS 401.

Offered: As needed.

PHYS 403 - Classical Mechanics (4)

This course covers, at an advanced level, the classical theory of linear and rotational dynamics of particles and continuous media. An introduction to Lagrangian mechanics and special relativity is included. Lecture.

Prerequisite: MATH 314, PHYS 102.

Offered: Spring (odd years).

PHYS 407 - Quantum Mechanics II (3)

Topics include the structure of solids, approximation techniques, nuclear physics, and particle physics. Lecture.

Prerequisite: PHYS 102 and PHYS 307.

Offered: As needed.

PHYS 409 - Solid State Physics (3)

Topics include crystallography, common crystal structures, the reciprocal lattice, band theory, phonons, metals, and semiconductors. Lecture.

Prerequisite: PHYS 307.

Offered: As needed.

PHYS 413W - Senior Laboratory (3)

Advanced experiments in mechanics, waves, thermodynamics, optics, electromagnetism, and other topics are conducted. Laboratory. 6 contact hours.

Prerequisite: PHYS 102 and PHYS 313W.

Offered: Fall.

PHYS 467 - Honors Colloquium in Physics ()

Current topics in science at an advanced level are presented through department colloquia with outside speakers and through a series of seminars led by resident experts. This course may be repeated for credit with a change in content. 1 contact hour. Graded S, U.

Prerequisite: PHYS 102 and consent of department chair.

Offered: Fall, Spring.

Portuguese

PORT 115 - Literature of the Portuguese-Speaking World (4)

Students are introduced to techniques of literary analysis through readings from Portugal and the Lusophone World as they continue to develop speaking, reading, and writing skills in Portuguese.

General Education Category: Literature.

Prerequisite: PORT 113 or equivalent, or consent of department chair.

Offered: Fall, Spring.

PORT 201W - Conversation and Composition (4)

Students develop correct pronunciation through practice and elementary work in phonetics. Emphasis is on the use of correct spoken Portuguese on an advanced level. This is a Writing in the Discipline (WID) course.

Prerequisite: PORT 115 or equivalent or consent of department chair.

Offered: Fall.

PORT 202W - Composition and Conversation (4)

Writing skills in Portuguese are developed through grammatical exercises, controlled composition, original themes, and the stylistic analysis of literary texts. Discussions of written materials in Portuguese provide oral practice. This is a Writing in the Discipline (WID) course.

Prerequisite: PORT 115 or equivalent or consent of department chair.

Offered: Spring.

PORT 301 - Portuguese Literature and Culture I (4)

This is an introduction to the cultural, social, and historical aspects of Portuguese identity, from its inception to the end of the seventeenth century. Major literary currents, works, and authors are studied.

Prerequisite: PORT 202 or PORT 202W, or consent of department chair.

Offered: Alternate years.

PORT 302 - Portuguese Literature and Culture II (4)

This is an introduction to the cultural, social, and historical aspects of Portuguese identity, from the end of the seventeenth century to modernism. Major literary currents and works of each period are studied.

Prerequisite: PORT 202 or PORT 202W, or consent of department chair.

Offered: Alternate years.

PORT 304 - Brazilian Literature and Culture (4)

This is an introduction to the cultural, social, and historical aspects of Brazilian identity, from colonial times to the early twentieth century. Major literary currents, works, and authors of each period are studied.

Prerequisite: PORT 202 or PORT 202W, or consent of department chair.

Offered: Alternate years.

PORT 305 - Lusophone African Literatures and Cultures (4)

This is an introduction to the culture, history, and literary movements of African Lusophone nations. Major literary currents and works are studied from Cape Verde, Guinea-Bissau, São Tomé and Principe, Angola, and Mozambique.

Prerequisite: PORT 202 or PORT 202W, or consent of department chair.

Offered: As needed.

PORT 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

PORT 420W - Applied Grammar (3)

Practical application of grammar is given in both oral and written form, along with an intensive study of construction and idiomatic expressions. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of two of the following: PORT 301, PORT 302, PORT 304, PORT 305; or consent of department chair.

