To be Adopted:

Proposed Changes in Requirements for the Bachelor of Science Degree in Biological Sciences

PRESENT

MAJOR REQUIREMENTS
Some of the following requirements for the major may also fulfill the College’s breadth requirements. Consult with a department advisor for program planning. The major requirements for the Bachelor of Science in Biological Sciences are as follows:

1. Biological Sciences core requirements (65-69 units)
   a) BIOL 005A, BIOL 005B, BIOL 005C
   b) CHEM 001A-CHEM 001B-CHEM 001C, CHEM 112A-CHEM 112B-CHEM 112C
   c) MATH 009A-MATH 009B
   d) PHYS 002A-PHYS 002B-PHYS 002C, PHYS 02LA-PHYS 02LB-PHYS 02LC
   e) STAT 020 or STAT 100A or STAT 105
   f) BCH 100 or BCH 110A

2. As specified in the individual tracks, at least 36 upper division units for the major and 16 units of substantive course work related to the major. Courses in Statistics and Biochemistry taken as part of the core may be included.

BIOLOGY TRACK
1. Upper-division requirements [at least 36 units from the following, including two courses with laboratory or field component (indicated by *)]
   a) Molecular/Cellular (minimum of one course from each category)
      (1) BCH 100 or BCH 110A-BCH 110B
      (2) BIOL 102 or BIOL 115
      (3) BIOL 107A or BCH 110C, BIOL 111, BIOL 128, BPSC 155/BIOL 155
   b) Functional Biology of Organisms (minimum of three courses with lecture component)

PROPOSED

MAJOR REQUIREMENTS
Some of the following requirements for the major may also fulfill the College’s breadth requirements. Consult with a department advisor for program planning. The major requirements for the Bachelor of Science in Biological Sciences are as follows:

1. Biological Sciences core requirements (65-69 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 005B, BIOL 005C
   b) CHEM 001A-CHEM 001B-CHEM 001C, CHEM 112A-CHEM 112B-CHEM 112C
   c) MATH 009A-MATH 009B
   d) PHYS 002A-PHYS 002B-PHYS 002C, PHYS 02LA-PHYS 02LB-PHYS 02LC
   e) STAT 020 or STAT 100A or STAT 105
   f) BCH 100 or BCH 110A

2. As specified in the individual tracks, at least 36 upper division units for the major and 16 units of substantive course work related to the major. Courses in Statistics and Biochemistry taken as part of the core may be included.
   A student is subject to discontinuation from the major whenever the GPA in upper division course work is below 2.00. Students finding themselves in this circumstance must meet with an advisor.

BIOLOGY TRACK
1. Upper-division requirements [at least 36 units from the following, including two courses with laboratory or field component (indicated by *)]
   a) Molecular/Cellular (minimum of one course from each category)
      (1) BCH 100 or BCH 110A-BCH 110B
      (2) BIOL 102 or BIOL 115
      (3) BIOL 107A or BCH 110C, BIOL 111, BIOL 128, BPSC 155/BIOL 155
   b) Functional Biology of Organisms (minimum of two courses with lecture component)
c) Ecology/Evolution/Systematics/Behavior (minimum of two courses)

2. Statistics/Computer Science requirement (two courses)
CS 010, CS 012, CS 013, CS 120A/EE 120A, CS 143/EE 143, STAT 100A, STAT 100B, STAT 120A, STAT 120B

3. Additional courses in biological sciences (upper division) and related areas from the approved list to bring total units to 52. Eight of these units may be from a declared minor, from a foreign language beyond level 4, or additional lower division science requirements for the teaching credential.

**CELL, MOLECULAR, AND DEVELOPMENTAL BIOLOGY TRACK**

1. Upper-division required courses

   a) Required courses
   - BCH 110A-BCH 110B (recommended) or BCH 100
   - Biol 102 or Biol 115, Biol 107A or BCH 110C, Biol 111, Biol 167 or Biol 169

2. Additional upper-division requirements (a minimum of 20 units from the following list)

   b) Additional requirements (a minimum of 20 units from the following list)
3. Additional courses in biological sciences (upper division) and related areas from the approved list to bring total units to 52. Must include at least 8 units not listed above.

