Bachelor of Science – Environmental Biology/Plant Biology

Fall 2017 updated

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

☐ PHY 241 Physics Cellular & Molecular Biol I (4, F) and ☐ PHY 242 Physics Cellular & Molecular Biol II (4, S)

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 (27 Credits)

- ☐ CSS 210 Fundamentals of Soil Science (3, F S)
- ☐ FW 417 Wetland Ecology & Management (3, F)
- ☐ GEO 221 Intro to Geographic Information (3, F S)
- ☐ IBIO 355 Ecology (3, F S US)
- ☐ IBIO 355L Ecology Lab (1, F S US)
- ☐ PLB 203 Biology of Plants (4, F)
- ☐ PLB 415 Plant Physiology (3, S)
- ☐ PLB 418 Plant Systematics (3, S US)
- ☐ PLB 498 Undergraduate Research (3, F S US)
- ☐ PLB 499 Senior Seminar (1, S)

Organic Chemistry: One of the following (4 or 6 credits)

- ☐ CEM 143 Survey or Organic Chemistry (4, F S)
- ☐ CEM 251 Organic Chemistry I (3, F S)
- ☐ CEM 252 Organic Chemistry II (3, F S)

One of the following Courses (3-4 credits)

- ☐ CSS 350 Intro to Plant Genetics (3, S)
- ☐ ZOL 341 Fundamentals Genetics (4, F S US)

One of the following courses (3-4 credits)

- ☐ ENT 404 Fundamentals of Entomology (4, F)
- ☐ PLP 405 Plant Pathology (3, S)★
- ☐ PLP 407 Diseases & Insects of Forest & Shade Trees (4, S)★

One of the following Courses (3 credits)

- ☐ FW 410 Upland Ecosystem Mgmt (3, S) ★
- ☐ FW 444 Conservation Biology (3, S)★

Two 300-400 level courses relating to Environmental Biology approved by the department (6-8 credits)

Check with the department for approval for other courses

★If not used for major requirements, these courses are approved electives.

- CSS 360 Soil Biology (3, F)
- CSS 455 Pollutants in Soil & Water (3, S)
- CSS 451 Biotech Applic Plant Breeding & Genetics (3, S)
- FOR 404 Forest Ecology (3, F)
- FOR 466 Natural Resources Policy (3, S)
- FW 410 Upland Ecosystem Management (3, S)★
- FW 417 Wetland Ecology & Management (3, F)
- FW 419 Applic GIS Natural Resources (3, S US)
- FW 444 Conservation Biology (3, S)★
- GEO 401 Global Plant Geography (3, F odd)
- IBIO 440 Field Ecology & Evolution (4, US)
- IBIO 485 Tropical Biology (3, F)
- MMG 409 Eukaryotic Cell Biology (3, S)
- PLB MMG 431 Microbial Genetics (3, F)
- PLB 400 Bioinformatics (3, F even)
- PLB 402 Biology of Fungi (4, 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)
- PLB 443 Restoration Ecology (3, F odd)
- PLP 405 Plant Pathology (3, S)★
- PLP 407 Diseases & Insects of Forest & Shade Trees (4, S)★

BS 162/172, STT 224, FW 417, FW 419, PLB 418, PLB 424, IBIO 355/355L & IBIO 440 are also offered at Kellogg Biological Station (KBS) during the summer session.