Botany Major: Track B  
Field Botany Emphasis

Program Prerequisites: Not required.
Minor: A minor is required.
Grade Requirements: An overall GPA of 2.00 in all courses required in 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 2303 - 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 (1-5)
- 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 (1-3)
- BTNY 4970 - Botany Thesis (2)
  - or BTNY 4990 - Seminar in Botany (1)

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 (4) and CHEM 2315 - Organic Chemistry I Lab (1)
- GEO PS1110 - Dynamic Earth: Physical Geology
  - or GEOG PS1000 - Natural Environments of the Earth
- 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 and Engineers I & II (10)

Select One Group:

- MICR LS2054 - Principles of Microbiology (4) and
  - MICR 3484 - Environmental Microbiology (4)
  - or GEO 1115 - Physical Geology Lab (1) and GEO 1220 - Historical Geology (4) and GEO 2050 - Earth Materials (4)
  - or GEO 1115 - Physical Geology Lab (1) * and GEO 3400 - Remote Sensing I (4) * and GEO 4210 - Introduction to Computer Mapping and Geographic Information Systems (4) *
  - or GEOG 3450 - Cartography (3) and GEOG 3460 - Advanced Cartography (3)
  - or ZOOL LS1110 - Principles of Zoology I (4) and 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.

To see a suggested full time, four year (8 semester) class schedule, search for GRAD MAPS at the Weber State University home page (weber.edu).