General Education

Connections (C)

Courses in the Connections category are upper-level courses on topics that emphasize comparative perspectives, such as across disciplines, across time, and across cultures. Students must complete the FYS 100/HONR 100 and FYW 100/FYW 100P/FYW 100H courses and must have earned at least 45 college credits before taking a Connections course. Connections courses cannot be included in any major or minor program.

…

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 275 | Russia from Beginning to End | 4 | F, Sp |
| MUS 261 | Music and Multimedia | 4 | As needed |
| NURS 262 | Substance Abuse as a Global Issue | 4 | F |
| NURS 264 | Status of the World's Children | 4 | F, Sp, Su |
| NURS 266 | Health and Cultural Diversity | 4 | F, Sp |
| PHIL 262 | Freedom and Responsibility | 4 | F, Sp, Su |
| PHIL 263 | The Idea of God | 4 | F, Sp, Su |
| PHIL 265 | Philosophical Issues of Gender and Sex | 4 | F, Sp |
| PHIL 266 | Asian Philosophies: Theory and Practice | 4 | F, Sp |
| PSCI 262 | Space: The Final Frontier | 4 | F, Sp, Su |
| POL 262 | Power and Community | 4 | F, Sp, Su |

**Faculty of Arts and Sciences**

**Department of Anthropology**

Archaeology Minor

The minor in archaeology consists of a minimum of 19–24 credit hours (five courses), as follows:

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 102 | Introduction to Archaeology | 4 | F, Sp |

ONE COURSE from:

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 101 | Introduction to Cultural Anthropology | 4 | F, Sp |
| ANTH 103 | Introduction to Biological Anthropology | 4 | Sp |
| ANTH 104 | Introduction to Linguistic Anthropology | 4 | F |

THREE ADDITIONAL COURSES from the following list (TWO must be from ANTH):

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 235 | Bones and Stones: How Archaeologists Know | 4 | Annually |
| ANTH 301/ENST 301 | Ethnobotany | 4 | Alternate years |
| ANTH 304 | Human Paleontology | 4 | Alternate years |
| ANTH 311 | North American Archaeology | 4 | Alternate years |
| ANTH 312 | Archaeology of Mesopotamia and South Asia | 4 | Alternate years |
| ANTH 334 | Steamships and Cyberspace: Technology, Culture, Society | 4 | Alternate years |
| ANTH 345 | Museums, Cultures, and Others | 4 | Alternate years |
| ANTH 402 | Evolution of the Capacity for Culture | 4 | Alternate years |
| ANTH 482 | Anthropology Field School: Archaeology | 4-8 | As needed |
| GEOG 309 | New England Landscapes Pre-1900 | 3 | Su |
| GEOG 310 | New England Landscapes since 1900 | 3 | Su |
| HIST 220 | Ancient Greece | 3 | Alternate years |
| HIST 357 | Public History Experiences | 3 | Annually |
| PSCI 208 | Forensic Science | 4 | F, Sp |
| PSCI 212 | Introduction to Geology | 4 | F, Su |

Total Credit Hours: 19-24

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 419 | Biochemistry Mechanisms | 3 | Sp |
|  | -Or- |  |  |
| CHEM 422 | Biochemistry Laboratory | 3 | Sp |
|  | -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 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 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

Environmental Studies B.A.

Course Requirements

Foundation Courses

Introduction to Environmental Studies

|  |  |  |  |
| --- | --- | --- | --- |
| ENST 200W | Environmental Studies | 4 | Sp |

Statistics

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 240 | Biostatistics | 4 | As needed |
|  | -Or- |  |  |
| MATH 240 | Statistical Methods I | 4 | F, Sp, Su |

Professional Writing

|  |  |  |  |
| --- | --- | --- | --- |
| COMM 201W | Writing for News | 4 | F, Sp |
|  | -Or- |  |  |
| COMM 242 | Message, Media, and Meaning | 4 | F |
|  | -Or- |  |  |
| ENGL 231W | Multimodal Writing | 4 | As needed |
|  | -Or- |  |  |
| ENGL 232W | Public and Community Writing | 4 | As needed |

The Natural Environment

|  |  |  |  |
| --- | --- | --- | --- |
| BIOL 100 | Fundamental Concepts of Biology | 4 | F, Sp, Su |
| CHEM 105 | General, Organic and Biological Chemistry I | 4 | F, Sp, Su |
|  |  |  |  |
| PSCI 212 | Introduction to Geology | 4 | F, Su |
|  | -Or- |  |  |
| PSCI 214 | Introduction to Meteorology | 4 | F |
|  | -Or- |  |  |
| PSCI 217 | Introduction to Oceanography | 4 | Sp |

The Cultural Environment

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 258 | Environmental History | 3 | Annually |
|  |  |  |  |
|  | ONE COURSE from: |  |  |
| ANTH 101 | Introduction to Cultural Anthropology | 4 | F, Sp |
| ANTH 102 | Introduction to Archaeology | 4 | F, Sp |
| SOC 200 | Introduction to Sociology | 4 | F, Sp |

The Human-Environment Interface

|  |  |  |  |
| --- | --- | --- | --- |
| PHIL 325 | Environmental Ethics | 3 | Sp |
|  |  |  |  |
| POL 202 | American Government | 4 | F, Sp, Su |
|  | -Or- |  |  |
| POL 203 | Global Politics | 4 | F, Sp |
|  |  |  |  |
| ECON 200 | Introduction to Economics | 4 | F, Sp, Su |
|  | -Or- |  |  |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
|  | -Or- |  |  |
| GEOG 301 | Natural Resource Management | 4 | As needed |
|  |  |  |  |
|  | ONE COURSE from: |  |  |
| COMM 240 | Mass Media and Society | 4 | F, Sp, Su |
| GEOG 100 | Introduction to Environmental Geography | 4 | F, Sp, Su |
| GEOG 201 | Mapping Our Changing World | 4 | F, Sp |
| SOC 204 | Urban Sociology | 4 | As needed |
| SUST 200 | Introduction to Sustainability | 4 | Annually |

