

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

MTH 124 Survey of Calculus I (3, F S US) MTH 132 Calculus I (3, F S US) LB 118 Calculus I (4, F S) MTH 152H Honors Calculus I (3, F)

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

STT 231 Statistics for Scientists (3, F S US) MTH 126 Survey of Calculus II (3, F S US)
 MTH133 Calculus II (4, F S US) LB 119 Calculus II (4, F S) MTH 153H Honors Calculus II (4, F S)

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

CEM 141/151 General Chemistry I (4, F S) LB 171 Principles of Chemistry I (4, F) CEM 181H Honors Chemistry I (4, F)
 CEM 142/152 Gen Chemistry II (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) LB 144 Biology I: Organismal Bio (4, F S)
 BS 171 Cell & Molec Bio Lab (2, F S US) BS 191H Honors Cell Molec Bio Lab (2, S) LB 145 Biology II: Cell & Molec Bio (5, 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 & Pop Lab (2, F S US) BS 192H Honors Organismal Bio Lab (2, F)

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Plant Biology Core Requirements: All of the following Courses (33 credits)

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| <input type="checkbox"/> PLB 203 Biology of Plants (4, F) <input type="checkbox"/> PLB 415 Plant Physiology (3, S) <input type="checkbox"/> PLB 416L Plant Physiology Lab (2, S) <input type="checkbox"/> PLB 418 Plant Systematics (3, S US) <input type="checkbox"/> PLB 498 Undergrad Research (3, F S US) <input type="checkbox"/> PLB 499 Senior Seminar (1, S) | <input type="checkbox"/> ZOL 341 Fundamental Genetics (4, F S US) <input type="checkbox"/> ZOL 355 Ecology (3, F S US) <input type="checkbox"/> ZOL 355L Ecology Lab (1, F S US) <input type="checkbox"/> ZOL 445 Evolution (3, F S US) <input type="checkbox"/> CEM 251 Organic Chemistry I (3, F S US) <input type="checkbox"/> CEM 252 Organic Chemistry II (3, F S US) |
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Biochemistry: One of the following (4 or 6 credits)

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| <input type="checkbox"/> BMB 401 Comprehensive Biochemistry (4, F S US) | <input type="checkbox"/> BMB 461 Advanced Biochemistry (3, F S) <input type="checkbox"/> BMB 462 Biochemistry II (3, F S) |
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Plant Ecology or Structure/Function Course: One of the following (3-4 credits)

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| <input type="checkbox"/> PLB 441 Plant Ecology (3, F)★ | <input type="checkbox"/> PLB 434 Plant Structure & Function (4, F even years) ★ |
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Cell/Molecular Biology: One of the following (3 credits)

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| <input type="checkbox"/> MMG 409 Eukaryotic Cell Biology (3, S) ★ | <input type="checkbox"/> MMG 431 Microbial Genetics (3, F) ★ |
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Two 300-400 level courses relating to Plant Biology approved by the department (6-8 credits)

Check with the department for approval for other courses

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

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| CSS 360 Soil Biology (3, F) FOR 404 Forest Ecology (3, F) FW 417 Wetland Ecology & Management (3, F) FW 410 Upland Ecosystem Management (3, S) FW 444 Conservation Biology (3, F) MMG 409 Eukaryotic Cell Biology (3, S) ★ MMG 431 Microbial Genetics (3, F) ★ PLB 400 Bioinformatics (3, F even) PLB 402 Biology of Fungi (3, F odd years) | PLB 424 Algal Biology (4, F even US odd) PLB 434 Plant Structure & Function (4, S odd 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) ZOL 440 Field Ecology & Evolution (4, US) ZOL 485 Tropical Biology (3, F) |
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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.