To be Adopted:

Proposed Changes to Major Requirements for the B.A. Degree and B.S. Degree in Botany and Plant Sciences

PRESENT

PROGRAMS OF SPECIALIZATION

Individual student career goals may be achieved by selection of a program of specialization within the diverse disciplines of botany and plant science.

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. Suggested programs of specialization within the Botany/Plant Sciences major are shown below. Students should select 16 units from among the courses listed.

1. Plant Cellular and Molecular Biology (Genetics, Biotechnology):

2. Organismal Botany/Plant Sciences (Anatomy, Development, Morphology, Physiology, Systematics, Taxonomy):
BPSC 135, BPSC 144, BPSC 153/BCH 153/BIOI 153, BIOI 156, BPSC 185/BCH 185, BIOL 107, BCH 102, BCH 183, SLSC 102, STAT 120A-STAT 120B

PROPOSED

PROGRAMS OF SPECIALIZATION

Individual student career goals may be achieved by selection of a program of specialization within the diverse disciplines of botany and plant science.

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. Suggested programs of specialization within the Botany/Plant Sciences major are shown below. Students should select 16 units from among the courses listed.

1. Plant Genetics, Cellular, and Molecular Biology (Biotechnology):

2. Organismal Botany/Plant Sciences (Anatomy, Biochemistry, Development, Morphology, Physiology, Systematics, Taxonomy):
BPSC 103, BPSC 135, BPSC 144, BPSC 153/BCH 153/BIOI 153, BPSC 155, BPSC 185/BCH 185, BIOI 107A-BIOI 107B, BIOI 111, BIOI 120/PLPA 120, BIOI 121A/MCBL 121A-BIOI 121B/MCBL 121B, BIOI 121L/MCBL 121L, BIOI 123/PLPA 123, BIOI 134/PLPA 134, BIOI 134L/PLPA 134L, BIOI 159/NEM 159, BCH 102, BCH 183, ENSC 100, ENSC 100L, SLSC 100L, SLSC 102, SLSC 111, STAT 120A-STAT 120B-STAT 120C
3. Ecology, Agriculture, and Natural Resources
(Population Biology, Ecology, Evolution, Agroecology, Horticulture):
BPSC 101, BPSC 102, BPSC 103, BPSC 122, BPSC 146, BPSC 150, BPSC 170/ANTH 170, BIOL 105, BIOL 108, BIOL 117, BIOL 118, BIOL 127, BCH 102, BCH 183, STAT 120A-STAT 120B

4. Plant Pathology/Nematology:
BPSC 103, BPSC 146, BPSC 150, BIOL 121A-BIOL 121B, BIOL 121L, PLPA 120, PLPA 134, NEM 120, NEM 159

3. Ecology, Agriculture, and Natural Resources
(Population Biology, Ecology, Evolution, Agroecology, Horticulture):
BPSC 101, BPSC 102, BPSC 103, BPSC 122, BPSC 146, BPSC 150, BPSC 170/ANTH 170, BIOL 105, BIOL 108, BIOL 117 or BIOL 127/ENTM 127, BIOL 118, BIOL120/PLPA 120, BIOL120L/PLPA 120L, BIOL134/PLPA 134, BIOL134L/PLPA 134L, BIOL159/NEM 159, BCH 102, BCH 183, ENSC 100, ENSC 100L, SLSC 100L, SLSC 102, STAT 120A-STAT 120B-STAT 120C

4. Pest Management/Plant Pathology/Nematology:
BPSC 102, BPSC 4103, BPSC 146, BPSC 150, BIOL 121A/MCBL121A-BIOL121B/MCBL 121B, BIOL121L/MCBL 121L, BIOL120/PLPA 120, BIOL120L/PLPA 120L, BIOL127/ENTM 127, BIOL134/PLPA 134, BIOL159/NEM 159, BCH 183, ENSC 100, ENSC 100L, SLSC 100L, ENTM 124, ENTM 129, ENTM 129L, NEM 120.

JUSTIFICATION:

The Department has not reviewed the course lists for the specializations in a number of years. With the re-organization of the College, we reviewed our areas of specialization. The courses being added have been identified by the faculty as pedagogically important to the revised specializations. These changes reflect the changes in how Botany and Plant Sciences is now being taught across the nation and draw on the strengths of other programs. This will better prepare our students for employment with a B.S./B.A. or for graduate school. Changes in title, which include: moving Genetics from the sub-title to the main title of Specialization 1, adding Biochemistry to the sub-title of Specialization 2, and adding Pest Management to the title of Specialization 4 were done to increase the breadth of training we want to make available to our students.

Approved by: Department of Botany and Plant Sciences: 4/21/99
Approved by CNAS Executive Committee: 5/3/99
Approved by Committee on Educational Policy: 10/12/99