Depth Courses

**FOUR COURSES**, BUT NO MORE THAN TWO FROM ANY SINGLE DEPARTMENT/PROGRAM FROM:

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 301/ENST 301 | Ethnobotany | 4 | Alternate years |
| ANTH 307 | Human Nature: Evolution, Ecology, and Behavior | 4 | F, Sp |
| ANTH 334 | Steamships and Cyberspace: Technology, Culture, Society | 4 | Alternate years |
| ANTH 338 | Urban Anthropology | 4 | Alternate years |
| ANTH 343 | Environmental Anthropology | 4 | Alternate years |
| ANTH 347 | Environmental Justice | 4 | Alternate years |
| ECON 331 | Topics in Global Economics | 4 | Annually (even years) |
| ECON 337 | Economics of Climate Change and Sustainability | 4 | Annually (odd years) |
| ENGL 315 | Literature, Environment and Ecocriticism | 4 | Annually |
| ENST 301/ANTH 301 | Ethnobotany | 4 | Alternate years |
| GEOG 202 | Geographic Information Systems I | 4 | Sp |
| GEOG 206 | Disaster Management | 4 | F, Sp |
| GEOG 301 | Natural Resource Management | 4 | As needed |
| GEOG 307 | Coastal Geography | 4 | As needed |
| GEOG 338 | People, Houses, Neighborhoods, and Cities | 3 | As needed |
| HIST 357 | Public History Experiences | 3 | Annually |
| INGO 300 | International NGOs and Nonprofits | 4 | F |
| INGO 301 | Global Development | 4 | Sp |
| PHIL 320 | Philosophy of Science | 3 | Sp (odd years) |
| POL 300 | Methodology in Political Science | 4 | F, Sp |
| POL 301W | Foundations of Public Administration | 4 | F |
| POL 341 | The Politics of Developing Nations | 4 | Sp |
| POL 342 | The Politics of Global Economic Change | 4 | Every third semester |
| POL 345 | International NGOs and Nonprofits | 4 | F |
| POL 355 | Policy Formation Process | 4 | Sp |
| SOC 302W | Social Research Methods | 4 | F, Sp, Su |
| SOC 404 | Social Data Analysis | 4 | F, Sp, Su |
| XXX 350 | Appropriate topics from different departments | 4 | As needed |

Note: Cannot receive credit for ANTH 301 and ENST 301. Cannot receive credit for INGO 300 and POL 345. GEOG 301 may not be taken for both Foundational and Depth credit.

Capstone

Select one of the following: Seminar, Internship or Fieldcourse

Seminar

|  |  |  |  |
| --- | --- | --- | --- |
| ENST 461 | Environmental Studies Capstone Seminar | 4 | As needed |
|  |  |  |  |
|  | -Or- |  |  |

Internship

|  |  |  |  |
| --- | --- | --- | --- |
| INGO 303 | Pre-Internship in International NGOs and Nonprofits | 1 | As needed |
|  |  |  |  |
|  | -Or- |  |  |

Fieldcourse

CHOOSE ONE from the following:

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 482 | Anthropology Field School: Archaeology | 4-8 | As needed |
| ANTH 483 | Anthropology Field School: Biological Anthropology | 4-8 | As needed |
| ENST 462 | Internship in Environmental Studies | 4 | F, Sp, Su |
| GEOG 463 | Internship in Geography | 4-6 | F, Sp, Su |
| POL 327 | Internship in State Government | 4 | Sp |
| POL 328 | Field Experiences in the Public Sector | 4 | F, Sp, Su |

Note: ANTH 482, ANTH 483 and GEOG 463 only require 4 credits to fulfill the requirement. INGO 304 requires all 3 credits to fulfill the requirement.

Note: If selecting the INGO options, both INGO 303 and INGO 304 MUST be completed.

Note: Students enrolled in the Environmental Studies program can only receive credit for ONE of the following courses: ENST 462, GEOG 463, INGO 304, POL 328.

Total Credit Hours: 63-67

*Note: Program adds to 48-56 without general education courses.*

Environmental Studies Minor

The minor on Environmental Studies consists of a minimum of 20 credit hours, as follows:

Course Requirements

Foundation Courses

Introduction to Environmental Studies

|  |  |  |  |
| --- | --- | --- | --- |
| ENST 200W | Environmental Studies | 4 | Sp |

The Natural Environment

|  |  |  |  |
| --- | --- | --- | --- |
|  | ONE COURSE from: |  |  |
| BIOL 100 | Fundamental Concepts of Biology | 4 | F, Sp, Su |
| CHEM 105 | General, Organic and Biological Chemistry I | 4 | F, Sp, Su |
| PSCI 212 | Introduction to Geology | 4 | F, Su |
| PSCI 214 | Introduction to Meteorology | 4 | F |
| PSCI 217 | Introduction to Oceanography | 4 | Sp |

The Human Environment

**CHOOSE ONE COURSE** that cannot be counted in your major from:

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 101 | Introduction to Cultural Anthropology | 4 | F, Sp |
| ANTH 102 | Introduction to Archaeology | 4 | F, Sp |
| COMM 240 | Mass Media and Society | 4 | F, Sp, Su |
| ECON 200 | Introduction to Economics | 4 | F, Sp, Su |
| ECON 214 | Principles of Microeconomics | 3 | F, Sp, Su |
| HIST 258 | Environmental History | 3 | Annually |
| GEOG 100 | Introduction to Environmental Geography | 4 | F, Sp, Su |
| GEOG 201 | Mapping Our Changing World | 4 | F, Sp |
| GEOG 301 | Natural Resource Management | 4 | As needed |
| PHIL 325 | Environmental Ethics | 3 | Sp |
| POL 202 | American Government | 4 | F, Sp, Su |
| POL 203 | Global Politics | 4 | F, Sp |
| SOC 200 | Introduction to Sociology | 4 | F, Sp |
| SOC 204 | Urban Sociology | 4 | As needed |
| SUST 200 | Introduction to Sustainability | 4 | Annually |