CONSERVATION BIOLOGY TRACK

1. Additional lower-division requirements
   a) ENSC 006/ECON 006
   b) GEO 002

2. Upper-division requirements
   a) BIOL 102
   b) ENSC 172
   c) Breadth Electives: Courses in the disciplines important in Conservation Biology (one course from each of the following areas)
      (1) Evolution
          BIOL 105, BIOL 108
      (2) Ecology
          BIOL 117, BIOL 127/ENTM 127, BPSC 146
      (3) Systematics
          ENTM 112/BIOL 112/BPSC 112, BPSC 144
      (4) Biodiversity
          BIOL 151, BIOL 163, BPSC 130/BIOL 130, ENTM 100/BIOL 100, ENTM 109, PLPA 134/BIOL 134 and PLPA 134L/BIOL 134L, or other appropriate course that includes a laboratory and is approved by a faculty advisor
      (5) Abiotic and Landscape Studies
          ENSC 100, GEO 160A, GEO 162, GEO 168A
      (6) Applications
          BPSC 122/BIOL 142, ENTM 124, ENTM 129, GEO 167
      (7) Human Issues
          ANTH 110, ANTH 129, ANTH 132, ANTH 134, ECON 143, ECON 145, PHIL 117, SOC 184
   d) Specialization: 12 units of upper-division and/or substantive courses in an area of specialization chosen by the student in consultation with a faculty advisor.
      Only the following 190 series can be included in the specialization: No more than 4 units of BLCN 197/199 may be included, and BLCN 190 may be applied when used to study graduate level material.
   e) Conservation Internship Program (minimum of 2 units): BLCN 198-I
   f) Conservation Biology Seminar: BLCN 193 must be taken once.
ENTOMOLOGY TRACK

1. Upper-division required courses
   a) BCH 100
   b) BIOL 102, BIOL 151
   c) BPSC 130/BIOL 130
   d) ENTM 100/BIOL 100, ENTM 112/BIOL 112, ENTM 112/BIOL 127, ENTM 112/BIOL 173

2. Additional upper-division requirements (at least six units from the following)
   - ENTM 109, ENTM 114, ENTM 124, ENTM 126, ENTM 126L, ENTM 128, ENTM 128L, ENTM 129, ENTM 129L, ENTM 190, ENTM 197 (no more than three units of ENTM 190 and ENTM 197 (in combination) may be taken toward fulfilling this requirement)

3. Related areas (at least 7 units from the following)
   a) Agriculture
      BPSC 102, BPSC 103, BPSC 143/BIOL 143, BPSC 150, ENSC 100, ENSC 131, NEM 120, NEM 159/BIOL 159, PLPA 120/BIOL 120/MCBL 120, PLPA 134/BIOL 134
   b) Evolution, Ecology, Behavior, Genetics
      BIOL 105, BIOL 108, BIOL 118, BIOL 157, BIOL 160, BPSC 144, BPSC 146, BPSC 148, GEO 158, GEO 167, GEO 168A, GEO 168B
   c) Cell, Molecular, and Organismal Biology
      BIOL 107A, BIOL 109, BIOL 111, BIOL 121A/MCBL 121A, BIOL 121B/MCBL 121B, BIOL 121L/MCBL 121L, BIOL 175, BIOL 175L, BIOL 176, BIOL 176L

4. Additional courses in biological sciences (upper division) and related areas from the approved list to bring total units to 52.

ENVIRONMENTAL TOXICOLOGY TRACK

1. Lower-division course (beyond Biological Sciences core curriculum):
   ENSC 006/ECON 006

2. Upper-division required courses
   a) BCH 100 or BCH 110A-BCH 110B
   b) BIOL 102, BIOL 107A or BCH 110C, BIOL 111, BIOL 117
   c) ENSC 101 or ENSC 136/ENTX 136/CHEM 136, ENSC 102
   d) ENTX 101, ENTX 150/BIOL 150, ENTX 154

3. Additional upper-division requirements (four courses from the following, with at least one from Chemical Fate and one from Health/Ecology)
   a) Chemical Fate
      CHEM 005, CHEM 109, CHEM 125, CHEM 150A, CHEM 150B, ENSC 100, ENSC 100L, ENSC 127, ENSC 131, ENSC 135/CHEM
   b) Evolution, Ecology, Behavior, Genetics
      BIOL 105, BIOL 108, BIOL 118, BIOL 157, BIOL 160, BPSC 144, BPSC 146, BPSC 148, GEO 158, GEO 167, GEO 168A, GEO 168B
   c) Cell, Molecular, and Organismal Biology
      BIOL 107A, BIOL 107B, BIOL 109, BIOL 111, BIOL 113, BIOL 114, BIOL 121A/MCBL 121A, BIOL 121B/MCBL 121B, BIOL 121L/MCBL 121L, BIOL 175, BIOL 175L, BIOL 176, BIOL 176L

