

## Undergraduate Major in Biochemistry Sample Curriculum

### Health and Medical Sciences Concentration

#### First Year (31 total credits)

| <u>Fall</u>     |             | <u>Spring</u>   |             |
|-----------------|-------------|-----------------|-------------|
| BC 192          | 2 cr        | LIFE 201B, 203  | 5 cr        |
| LIFE 102        | 4 cr        | CHEM 113,114    | 4 cr        |
| CHEM 111,112    | 5 cr        | CO 150          | 3 cr        |
| MATH 155 or 160 | <u>4 cr</u> | MATH 255 or 161 | <u>4 cr</u> |
|                 | 15 cr       |                 | 16 cr       |

#### Sophomore Year (31 total credits)

| <u>Fall</u>           |             | <u>Spring</u>  |             |
|-----------------------|-------------|----------------|-------------|
| CHEM 341              | 3 cr        | CHEM 343       | 3 cr        |
| LIFE 210,212          | 5 cr        | CHEM 344       | 2 cr        |
| AUCC Cat 1C           | 3 cr        | PH 121 or 141  | 5 cr        |
| Elective <sup>1</sup> | <u>3 cr</u> | AUCC Cat 3B-D  | 3 cr        |
|                       | 14 cr       | BMS 300 or 360 | <u>4 cr</u> |
|                       |             |                | 17 cr       |

#### Junior Year (30 total credits)

| <u>Fall</u>            |             | <u>Spring</u>                  |             |
|------------------------|-------------|--------------------------------|-------------|
| BC 401                 | 3 cr        | BC 403                         | 3 cr        |
| PH 122 or 142          | 5 cr        | BC 406/475/487/495             | 2-3 cr      |
| AUCC Cat 3B-D          | 3 cr        | Elective <sup>1</sup>          | 2-4 cr      |
| STAT 301 or 307 or 315 | 3 cr        | BMS 301 <sup>2</sup> <b>OR</b> | 5 cr        |
| AUCC Cat 2             | <u>3 cr</u> | BMS 305 <sup>2</sup>           | 4 cr        |
|                        | 17 cr       | BC 360                         | <u>1 cr</u> |
|                        |             |                                | 14-15 cr    |

#### Senior Year (28 total credits)

| <u>Fall</u>   |             | <u>Spring</u>         |             |
|---------------|-------------|-----------------------|-------------|
| BC 411        | 4 cr        | BC 465                | 3 cr        |
| BC 463        | 3 cr        | BC 499 A/C            | 3 cr        |
| BC 493        | 1 cr        | BC 467                | 3 cr        |
| BC 404        | 2 cr        | AUCC Cat 3B-D         | 3 cr        |
| AUCC Cat 3B-D | <u>3 cr</u> | Elective <sup>1</sup> | <u>2 cr</u> |
|               | 13 cr       |                       | 14 cr       |

<sup>1</sup>Students are encouraged to use their elective credits on undergraduate research or apply them toward a minor.

<sup>2</sup>BMS 301 should be taken by students pursuing health and medical fields related to human health. BMS 305 should be taken by students pursuing health and medical fields related to veterinary medicine. Students who take BMS 305 will need to complete one additional "elective" credit to obtain the total 120 credits needed to graduate.

*Students interested in applying to a professional program in the health and medical field should meet with a Health Professions Advisor: [www.hp.colostate.edu](http://www.hp.colostate.edu)*