Offered: Alternate years.

PORT 460W - Seminar in Portuguese (3)

In-depth study of literary and cultural topics in Portuguese and Lusophone literatures and cultures. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of TWO from PORT 301, PORT 302, PORT 304, or PORT 305; and ONE 400-level PORT course, or consent of department chair.

Offered: As needed.

PORT 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty advisor.

Prerequisite: Consent of instructor, program director and dean, and admission to the portuguese honors program.

Offered: As needed.

Social Work

SWRK 301 - Policy Analysis and Practice (4)

Students examine social welfare policies that shape professional practice and client oppression; they work on strategies that create policy change for vulnerable and marginalized populations.

Prerequisite: POL 202, SWRK 200, or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 302W - Social Work Research Methods I (4)

Students learn about research process and methods in social work practice-related research. Students develop a research proposal including a problem statement, literature review and methods to be used. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of any mathematics or natural science general education distribution, and SWRK 200.

Offered: Fall, Spring, Summer.

SWRK 303 - Social Work Research Methods II (4)

Students develop data collection and analysis skills. Students conduct qualitative (single-subject case study) and quantitative (aggregate) data analyses, and learn strategies for using analytic software.

General Education Category: Advanced Quantitative/Scientific Reasoning (AQSR)

Prerequisite: Completion of any mathematics general education distribution, and SWRK 302 or SWRK 302W, or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 306 - Biopsychosocial Perspectives for Social Workers (2)

Students explore biopsychosocial aspects of human behavior for social work practice. Includes the role of genetics, the brain and physiology in discussing disability, trauma, mental illness and substance abuse.

Prerequisite: Prior or concurrent enrollment in SWRK 200.

Offered: Fall, Spring, Summer.

SWRK 324 - Diversity and Oppression I (4)

Students discover interpersonal and systemic influences on human behavior, especially the impact of oppression on individuals’ opportunities and outcomes. The effects of sexism, heterosexism, transphobia, ageism and ableism are examined.

Prerequisite: PSYC 215, PSYC 230; SWRK 200; or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 325 - Diversity and Oppression II (4)

Students explore systemic inequality and oppression that contribute to social injustice within our political, educational and social institutions. The effects of racism, class oppression and immigration status are examined.

Prerequisite: POL 202, SWRK 200, or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 326W - Generalist Social Work Practice (4)

Students explore social work roles, values and skills for practice with individuals and families, addressing concepts that underlie practice, including oppression and diversity. They begin developing interviewing and assessment skills. This is a Writing in the Discipline (WID) course.

Prerequisite: SWRK 200 and prior or concurrent enrollment in SWRK 324 and SWRK 325.

Offered: Fall, Spring.

SWRK 327 - Group and Community Practice (4)

Students focus on roles, values and skills working with groups, organizations and communities; explore concepts including power, privilege and social justice; and gain group facilitation and community change skills.

Prerequisite: Acceptance into the B.S.W. program, SWRK 326 or SWRK 326W, and concurrent enrollment in SWRK 338.

Offered: Spring, Summer.

SWRK 338 - Introduction to Fieldwork (2)

Focus is on the manner in which social agencies carry out the mission of social work. Included are structured observations and intervention experiences. Eight hours per week are required in a social agency. 8 contact hours. Graded S, U.

Prerequisite: Acceptance into the B.S.W. program, SWRK 326 or SWRK 326W, and concurrent enrollment in SWRK 327.

Offered: Spring, Summer.

SWRK 390 - Directed Study (1-3)

Designed to be a substitute for a traditional course under the instruction of a faculty member. Structure and credit hours vary.

Prerequisite: Social work majors with junior or senior standing, and consent of instructor, department chair and dean.

Offered: As needed.

SWRK 391 - Independent Study I (3)

Students conduct library and/or empirical research under the mentorship of a faculty member.

Prerequisite: Admission to social work honors program, and consent of instructor, department chair and dean.

Offered: As needed.

