

Bachelor of Science - Environmental Biology/Plant Biology

Fall 2015

Name: _____ PID: _____ Credits required for graduation: 120

Credits per course and semester[s] offered in parentheses. S: Spring, F: Fall, US: Summer.
Even or Odd: Class is offered in years ending with even or odd number.

University Requirements

20 credits - Note: ISS/IAH courses must be in at least two different Diversity Designations (N, I, D)

WRA 1 _____ (4, F S US)

OR

LB 133 _____ (4, F S)

ISS 2 _____ (4, F S US)

ISS 3 _____ (4, F S US)

IAH 201-210 (4, F S US)

IAH 211 or greater (4, F S US)

Major/College Requirements

Physics: One of the following Course Groups (8 Credits)

PHY 231 Physics I (3, F S) PHY 251 Physics Lab (1, F S US) PHY 232 Physics II (3, F S) PHY 252 Physics Lab II (1, F S US)
Online versions - PHY 231C & PHY 232C also available (3, F S US)

or

PHY 183 Physics for Scientists & Engineers I (4, F S) and PHY 184 Physics for Scientists & Engineers II (4, F S)
Online versions - PHY 183B & PHY 184B also available (4, US)

or

LB 273 Physics I (4, F) and LB 274 Physics II (4, S)

Mathematics: Statistics (3 credits)

STT 231 Statistics for Scientists (3 F S US)

Mathematics: One of the following Calculus Courses (3-4 credits)

MTH 124 Survey of Calculus I (3, F S US)

MTH132 Calculus I (3, F S US)

LB 118 Calculus I (4, F S)

MTH 152H Honors Calculus I (3, F S)

Inorganic Chemistry: One of the following Groups (8-10 credits)

CEM 141 General Chemistry (4, F S)

LB 171 Principles of Chemistry I (4, F)

CEM 181H Honors Chemistry I (4, F)

CEM 142 Gen/Inorg Chemistry (3, F S)

LB 172 Principles of Chemistry II (3, S)

CEM 182H Honors Chemistry II (4, S)

CEM 161 Chemistry Lab I (1, F S)

LB 171L Intro Chemistry Lab I (1, F)

CEM 185H Honors Chemistry Lab I (2, F)

Biological Sciences: One of the following Groups (9-10 credits)

BS 161 Cell & Molec Bio (3, F S US)

BS 181H Honors Cell & Molec Bio (3, S)

BS 171 Cell & Molec Bio Lab (2, F S US)

BS 191H Honors Cell Molec Bio Lab (2, S)

LB 144 Biology I: Organismal Bio (4, F S)

BS 162 Organismal & Pop Bio (3, F S US)

BS 182H Honors Organismal Bio (3, F)

LB 145 Biology II: Cell & Molec Bio (5, F S)

BS 172 Organismal Bio Lab (2, F S US)

BS 192H Honors Organismal Bio Lab (2, F)

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Departmental Requirements

Environmental Biology Core Requirements (33 Credits)

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| <input type="checkbox"/> CSS 210 Fundamentals of Soil Science (3, F S)
<input type="checkbox"/> FW 417 Wetland Ecology & Management (3, F)
<input type="checkbox"/> GEO 221 Intro to Geographic Information (3, F S)
<input type="checkbox"/> ZOL 355 Ecology (3, F S US)
<input type="checkbox"/> ZOL 355L Ecology Lab (1, F S US) | <input type="checkbox"/> PLB 203 Biology of Plants (4, F)
<input type="checkbox"/> PLB 415 Plant Physiology (3, S)
<input type="checkbox"/> PLB 418 Plant Systematics (3, S US)
<input type="checkbox"/> PLB 498 Undergraduate Research (3, F S US)
<input type="checkbox"/> PLB 499 Senior Seminar (1, S) |
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Organic Chemistry: One of the following (4 or 6 credits)

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| <input type="checkbox"/> CEM 143 Survey or Organic Chemistry (4, F S) | <input type="checkbox"/> CEM 251 Organic Chemistry I (3, F S)
<input type="checkbox"/> CEM 252 Organic Chemistry II (3, F S) |
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One of the following Courses (3-4 credits)

One of the following courses (3-4 credits)

One of the following Courses (3 credits)

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| <input type="checkbox"/> CSS 350 Intro to Plant Genetics (3, S)
<input type="checkbox"/> ZOL 341 Fundamentals Genetics
(4, F S US) | <input type="checkbox"/> ENT 404 Fundamentals of Entomology (4, F)
<input type="checkbox"/> PLP 405 Plant Pathology (3, S)★
<input type="checkbox"/> PLP 407 Diseases & Insects of Forest & Shade
Trees (4, S)★ | <input type="checkbox"/> FW 410 Upland Ecosystem Mgmt (3, S) ★
<input type="checkbox"/> FW 444 Conservation Biology (3, S))★ |
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Required: Two 300-400 level courses relating to Environmental Biology approved by the department (6-8 credits)

Approved Environmental Biology Classes

Check with the department for approval for other courses

- CSS 360 Soil Biology (3, F)
- FOR 404 Forest Ecology (3, F)
- FW 410 Upland Ecosystem Mgmt (3, S) ★
- FW 444 Conservation Biology (3, S) ★
- PLB 400 Bioinformatics (3, F even years)
- PLB 402 Biology of Fungi (3, F odd years)
- PLB 424 Algal Biology (4, F even|US odd)
- PLB 434 Plant Structure & Function (4, F even years)
- PLB 441 Plant Ecology (3, F odd years)
- PLB 443 Restoration Ecology (3, F)
- PLP 405 Plant Pathology (3, S)★
- PLP 407 Diseases & Insects of Forest & Shade Trees (4, S)★
- ZOL 440 Field Ecology & Evolution (4, US)
- ZOL 445 Evolution (3, F, S, US)
- ZOL 485 Tropical Biology (3, F)

BS 162/172, STT 224, FW 417, PLB 418, PLB 424, ZOL 355,
ZOL 355L & ZOL 440 are also offered at Kellogg Biological
Station (KBS) during the summer session. KBS offers
scholarships to help cover housing costs.