Depth Courses

**CHOOSE TWO COURSES** from:

|  |  |  |  |
| --- | --- | --- | --- |
| ANTH 301/ENST 301 | Ethnobotany | 4 | Alternate years |
| ANTH 307 | Human Nature: Evolution, Ecology, and Behavior | 4 | F, Sp |
| ANTH 334 | Steamships and Cyberspace: Technology, Culture, Society | 4 | Alternate years |
| ANTH 338 | Urban Anthropology | 4 | Alternate years |
| ANTH 343 | Environmental Anthropology | 4 | Alternate years |
| ANTH 347 | Environmental Justice | 4 | Alternate years |
| ECON 331 | Topics in Global Economics | 4 | Annually (even years) |
| ECON 337 | Economics of Climate Change and Sustainability | 4 | Annually (odd years) |
| ENGL 315 | Literature, Environment and Ecocriticism | 4 | Annually |
| ENST 301/ANTH 301 | Ethnobotany | 4 | Alternate years |
| GEOG 202 | Geographic Information Systems I | 4 | Sp |
| GEOG 206 | Disaster Management | 4 | F, Sp |
| GEOG 301 | Natural Resource Management | 4 | As needed |
| GEOG 307 | Coastal Geography | 4 | As needed |
| GEOG 338 | People, Houses, Neighborhoods, and Cities | 3 | As needed |
| HIST 357 | Public History Experiences | 3 | Annually |
| INGO 300 | International NGOs and Nonprofits | 4 | F |
| INGO 301 | Global Development | 4 | Sp |
| PHIL 320 | Philosophy of Science | 3 | Sp (odd years) |
| POL 300 | Methodology in Political Science | 4 | F, Sp |
| POL 301W | Foundations of Public Administration | 4 | F |
| POL 341 | The Politics of Developing Nations | 4 | Sp |
| POL 342 | The Politics of Global Economic Change | 4 | Every third semester |
| POL 345 | International NGOs and Nonprofits | 4 | F |
| POL 355 | Policy Formation Process | 4 | Sp |
| SOC 302W | Social Research Methods | 4 | F, Sp, Su |
| SOC 404 | Social Data Analysis | 4 | F, Sp, Su |
| XXX 350\* | Topics Course | 3-4 |  |

Note: Cannot receive credit for INGO 300 and POL 345. GEOG 301 may not be taken for both Foundational and Depth credit.

Total Credit Hours: 20

Gender and Women’s Studies B.A.

Course Requirements

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| GEND 200W | Gender and Society | 4 | F, Sp |
| GEND 201W | Introduction to Feminist Inquiry | 4 | F |
| GEND 352 | Feminist Theory | 4 | F |
| GEND 400 | Internship in Gender and Women’s Studies | 4 | As needed |
| GEND 461 | Seminar in Race, Gender, and Class | 4 | Sp |

FIVE COURSES: Two of these courses must be on the topics of labor and class, race/ethnicity or sexuality studies.

|  |  |  |  |
| --- | --- | --- | --- |
| GEND 205 | Introduction to Queer Theory | 4 | F |
| GEND 350 | Topics | 4 | As needed |
| GEND 351 | Men and Masculinities | 4 | As needed |
| GEND 353 | The Holocaust: Women and Resistance | 4 | As needed |
| GEND 355 | Women and Madness | 4 | Alternate years |
| GEND 356 | Class Matters | 4 | F |
| GEND 357 | Gender and Sexuality | 4 | F |
| GEND 358 | Gender-Based Violence | 4 | Alternate years |
| ART 461 | Seminar in Art History | 3 | F, Sp |
| COMM 332 | Gender and Communication | 4 | F |
| ENGL 324 | Literature by Women | 4 | As needed |
| ENGL 326 | Studies in African American Literature | 4 | As needed |
| FNED 246 | Schooling for Social Justice | 4 | F, Sp, Su |
| HIST 217 | American Gender and Women’s History | 3 | Annually |
| HIST 234 | Challenges and Confrontations: Women in Europe | 3 | As needed |
| POL 309 | Gender and Politics in the U.S. | 4 | As needed |
| POL 333 | Law and Politics of Civil Rights | 4 | Annually |
| PSYC 356 | Psychology of Gender | 4 | F, Sp |
| SOC 342 | Women, Crime, and Justice | 4 | F, Sp |
| XXX 350\* | Topics Course | 3-4 |  |

Note: ENGL 326, FNED 346, GEND 353, GEND 356, GEND 357 and GEND 458: Labor and class, race/ethnicity or sexual studies are topics in these courses.

Note: \*Topics Course: (when on gender and women’s studies topics)

Total Credit Hours: 37-40

Gender and Women’s Studies Minor

Course Requirements

The minor in gender and women’s studies consists of a minimum of 18 credit hours (five courses) as follows:

Courses

|  |  |  |  |
| --- | --- | --- | --- |
| GEND 200W | Gender and Society | 4 | F, Sp |
| GEND 201W | Introduction to Feminist Inquiry | 4 | F |

THREE COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| GEND 353 | The Holocaust: Women and Resistance | 4 | As needed |
| GEND 355 | Women and Madness | 4 | Alternate years |
| GEND 356 | Class Matters | 4 | F |
| GEND 357 | Gender and Sexuality | 4 | F |
| GEND 358 | Gender-Based Violence | 4 | Alternate years |
| ART 461 | Seminar in Art History | 3 | F, Sp |
| COMM 332 | Gender and Communication | 4 | F |
| ENGL 324 | Literature by Women | 4 | As needed |
| ENGL 326 | Studies in African American Literature | 4 | As needed |
| FNED 246 | Schooling for Social Justice | 4 | F, Sp, Su |
| HIST 217 | American Gender and Women’s History | 3 | Annually |
| HIST 234 | Challenges and Confrontations: Women in Europe | 3 | As needed |
| POL 309 | Gender and Politics in the U.S. | 4 | As needed |
| POL 333 | Law and Politics of Civil Rights | 4 | Annually |
| PSYC 356 | Psychology of Gender | 4 | F, Sp |
| SOC 342 | Women, Crime, and Justice | 4 | F, Sp |
| XXX 350\* | Topics Course | 3-4 |  |

Note: \*Topics Course: (when on gender and women’s studies topics)

Total Credit Hours: 18-20

Philosophy B.A. with Concentration in History of Philosophy

Course Requirements

Logic

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| PHIL 205W | Introduction to Logic | 4 | F, Sp |
| PHIL 305W | Intermediate Logic | 4 | Sp (even years) |

History

|  |  |  |  |
| --- | --- | --- | --- |
| PHIL 351W | Plato, Aristotle, and Greek Philosophy | 4 | F |
| PHIL 354 | Continental Philosophy | 4 | Annually |
| PHIL 356W | Descartes, Hume, Kant and Modern Philosophy | 4 | Sp |

Ethics, Political, and Legal

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| PHIL 306 | Contemporary Ethical Theory | 3 | F |
| PHIL 321 | Social and Political Philosophy | 3 | F, Sp |
| PHIL 322 | Philosophy of Law | 3 | Annually |

Metaphysics and Epistemology

ONE COURSE from

|  |  |  |  |
| --- | --- | --- | --- |
| PHIL 311 | Knowledge and Truth | 3 | Sp (even years) |
| PHIL 320 | Philosophy of Science | 3 | Sp (odd years) |
| PHIL 330 | Metaphysics | 3 | F (even years) |
| PHIL 333 | Philosophy of Mind | 3 | F (odd years) |

