

Botany Major: Track A, Option 1

Laboratory Emphasis or Graduate School Preparation

Program Prerequisite: Not required.

Minor: A minor is required. Botany majors in Track A, Option 1 will meet the requirements for a minor in Chemistry.

Grade Requirements: An overall GPA of 2.00 in all courses required for the major. Meeting the minimum GPA does not guarantee admission to graduate or professional schools.

Botany Core Courses Required (22-23 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 3303 Plant Genetics (3)
BTNY 4980 Portfolio Summative Assessment (3)

Additional Botany Courses Required (9 credit hours)

BTNY 3105 Anatomy and Morphology of Vascular Plants (5)
BTNY 3204 Plant Physiology (4)

Elective Botany Courses (16 credit hours minimum)

BTNY 2203 Home and Garden Plants (3)
BTNY 2413 Introduction to Natural Resource Management (3)
BTNY 3153 Biology of the Plant Cell (3)
BTNY 3214 Soils (4)
BTNY 3454 Plant Ecology (4)
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 3624 Taxonomy of Vascular Plants (4)
BTNY 4113 Plant Evolution (3)
BTNY 4252 Cell Culture (2)
BTNY 4750 Topics in Botany (2)

BTNY 4800 Individual Research (3)
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 4950 Advanced Field Botany (2)
BTNY 4970 Botany Thesis (2)
or BTNY 4990 Seminar in Botany (1)

Required Support Courses (44-49 credit hours)

CHEM PS1210/1220 Principles of Chemistry I & II (10)
CHEM 2310/2320 Organic Chemistry I & II (10)
CHEM 3000 Quantitative Analysis (4)
or CHEM 3070 Biochemistry I (4)
MATH QL1050/1060 College Algebra & Trigonometry (7)
or MATH QL1080 Pre-Calculus (5)
or MATH QL SI1210 Calculus I (4)
or MATH QL1040 Introduction to Statistics (3)
PHYS PS2010/2020 College Physics I & II (10)
or PHYS PS2210/2220 Physics for Scientists & Engineers (10)

Select two of the following:

GEO PS1110 Dynamic Earth: Physical Geology (3)
or GEOG PS1000 Natural Environments of the Earth (3)
MICR LS2054 Principles of Microbiology (4)
ZOO 1110 Principles of Zoology I (4)
ZOO 1120 Principles of Zoology II (4)

Calculus and Statistics are recommended.