MAJOR REQUIREMENTS WITH BIOLOGY EMPHASIS

LOWER DIVISION (56-57 units):
Biochemistry 95
Biology 5A, 5LA, 5B, 5C
Chemistry 1A, 1LA, 1B, 1LB, 1C, 1LC
Math 8B or 9A, 9B, 46
Physics 2A, 2LA, 2B, 2LB, 2C, 2LC

STATISTICS (5 units):
Statistics 100A or 100B
(STAT 100B should be taken if STAT 48 credit has already been awarded)

UPPER DIVISION (44 units):
Biochemistry 101 Lab
Biochemistry 162 Lab
Biochemistry 110A, 110B, 110C
Biochemistry 184
Biology 102
Chemistry 109 or 110A
Chemistry 12A, 12B, 12C

BIOCHEMISTRY ELECTIVES (7 units):
At least 7 units from: 120, 153, 180E – Z, 183, 186, 187, 210, 211, 212

Graduate courses BCH 210-212 require Science GPA > 3.0. You must obtain a BCH Petition from your Professional Academic Advisor for approval by your faculty advisor and the instructor prior to enrollment.

Upper-Division requirements (9-15 units). Choose three Biological Science Electives Required From:

BCH 120, 153, 180E – Z, 183, 186, 187, 210, 211, 212
BPSA 104, 132, 135, 143, 148, 155
ENTM 100, 173
CBNS 101, 106, 116, 120, 120L, 124, 125, 150, 169
ENSC 100
ENTX 101, 150

BIOLOGY EMPHASIS
Lower Division 56-57
Statistics 100A 5
Upper Division 51 + (9 to 15 Elective units) = 59 - 66

MAJOR REQUIREMENTS WITH CHEMISTRY EMPHASIS

LOWER DIVISION (61 - 62 units):
Biochemistry 95
Biology 5A, 5LA, 5B, 5C
Chemistry 1A, 1LA, 1B, 1LB, 1C, 1LC
Chemistry 5
Math 8B or 9A, 9B, 46
Physics 2A, 2LA, 2B, 2LB, 2C, 2LC

STATISTICS (5 units):
Statistics 100A or 100B
(STAT 100B should be taken if STAT 48 credit has already been awarded)

UPPER DIVISION (44 units):
Biochemistry 101 Lab
Biochemistry 162 Lab
Biochemistry 110A, 110B, 110C
Biochemistry 184
Biology 102
Chemistry 109 or 110A
Chemistry 12A, 12B, 12C

BIOCHEMISTRY ELECTIVES (7 units):
At least 7 units from: BCH 120, 153, 180E – Z, 183, 186, 187, 210, 211, 212

Graduate courses BCH 210-212 require Science GPA > 3.0. You must obtain a BCH Petition from your Professional Academic Advisor for approval by your faculty advisor and the instructor.

ELECTIVES (8 units):
At least 8 units from: BCH 183, BIOL 121, BIOL 161A, BIOL 161B, BIOL 171, CBNS 106, CBNS 150

Students should be aware that CHEM 005 is often a requirement for admission to professional schools.

*Requires 30-40 hours of volunteer work

CHEMISTRY EMPHASIS
Lower Division 61-62
Statistics 100A 5
Upper Division 51 + (8 to 9 Elective units) = 58-60

MAJOR REQUIREMENTS WITH MEDICAL SCIENCES EMPHASIS

LOWER DIVISION (54-55 units):
Biochemistry 95
Biochemistry 96
Biochemistry 98
Biology 5A, 5LA, 5B, 5C
Chemistry 1A, 1LA, 1B, 1LB, 1C, 1LC
Math 8B or 9A, 9B (46 recommended)
Physics 2A, 2LA, 2B, 2LB, 2C, 2LC

STATISTICS (5 units):
Statistics 100A or 100B
(STAT 100B should be taken if STAT 48 credit has already been awarded)

UPPER DIVISION (52 units):
Biology 102
Biochemistry Lab 101
Biochemistry Lab 162
Biochemistry 110A, 110B, 110C
Biochemistry 120
Biochemistry 184
Cell Biology 101
Chemistry 109 or 110A
Chemistry 12A, 12B, 12C

ELECTIVES (8 units):
At least 8 units from: BCH 183, BIOL 121, BIOL 161A, BIOL 161B, BIOL 171, CBNS 106, CBNS 150

Students should be aware that CHEM 005 is often a requirement for admission to professional schools.

*Requires 30-40 hours of volunteer work

MEDICAL SCIENCES EMPHASIS
Lower Division 54-55
Statistics 100A 5
Upper Division 52 + (8 Elective units) = 60
**Medical Science Emphasis (B.S.) SAMPLE PROGRAM**
with Math 8B or 9A Placement.

### FRESHMAN YEAR –

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<th>Fall</th>
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<th>Spring</th>
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<td>Biology</td>
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<td>1B</td>
<td>1C</td>
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### SOPHOMORE YEAR –

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### JUNIOR YEAR –

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### SENIOR YEAR –

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¹Required of BCH New Freshman Admits Fall Quarter
²Required of all BCH Majors with MDSC Emphasis
**BCH 100 is highly recommended (not required) FWS
***Required of all BCH Majors during JR year (FW only)
---Fill in courses that you are interested in taking
****BCH 110ABC must be taken in 3rd year of residence

**BREADTH REQUIREMENTS**

- **English Composition:** 12 units
  - English 1A
  - English 1B
  - English 1C

- **Humanities -- B.S. Degree:** 12 units
  - World History 10, 15, or 20
  - One course in an area of Fine Arts, Literature, Philosophy or Religious Studies
  - One additional Humanities course

- **Social Sciences -- B.S. Degree:** 12 units
  - One course from:
    - Economics or Political Science
    - Anthropology, Psychology, or Sociology
    - One additional Social Science course

- **Ethnic Studies:** 4 units
  - One course in comparative Ethnic Studies is also counted toward either the Humanities or the Social Sciences requirement, but not both, depending upon content.

For information on **B.A. Requirements** see the General Catalog or contact the BCH Professional Academic Advisor listed above.