Seminar

|  |  |  |  |
| --- | --- | --- | --- |
| PHIL 460W | Seminar in Philosophy | 4 | Annually |

Additional Courses

TWO COURSES from

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 220 | Ancient Greece | 3 | Alternate years |
| HIST 221 | The Roman Republic | 3 | Alternate Years |
| HIST 306 | Protestant Reformations and Catholic Renewal | 3 | As needed |
| HIST 307 | Europe in the Age of Enlightenment | 3 | As needed |
| HIST 316 | Modern Western Political Thought | 4 | F |
| HIST 340 | The Muslim World from the Age of Muhammad to 1800 | 3 | As needed |
| PHIL 357 | Hegel, Nietzsche and Nineteenth-Century Philosophy | 3 | F (even years) |
| PHIL 359 | Frege, Russell, Wittgenstein and Analytic Philosophy | 3 | F (odd years) |

Total Credit Hours: 31-33

Course Requirements for Minor in History of Philosophical Thought

The minor in history of philosophical thought consists of a minimum of 18 credit hours, as follows:

Courses

AT LEAST FOUR COURSES from:

|  |  |  |  |
| --- | --- | --- | --- |
| PHIL 351W | Plato, Aristotle, and Greek Philosophy | 4 | F |
| PHIL 356W | Descartes, Hume, Kant and Modern Philosophy | 4 | Sp |
| PHIL 357 | Hegel, Nietzsche and Nineteenth-Century Philosophy | 3 | F (even years) |
| PHIL 358 | Existentialism and Phenomenological Philosophy | 3 | Sp (odd years) |
| PHIL 359 | Frege, Russell, Wittgenstein and Analytic Philosophy | 3 | F (odd years) |

REMAINING CREDIT HOURS are made up of additional choices from the eight courses above and/or from:

|  |  |  |  |
| --- | --- | --- | --- |
| HIST 224 | The Glorious Renaissance | 3 | F |
| HIST 238 | Early Imperial China | 3 | As needed |
| HIST 306 | Protestant Reformations and Catholic Renewal | 3 | As needed |
| HIST 307 | Europe in the Age of Enlightenment | 3 | As needed |
| HIST 316 | Modern Western Political Thought | 4 | F |
| HIST 340 | The Muslim World from the Age of Muhammad to 1800 | 3 | As needed |
| PHIL 200 | Introduction to Philosophy | 3 | F, Sp |
| POL 316 | Modern Western Political Thought | 4 | F |

**School of Business**

Management B.S.

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 | As Needed |
| 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 322 | Services Marketing | 4 | As needed |

Subtotal: 76

**School of Education**

Secondary Education Chemistry Major - Applications to this program are not being accepted at this time

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

Requirements

Biology

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

Chemistry

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

Mathematics

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

Physical Science

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

Physics

|  |  |  |  |
| --- | --- | --- | --- |
| PHYS 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 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

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 | Workplace Writing | 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 309W | Exercise Prescription | 3 | F |
| HPE 406 | Program Planning in Health Promotion | 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 | Senior Lecture: Wellness and Exercise Science | 3 | F |
| HPE 427 | Internship in Wellness and Exercise | 10 | F, Sp, Su |
| HPE 430 | Seminar in Wellness and Exercise | 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 244 | Group Exercise Instruction | 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 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

**School of Business**

General Information

The School of Business houses three departments: (1) the Department of Accounting (2) the Department of Economics and Finance, and (3) the Department of Management and Marketing. The school also houses and coordinates the health care administration major.

Writing Requirement

A graded writing assignment is required in **every** course.

Suggested Sequence of Courses

Majors in the School of Business are designed primarily for upper-division students. Entering students should plan to complete their General Education Core and Distribution Requirements during their first two years. These courses provide excellent and necessary preparation for the major and its requirements.

In the first year, students may not take courses in the departments (except ECON 200, ECON 214, and ECON 215) but are strongly encouraged to complete MATH 177.

Economics B.A.

**Department of Economics and Finance**  
  
**Department Chair:** Kemal Saatcioglu  
  
E**conomics Program Faculty: Professors** Karim, Tashiro; **Associate Professor** Basu;  **Assistant Professor** Ramirez Cisneros  
  
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 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 | Workplace Writing | 4 | F, Sp, Su |
| FIN 301 | Financial Management | 4 | F, Sp, Su |
| MATH 177 | Quantitative Business Analysis | 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

**Course Descriptions**

# ANTH - Anthropology

ANTH 310 - Language and Culture (4)

The interrelationships between language and other aspects of culture are examined as they illuminate anthropological issues and theories.

Prerequisite: Completion of at least 60 college credits and ANTH 104 or COMM 255, or consent of instructor.

Offered: Alternate years.

ANTH 311 - North American Archaeology (4)

North American history from the first peopling of the continent to modern times is examined, including migration patterns, subsistence, environmental and social change, technology and social life.

Prerequisite: ANTH 102 or consent of department chair.

Offered: Alternate years.

ANTH 312 - Archaeology of Mesopotamia and South Asia (4)

The archaeology of ancient Mesopotamia and South Asia is investigated. Topics include understanding the nature of civilizations; their emergence in these regions; and their culture, politics, economy and interaction with neighbors.

Prerequisite: ANTH 102 or consent of department chair.

Offered: Alternate years.

ANTH 329 - Queer And Trans Anthropology (4)

Exploring marginalized forms of gender or sexuality, such as trans or queer identity, along with race and class, reveal how difference is managed and regulated at global and local levels.

Prerequisite: Completion of at least 45 college credits and any General Education course in a social or behavioral science, or consent of department chair.

Offered: Alternate years.

ANTH 330 - Language Endangerment and Linguistic Revitalization (4)

Students examine the value of linguistic diversity on a global scale, its importance for humanity, the causes and extent of language endangerment and possible solutions through language maintenance and revitalization.

Prerequisite: ANTH 104 or consent of department chair.

Offered: Alternate years.

# BIOL - Biology

BIOL 435 - Comparative Animal Physiology (3)

This is an exploration of diverse physiological adaptations to environmental conditions. Particular emphasis is placed on the wide variety of mechanisms that animals use to cope with diverse environmental conditions.

Prerequisite: BIOL 111, BIOL 112 with a grade of C or better, and BIOL 314.

