EXECUTIVE COMMITTEE
COLLEGE OF NATURAL AND AGRICULTURAL SCIENCES

REPORT TO THE RIVERSIDE DIVISION
MAY 2015

To be adopted:

Proposed Changes to Entomology Major

PRESENT:

Major Requirements
The major requirements for both the B.A. and the B.S. degrees in Entomology are as follows:

1. Lower-division requirements (51–52 units)
   a) BIOL 005A, BIOL 05LA, BIOL 005B, BIOL 005C
   b) PHYS 002A, PHYS 002B, PHYS 002C, PHYS 02LA, PHYS 02LB, PHYS 02LC
   c) MATH 008B or MATH 009A, MATH 009B
   d) CHEM 001A, CHEM 001B, CHEM 001C, CHEM 01LA, CHEM 01LB, CHEM 01LC

2. Upper-division requirements (69 units)
   a) ENTM 100/BIOL 100, ENTM 107, ENTM 173/BIOL 173, and 4 units in any combination of ENTM 190, ENTM 197, ENTM 199, or ENTM 199H
   b) Twenty-four (24) additional units of entomology electives, which may include up to 2 additional units of ENTM 190, ENTM 197, ENTM 199 or ENTM 199H
   c) BCH 100
   d) BIOL 102
   e) BIOL 107A
   f) CHEM 112A, CHEM 112B, CHEM 112C
   g) STAT 100A

BIOL 151 and BIOL 175 are suggested in order to acquire a background in the life sciences appropriate for an Entomology major. For students intending to specialize at the graduate level in insect toxicology or insect physiology, biochemistry, and molecular biology, it is recommended that the BCH 110A, BCH 110B, and

PROPOSED:

Major Requirements
The major requirements for both the B.A. and the B.S. degrees in Entomology are as follows:

1. [No Change]

2. Upper-division requirements (71 units)
   a) ENTM 100/BIOL 100, ENTM 107, ENTM 173/BIOL 173, ENTM 180 and 4 units in any combination of ENTM 190, ENTM 197, ENTM 199, or ENTM 199H
   b) [No change]
   c) [No change]
   d) [No change]
   e) [No change]
   f) [No change]
   g) [No change]
BCH 110C sequence and BCH 102 be substituted in place of an equal number of upper-division course units in life sciences. Due to course content overlap, credit is not awarded for BCH 110A, BCH 110B, or BCH 110C if it has already been awarded for BCH 100.

**Justification:**
In support of UC Riverside's commitment to excellence in teaching and learning, Undergraduate Education has been actively inviting programs and departments to develop a capstone course. ENTM 180, the newly approved capstone course will provide undergraduate students majoring in Entomology with the experience of synthesizing and integrating knowledge and skills gained throughout the Entomology undergraduate program. The course will consist of two components: 1) Attendance of the Seminar in Entomology series (Monday 4-5, Genomics Auditorium) that are comprised of invited lectures presented by visiting scientists, staff and advanced graduate students on research topics in entomology and allied fields. 2) A discussion section that will be coordinated with each week’s seminar topic. The course will include writing and discussion assignments such as: a) written abstracts of a set number of seminars, b) discussion of one selected paper per week that is tied in with the seminar presentation, and c) in depth review of research area of one of the topics covered in the seminars. During the course, the students will develop skills in scientific literacy and writing skills as well as the ability to critically evaluate concepts in entomology. In efforts to address one of Entomology Learning Outcomes: "To demonstrate scientific literacy and writing skills as well as the ability to critically evaluate concepts in entomology". ENTM 180 has been added to the Major requirements and as an elective for the Minor. This course will be effective from fall 2015, and will be offered in spring quarters.

**Approvals:**
Approved by the faculty of the Department of Entomology: October 31, 2014
Approved by the Executive Committee of the College of Agricultural and Natural Sciences: February 17, 2015
Approved by the Committee on Educational Policy: April 8, 2015