SWRK 411 - Yoga and Mediation in Social Work Practice (3)

Students address the efficacy of  yoga and meditation with various populations and problems. Students develop their own practice and identify ways to apply these strategies to social work practice. Hybrid course

Prerequisite: Completion of at least 60 college credits or junior standing.

Offered: Summer.

SWRK 426 - Clinical Social Work: Theories/Models (4)

Students focus on the theoretical bases for therapeutic change and their application with diverse and marginalized individuals and families. Content explores best practice strategies for strengths-based relationships in multiple settings.

Prerequisite: SWRK 327, SWRK 338, and concurrent enrollment in SWRK 436 (or SWRK 446) and SWRK 463.

Offered: Fall.

SWRK 433 - Generalist Foundation and Skills: Direct Practice II (3)

This is a continuation of SWRK 532. Cannot get credit for SWRK 433 and SWRK 533.

Prerequisite: Acceptance to the 5 year BSW/MSW pathway, concurrent enrollment in SWRK 437 and SWRK 464; or graduate status, SWRK 532, and concurrent enrollment in SWRK 501.

Cross-Listed as: SWRK 533.

Offered: Spring.

SWRK 432 - Generalist Foundation and Skills: Direct Practice I (3)

The values, knowledge and skills relevant to practice are discussed and integrated with fieldwork experience. Students cannot get credit for SWRK 432 and SWRK 532.

Prerequisite: Acceptance to the 5 year BSW/MSW pathway, concurrent enrollment in SWRK 436 and SWRK 463; or graduate status and concurrent enrollment in SWRK 500.

Cross-Listed as: SWRK 532.

Offered: Fall.

SWRK 435 - Crisis Intervention and Brief Treatment (3)

Focus is on the application of theory and techniques used in crisis intervention and brief casework services. Students cannot receive credit for both SWRK 435 and SWRK 535.

Prerequisite: Concurrent enrollment in SWRK 436 or SWRK 437, or consent of department chair.

Offered: As needed.

SWRK 436 - Fieldwork (4-7)

Students work sixteen hours a week in a social work agency. Students cannot receive credit for both SWRK 436 and SWRK 446. Graded S, U.

Prerequisite: SWRK 302 or SWRK 302W, SWRK 327, SWRK 338, prior or concurrent enrollment in SWRK 301, and concurrent enrollment in SWRK 426 and SWRK 463. Open only to social work majors.

Offered: Fall.

SWRK 437 - Advanced Fieldwork (4-7)

Students work sixteen hours a week in a social work agency. Students cannot receive credit for both SWRK 437 and SWRK 447. Graded S, U.

Prerequisite: SWRK 426, SWRK 436, SWRK 463, and concurrent enrollment in SWRK 464. Open only to social work majors.

Offered: Spring.

SWRK 438 - Social Work Interventions in Substance Abuse (3)

Substance abuse assessment and intervention are explored using a systems framework. Emphasis is on the techniques used in community-based interventions. Students cannot receive credit for both SWRK 438 and SWRK 538.

Prerequisite: Senior standing and enrollment in field, or consent of department chair.

Offered: As needed.

SWRK 440 - Social Work Practice: Children, Youth, Families (1)

This is an introduction to the theory, research, and practice of evidence-based services for vulnerable children, youth, and families. Graded S, U.

Prerequisite: SWRK 326 or SWRK 326W, or consent of department chair.

Offered: Spring.

SWRK 443 - Social Work Practice: Grief and Loss (1)

This is an introduction to the theory, research, and practice of evidence-based social work services for individuals and families experiencing grief and loss. Graded S, U.

Prerequisite: SWRK 326 or SWRK 326W, or consent of department chair.

Offered: Spring.

SWRK 445 - Summer Extended Fieldwork (4)

Students work 120 hours in a social work agency. Sixteen hours of fieldwork seminar is included.

Prerequisite: SWRK 302 or SWRK 302, SWRK 327, SWRK 338. Open only to social work majors.

Offered: Summer.

SWRK 446 - Fall Extended Fieldwork (3)

Students work twelve hours a week in a social work agency. Students cannot receive credit for both SWRK 436 and SWRK 446. Graded S, U.