Offered: As needed.

BIOL 440 - Evolution (3)

An interdisciplinary approach is used to examine evolutionary trends of plants and animals, the origin of life, molecular evolution, and speciation. Lecture.

Prerequisite: BIOL 314.

Offered: As needed.

BIOL 443 - Fundamentals of Neurobiology (4)

A comprehensive survey of central nervous system (CNS) biology is presented. Emphasis is placed on molecular, cellular and physiological processes of the nervous system. 6 contact hours.

Prerequisite: BIOL 111, BIOL 112 and BIOL 314.

Offered: As needed.

BIOL 460W - Biology Senior Seminar (3)

Topics covering the breadth of biology content are synthesized in this capstone experience. Skills emphasized are writing and oral presentation in science. A content examination and literature review are required. Graded H, S, U. This is a Writing in the Discipline (WID) course.

Prerequisite: Senior status (90 credit hours successfully completed), BIOL 111, BIOL 112, with a grade of C or better, BIOL 314, BIOL 318, BIOL 320; or consent of department chair.

Offered: Fall, Spring.

# CHEM - Chemistry

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 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.

COMM – Communication

COMM 356 - Group Decision Making (4)

The principles of group dynamics and discussion in task-oriented experiences are examined. Topics include group leadership skills and cooperative problem-solving methods.

Prerequisite: COMM 208 or permission of department chair.

Offered: Spring.

COMM 357 - Public Opinion and Propaganda (4)

The nature and influence of public opinion are explored. Topics include propaganda as a technique for persuasion.

Prerequisite: COMM 240.

Offered: Fall, Summer.

COMM 359 - Argumentation and Debate (4)

The tools of argumentation and debate are introduced, including the construction of logical arguments and the analysis of arguments for weakness in reasoning or evidence.

Prerequisite: 60 credits or permission of department chair.

Offered: Fall.

COMM 412 - Strategies in Fundraising and Development (4)

This course is designed to equip students with the practical skills of strategic fundraising and development, and to provide them with practice in applying these newly acquired skills.

Prerequisite: COMM 251 or COMM 251W and COMM 351, or permission of department chair.

Offered: As needed.

# ECON – Economics

ECON 436 - Industrial Organization and Market Structure (4)

The economics of industrial organization and the organization of firms and industries are analyzed using microeconomic theories and empirical data. Public policy issues are assessed, including antitrust and regulatory mechanisms.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 437 - Environmental Economics (4)

Focus is on current environmental problems and policies. Topics include valuing the environment, approaches to controlling local and regional air pollution, energy policy, climate change, global warming, and sustainable economic growth.

Prerequisite: ECON 214, ECON 215; MATH 177.

Offered: As needed.

ECON 449W - Introduction to Econometrics (4)

Quantitative methods used in testing theoretical propositions in economics and business are presented. Emphasis is on the use of regression, time-series models, and other econometric methods. Lecture and computer laboratory. This is a Writing in the Discipline (WID) course.

Prerequisite: ECON 214, ECON 215; MATH 248.

Offered: Fall, Spring.

ECON 462W - Seminar in Economic Research (4)

Students integrate economic literature, theory, data and empirical methodologies, write, and present a research paper in the style of a journal article.This is a Writing in the Discipline (WID) course.

Prerequisite: : ECON 314, ECON 449 or ECON 449W, and one additional economics course at the 400-level.

Offered: Spring.

# GEND – Gender and Women’s Studies

GEND 353 - The Holocaust: Women and Resistance (4)

Using an interdisciplinary approach, students expand on traditional academic approaches to the Holocaust and explore gender differences in the experiences, responses, and forms of resistance.

Prerequisite: Completion of at least 45 college credits or consent of director.

Offered: As needed.

GEND 355 - Women and Madness (4)

Students consider patriarchal power, race, class and sexual identity in the development of the concept of women’s ‘madness,’ and examine it from historical, psychological, literary, social and feminist perspectives.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: Alternate years.

GEND 356 - Class Matters (4)

Focus is on the construction, reproduction, and representation of class in modern America; the impact of social and economic structures on opportunities, identities, and values; and intersections with gender and race.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: Fall.

GEND 357 - Gender and Sexuality (4)

Students examine how the social construction of gender and issues of power, dominance, and resistance affect the practice and regulation of sexuality.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: Fall.

GEND 358 - Gender-Based Violence (4)

Students examine forms and types of gender-based violence, including sexual assault and intimate partner, socio-cultural, economic and political violence in the United States with a secondary discussion of global violence.

Prerequisite: GEND 200 or GEND 200W, or consent of director.

Offered: Alternate years.

GEND 400 - Internship in Gender and Women’s Studies (4)

Students engage in experiential learning and participate in a selected public or private agency/organization. Each student formulates specific learning objectives under the direction of an instructor.

Prerequisite: GEND 200 or GEND 200W, junior or senior standing and consent of program director following an interview.

Offered: As needed.

GEND 416 - Women’s Health (4)

Students examine women’s health from a holistic, and interdisciplinary perspective. Personal, social, cultural, and societal influences on the health of women, health disparities and effective health promotion efforts are explored. Students cannot receive credit for both HPE 416 and GEND 416.

Prerequisite: 45 credit hours or consent of department chair.

Cross-Listed as: HPE 416.

Offered: Annually.

GEND 461 - Seminar in Race, Gender, and Class (4)

Students examine how race, gender, and class—interconnected systems that shape individual and collective social experiences—are constructed, experienced, and negotiated within specific historical eras and locations.

Prerequisite: 60 credit hours; major in Africana studies or gender and women's studies; or consent of program director.

Offered: Spring.

# HPE – Health and Physical Education

HPE 202W - Community/Public Health and Health Promotion (3)

Students investigate public health and health promotion and their impacts on individual and community health.  Focus is on health care systems; technology use; and professional philosophies, responsibilities and opportunities.  This is a Writing in the Discipline (WID) course.

Offered: Fall, Spring.

HPE 205 - Conditioning for Personal Fitness (3)

Students develop personal fitness through participation in a variety of supervised activities and develop a knowledge base necessary to design their own fitness programs. Fitness-related topics and fitness testing are also included. 4 contact hours.

Offered: Fall, Spring.

HPE 210 - Nutrition Education and Promotion (3)

Students explore the science of nutrition and its application to health education. The study of nutrients, dietary guidelines, current problems, healthy-eating promotion and nutrition education methods are covered.

