EXECUTIVE COMMITTEE  
COLLEGE OF NATURAL AND AGRICULTURAL SCIENCES  
REPORT TO THE RIVERSIDE DIVISION  
November 21, 2006

To be adopted:  
Proposed Changes to Biochemistry Undergraduate Program  
Bachelor of Science and Bachelor of Arts Degrees in Biochemistry

PRESENT:

Biology Emphasis

3. Upper-division requirements (47–62 units)
   a) BCH 102, BCH 110A, BCH 110B, BCH 110C, BCH 184
   b) At least 7 units from BCH 120, BCH 153/Biol 153/BPSC 153, BCH 162, BCH 180A, BCH 180B, BCH 180C, BCH 183, BCH 185/BPSC 185, BCH 186, BCH 210, BCH 211, BCH 212, BCH 241/CHEM 241
   c) BIOL 102
   d) CHEM 109 or CHEM 110A; CHEM 112A, CHEM 112B, CHEM 112C
   e) Choose three biological science courses from the following:
      (1) BCH 120, BCH 153/Biol 153/BPSC 153, BCH 162, BCH 180A, BCH 180B, BCH 180C, BCH 183, BCH 185/BPSC 185, BCH 186, BCH 210, BCH 211, BCH 212, BCH 241/CHEM 241
      (2) BIOL 105, BIOL 108, BIOL 114, BIOL 117, BIOL 121/MCBL 121, BIOL 121L/MCBL 121L, BIOL 123/MCBL 123/PLPA 123, BIOL 124/MCBL 124, BIOL 128/CBNS 128, BIOL 151, BIOL 155/BPSC 155, BIOL 157, BIOL 159/NEM 159, BIOL 160, BIOL 161A, BIOL 161B, BIOL 171, BIOL 173/ENTM 173, BIOL 175

PROPOSED:

Biology Emphasis

3. Upper-division requirements (47–64 units)
   a) BCH 101, BCH 102, BCH 110A, BCH 110B, BCH 110C, BCH 184
   b) At least 7 units from BCH 120, BCH 153/Biol 153/BPSC 153, BCH 162, BCH 180A, BCH 180B, BCH 180C, BCH 183, BCH 186, BCH 210, BCH 211, BCH 212, BCH 241/CHEM 241
   c) No change
   d) No change
   e) Choose three biological science courses from the following:
      (1) BCH 120, BCH 153/Biol 153/BPSC 153, BCH 162, BCH 180A, BCH 180B, BCH 180C, BCH 183, BCH 186, BCH 210, BCH 211, BCH 212, BCH 241/CHEM 241
      (2) No change
PRESENT

(3) BIOL 104/BPSC 104, BIOL 132/BPSC 132, BIOL 143/BPSC 143, BIOL 148/BPSC 148, BIOL 155/BPSC 155, BPSC 135

(4) BIOL 100/ENTM 100, BIOL 173/ENTM 173, ENTM 128

(5) CBNS 101, CBNS 106, CBNS 116, CBNS 120/PSYC 120, CBNS 124/PSYC 124, CBNS 125/PSYC 125, CBNS 150/ENTX 150, CBNS 169

(6) ENSC 100, ENSC 155

(7) ENTX 101, CBNS 150/ENTX 150

Chemistry Emphasis

3. Upper-division requirements (47–56 units)
   a) BCH 102, BCH 110A, BCH 110B, BCH 110C, BCH 184
   b) At least 7 units from BCH 120, BCH 153/BIOL 153/BPSC 153, BCH 162, BCH 180A, BCH 180B, BCH 180C, BCH 183, BCH 185/BPSC 185, BCH 186, BCH 210, BCH 211, BCH 212, BCH 241/CHEM 241
   c) BIOL 102
   d) CHEM 109 or CHEM 110A; CHEM 112A, CHEM 112B, CHEM 112C
   e) Two courses from CHEM 110B, CHEM 113, CHEM 125, CHEM 150A, CHEM 150B, CHEM 166 (BCH 241/CHEM 241 and other graduate courses may be substituted by students with a GPA of 3.00 or better with permission of the instructor and the faculty advisor.)

PROPOSED

(3) No change

(4) No change

(5) No change

(6) No change

(7) No change

Chemistry Emphasis

3. Upper-division requirements (47–58 units)
   a) BCH 101, BCH 102, BCH 110A, BCH 110B, BCH 110C, BCH 184
   b) At least 7 units from BCH 120, BCH 153/BIOL 153/BPSC 153, BCH 162, BCH 180A, BCH 180B, BCH 180C, BCH 183, BCH 186, BCH 210, BCH 211, BCH 212, BCH 241/CHEM 241
   c) No change
   d) No change
   e) No change
**Medical Sciences Emphasis**

3. Upper-division requirements (48 units)

a) BCH 102, BCH 110A, BCH 110B, BCH 110C, BCH 120, BCH 184

b) BIOL 102

c) CHEM 109 or CHEM 110A; CHEM 112A, CHEM 112B, CHEM 112C

d) CBNS 101

e) Highly recommended (15 units): BIOL 161A, BIOL 161B, BIOL 171

**Medical Sciences Emphasis**

3. Upper-division requirements (50 units)

a) BCH 101, BCH 102, BCH 110A, BCH 110B, BCH 110C, BCH 120, BCH 184

b) No change

c) No change

d) No change

e) No change
JUSTIFICATION:

Biology Emphasis 3. a) with unit change

BCH 101, “Biochemical Laboratory: Fundamentals” (2 units), was approved as a prerequisite for BCH 102,”Introductory Biochemistry Laboratory”. Consequently, BCH 101 is a required course of the major and this addition and unit revision reflects this change.

Biology Emphasis 3. b) and e) (1)

BCH 185, which is cross-listed with BPSC 185, has been deleted. BCH 185 has not been offered since 99S and both departments no longer have faculty to teach the course.

Chemistry Emphasis 3. a) with unit change

BCH 101, “Biochemical Laboratory: Fundamentals” (2 units), was approved as a prerequisite for BCH 102,”Introductory Biochemistry Laboratory”. Consequently, BCH 101 is a required course of the major and this addition and unit revision reflects this change.

Chemistry Emphasis 3. b)

BCH 185, which is cross-listed with BPSC 185, has been deleted. BCH 185 has not been offered since 99S and both departments no longer have faculty to teach the course.

Medical Sciences Emphasis 3. a) with unit change

BCH 101, “Biochemical Laboratory: Fundamentals” (2 units), was approved as a prerequisite for BCH 102,”Introductory Biochemistry Laboratory”. Consequently, BCH 101 is a required course of the major and this addition and unit revision reflects this change.

APPROVALS:

Approved by the faculty of the Department of Biochemistry: November 21, 2005

Approved by CNAS Executive Committee: January 5, 2006

Revised approval date: May 11, 2006

Approved by the Committee on Educational Policy: June 6, 2006

Endorsed by the Advisory Committee: June 12, 2006