

COURSE REQUIREMENTS FOR BACHELOR OF SCIENCE IN BOTANY

1. THE GENERAL EDUCATION AND TOTAL UNIVERSITY CREDIT REQUIREMENTS MUST BE MET (See Note 1 below). 128 total minimum credits are required for graduation. 36 of these must be upper division credits.

| 2. COURSES IN BIOLOGICAL SCIENCES: | NUMBER OF CREDITS |
|--|-------------------|
| BIOL 101 Biology I | 4 |
| BIOL 102 Biology II | 4 |
| BIOS 206 Cell Biology | 4 |
| BIOS 209 General Ecology | 4 |
| BIOS 315 Introduction to Biometry ² | 3 |
| BIOS 358 General Genetics | 3 |
| BIOS g404 Plant Physiology | 4 |
| BIOS g406 Plant Diversity and Evolution | 4 |
| BIOS g408 Plant Ecology | 3 |
| BIOS g412 Systematic Botany | 4 |
| BIOS g417 Organic Evolution | 3 |
| BIOS 491,492 Seminar | 2 |
| And at least 6 credits from the following upper division Botany electives: | |
| BIOS 313 Plants and Human Prospects | 3 |
| BIOS g405 Plant Form and Function | 3 |
| BIOS g416 Population and Community Ecology | 3 |
| BIOS g409 Plant/Animal Interactions | 3 |
| BIOS g489 Field Ecology | 3 |
| BIOS g481/g482 Independent Problems | 1-6 |
| BIOS 493 Senior Thesis | 1-6 |
| 3. COURSES IN MATHEMATICS | |
| MATH 160 Brief Calculus ³ | 4 |
| 4. COURSES IN CHEMISTRY and PHYSICS ⁴ | |
| CHEM 111 General Chemistry I | 5 |
| CHEM 112 General Chemistry II | 4 |
| CHEM 301,303 Organic Chemistry I, Lab | 4 |
| PHYS 111,113 General Physics I, Lab | 4 |

Notes:

1. Students pursuing a Bachelor of Science degree must satisfy goals 1, 2, 3, 4, and 5, two of goals 6, 7, and 8, and three of goals 9, 10, 11, and 12. Goal 10 may be satisfied by either 10A or 10B.
2. The requirement for BIOS 315 may be satisfied by taking MATH 253.
3. MATH 170 may be substituted for MATH 160. MATH 160 has a prerequisite of MATH 143. MATH 170 has a prerequisite of MATH 147 (or MATH 143 & 144). Prerequisite requirements may be satisfied by the Mathematics placement exam.
4. Students planning on pursuing advanced degrees are strongly advised to take CHEM 302, 304 or BIOS 432, and PHYS 112, 114.