Prerequisite: HPE 200 or HPE 200W, or consent of department chair.

Offered: Spring.

HPE 221 - Nutrition (3)

Students study fundamental principles of human nutrition, application of nutrition concepts in dietary practice, relationship between diet nutrition, and human health, along with approaches to support healthy eating habits.

Offered: Fall, Spring.

HPE 233 - Social and Global Perspectives on Health (3)

Students explore social, global and population perspectives on health, health equity and social justice. Sociocultural factors influencing health decision-making are studied. Health behavior theories are integrated. Advocacy skills are developed.

Prerequisite: 24 credit hours or consent of department chair.

Offered: Fall, Spring, Summer.

HPE 243 - Motor Development and Motor Learning (3)

Through lecture and lab experiences the fundamentals of motor development and motor learning theories are explored. Studies focus on the effects of growth and developmental factors throughout the lifespan.

Offered: Fall, Spring.

HPE 244 - Group Exercise Instruction (3)

Students will augment existing fitness abilities with knowledge and skills on how to design and teach group exercise classes based on exercise physiology concepts and professional standards.

Prerequisite: HPE 205 and HPE 243 or consent of department chair.

Offered: Spring.

HPE 252 - Camping and Recreational Leadership (3)

The philosophy and problems of camping and recreational leadership are studied. The principles, practices, processes and techniques of leadership are studied in depth. Lecture and laboratory.

Offered: As needed.

HPE 253 - Introduction to Therapeutic Recreation (3)

Students are introduced to the history, concepts and philosophy of therapeutic recreation in community and institutional settings. Field trips and on-site observations are included.

Offered: As needed.

HPE 278 - Coaching Skills and Tactics (3)

Skill development and tactical awareness are introduced. Students acquire the ability to explain, demonstrate, analyze and provide feedback for physical movements while coaching players of all ages.

Prerequisite: HPE 243.

Offered: Fall, Spring.

HPE 300 - Health Education and Health Promotion Pedagogy (3)

Students study effective health education and health promotion in school and community settings, teaching models and pedagogical approaches that support health. Observation, instruction and reflection skills are developed and practiced.

Prerequisite: Minimum cumulative GPA of 2.75 and admission into the health education teacher preparation program, or community and public health promotion program, or consent of department chair.

Offered: Fall, Spring.

HPE 301W - Principles of Teaching Activity (3)

Techniques of activity presentation are studied, including the task, problem-solving and guided discovery methods. Individual philosophies of teaching are considered. Supervised teaching experiences are included. This is a Writing in the Discipline (WID) course.

Prerequisite: HPE 140 and HPE 243; and admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Fall, Spring.

HPE 303W - Research in Community and Public Health (3)

Students investigate core public health concerns. Using population health databases, students write a policy-focused research paper. Topics include health determinants and disparities, communicable and chronic disease, and levels of prevention. This is a Writing in the Discipline (WID) course.

Prerequisite: : HPE 202 or HPE 202W and admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Fall, Spring.

HPE 305 - Advanced Prevention and Care of Athletic Injuries (3)

Preventative screening, pathomechanics of injury and evaluation techniques are analyzed. Relying heavily on the case-study approach, laboratory sessions include opportunities for supervised practice and the application of training procedures.

Prerequisite: HPE 201.

Offered: As needed.

HPE 307 - Introduction to Epidemiology (3)

This course provides students with an understanding of the basic concepts, principles and methods of epidemiology as applied to studies of both infectious and chronic diseases.

Prerequisite: HPE 102, HPE 202 or HPE 202W, and 30 credit hours or consent of department chair.

Offered: Fall, Spring.

HPE 308 - The Science of Coaching (3)

Scientific aspects of coaching, motor skill acquisition, sport psychology and developmentally appropriate sport programs are analyzed. Emphasis is on coaching philosophy, methodology as well as ethics in coaching.

Prerequisite: HPE 205, HPE 243 and HPE 278, or consent of department chair.

Offered: Spring.

HPE 309W - Exercise Prescription (3)

Students will learn how to prescribe appropriate and effective personalized fitness programs. Lectures, practical applications and case studies allow for effective practice designing programs for all populations. This is a Writing in the Discipline (WID) course.

Prerequisite: HPE 205 and HPE 243 or consent of department chair.

Offered: Fall.

HPE 310 - Strength and Conditioning for the Athlete (3)

Students will explore the roles and responsibilities of strength and conditioning specialists and acquire skills to design and instruct strength programs for athletes and clients desiring higher level performance.

Prerequisite: BIOL 231.

Offered: Fall.

HPE 313 - Elementary Activities (3)

Basic competencies are developed to build a movement framework for children (BSER framework). Included are exploration related to locomotor, non-locomotor, manipulative and creative movement concepts at the elementary level.

Prerequisite: 12 credit hours, including HPE 243, or consent of department chair.

Offered: Fall.

HPE 314 - Middle School Activities (3)

Basic competencies are developed to enhance skill development. Included are skill analysis, development of strategies and tactics of individual/dual, team, adventure education and rhythmic activities at the middle school setting.

Prerequisite: HPE 301 and 313, or consent of department chair.

Offered: Fall.

HPE 315 - High School Activities (3)

Basic competencies are developed to enhance skill development. Included are skill analysis, development of strategies and tactics of individual and dual/team, adventure education and rhythmic activities in the high school setting.

Prerequisite: HPE 314; consent of department chair.

Offered: Fall.

HPE 325 - Assessment in Physical Education (2)

Teacher candidates learn evidence-based practices that measure student achievement in all areas of physical education instruction.

Prerequisite: HPE 301, or concurrent enrollment in HPE 301, or consent of department chair.

Offered: Fall.

HPE 326 - Assessment in Health Education (2)

Students will design, administer and analyze skills-based health education assessment instruments.

Prerequisite: HPE 300.

Offered: Spring.

HPE 340 - Sexual Health Education and Promotion (3)

Students explore human sexuality concepts and apply them to the design, delivery and assessment of developmentally and culturally appropriate sexual health educational interventions in school and community settings.

Prerequisite: 24 credit hours or consent of department chair.

Offered: Fall.

HPE 344 - Infant Toddler Health and Wellness (3)

Students explore infant/toddler development including physical health, motor development and impact of environmental, socioeconomic and cultural influences on development. Basic health, safety and nutritional practices are also studied.

Prerequisite: ECED 202, ECED 232, ECED 310, ECED 312, ECED 314, ECED 410 and SPED 301 (B- or higher).