4. Additional courses in biological sciences (upper division) and related areas from the approved list to bring total units to 52.
135/ENTX 135, ENSC 140, ENSC 141, ENSC 142, ENSC 142L, ENSC 144, ENSC 155, ENSC 163, ENSC 172, ENSC 172L, ENSC 174, ENSC 176, SWSC 104, SWSC 107, SWSC 111

b) Health/Ecology
BCH 102, BCH 184, BIOL 108, BIOL 109, BIOL 115, BIOL 121A/MCBL 121A, BIOL 121B/MCBL 121B, BIOL 128, BIOL 161A, BIOL 161B, BIOL 167, BIOL 169, BIOL 171, ENTM 126, ENTM 128, ENTM 128L, NRSC 106

4. Additional courses in biological sciences (upper division) and related areas from the approved list to bring total units to 52.

EVOLUTION AND ECOLOGY TRACK

1. Upper-division required courses
a) BCH 100
b) BIOL 102
c) At least three courses from: BIOL 105, BIOL 108, BIOL 117, BIOL 160, ENTM 112/BPSC 112/BIOL 112. Courses not used to meet this requirement can be applied to additional upper-division requirements.

2. Additional upper-division requirements (at least one course from each of the following areas)
   a) Biological Diversity
      BIOL 151, BIOL 157, ENTM 100/BIOL 100, ENTM 114, PLPA 134/BIOL 134
   b) Functional Biology and Behavior
      BIOL 160, BIOL 161A, BIOL 161B, BIOL 175, BIOL 175L, BIOL 176, BIOL 176L, BIOL 177, BPSC 138/BIOL 138, ENTM 162/BIOL 162
   c) Ecology and Evolution
      BIOL 105, BIOL 108, BIOL 117, BIOL 118, BIOL 163, BPSC 122/BIOL 142, BPSC 146, BPSC 148, BPSC 185/BCH 185, ENTM 112/BPSC 112, ENTM 127/BIOL 127
   d) Statistics requirement (minimum of one course):
      STAT 100A, STAT 100B, STAT 120A, STAT 120B
   e) Additional courses in biological sciences (upper division) and related areas from the approved list to bring total units to 52.

MICROBIOLOGY TRACK

1. Upper-division core requirements
2. Statistics requirement (minimum of one course)
   STAT 100A, STAT 100B, STAT 120A, STAT 120B
3. Additional courses in biological sciences (upper division) and related areas from the approved list to bring total units to 52.

MICROBIOLOGY TRACK

1. Upper-division core requirements
2. Additional upper-division requirements (at least three courses from the following)

- BIOL 109, BIOL 111, BIOL 121B/MCBL 121B, BIOL 128, ENSC 141, ENSC 155, MCBL 122/Biol 122, NEM 159/BIOL 159, PLPA 120/Biol 120/MCBL 120, SWSC 111

3. Additional upper-division science courses from the approved list to bring total units to 52.

**PLANT BIOLOGY TRACK**

1. Upper-division core requirements
   a) BIOL 102
   b) BPSC 130/BIOL 130, BPSC 132/BIOL 132, BPSC 138/BIOL 138, BPSC 143/BIOL 143