Prerequisite: SWRK 445 and concurrent enrollment in SWRK 426 and SWRK 463. Open only to social work majors.

Offered: Fall.

SWRK 447 - Spring Extended Fieldwork (3)

Students work twelve hours a week in a social work agency. Students cannot receive credit for both SWRK 437 and SWRK 447. Graded S, U.

Prerequisite: SWRK 426, SWRK 446, SWRK 463, and concurrent enrollment in SWRK 464. Open only to social work majors.

Offered: Spring.

SWRK 454 - Social Work Practice with Older Adults (3)

Clinical and case management practice with older adults and their families is examined. Focus is on assessment, long-term and end-of life care, elder abuse and neglect, and spirituality. Students cannot receive credit for both SWRK 454 and SWRK 554.

Prerequisite: Senior standing or consent of department chair.

Offered: Fall, Spring, Summer.

SWRK 457 - Homelessness: Clinical and Policy Interventions I (3)

Students learn in teams with students from other health related disciplines while providing clinical and policy interventions with and on behalf of people experiencing homelessness**.**Students cannot receive credit for both SWRK 457 and SWRK 557.

Prerequisite: Senior standing or consent of department chair.

Cross-Listed as: SWRK 557.

Offered: Fall.

SWRK 458 - Homelessness: Clinical and Policy Interventions II (3)

Students continue to learn in teams with students from other health related disciplines while providing clinical and policy interventions with and on behalf of people experiencing homelessness. Students cannot receive credit for both SWRK 458 and SWRK 558.

Prerequisite: Senior standing and SWRK 457 or consent of department chair.

Cross-Listed as: SWRK 558.

Offered: Spring.

SWRK 463 - Fieldwork Seminar (3)

In this seminar, students share their fieldwork experiences. Emphasis is on the integration of theory and practice.

Prerequisite: SWRK 301, SWRK 302 or SWRK 302, SWRK 327, and concurrent enrollment in SWRK 426 and SWRK 436.

Offered: Fall.

Spanish

SPAN 115 - Literature of the Spanish-Speaking World (4)

Students are introduced to techniques of literary analysis through readings from Spain and Latin America as they continue to develop speaking, reading, and writing skills in Spanish.

General Education Category: Literature.

Prerequisite: SPAN 113 or equivalent, or consent of department chair.

Offered: Fall, Spring.

SPAN 201W - Conversation and Composition (4)

The use of correct spoken Spanish on an advanced level is emphasized. Attention is given to the correction of pronunciation through practice and elementary work in phonetics. This is a Writing in the Discipline (WID) course.

Prerequisite: SPAN 115 or placement test or consent of department chair.

Offered: Fall, Spring.

SPAN 202W - Composition and Conversation (4)

Writing skills in Spanish are developed through grammatical exercises, controlled composition, original themes, and the stylistic analysis of literary texts. Discussions in Spanish of the written materials provide oral practice. This is a Writing in the Discipline (WID) course.

Prerequisite: SPAN 201 or SPAN 201W or equivalent, or consent of department chair.

Offered: Fall, Spring.

SPAN 310 - Spanish Literature and Culture: Pre-Eighteenth Century (4)

The cultural, social, and historical aspects that define Spanish identity are examined from its inception to the end of the seventeenth century. In addition, the major literary currents associated with each period are studied.

Prerequisite: SPAN 202 or SPAN 202W, or consent of department chair.

Offered: Fall.

SPAN 311 - Spanish Literature and Culture: From Eighteenth Century (4)

The cultural, social, and historical aspects that define Spanish identity are examined from the eighteenth century to the modern period. The major literary currents associated with each period are also studied.

Prerequisite: SPAN 202 or SPAN 202W, or consent of department chair.

Offered: Spring.

SPAN 312 - Latin American Literature and Culture: Pre-Eighteenth Century (4)

The history, culture, and literary movements of Latin America are examined from the pre-Columbian period to the wars of independence.

