

Botany Major: Track B Field Botany Emphasis

Program Prerequisite: Not required.

Minor: A minor is required.

Grade Requirements: An overall GPA of 2.00 in all courses required for the major.

Botany Core Courses Required (19 credit hours)

BTNY LS1403 Environment Appreciation (3)
 or BTNY 3403 Environment Appreciation (3)
BTNY 2104 Plant Form and Function (4)
BTNY 2114 Evolutionary Survey of Plants (4)
BTNY 2121 Career Planning for Botanists (1)
BTNY DV2303 Ethnobotany (3)
BTNY 2600 Laboratory Safety (1)
BTNY 4980 Portfolio Summative Assessment (3)

Additional Botany Courses Required (17 credit hours)

BTNY 2413 Introduction to Natural Resource Management (3)
BTNY 3214 Soils (4)
BTNY 3454 Plant Ecology (4)
BTNY 3624 Taxonomy of Vascular Plants (4)
BTNY 4950 Advanced Field Botany (2)

Elective Botany Courses (11 credit hours minimum)

BTNY 2203 Home and Garden Plants (3)
BTNY 3105 Anatomy and Morphology of Vascular Plants (5)
BTNY 3153 Biology of the Plant Cell (3)
BTNY 3204 Plant Physiology (4)
BTNY 3303 Plant Genetics (3)
BTNY 3473 Plant Geography (3)
BTNY 3504 Mycology (4)
BTNY 3514 Algology (4)
BTNY 3523 Marine Biology (3)
BTNY 3583 Herbal Medicines (3)
BTNY 3643 Intermountain Flora (3)
BTNY 4113 Plant Evolution (3)
BTNY 4252 Cell Culture (2)
BTNY 4750 Topics in Botany (2)
BTNY 4800 Individual Research (2)
 or BTNY 4850 Thesis Research (2)
BTNY 4830 Readings in Botany (2)
 or BTNY 4840 Thesis Readings (2)
BTNY 4890 Cooperative Work Experience (5)
BTNY 4990 Seminar in Botany (1)
 or BTNY 4970 Botany Thesis (2)

Required Support Courses (20-40 credit hours)

CHEM PS1050 Introduction to General, Organic & Biochemistry (5)
 or CHEM PS1110 Elementary Chemistry (5) and CHEM 1120 Elementary Organic Biochemistry (5)
 or CHEM PS1210/1220 Principles of Chemistry I & II (10) and CHEM 2310 Organic Chemistry I (5)
GEO PS/SI1110 Dynamic Earth: Physical Geology (3)*
 or GEOG PS1000 Natural Environments of the Earth (3)
MATH QL1040 Introduction to Statistics (3)
 or MATH QL1050 College Algebra (4)
PHYS PS1010 Elementary Physics (3)
 or PHYS PS2010/2020 College Physics I & II (10)
 or PHYS PS2210/2220 Physics for Scientists & Engineers (10)

Select One Group:

MICR LS2054 Principles of Microbiology (4) & MICR 3484 Environmental Microbiology (4)
 or
GEO 1115 Physical Geology Lab (1) & GEO 1220 Historical Geology (4) & GEO 2050 Earth Materials (4)
 or
GEO 1115 Physical Geology Lab (1)* & GEO 3400 Remote Sensing I (4)* & GEO 4210 Intro to Computer Mapping & Geographic Info Systems (4)*
 or
GEOG 3450 Cartography (3) & GEOG 3460 Advanced Cartography (3)
 or
ZOOL 1110 Principles of Zoology I (4) & ZOOL 1120 Principles of Zoology II (4)

**Students in Track B who are interested in pursuing an institutional certificate in Geomatics rather than a minor in Geospatial Analysis are encouraged to meet with the Botany department chair and the Geomatics advisor.*