2. Additional upper-division requirements (24 units from the following, with a minimum of 12 units in Botany/Plant Sciences)
   a) Cell, Molecular, and Developmental Biology
      - BCH 183, BIOL 107A, BIOL 109, BIOL 111 or BPSC 135, BPSC 132/BIOL 132, BPSC 143/BIOL 143, BPSC 155/BIOL 155
   b) Organismal Botany and Plant Sciences (Anatomy, Biochemistry, Development, Morphology, Physiology, Horticulture, Agronomy, Botany)
      - BCH 102, BCH 110B-BCH 110C or BIOL 107A, BCH 162, BCH 183, BCH 184, BIOL 105, BIOL 107A, BIOL 107B, BIOL 108, BIOL 111, BIOL 115, BIOL 121A/MCBL 121A, BIOL 121B/MCBL 121B, BIOL 128, BIOL 121L/MCBL 121L, BIOL 128, BIOL 150/ENTX 150, BPSC 135, BPSC 144, BPSC 148, BPSC 150, BPSC 153/BCH 153/Biol 153 or BIOL 109, BPSC 155/BIO 155, BPSC 185/BCH 185, CHEM 109, ENTM 100/Biol 100, ENTM 112/Biol 112/PCSC 112, ENSC 100, ENSC 100L, NEM 120, NEM 159/Biol 159, PLPA 120/Biol 120/MCBL 120, PLPA 134/Biol 134, PLPA 134L/Biol 134L, STAT 120B, SWSC 100L
   c) Plant Cellular, Molecular, and Developmental Biology (Genetics, Biotechnology)
      - BCH 102, BCH 110B-BCH 110C or BIOL 107A, BCH 162, BCH 183, BCH 184, BIOL 105, BIOL 107A, BIOL 107B, BIOL 108, BIOL 111, BIOL 115, BIOL 121A/MCBL 121A, BIOL 121B/MCBL 121B, BIOL 128, BIOL 121L/MCBL 121L, BIOL 128, BIOL 150/ENTX 150, BPSC 135, BPSC 144, BPSC 148, BPSC 150, BPSC 153/BCH 153/Biol 153 or BIOL 109, BPSC 155/BIO 155, BPSC 185/BCH 185, CHEM 109, ENTM 100/Biol 100, ENTM 112/Biol 112/PCSC 112, ENSC 100, ENSC 100L, NEM 120, NEM 159/Biol 159, PLPA 120/Biol 120/MCBL 120, PLPA 134/Biol 134, PLPA 134L/Biol 134L, STAT 120B, SWSC 100L
   d) Organismal Botany and Plant Sciences (Anatomy, Biochemistry, Development, Morphology, Physiology, Horticulture, Agronomy, Botany)
      - BCH 102, BCH 183, BIOL 107A, BIOL 107B, BIOL 111, BIOL 121A/MCBL 121A, BIOL 121B/MCBL 121B, BIOL 128, BIOL 121L/MCBL 121L, BIOL 128, BIOL 150/ENTX 150, BPSC 135, BPSC 144, BPSC 148, BPSC 150, BPSC 153/BCH 153/Biol 153 or BIOL 109, BPSC 155/BIO 155, BPSC 185/BCH 185, CHEM 109, ENTM 100/Biol 100, ENTM 112/Biol 112/PCSC 112, ENSC 100, ENSC 100L, NEM 120, NEM 159/Biol 159, PLPA 120/Biol 120/MCBL 120, PLPA 134/Biol 134, PLPA 134L/Biol 134L, STAT 120B, SWSC 100L
Ecology, Evolution, and Systematics
BIOL 105, BIOL 108, BIOL 117, BIOL 118,
BPSC 102, BPSC 103, BPSC 122/BIOL 142,
BPSC 138/BIOL 138, BPSC 144, BPSC 146,
BPSC 148, BPSC 150, BPSC 185/BCH 185,
ENTM 112/BIOL 112/BPSC 112

3. Additional upper-division courses in biological sciences
and related areas from the approved list to bring total
units to 52. Students may apply a maximum of six units of BPSC
190 and/or BPSC 197 (alone or in combination) to
bring total units to 52.

PLPA 123/BIOL 123/MCBL 123, PLPA
134/BIOL 134, PLPA 134L/BIOL 134L, STAT
120B, SWSC 100L, SWSC 102, SWSC 104,
SWSC 111, SWSC 124

c) Ecology, Evolution, and Systematics (Agriculture
and Natural Resources, Agroecology, Ethnobotany,
Population Biology, Taxonomy)
ANTH 110, ANTH 111, ANTH 129, BCH
102, BCH 183, BIOL 105, BIOL 108, BIOL
117 or ENTM 127/BIOL 127, BIOL 118,
BPSC 101, BPSC 102, BPSC 103, BPSC
122/BIOL 142, BPSC 144, BPSC 146, BPSC
170/ANTH 170, ENTM 112/BPSC 112
112, ENSC 100, ENSC 100L, GEO 151, NEM
159/BIOL 159, PLPA 120/BIOL 120/MCBL
120, PLPA 120L/BIOL 120L/MCBL 120L,
PLPA 134/BIOL 134, PLPA 134L/BIOL 134L,
STAT 120B, SWSC 100L, SWSC 102, SWSC
104, SWSC 111, SWSC 124

d) Pest Management, Plant Pathology, and
Nematology
BCH 183, BIOL 121A/MCBL 121A, BIOL
121B/MCBL 121B, BIOL 121L/MCBL 121L,
BPSC 102, BPSC 103, BPSC 146, BPSC 150,
ENTM 100/BIOL 100, ENTM 109, ENTM
124, ENTM 127/BIOL 127, ENTM 129,
ENTM 129L, ENSC 100, ENSC 100L, NEM
120, NEM 159/BIOL 159, PLPA 120/BIOL
120/MCBL 120, PLPA 120L/BIOL
120L/MCBL 120L, PLPA 123/BIOL
123/MCBL 123, PLPA 134/BIOL 134, PLPA
134L/BIOL 134L, STAT 120B, SWSC 100L,
SWSC 104, SWSC 111

