BS in Biodiversity & Conservation (282025) MAP Sheet  
Life Sciences, Biology  
For students entering the degree program during the 2022-2023 curricular year.

University Core and Graduation Requirements  
University Core Requirements:  
Requirements#ClassesHoursClasses  
Religion Cornerstones  
Teachings and Doctrine of The Book of Mormon1.0REL A 275  
Jesus Christ and the Everlasting Gospel1.0REL A 250  
Foundations of the Restoration1.0REL C 225  
The Eternal Family1.0REL C 200  
The Individual and Society  
American Heritage1-23.0 from approved list  
Global and Cultural Awareness13.0 from approved list  
Skills  
First Year Writing13.0 from approved list  
Advanced Written and Oral Communications13.0 from approved list  
Quantitative Reasoning13-4.0 from approved list  
Languages of Learning (Math or Language)13.0 STAT 121  
Arts, Letters, and Sciences  
Civilization 113.0 from approved list  
Civilization 213.0 from approved list  
Arts13.0 from approved list  
Letters13.0 from approved list  
Biological Science14.0 BIO 130*  
Physical Science27.0 CHEM 105* + PHSCS 105*  
Social Science13.0 from approved list  
Core Enrichment: Electives  
Religion Electives3-46.0 from approved list  
Open ElectivesVariableVariable personal choice  
*THESE CLASSES FILL BOTH UNIVERSITY CORE AND PROGRAM REQUIREMENTS (12 hours overlap)  
Graduation Requirements:  
Minimum residence hours required30.0  
Minimum hours needed to graduate120.0  
Suggested Sequence of Courses  
Freshman Year  
1st Semester  
First-year Writing or American Heritage3.0  
PHSCS 1053.0  
BIO 1304.0  
Quantitative Reasoning3.0  
Religion Cornerstone course2.0  
Total Hours15.0  
2nd Semester  
First-year Writing or American Heritage3.0  
Civilization 1 elective3.0  
CHEM 1054.0  
General elective3.0
Religion Cornerstone course 2.0
Total Hours 15.0
Sophomore Year
3rd Semester
BIO 2204.0
BIO 2644.0
MMBIO 2403.0
Civilization 2 elective 3.0
Religion cornerstone course 2.0
Total Hours 16.0
4th Semester
BIO 2304.0
General Elective 3.0
Arts or Letters elective 3.0
Religion Cornerstone course 2.0
Social Science elective 3.0
Total Hours 16.0
Junior Year
5th Semester
Physical Sci elective 3.0
PWS 3403.0
BIO 3503.0
Religion elective 2.0
Adv. Written & Oral Communication elective 3.0
Mentored Research 2.0
Total Hours 16.0
6th Semester
Major Electives 3.0
Religion Elective 2.0
Biodiversity & Cons. Courses 6.0
Languages of Learning Elective 4.0
Total Hours 15.0
Senior Year
7th Semester
BIO 4204.0
Biology electives 3.0
Biodiversity & Cons. Courses 6.0
Religion Elective 2.0
Total Hours 15.0
8th Semester
Religion elective 2.0
Biology electives 5.0
Global & Cultural Awareness elective 3.0
Arts or Letters elective 3.0
Total Hours 13.0

Note: This degree program requires a minimum of 120.0 hours for graduation. Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.

BS in Biodiversity & Conservation (282025) 2022-2023 Program Requirements (60 Credit Hours)
requirement 1 Complete 11 courses
*BIO 130 - Biology 4.0
BIO 220 - Biological Diversity: Animals 4.0
BIO 230 - Biological Diversity: Plants 4.0
BIO 264 - Statistical Analysis for Biologists 4.0
BIO 350 - Ecology 3.0
BIO 420 - Evolutionary Biology 4.0
BIO 450 - Capstone in Biodiversity and Conservation 3.0
CHEM 105 - General College Chemistry 1 with Lab (Integrated) 4.0
MMBIO 240 - Molecular Biology 3.0
PHSCS 105 - General Physics 1 3.0
PWS 340 - Genetics 3.0

requirement 2 Complete 2.0 hours from the following course(s)
Complete at least 2.0 credit hours. More may be taken if desired but will not count toward the major credits.
BIO 194 - Introduction to Mentored Research 0.5
BIO 494R - Mentored Research 6.0v
You may take up to 2 credit hours.