Offered: Fall.

HPE 345 - Wellness for the Young Child (3)

Wellness topics for early childhood education (B-8) programs are addressed. This course includes experiences in teaching specific basic wellness topics (e.g., health, safety, nutrition and overall wellness). Hybrid course.

Prerequisite: Admission to the ECED Program or consent of the Health and Physical Education department chair.

Offered: Spring, Summer.

HPE 346 - Pedagogical Skills in Elementary Health/Physical Education (3)

Basic principles of comprehensive health education and physical education programs for elementary schools are addressed. 4 contact hours.

Prerequisite: Admission to the Feinstein School of Education and Human Development.

Offered: Fall, Spring, Summer.

HPE 356 - Recreation Practicum (4)

Students assist in the development, presentation and evaluation of leisure-time activities in community, agency, school or college settings. Lecture and field experience. 7 contact hours.

Prerequisite: HPE 151 and HPE 252.

Offered: As needed.

HPE 390 - Independent Study in Physical Education (1)

Students select a topic and undertake concentrated research under the supervision of a faculty advisor.

Prerequisite: Consent of department chair.

Offered: As needed.

HPE 403 - Environmental Health (3)

Students survey environmental health from holistic and interdisciplinary perspectives. They examine the interactive nature of natural and anthropogenic environments, and their impacts on community and population health and health promotion.

Prerequisite: 45 credit hours or consent of department chair.

Offered: Annually.

HPE 404 - School Health and Physical Education Leadership (3)

Topics include practical organizational and administrative content and skills, consideration for program planning, teacher evaluation, curriculum, policies, leadership, technology and standards for health education, physical education and extracurricular activities.

Prerequisite: HPE 414 or HPE 414W, or HPE 418 or HPE 418W, or concurrent enrollment in HPE 414W, or HPE 418W, or consent of department chair.

Offered: Spring.

HPE 406 - Program Planning in Health Promotion (3)

Students take systematic approaches to developing interventions and programs that promote healthy communities. Planning models, needs assessments, behavior change theories, social marketing, program implementation and evaluation methodologies are addressed.

Prerequisite: HPE 303; a minimum cumulative GPA of 2.75; or consent of the department chair.

Offered: Spring or as needed.

HPE 408 - Coaching Applications (3)

Effective planning, implementation and evaluation of practice and game management, as well as seasonal responsibilities of the coach, are analyzed. Includes field work in coaching.

Prerequisite: HPE 201, HPE 205, HPE 243, HPE 278, HPE 308, and current first aid/CPR (infant, child, and adult with AED) certification.

Offered: Fall.

HPE 409 - Adapted Physical Education (3)

Individual differences that affect motor learning and performance are considered. Individual educational programs in adaptive, developmental, corrective and inclusive physical education are designed. Laboratory is included.

Prerequisite: SPED 333 and concurrent enrollment in or completion of HPE 413 or HPE 414.

Offered: Spring.

HPE 410 - Managing Stress and Mental/Emotional Health (3)

Students explore connections between mental and physical health as related to managing stress. Activities include the identification of sources, the identification of the impact of stress on health, and the implementation of stress management techniques.

Prerequisite: 45 credit hours or consent of department chair.

Offered: Fall, Spring.

HPE 411 - Kinesiology (3)

The effects of physical and anatomical principles on the performance of motor patterns are studied and the mechanical analysis of specific activities are analyzed.

Prerequisite: BIOL 231, HPE 313 (for HPE majors) or HPE 278 (for WES majors) and admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Fall, Summer.

HPE 413 - Practicum in Elementary Physical Education (3)

Practice creating and implementing developmentally appropriate lessons associated with rhythmic, individual, dual, team and adventure activities at the elementary level. Includes observations and supervised teaching experiences in PK-5 settings. (Formerly Practicum in Creative Movement and Dance.) 4 contact hours.

Prerequisite: HPE 301, HPE 313 and HPE 314; admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Spring.

HPE 414W - Practicum In Secondary Physical Education (3)

Practice creating and implementing developmentally appropriate lessons associated with rhythmic, individual, dual, team and adventure activities at the secondary level. Includes observations and supervised teaching experiences in 6th-12th grade settings. (Formerly Practicum in Individual and Dual Activities.) 6 contact hours. This is a Writing in the Discipline (WID) course.

Prerequisite: HPE 314 and HPE 315; admission to the Feinstein School of Education and Human Development or consent of department chair.

Offered: Spring.

# HSCI – Health Science

HSCI 232 - Human Genetics (4)

Human genetics and biotechnology are presented in the context of health care and public health policy. These topics are explored using problem-based learning and case studies.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: BIOL 100, BIOL 108, or BIOL 111.

Offered: Fall.

HSCI 300 - Food Chemistry (3)

This course presents the basic composition, structure, and properties of foods, and the chemistry of changes occurring during processing, storage and use.

Prerequisite: CHEM 206

Offered: Fall.

HSCI 400 - Quality Assurance of Food Products (3)

This course presents quality assurance practices in the food industry.

Prerequisite: BIOL 348.

Offered: Fall.

HSCI 401 - Topics in Respiratory Therapy (4)

Various aspects of respiratory therapy are reviewed for evidence-based recommendations and updates. Diagnostic techniques, treatment approaches, current clinical practice guidelines and updates, and cardiopulmonary medications are addressed.

Prerequisite: Enrollment in the respiratory therapy completion concentration of the B.S. in health sciences.

Offered: Spring.

# 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 215 - 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.

Prerequisite: Completion of at least 30 college credits.

Offered: Fall, Spring.

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.

# MATH – Mathematics

MATH 177 - Quantitative Business Analysis (4)

Topics include linear and selected nonlinear functions, linear systems, matrix methods, linear programming, average rate of change, derivatives and marginal analysis. Applications to management and economics are stressed throughout.

General Education Category: Mathematics.

Prerequisite: MATH 120 or appropriate score on placement exam.

Offered: Fall, Spring, Summer.

MATH 209 - Precalculus Mathematics (4)

The functions, concepts, and techniques of algebra and trigonometry considered essential in the study and applications of calculus are introduced and/or reinforced.

General Education Category: Mathematics.

Prerequisite: MATH 120 or appropriate score on placement exam.

Offered: Fall, Spring, Summer.

MATH 210 - College Trigonometry (3)

This is an in-depth study of trigonometry. Topics include a comprehensive analysis of trigonometric and inverse trigonometric functions and solutions of triangles, vectors, and polar coordinates.

