

Botany 2014

Major: Botany

Degree Type: B.A. or B.S.

Required Degree Credits to Graduate: 122

General Education Requirements

First Year Experience (F):

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| UNIV 189 | Skills For Academic Success (Students transferring in 24 or more credits do not need to take UNIV 189.) | 1 |
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Communication (C):

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|----------|---------------------------------|---|
| ENGL 110 | College Composition I | 3 |
| ENGL 120 | College Composition II | 3 |
| ENGL 324 | Writing in the Sciences | 3 |
| COMM 110 | Fundamentals of Public Speaking | 3 |

Quantitative Reasoning (R):

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| STAT 330 | Introductory Statistics | 3 |
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Science & Technology (S):

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| | | 10 |
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The 10 credits required in the Science and Technology category will be fulfilled with requirements of the major.

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|---|---|
| Humanities & Fine Arts (A): Select from current general education list | 6 |
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| Social & Behavioral Sciences (B): Select from current general education list | 6 |
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|---|---|
| Wellness (W): Select from current general education list | 2 |
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| Cultural Diversity (D): Select from current general education list | |
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| Global Perspectives (G): Select from current general education list | |
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| Total Credits | 40 |
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College Requirements

Bachelor of Science (BS) Degree – An additional 6 credits in Humanities or Social Sciences*

Bachelor of Arts (BA) Degree – An additional 12 credits Humanities and Social Sciences* and proficiency at the second year level in a modern foreign language.

* Humanities and Social Sciences may be fulfilled by any course having the following prefix: ADHM, ANTH, ARCH, ART, CJ, CLAS, COMM, ECON, ENGL, FREN, GEOG, GERM, HDFS, HIST, LA, LANG, MUSC, PHIL, POLS, PSYC, RELS, SOC, SPAN, THEA, WGS, or any course from the approved list of general education courses in humanities and social sciences (general education categories A and B). These credits must come from outside the department of the student's major.

Major Requirements

Except for courses offered only as pass/fail grading, no course may be taken Pass/Fail.

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| General Education Requirements | 40 |
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| Science and Mathematics College Requirements | 6-12 |
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Botany Core Requirements

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|--------------------|---|---|
| BIOL 150 & 150L | General Biology I and General Biology I Laboratory | 4 |
| BIOL 151 & 151L | General Biology II and General Biology II Laboratory | 4 |
| BIOL 359 | Evolution | 3 |
| BOT 314 | Plant Systematics | 3 |
| BOT 315 & 315L | Genetics and Genetics Laboratory | 4 |
| BOT 460 | Plant Ecology | 3 |
| BOT 372 | Structure and Diversity of Plants and Fungi | 4 |
| BOT 491 | Seminar | 2 |

Major Electives: Select 11 credits from the following: 11

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| BIOL/ZOO 364 | General Ecology |
| BIOL 480 | Ecotoxicology |
| BIOL 481 | Wetland Science |
| BOT 380 | Plant Physiology |
| ZOO 370 | Cell Biology |
| ZOO 380 | Vertebrate Histology |
| ZOO 460 | Animal Physiology |
| ZOO 464 | Endocrinology |
| ZOO 482 | Developmental Biology |
| ZOO 280 | Comparative Chordate Morphology |
| ZOO 360 | Animal Behavior |
| ZOO 452 | Ichthyology |
| ZOO 454 | Herpetology |
| ZOO 456 | Ornithology |
| ZOO 458 | Mammalogy |
| ZOO 462 | Physiological Ecology |
| ZOO 476 | Wildlife Ecology and Management |
| ZOO 477 | Wildlife and Fisheries Management Techniques |

Related Required Courses

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| Chemistry: | | |
| CHEM 121 & 121L | General Chemistry I and General Chemistry I Laboratory | 4 |
| CHEM 122 & 122L | General Chemistry II and General Chemistry II Laboratory | 4 |
| Organic Chemistry and Biochemistry: Select one group from the following: | | 7-10 |
| Group 1: | | |
| CHEM 240 | Survey of Organic Chemistry | |
| CHEM 260 | Elements of Biochemistry | |
| Group 2: | | |
| CHEM 341 & 341L | Organic Chemistry I and Organic Chemistry I Laboratory | |
| CHEM 342 | Organic Chemistry II | |
| BIOC 460 | Foundations of Biochemistry and Molecular Biology I | |
| Math: | | |
| MATH 146 | Applied Calculus I | 4 |
| Physics: | | |
| PHYS 211 & 211L | College Physics I and College Physics I Laboratory | 4 |
| PHYS 212 & 212L | College Physics II and College Physics II Laboratory | 4 |

Degree Requirements: Potential of 21 credits to reach 122 21

Total Credits 122-131

Department and College Requirements

- Students may not minor in biology or botany with this major