Prerequisite: SPAN 202 or SPAN 202, or consent of department chair.

Offered: Fall.

SPAN 313 - Latin American Literature and Culture: From Eighteenth Century (4)

The history, culture, and literary movements of Latin America are examined from the eighteenth century to modern times.

Prerequisite: SPAN 202 or SPAN 202W, or consent of department chair.

Offered: Spring.

SPAN 390 - Directed Study (3)

Designed to be a substitute for a traditional course under the instruction of a faculty member.

Prerequisite: Consent of instructor, department chair and dean.

Offered: As needed.

SPAN 401 - Studies in Hispanic Prose (3)

Topics and materials are selected from the Spanish or Spanish American essay, short story, or novel and may include a study of a particular genre, movement, period, theme, or writer. This course may be repeated for credit with a change in content.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313; or consent of department chair.

Offered: Alternate Falls.

SPAN 403 - Studies in Hispanic Theatre/Film (4)

Topics and materials are selected from Spanish or Spanish American film. The instructor may select for study any period, school, movement, or director. This course may be repeated for credit with a change in content.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313; or consent of department chair.

Offered: Alternate Springs.

SPAN 404 - Studies in Hispanic Poetry (3)

Focus is on the definition, social function, and spiritual character of poetic creation as it relates to the historical and artistic context of a movement, period, writer, or theme. This course may be repeated for credit with a change in content.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313; or consent of department chair.

Offered: Alternate Springs.

SPAN 420W - Applied Grammar (3)

A practical application of grammar in both oral and written forms is emphasized, along with intensive study of construction and of idiomatic expressions. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313; or consent of department chair.

Offered: Spring.

SPAN 460W - Seminar in Spanish (3)

Focus is on intensive individual and group study of literary, philosophical, historical, political, social, or aesthetic problems. Students submit a major paper as a culmination of the semester's work. May be repeated for credit with a change in content. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of two of the following: SPAN 310, SPAN 311, SPAN 312, SPAN 313, and one 400-level course.

Offered: Annually.

SPAN 491 - Independent Study I (3)

Students select a topic and undertake concentrated research or creative activity under the mentorship of a faculty advisor.

Prerequisite: Consent of instructor, program director and dean, and admission to the spanish honors program.

Offered: As needed.

Special Education

SPED 202W - Teaching All Learners: Foundations and Strategies (4)

Teaching skills and strategies effective for diverse learners are presented and practiced; principles and practices addressing intellectual, physical, behavioral and cultural differences among children are discussed. Assigned practicum required. Students cannot receive credit for both SPED 202 or SPED 202W and ELED 202 or ELED 202W. This is a Writing in the Discipline (WID) course.

Prerequisite: FNED 101 and FNED 246, with a minimum grade of B-, and admission into the elementary and special education B.S. programs, or consent of department chair.

Offered: Spring.

SPED 210W - Supporting Social, Emotional and Behavioral Learning (4)

Teacher candidates examine principles and procedures for supporting social, emotional and behavioral needs of preschool through secondary level students across a multi-tiered system of support. Thirty hours of assigned practicum included. This is a Writing in the Discipline (WID) course.

Prerequisite: SPED 202 or SPED 202W or ELED 202 or ELED 202W, and admission into the elementary and special education B.S. programs, or consent of department chair.

Offered: Fall, Spring.

SPED 211 - Supporting Students with Communication Needs (3)

Emphasis is placed on the processes of language development in children. Teacher candidates consider specific techniques for enhancing language development in children with special needs.

Prerequisite: SPED 202 or SPED 202W or ELED 202 or ELED 202W, or consent of department chair.

Offered: Fall, Spring.

SPED 300 - Introduction to the Characteristics and Education of Children and Youth with Disabilities (4)

The educational implications of intellectual, physical, and behavioral differences among children are discussed. Definitions, characteristics, etiologies, incidence, and educational provisions are also examined. An assigned practicum is included.

Offered: Fall, Spring.

