# Foundation Prerequisites & Restrictions

## Social Science

**Section One:** At least two courses from the following:

- BIOLOGY 102 - Intro Biology for Science Majors
- BIOLOGY 105 (BS) - Biology of Social Issues
- BIOLOGY 106 (BS) - Human Biology
- BIOCHEM 100 (BS) - My DNA
- CHEM 101(PS) - General Chemistry Non-Sci
- CHEM 111 (PS) - General Chemistry I
  - Prerequisites Either:
    - MATH 101 & 102
    - Equivalent of MATH 104
    - A score of 20 or higher on Part "A" of the Math Placement test.
    - MATH 127, 128, 131, or 132
  - Note: A maximum of 5 units may be received for both CHEM 101 and CHEM 102, or 2 units for either, if CHEM 111 is completed.
- CHEM 112 (PS) - General Chemistry II
  - Prerequisites Either: CHEM 111 or 121H with a grade of 'C-' or better.
- ENVI SCI 213 - Intro to Environmental Policy
  - Restriction: Open to ENVI SCI & RES-ECON majors only.
- KIN 100 (BS) - Introduction to Kinesiology
- KIN 110 (BS) - Human Performance & Nutrition
- KIN 270 - Anatomy & Physiology I with lab
  - Prerequisites Either: KIN 100, KIN 110, BIOLOGY 100, CHEM 110, or CHEM 111
- KIN 272 - Anatomy & Physiology II with lab
  - Prerequisites Either: KIN 170 or KIN 270
- MICROBIO 160 (BS) - Biology of Cancer and AIDS
- MICROBIO 255 (BS) - Intro to Medical Microbiology
  - Prerequisites: KIN 272
- MICROBIO 310 - General Microbiology
  - Prerequisites Either: CHEM 261 or Concurrent enrollment
- NUTR 130 (BS) - Nutrition for a Healthy Lifestyle
- NUTR 140 (BS) - Nutrition, Weight and Fitness
- NUTR 230 - Basic Nutrition
  - Prerequisites Either: CHEM 112, 250, or 261
- NUTR 397A - Eating Disorders
  - Prerequisites Either: NUTR 130, 140, 197A, 230 or KIN 110
- STOCKSCH 126 - Insects and Human Society
- STOCKSCH 185 (I) - Sustainable Living
  - Restriction: Open to Freshman, Sophomore, and Juniors only.
- STOCKSCH 326 - Insect Biology
- STOCKSCH 342 - Pesticides, Public Policy, & Environment

**Section Two:** At least three courses from the following:

- ANTHRO 104 (SB,G) - Culture, Society and People
- ANTHRO 205 (SB,U) - Inequality and Oppression
- ANTHRO 312 - Medical Anthropology
  - Restriction: Instructor Consent Required
- ANTHRO 397RR - Disease Ecology

## Science

**Section One:** Choose one of the following five course sequences:

- CHEM 111(PS) – General Chemistry I
  - Prerequisites Either:
    - MATH 101 & 102
    - Equivalent of MATH 104
    - Score of 20 or higher on Part "A" of the Math Placement test.
    - MATH 127, 128, 131, or 132
  - Note: A maximum of 5 units may be received for both CHEM 101 and CHEM 102, or 2 units for either, if CHEM 111 is completed.
- CHEM 112(PS) - General Chemistry II
  - Prerequisites Either:
    - CHEM 111 or 121H with a grade of 'C-' or better.
- CHEM 261 – Organic Chemistry
  - Prerequisites Either:
    - CHEM 112, 122, or 122H with a grade of ‘C-’ or better.
- CHEM 262 – Organic Chemistry
  - Prerequisites Either:
    - CHEM 261 or 265 with a grade of ‘C-’ or better.
- CHEM 269 – Organic Chemistry with Lab
  - Prerequisites Either:
    - CHEM 261 or 265with a grade of ‘C-’ or better.
- KIN 270 & 271 – Anatomy & Physiology I with lab
  - Prerequisites Either:
    - KIN 100, KIN 110, BIOLOGY 100, CHEM 110, or CHEM 111.
- KIN 272 & 273 – Anatomy & Physiology II with lab
  - Prerequisites Either: KIN 272 Either: KIN 170 or KIN 270
  - Prerequisites KIN 273 Either: KIN 171 or KIN 271
- MICROBIO 310 – General Microbiology
  - Prerequisites Either: CHEM 261 or Concurrent enrollment
- MICROBIO 312 – Microbiology Lab
  - Prerequisites Either: CHEM 310 or Concurrent enrollment
- PHYSICS 131 (PS) – Intro to Physics I with lab
- PHYSICS 132 (PS) – Intro to Physics II with lab
  - Prerequisites Either: PHYSICS 131, 133 or equivalent

*Note* KIN 270 & 272 were previously KIN 170 & 172.

