To be adopted:

Proposed Changes in the B.A. and B.S. Degrees in Botany and Plant Sciences

Present

Major Requirements
The major requirements for the B.S. and B.A. degrees in Botany and Plant Sciences are as follows:
1. Life Sciences Core Requirements (65-68 units)
   Students must complete all required courses with a grade of "C-" or better and with a cumulative GPA in the core courses of at least 2.0. Grades of "D" or "F" in two core courses, either separate courses or repetitions of the same course, are grounds for discontinuation from the major.
   a) BIOL 005A, BIOL 05LA, BIOL 005B, BIOL 005C
   b) CHEM 001A-CHEM 001B-CHEM 001C and CHEM 112A-CHEM 112B-CHEM 112C
   c) MATH 009A-MATH 009B (MATH 009C recommended)
   d) PHYS 002A, PHYS 002B, PHYS 002C, PHYS 02LA, PHYS 02LB, PHYS 02LC
   e) STAT 100A or STAT 105 or STAT 120A (STAT 120A is strongly recommended)
   f) BCH 100 or BCH 110A (BCH 110A is strongly recommended)
   NOTE: For the B.S. degree, courses in Statistics and Biochemistry taken as part of the core may count toward the 24 units from an area of specialization. For the B.A. degree, courses in Statistics and Biochemistry taken as part of the core may not count toward the 16 units required from an area of specialization.
2. Upper-division requirements (36-52 units)
   A GPA of at least 2.0 in upper-division courses taken in the field of the major is a graduation requirement. A student is subject to discontinuation from the major whenever the GPA in upper-division course work is below 2.0. Students finding themselves in this circumstance must meet with an advisor.
   a) BIOL 102
   b) BPSC 104/BIOL 104
   c) Three courses from the following: BIOL 107A, BPSC 132/BIOL 132, BPSC 135, BPSC 138/BIOL 138, BPSC 143/BIOL 143, BPSC 146
   d) For the B.S. 24 units from one of the four areas of specialization (consult with a faculty advisor) and additional upper-division courses in biological sciences and related areas from any of the areas of specialization lists, and students may apply a maximum of 6 units of BPSC 190 and/or BPSC 197 (alone or in combination) to bring total units to 52.
   For the B.A. 16 units from one of the four areas of specialization (consult with a faculty advisor) and 2 units of BPSC 197.

Proposed

Major Requirements
The major requirements for the B.S. and B.A. degrees in Botany and Plant Sciences are as follows:
1. No change
2. No change
   a) No change
   b) No change
   c) No change
   d) For the B.S. 24 units from one of the four areas of specialization (consult with a faculty advisor) and additional upper-division courses in biological sciences and related areas from any of the areas of specialization lists, and students may apply a maximum of 6 units of BPSC 190 and/or BPSC 197 and/or BPSC 198I to bring total units to 52.
   For the B.A. 16 units from one of the four areas of specialization (consult with a faculty advisor) and 2
Areas of Specialization

Individual student career goals may be achieved by selecting an area of specialization within the diverse disciplines of botany and plant sciences. Adjustments within these programs can be made to accommodate students' interests. Students must consult with a faculty advisor to clarify educational goals and to plan a program of study.

1. Plant Cellular, Molecular, and Developmental Biology (Genetics, Biotechnology): BCH 102, BCH 110A, BCH 110B, BCH 110C or BIOL 107A, BCH 162, BCH 183, BCH 184, BIOL 105, BIOL 107B, BIOL 108, BIOL 115, BIOL 121A/MCBL 121A, BIOL 121B/MCBL 121B, BIOL 121L/MCBL 121L, BPSC 135, BPSC 144, BPSC 148, BPSC 150, BPSC 153/BCH 153 or BIOL 109, BPSC 155/BCH 155, BIOL 185/BCH 185, CBNS 101, CBNS 128/BIO 128, CBNS 150/ENTX 150, CHEM 109, ENTM 100/BIO 100, ENTM 112/BIO 112/BPSC 112, ENSC 100, ENSC 100L, NEM 120, NEM 159/BIO 159, PLPA 120/BIO 120/MCBL 120, PLPA 134/BIO 134, PLPA 134L/BIO 134L, STAT 120A, STAT 120B, SWSC 100L


4. Pest Management, Plant Pathology, and Nematology: BCH 183, BIOL 121A/MCBL 121A, BIOL 121B/MCBL 121B, BIOL 121L/MCBL 121L, BPSC 146, BPSC 150, BPSC 158, BPSC 166, ENTM 100/BIO 100, ENTM 109, ENTM 124, ENTM 127/BIO 127, ENTM 129, units of BPSC 197.

Note: No change
JUSTIFICATION

2. d): New course BPSC 198I is included as an option.

Areas of Specialization:

1. BIOL 148 is cross listed with BPSC 148. ENSC 120/SWSC 120 are cross listed with NEM 120.
2. BPSC 150, Principles of Plant Breeding, is an appropriate course for this category.
3. BIOL 118 is deleted and replaced with new courses BIOL 116, BIOL 116L, BIOL 116M/BPSC 116M.
   BPSC 150, Principles of Plant Breeding, is an appropriate course for this category.
4. ENSC 120/SWSC 120 are cross listed with NEM 120.

Effective: Fall 2003

Approved by the Botany and Plant Sciences Faculty: March 3, 2003
Approved by the CNAS Executive Committee: April 2, 2003
Approved by the Committee on Educational Policy: April 10, 2003