SPED 301 - Inclusive Early Childhood Special Education (3)

Teacher candidates explore policy on early childhood special education and recommended practices to support the diverse needs of young children with exceptionalities and their families in inclusive environments.

Prerequisite: Admission to the FSEHD Early Childhood Education program or consent of the department chair.

Offered: Fall, Spring.

SPED 305 - Supporting Infants/Toddlers with Special Needs (3)

Students learn history and current policy regarding special education and early intervention. Recommended practices and processes to effectively support infants and toddlers with special needs and their families are studied.

Prerequisite: Admission to the FSEHD ECED Program/Concentration, Birth to Three.

Offered: Fall.

SPED 312W - Assessment Procedures for Students with Special Needs (4)

Teacher candidates examine principles and procedures of educational assessment for preschool through secondary level students across multi-tiered systems of supports.  Thirty hours of assigned practicum included. This is a Writing in the Discipline (WID) course.

Prerequisite: SPED 202 or SPED 202W or ELED 202 or ELED 202W, and admission into the elementary and special education B. S. programs, or consent of department chair.

Offered: Fall, Spring.

SPED 333 - Introduction to Special Education: Policies/Practices (3)

Special education policies/practices will be addressed. General educator candidates explore specific teaching strategies and legal/ethical implications for working with students/families with exceptionalities.

Prerequisite: Admission to and retention in a teacher preparation program; successful prior enrollment in ARTE 302, HPE 300, HPE 301, MUSE 212, SED 202, TECH 305 or TECH 300, WLED 201 or consent of department chair.

Offered: Fall, Spring.

SPED 412W - Intensive Intervention in Literacy (4)

Teacher candidates examine assessment, curriculum and methodology for providing intensive intervention in literacy to students with language-based learning differences. Thirty hours of assigned practicum included. This is a Writing in the Discipline (WID) course.

Prerequisite: ELED 324, ELED 326, SPED 210 or SPED 210W, SPED 211, and SPED 312 or SPED 312W, or consent of department chair.

Offered: Fall, Spring.

SPED 415 - Assessment/Instruction with Young Exceptional Children (3)

An array of curriculum and instructional approaches for serving infants, preschool and early elementary children with disabilities in inclusive contexts are examined. Topics include assessment, evidence-based instruction and curriculum design/adaptations.

Prerequisite: SPED 301 or consent of department chair.

Offered: Fall.

SPED 424 - Assessment/Instruction: Adolescents with Mild/Moderate Disabilities (4)

Assessment and instructional approaches for adolescents with mild/moderate disabilities at the middle grades or secondary level are analyzed. Thirty hour practicum required.

Prerequisite: SPED 300, SPED 310, SPED 312 or SPED 312W, admission to the Department of Special Education or consent of the department chair.

Offered: Spring.

SPED 427 - Career/Transition Planning for Adolescents (3)

Teacher candidates focus on career and transition planning for adolescents with special needs at the middle grades or secondary level. Observation/field experience required.

Prerequisite: SPED 300, SPED 310, SPED 312 or SPED 312W, admission to the Department of Special Education, or consent of department chair.

Offered: Spring.

SPED 428 - Student Teaching at the Secondary Level (10)

In this culminating field experience, candidates complete a teaching experience in an elementary or middle school under the supervision of a cooperating teacher and college supervisor. This is a full-semester assignment. Graded S, U.

Prerequisite: Concurrent enrollment in SPED 440; satisfactory completion of the admission and retention requirements for the special education and the elementary or secondary education programs; passing score(s) on the Praxis II; approved Preparing to Teach Portfolio; completion of the community service requirement; and a negative result from the required tuberculin test. A cumulative GPA of 2.50 a full semester prior to student teaching; M.A.T. candidates must have a cumulative GPA of 3.00 a full semester prior to student teaching.

Offered: Fall, Spring.

SPED 433 - Special Education: Best Practices and Applications (3)

Primary learner characteristics guide lesson planning, instruction and assessment to address the strengths/needs of students with exceptionalities. Focused field experiences in special education are required.