**Section Two:** Choose two courses from below or another course sequence from above:

- BIOCHEM 420 - Elementary Biochemistry
  - Prerequisites Either: CHEM 250, 261, or 265 with a grade of ‘C-’ or better.
- BIOLOGY 151 (BS) - Introduction to Biology I
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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<td>ECON 103 (SB)</td>
<td>Introduction to Microeconomics</td>
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<tr>
<td>ECON 104 (SB)</td>
<td>Introduction to Macroeconomics</td>
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<td>ECON 105 (SB,U)</td>
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<td>ECON 308</td>
<td>Political Economics of the Environment</td>
<td>Prerequisites Either: ECON 103 or RES-ECON 102</td>
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  - For enrollment procedure, contact Professor Zuniga to enroll at umassdialogues@gmail.com OR go to the course Web Page http://people.umass.edu/educ202-xzuniga/ |
| EDUC 210 (I,U) | Social Diversity in Education | Restriction: Instructor Consent Required  
  - Open to Freshman and Sophomores only. |
| EDUC 229 (SB,G) | International Education | Restriction: Open to Freshman, Sophomores, and Juniors only. |
| GEOSCI 102 | Human Landscape |  |
| PHIL 170 (SB) | Problems in Social Thought |  |
| PLSOILIN 140 | Plagues: the Ecology of Disease |  |
| POLISCI 111 (SB,G) | Comparative Politics |  |
| POLISCI 181 (SB,U) | Controversies in Public Policy |  |
| POLISCI 220 | Public Administration |  |
| POLISCI 252 | Globalization, Governance and World Order |  |
| POLISCI 253 | International Environ Politics and Policy | Restriction: Instructor Consent Required |
| POLISCI 381 | Health, Education, and Arts Policy | Restriction:  
  - Open to Senior, Junior and Sophomore POLISCI majors.  
  - Open to Junior or Senior Non-major after a certain time. |
| PSYCH 100 (SB) | Introduction Psychology |  |
| PSYCH 305 | Educational Psychology | Prerequisites Either: PSYCH 100 or PSYCH 110 |
| PSYCH 350 (SB) | Child Psychology | Prerequisites Either: PSYCH 100 or PSYCH 110 |
| PSYCH 355 | Adolescent Psychology | Prerequisites Either: PSYCH 100 or PSYCH 110 |
| PSYCH 360 (SB) | Social Psychology | Prerequisites Either: PSYCH 100 or PSYCH 110 |
| PSYCH 380 | Abnormal Psychology | Prerequisites Either: PSYCH 100 or PSYCH 110 |
| RES-ECON 121 (SB,G) | Hunger in a Global Economy |  |
| SOCIOL 103 (SB,U) | Social Problems |  |
| SOCIOL 106 (SB) | Race, Sex, & Social Class |  |
| SOCIOL 110 (SB,U) | General Introduction Sociology |  |
| SOCIOL 222 (SB,U) | The Family |  |
| SOCIOL 224 (SB,U) | Social, Class, and Inequality | Restriction:  
  - Open to SOCIOL majors only.  
  - Open Non-major after a certain time. |
| WOMENSST 201 | Gender and Difference: Critical Analyses |  |
| WOMENSST 297B | ST-Race, Gender, Sexuality and Science |  |
| WOMENSST 301 | Theorizing Gender, Race, and Power | Prerequisites Either: WOMENSST 201 or 201HCS |
| BIOLOGY 152 (BS) | Introduction to Biology II | Prerequisites: BIOLOGY 151 with a grade of ‘C-‘ or better. |
| BIOLOGY 153 | Introduction to Biology Lab | Prerequisites:  
  - BIOLOGY 151 with a grade of ‘C-‘ or better.  
  - Concurrently enrolled or have taken BIOLOGY 152 |
| BIOLOGY 190H | Quantitative Biology of the Cell |  |
| BIOLOGY 284 | General Genetics Lab | Prerequisites: BIOLOGY 283 with a grade of ‘C-‘ or better. |
| BIOLOGY 285 | Cell and Molecular Biology | Prerequisites:  
  - BIOLOGY 151 or 197Q with a grade of ‘C‘ or better  
  - BIOLOGY 152 or 153 with a grade of ‘C‘ or better  
  - CHEM 111, 121 or 121H with a grade of ‘C-‘ or better  
  - CHEM 112, 122 or 122H with a grade of ‘C-‘ or better. |
| BIOLOGY 383H | Gene and Genome Analysis | Prerequisites Either: BIOLOGY 285 or BIOCHEM 285 with a grade of ‘C‘ or better. |
| CHEM 250 | Organic Chemistry | Prerequisites Either: CHEM 110 or 111 with a grade of ‘C‘ or better. |
| CE-ENGIN 371 | Water and Wastewater Management |  |
| CE-ENGIN 462 | Water Resources Engineering and Sustainability | Prerequisites: CE-ENGIN 270& 357 |
| CE-ENGIN 469 | Water Supply & Water Collection | Prerequisites: CE-ENGIN 357& 370 |
| CE-ENGIN 473 | Groundwater | Prerequisites: CE-ENGIN 320, 357, & 370 |
| CE-ENGIN 476 | Solid and Hazardous Waste Management | Prerequisites: CE-ENGIN 370 |
| Corequisite: CE-ENGIN 371 |  |
| ENVISCI 315 | Principles of Environmental Toxicology and Chemistry | Prerequisites: ENVIRSCI 214 & Organic Chemistry (CHEM 250 or 261) |
| ENVISCI 515 | Microbiology of Soil | Prerequisites: CHEM 250 or 261 |
| ENVISCI 530 | Aquatic Toxicology |  |

*Note*:
- Biology 151 was previously Biology 100.
- Biology 152 and 153 were previously Biology 101.
- If you are pre-med or pre-dental or interested in nursing or physician assistant programs, check the requirements in order to choose the correct course sequence.

*Modified 1/29/13*