3. Additional upper-division courses in biological sciences
and related areas from any of the above lists, and
students may apply a maximum of six units of BPSC
190 and/or BPSC 197 (alone or in combination) to
bring total units to 52.
The Committee in Charge of the Biological Sciences major with a unanimous vote from the owners of the tracks in the major recommends the proposed inclusion of statements of the criteria for disqualification from the major based on (a) performance in the core courses and (b) on performance in the upper-division tracks. The goal is to make students aware of these criteria early in their academic careers at UCR so that they will take a more active role in achieving academic success.

Biology Track

1.a)(3) BIOL 113 (Advanced Cell Biology: Membranes, Organelles, and the Cytoskeleton) and BIOL 114 (Advanced Cell Biology: Cellular Reproduction and Signaling) are new courses that are equivalent to BIOL 111 and are included here as alternatives.

1.b) The number of courses required is reduced from three to two. The purpose is to make additional elective space available within the required 36 upper division units for the major. As originally intended for this track, the change still assures that a breadth of courses is taken in the various fields of biology. Assuming an average of 4 units/course, this change prescribes a minimum of 12 units in Molecular/Cellular, 8 units in Functional Biology of Organisms, and 8 units in Ecology/Evolution/Systematics/Behavior for a total of 28 units.

PLPA 134L/BIOL 134L: Effective Fall 1999, PLPA 134/BIOL 134 was revised to create separate lecture and lab courses. Therefore inclusion of PLPA 134L/BIOL 134L is an editorial change. The asterisk is deleted from the lecture and added to the lab course to identify it as an option for the lab or field component requirement.

1.c) ENTM 127/BIOL 127: The course description states, "Credit is awarded for only one of BIOL 117 or ENTM 127/BIOL 127." It is included to provide the alternative.

BIOL 160L (Laboratory in Animal Behavior) is a new course appropriate for this category; the asterisk is added to identify it as an option for the lab or field component requirement.

1.d) BIOL 107B (Advanced Molecular Biology) and BPSC 153/BCH 153/BIOL 153 (Plant Biotechnology) are new courses that are appropriate options in this category. The prerequisite for both of these courses is BIOL 107A--an option in 1.a).

2. CS 013 was renumbered to CS 061. CS 014 (Data Structures) has CS 012 as prerequisite so is substantive with appropriate content for this category.

3. Foreign language is deleted as an option since this major only offers a B.S. degree.

Restricting the minor to one of the science colleges (College of Natural & Agricultural Sciences or College of Engineering) assures that the upper-division courses taken for the minor are appropriate for the related area of a B.S. program.

The approved list for this major includes the instruction that advisor's approval is required to include courses not on the list. "Advisor's approval required" is added to conform with the related-list instruction and to restrict exceptions to those students seriously planning to obtain a teaching credential.

Cell, Molecular, and Developmental Biology Track

Proposed 1. The faculty of this track believe that students should include laboratory experience in their undergraduate curriculum. A lab course was not previously specified because completion of the courses in the present 1.b) list would have satisfied this requirement. The asterisks are added to all lab courses to identify them as options for the lab requirement.

Proposed 1.a)(3) BIOL 113, BIOL 114, and BPSC 135 are BIOL 111 (Cell Biology) alternatives. BIOL 113 (Advanced Cell Biology: Membranes, Organelles, and the Cytoskeleton) and BIOL 114 (Advanced Cell Biology: Cellular Reproduction and Signaling) are new courses that are equivalent to BIOL 111. BPSC 135 is included based on a review of the current syllabus.

BIOL 168 (Developmental Biology) is a restored course that is appropriate as an alternative to BIOL 167 (General Embryology) and BIOL 169 (Human Growth and Development).

Proposed 1.b) BIOL 107B (Advanced Molecular Biology) and BPSC 153/BCH 153/BIOL 153 (Plant Biotechnology) are new courses that are appropriate options for this category.

