To be adopted:

Proposed changes to the Requirements for Bachelor of Arts and the Bachelor of Science degrees in Botany and Plant Sciences:

<table>
<thead>
<tr>
<th>Present: Degree Requirements</th>
<th>Proposed: Degree Requirements</th>
</tr>
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<tbody>
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<td>University requirements</td>
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Some of the following requirements for the major may also fulfill some of the College’s breadth requirements. Consult with a department advisor for course planning.

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**For the Bachelor of Arts**

1. Lower-division requirements (49 units)
   - a) BIOL 005A, BIOL 005B, BIOL 005C
   - b) PHYS 002A, PHYS 002B, PHYS 002C, PHYS 02LA-PHYS 02LB-PHYS 02LC
   - c) CHEM 001A-CHEM 001B-CHEM 001C
   - d) MATH 009A-MATH 009B (MATH 009C recommended)
   - e) STAT 020

2. Upper-division requirements (56-63 units)
   - a) CHEM 112A-CHEM 112B-CHEM 112C
   - b) BCH 100 or BCH 110A-BCH 110B-BCH 110C
   - c) BIOL 102

**For the Bachelor of Arts**

1. Life Sciences Core Curriculum (53 units)
   - a) BIOL 005A, BIOL 005B, BIOL 005C
   - b) PHYS 002A, PHYS 002B, PHYS 002C, PHYS 02LA-PHYS 02LB-PHYS 02LC
   - c) CHEM 001A-CHEM 001B-CHEM 001C
   - d) MATH 009A-MATH 009B (MATH 009C recommended)
   - e) STAT 020 or STAT 100A or STAT 105 or STAT 120A (STAT 120A strongly recommended)
   - f) BCH 100 or BCH 110A (BCH 110A strongly recommended)

2. Upper-division requirements (52-59 units)
   - a) CHEM 112A-CHEM 112B-CHEM 112C
   - b) BIOL 102
   - c) BPSC 130/BIOL 130, BPSC 132/BIOL 132,
d) BPSC 130/BIOL 130, BPSC 132/ BIOL 132, BPSC 138/BIOL 138, BPSC 143/BIOL 143

e) Two (2) units of BPSC 197 (Research for Undergraduates)

f) Sixteen (16) units in one program of specialization (Consult with a faculty advisor)

For the Bachelor of Science

1. Life Sciences Core Curriculum (53 units)
   (Same as for the B.A. degree)

2. Upper-division requirements include the requirements for the B.A. and, in addition, 16 units in upper-division courses or substantive lower-division courses in one or more fields related to the major.

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 additional units from among the courses listed.

1. Plant Genetics, Cellular, and Molecular Biology (Biotechnology):
   BPSC 135, BPSC 144, BPSC 148, BPSC 150, BPSC 153/BCH 153/BIOL 153 or BIOL 109, BPSC 155/BIO
   105, BIOL 107A-BIOL 107B, BIOL 108, BIOL 111, BIO
   L112/BPSC 112/ENTM 112, BIOL 115, BIOL120/PLPA 120, BIOL 121A/MCBL121A-BIOL 121B/MCBL
   121B, BIOL 121L/MCBL 121L, BIOL 128, BIOL 134/PLPA 134, BIOL 134L/PLPA 134L, BIOL 150,
   BCH 102, BCH 110A-BCH 110B, BCH 110C, BCH 162, BCH 163, BCH 183, CHEM 109, ENSC 100,
   ENSC 100L, SLS 100L, NEM 120, NEM 159, STAT 120A-STAT 120B-STAT 120C

2. Organismal Botany/Plant Sciences (Anatomy, Biochemistry, Development, Morphology, Physiology, Systematics, Taxonomy):
   BPSC 103, BPSC 135, BPSC 144, BPSC 153/BCH 153/BIOL 153, BPSC 155, BPSC 185/BCH185, BIOL
   107A-BIOL 107B, BIOL 111, BIOL 120/PLPA 120, BIOL 121A/MCBL121A-BIOL 121B/MCBL 121B,
   BIOL 121L/MCBL 121L, BIOL 123/PLPA 123, BIOL 134/PLPA 134, BIOL 134L/PLPA 134L, BIOL 159/NE
   M 159, BCH 102, BCH 183, ENSC 100L, ENSC 100L, NEM 120, NEM 159, STAT 120A-STAT 120B-STAT 120C

BPSC 138/BIOL 138, BPSC 143/BIO 143

e) Two (2) units of BPSC 197 (Research for Undergraduates)

f) Sixteen (16) units in one program of specialization (Consult with a faculty advisor)
Justification:

The proposed changes resulted from the Department's annual review of requirements for the degree. There are no substantive changes, only minor revisions to strengthen the students' preparation for graduate school (i.e., the recommendations for STAT 120A and BCH 110A) and to include additional courses in the programs of specialization. The SLSC courses have all been changed to SWSC due to a Department name change.

Approved by Faculty vote: 2/17/00
Reviewed & Approved by CNAS Executive Committee 2/29/00
Approved by the Committee on Educational Policy: 4/25/00