Prerequisite: Three units of college preparatory mathematics and MATH 120 or consent of department chair.

Offered: Spring.

MATH 212 - Calculus I (4)

This course covers the fundamental concepts, techniques, and applications of the differential calculus of one variable and begins the study of integration.

General Education Category: Mathematics.

Prerequisite: MATH 209 or appropriate score on placement exam.

Offered: Fall, Spring, Summer.

MATH 213 - Calculus II (4)

A continuation of MATH 212, topics include derivatives and integrals of logarithmic, exponential, and inverse trigonometric functions; techniques of integration; infinite series; and related applications.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: MATH 212

Offered: Fall, Spring, Summer.

MATH 220 - Formalizing Mathematical Thought (4)

This course is an introduction to abstract and generalized thinking including formal mathematical proof. Students cannot receive credit for MATH 220 if credit was received for MATH 300.

Prerequisite: MATH 143, MATH 144, and MATH 209.

Offered: Fall (alternate years - even-numbered years.)

MATH 239 - Contemporary Topics in Mathematics II (4)

Topics studied include, and are not limited to: applications to management, electoral politics and fair and equitable conflict resolution.

General Education Category: Advanced Quantatitive/Scientific Reasoning.

Prerequisite: MATH 139 or consent of department chair.

Offered: Fall, Spring, Summer.

# PHIL – Philosophy

PHIL 333 - Philosophy of Mind (3)

The status and role of mind in relation to body is studied. Diverse theories, such as mind/body dualism, identity theory, behaviorism, functionalism, and emergence, are discussed.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall (odd years).

PHIL 351W - Plato, Aristotle, and Greek Philosophy (4)

The origins of philosophy in Greek thought are explored. Works of philosophers such as Plato and Aristotle are read. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Fall.

PHIL 354 - Continental Philosophy ()

Offered: Annually.

PHIL 356W - Descartes, Hume, Kant and Modern Philosophy (4)

Works from European philosophers from Descartes to Kant are read. This is a Writing in the Discipline (WID) course.

Prerequisite: Completion of at least 30 college credits or any 100- or 200-level philosophy course.

Offered: Spring.

# PSCI – Physical Science

PSCI 262 - Space: The Final Frontier (4)

Students explore the cultural impacts on the imagination of space, the science and technological discoveries for space science, and how space has fueled science fiction literature, film and popular culture.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

PSCI 357 - Historical and Contemporary Contexts of Science (3)

The development of science and technology is explored through case histories from the physical, biological, and environmental sciences. 4 contact hours.

Prerequisite: Any Natural Science course.

Offered: As needed.

# POL – Political Science

POL 262 - Power and Community (4)

Students study normative and empirical aspects of the concepts of “power” and “community.” Examples of power relations in a variety of contexts and settings will be compared.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Fall, Spring, Summer.

POL 265 - Politics and Popular Culture: Global Perspectives (4)

Students investigate the intersection of politics and popular culture in Western and non-Western societies by examining entertainment values, their relationship to political culture and behavior, and the debate over globalization.

General Education Category: Core 4.

Prerequisite: Gen. Ed. Core 1, 2, and 3.

Offered: Annually.

POL 267 - Immigration, Citizenship, and National Identity (4)

Students investigate how different societies have dealt with citizenship and immigration issues and how conceptions of nationhood influence citizenship and immigration debates.

General Education Category: Connections.

Prerequisite: FYS 100, FYW 100/FYW 100P/FYW 100H and 45 credit hours.

Offered: Annually.

POL 300 - Methodology in Political Science (4)

The approaches and methods of empirical political science research are surveyed. Emphasis is on research design, data collection, and interpretation.

General Education Category: Advanced Quantitative/Scientific Reasoning.

Prerequisite: POL 202 and any Gen. Ed. Mathematics course, or consent of department chair.

Offered: Fall, Spring.

POL 301W - Foundations of Public Administration (4)

The art and science of public administration is introduced. Focus is on the administrative leadership necessary to manage government agencies within the American political system. This is a Writing in the Discipline (WID) course.

Prerequisite: POL 202 or consent of department chair.

Offered: Fall.

# PSYC – Psychology

PSYC 426 - Internship in Psychology (4)

Students gain hands-on professional experience by working in internship settings. Course includes reflecting upon and analyzing work experiences to understand the career applications of concepts and skills in psychology.

Prerequisite: PSYC 221 or PSYC 221W,, completion of 24 credits in psychology and 72 total credits, a cumulative G.P.A. of 2.5 and consent of instructor. Application is required. Open to undergraduate students only. Preference is given to B.A. majors and minors in psychology.

Offered: Annually.

PSYC 445 - Behavioral Neuroscience (4)

Advanced assessment of neural systems and function is presented, with an emphasis on techniques and laboratory approaches. Neuroscience labs include anatomical, physiological, pharmacological, genetic, and behavioral analyses in animal models.

Prerequisite: PSYC 110, PSYC 221 or PSYC 221W,, PSYC 345.

Offered: Annually.

PSYC 452 - Theories of Psychological Intervention (4)

Theory and methods of psychological and behavioral interventions are presented. Focus is on an evidence-based approach to treating psychological disorders, including substance abuse.

Prerequisite: PSYC 217 and PSYC 354 or equivalents.

Offered: Spring.

# SED - Secondary Education

SED 422 - Student Teaching Seminar in Secondary Education (3)

This is an integrative and culminating experience in the professional program in secondary education. Students reflect on their initial experience as classroom teachers. Students cannot receive credit for more than one of the following: SED 420, TECH 420, and WLED 420.Graded S, U.

Prerequisite: Concurrent enrollment in SED 420 and SED 421. To be admitted into SED 420, SED 421, and SED 422, the student must have completed all other required courses.

Cross-Listed as: TECH 422, WLED 422.

Offered: Spring.

SED 445 - The Teaching of Writing in Secondary Schools (4)

Study includes the evaluation of aims and objectives, selection and organization of content, principles and methods of writing instruction, and current research and practice in the teaching of writing.

Prerequisite: Admission to the Secondary Education Teacher Preparation Program.

Offered: Fall, Spring.

SED 490 - 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: Fall, Spring.

SED 491 - Independent Study I (3)

Students develop a proposal that includes a description and rationale for their research project, a literature review, methodologies for data collection and analysis, a time line and a plan for presenting their findings.

# SWRK – Social Work

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 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 302W, 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.

# SPAN – Spanish

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 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.