Conservation Biology Track

The inclusion of Conservation Biology as a track within the Biological Sciences major is commensurate with the plan proposed for this major during the College reorganization. In its Final Report (August 23, 1996) to Executive Vice Chancellor Warren, CNAS Deans, CNAS Department Chairs, the CNAS Executive Committee, the Biological Sciences Undergraduate Curriculum Committee formally recommended the formation of a broad-based biological sciences major with a number of tracks. At that time, there was support for retaining the newly-established Conservation Biology program as a major to help it get off the ground and establish its identify before including it in the broad Biological Sciences major. Inclusion of Conservation Biology as a track in the Biological Sciences major offers our biology students all the benefits that led to the original formation of tracks within this major. The change will provide students with greater exposure to the full
range of biological sciences subdisciplines and potential career opportunities earlier in their academic careers and greater access to advisors. It is anticipated that this will lead to increased enrollment in the Conservation Biology program and participation of more faculty in the track, leading to a stronger, more specialized and reinvigorated program.

Entomology Track

ENTM 132 (Taxonomy of Immature Insects), ENTM 133 (Urban Entomology), BIOL 107B (Advanced Molecular Biology), BIOL 113 (Advanced Cell Biology: Membranes, Organelles, and the Cytoskeleton), BIOL 114 (Advanced Cell Biology: Cellular Reproduction and Signaling) are new courses that are appropriate options for the categories in which they are listed.

PLPA 134L/Biol 134L: Effective Fall 1999, PLPA 134/Biol 134 was revised to create separate lecture and lab courses. Therefore inclusion of PLPA 134L/Biol 134L is an editorial change.

Environmental Toxicology Track

Deletion of "Lower-division course" requirement: During preliminary deliberations for the creation of the Environmental Toxicology Track of the proposed Biological Sciences major, ENSC 006/ECON 006 was specified because it is the prerequisite for required course ENSC 100 (Introduction to Soil Science). In the final proposal for this track, ENSC 100 was replaced with BIOL 117 (Introduction to Population and Community Ecology) in order to require sufficient Biology units. The ENSC 006/ECON 006 requirement somehow slipped through and should now be deleted.

BIOL 113 (Advanced Cell Biology: Membranes, Organelles, and the Cytoskeleton) and BIOL 114 (Advanced Cell Biology: Cellular Reproduction and Signaling), BIOL 168 (Developmental Biology), BPSC 153/BCH 153/Biol 153 (Plant Biotechnology) are new courses that are appropriate options in the categories in which they are listed.

Evolution and Ecology Track

Proposed 1. The faculty of this track believe that students should include laboratory or field experience in their undergraduate curriculum. A lab or field course was not previously specified because completion of the courses in the present 2.a) list would have satisfied this requirement. The asterisks are added to all lab and field courses to identify them as options for the lab or field requirement.

Proposed 1.b)(1) PLPA 134L/Biol 134L: Effective Fall 1999, PLPA 134/Biol 134 was revised to create separate lecture and lab courses. Therefore inclusion of PLPA 134L/Biol 134L is an editorial change.

Proposed 1.b)(2) BIOL 160L (Laboratory in Animal Behavior) is a new course associated with BIOL 160 (Animal Behavior) that is an appropriate option in this category.

Microbiology Track

1.c) PLPA 134L/Biol 134L: Effective Fall 1999, PLPA 134/Biol 134 was revised to create separate lecture and lab courses. Therefore inclusion of PLPA 134L/Biol 134L is an editorial change.

2. BIOL 107B (Advanced Molecular Biology), BIOL 113 (Advanced Cell Biology: Membranes, Organelles, and the Cytoskeleton), BIOL 114 (Advanced Cell Biology: Cellular Reproduction and Signaling) are new courses that are appropriate options for this category.

3. The statement was revised to bring it into conformity with the other tracks.

Plant Biology Track

The proposed changes in the Plant Biology track in the Biological Sciences major resulted from the Department of Botany and Plant Sciences’ annual review of the academic strength of its track. The changes include the addition of areas of specialization that are part of the Botany and Plant Sciences major but not part of the track and the addition of courses to the areas of specialization. In addition, we included recommendations for BCH 110A and STAT 120A in order to strengthen the student’s preparation for graduate school. All changes were made to bring the track in line with the Botany and Plant Sciences major in anticipation of its being terminated once our track and the Biological Sciences major prove successful.

Effective: Fall, 2000
Approved by the Committee in Charge: April 6, 2000