Prerequisite: Admission to and retention in a teacher preparation program; ELED 202W or SPED 202W or SPED 333, or consent of department chair.

Offered: Fall, Spring.

SPED 435W - Assessment/Instruction: Young Students with SID (4)

This is an analysis of assessment, methodology, curriculum, instructional procedures, and adaptations of materials and strategies for children with significant special needs. Thirty hours of an assigned practicum are included. Teacher candidates analyze assessment, methodology, curriculum, instructional procedures and adaptations of materials and strategies for children with significant special needs. Thirty hours of an assigned practicum are included. This is a Writing in the Discipline (WID) course.

Prerequisite: SPED 210 or SPED 210W, SPED 312 or SPED 312W, or consent of department chair.

Offered: Spring.

SPED 436 - Assessment/Instruction: Older Students with SID (4)

Assessment, methodology, teaching strategies, curriculum, instructional procedures, and transition preparation for older students with significant special needs is the course focus. Thirty hours of an assigned practicum are included. Teacher candidates focus on assessment, methodology, teaching strategies, curriculum, instructional procedures, and transition preparation for older students with significant special needs. Thirty hours of an assigned practicum are included.

Prerequisite: SPED 210 or SPED 210W, SPED 312 or SPED 312W, or consent of department chair.

Offered: Fall.

SPED 451 - Teaching Culturally/Linguistically Diverse Students with Exceptionality (3)

Students explore theoretical, conceptual and pedagogical elements in culturally and linguistically responsive teaching and learning for culturally and linguistically diverse students with exceptional needs.

Prerequisite: SPED 210 or SPED 210W, SPED 211, SPED 312 or SPED 312W, or consent of department chair

Offered: Fall, Spring.

SPED 453 - Content-Based ESL Instruction for Exceptional Students (4)

Students analyze instructional approaches that integrate language, literacy, and content instruction for multilingual learners. Students design, adapt and implement instruction for multilingual learners with special needs. Thirty-hour assigned practicum included.

Prerequisite: SPED 451 or consent of department chair.

Offered: Fall, Spring.

SPED 458 - STEM for Diverse Learners: Intensive Intervention (4)

Teacher candidates analyze STEM curricula and instructional approaches to support students with special needs. Emphasis is placed on assessment and intervention in math and science. Thirty hour practicum included.

Prerequisite: ELED 438, SPED 210 or SPED 210W, SPED 312 or SPED 312W, or consent of department chair.

Offered: Fall, Spring.

SPED 460 - Capstone: Specialized Language Instruction (2)

Teacher candidates explore the needs of students with language-based learning differences, reflecting upon how, where, and to what extent they, and their families, are being (or could be) served in schools.

Prerequisite: SPED 412 or SPED 412W.

Offered: Fall, Spring, Summer.

Youth Development

YDEV 300W - Introduction to Youth Development (4)

Students will explore basic dimensions of youth work, professional practice and contexts of play and learning. The course requires travel to youth development settings.

Prerequisite: At least 24 credits. A BCI (state background check) is required.

Offered: Fall, Spring.

YDEV 301 - Community, Pedagogy and Inclusion (4)

Students will learn the fundamentals of building supportive and inclusive communities in informal youth settings. Students design and implement youth development programming in a laboratory setting.  
Prerequisite: At least 24 credits, and prior or concurrent enrollment in YDEV 300W. A BCI (state background check) is required.

Offered: Fall, Spring.

YDEV 352W - Seminar in Youth Development (3)

This foundational seminar in the youth development program provides a framework to integrate the multidisciplinary approaches of education, social work, and nonprofit studies. (Formerly FNED 352).

Prerequisite: FNED 246, SWRK 240, and concurrent enrollment in YDEV 353.

Offered: Fall.

YDEV 353 - Field Experience in Youth Development (1)

Students will complete 15-30 hours of fieldwork within an organization that serves children and/or youth.  Fieldwork includes observations, interviews, and a small project. 2 contact hours.

Prerequisite: FNED 246, SWRK 240, and concurrent enrollment in YDEV 352W.

Offered: Fall.