requirement 3 Complete 11.0 hours from the following course(s)
Biodiversity and conservation courses:
BIO 235 - Field Botany 3.0
BIO 430 - Plant Classification and Identification 4.0
BIO 441 - Entomology 3.0
BIO 443 - Ichthyology 3.0
BIO 445 - Herpetology 4.0
BIO 447 - Mammalogy 3.0
BIO 452 - Marine Biology 4.0
BIO 455 - Plant Ecology 3.0
BIO 520 - Symbiosis 3.0
PWS 446 - Ornithology 3.0

requirement 4 Complete 8.0 hours from the following course(s)
Elective courses - complete AT LEAST 8.0 hours. (Note: Either BIO 370 or PHIL 212R can be used to partially fulfill this requirement, but not both.)
BIO 120 - Field Biology 3.0
BIO 165 - Introduction to Bioinformatics 3.0
BIO 280 - Comparative Animal Physiology and Anatomy 4.0
BIO 316 - Advanced Scientific Writing and Communication 3.0
BIO 370 - Bioethics 2.0
BIO 468 - (Bio-MMBio-PWS) Genomics 3.0
BIO 470 - History and Philosophy of Biology 3.0
BIO 510 - Biological Systematics and Curation 3.0
BIO 511 - Lichenology 3.0
BIO 555 - Evolutionary and Ecological Modeling 2.0
BIO 557 - Stream and Wetland Ecology 4.0
BIO 560 - Population Genetics 4.0
ECON 440 - Natural Resources and Environmental Economics 3.0
GEOG 211 - Mapping Your World 3.0
GEOG 212 - Introduction to Geographic Information Systems 3.0
GEOG 303 - Biogeography 3.0
MATH 112 - Calculus 1 4.0
MMBIO 468 - (MMBio-Bio-PWS) Genomics 3.0
THE DISCIPLINE
We all depend on the diversity of life for personal and societal survival. We need all forms of life for the beauty it holds, the food it gives, the life-saving drugs it provides, the clean water we use, or any number of other valid and important reasons. The services that healthy ecosystems perform, if only from our human perspective, are immense and irreplaceable. Conservation Biology deals with identification, protection, maintenance, development, and restoration of the earth’s biological diversity (biodiversity), including genetic diversity within species, species richness in different regions, and the diversity of ecological communities. This focus differs substantially from traditional wildlife management and forestry-range programs in two fundamental ways: (1) it seeks to protect all life on earth; and (2) it seeks to preserve biological processes (ecological and evolutionary interactions) that generate and maintain biodiversity over the long-term. Our program offers a large number of natural history courses (botany, mammalogy, entomology, etc.) and includes courses relevant to policy, management, ethical, and socioeconomic factors.

SUPPORTING MINORS
Students majoring in conservation biology should consider completing a minor to strengthen their technical or applied sociological skills. Possible minors in anthropology, geography (geography; geographic information systems; urban and environmental planning), international development, management (global management), political science, recreation management and youth leadership (nonprofit management), sociology, global women’s studies.

RESEARCH OPPORTUNITIES
Students in this program conduct research projects with professors in many departments and with expertise at all scales of modern conservation biology. Projects range from those focusing on genetic variation within key species of concern to inventorying species, communities, and ecosystems locally, regionally, and around the world. Others carefully examine interactions between species and their environments. Our students provide scientific information to aid government and private institutions in making decisions of how best to maintain, develop, and restore biodiversity resources at all these levels, while others work to improve biological science education curricula in local public schools. We have great museum and data-based resources, and links with communities worldwide to gather, store, and use information on distribution of many kinds of living organisms. Many students choose to study conservation biology simply for the intrinsic joy and beauty it brings to their lives. Our students participate in all these efforts.

INTERNSHIPS, CO-OP ED, PRACTICAL EDUCATION:
Common experiences for our students include participating in extended field trips with faculty, assisting with long-term research and museum curation or education projects, participating in international exchange programs, working as volunteer interns and performing community outreach education. Many of our students planning on medical and dental careers use these opportunities to enhance their knowledge of key conservation issues and involvement in programs combining the “natural” world with their interests in human health and well-being. As a result of participation in research projects, many students present papers or posters with faculty sponsors at scientific meetings, and co-author papers in peer-reviewed journals.

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MAP DISCLAIMER
While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

DEPARTMENT INFORMATION
Department of Biology
Brigham Young University
4101 Life Sciences Building
Provo, UT 84602
Telephone: (801) 422-2582

ADVISEMENT CENTER INFORMATION

**Life Sciences Advisement**
Brigham Young University
2060 Life Sciences Building
Provo, UT 84602
Telephone: (801) 422-3042