## BACHELOR OF SCIENCE, MAJOR IN BIOMEDICAL SCIENCE

## Major in Biomedical Sciences

The Biomedical Sciences degree offered by the Department of Biological Sciences provides a robust, yet flexible curriculum with an emphasis on studying the biological basis of health and disease. It is designed to thoroughly prepare students for entrance into medical, dental, pharmacy, physician assistant, and other professional schools, as well as graduate study in the biomedical sciences and employment as a laboratory research assistant. No minor is required for this degree.

## Required Courses for the Major

The Biomedical Science Major must complete the following courses:



1 No more than two of these courses may be applied toward the Biomedical Sciences degree. Students should consult with an academic advisor in the Biological Sciences early in their degree program regarding appropriate choices for their electives.

## Note

This total reflects MATH 1420 satisfying Component Area II and one hour of Component Area IX, and BIOL 1411 and BIOL 1413 satisfying Component Area III

## Teacher Certification in the Life Sciences

## Biology \& Biomedical Sciences Majors

Students may receive teacher certification in the Life Sciences for grades 8-12 by pairing a major in Biology (BS only as outlined above) with a Secondary Teacher Certification from the Department of Curriculum and Instruction. Students pursuing this degree combination should include BIOL 3492 as one of their advanced biology electives.

For students seeking a Secondary Teacher Certification in the Life Sciences, no grade below C in the science coursework in BIOL is accepted. The required education courses are:

| Code | Title | Hours |
| :--- | :--- | :--- |
| Course Requirements |  |  |
| CISE 3384 | The Teaching Profession | 3 |
| CISE 4364 | Mth Tch Secondary Schools | 3 |
| CISE 4378 | Content Literacy | 3 |
| CISE 4380 | Respon Of Pro Educator | 3 |
| CISE 4394 | Creatng Env For Lrng-Secondary | 3 |
| CISE 4396 | Std Tch Secondary Classroom | 3 |
| CISE 4397 | Std Tch Secondary Classroom | 3 |
| Total Hours |  | 21 |

## First Year

Fall Hours Spring Hours

Component Area IV
3 BIOL 1411 or 1413
BIOL 1411 or $1413^{1}$
4 CHEM 14124

CHEM 1411
4 ENGL $1302^{2}$

| ENGL 1301 ${ }^{2}$ | 3 MATH $1420^{3}$ | 4 |
| :---: | :---: | :---: |
|  | 14 | 15 |
| Second Year |  |  |
| Fall | Hours Spring | Hours |
| Component Area V | 3 Component Area IX | 3 |
| BIOL 2440 | 4 BIOL 3450 or 3470 | 4 |
| CHEM 2323 | 4 CHEM 2325 | 4 |
| \& CHEM 2123 | \& CHEM 2125 |  |
| HIST $1301{ }^{4}$ | 3 HIST 1302 ${ }^{4}$ | 3 |
| MATH 1430, 3379, or STAT 3379 | 4 POLS $2305^{5}$ | 3 |
|  | 18 | 17 |
| Third Year |  |  |
| Fall | Hours Spring | Hours |
| BIOL 3450 or 3470 | 4 Component Area VIII | 3 |
| CHEM 3438 | 4 BIOL 4361 | 3 |
| PHYS 1301 | 4 Biomedical Elective ${ }^{6}$ | 4 |
| \& PHYS 1101 |  |  |
| POLS $2306{ }^{5}$ | 3 PHYS 1302 | 4 |
|  | \& PHYS 1102 |  |
|  | 15 | 14 |
| Fourth Year |  |  |
| Fall | Hours Spring | Hours |
| Biomedical or Free Electives ${ }^{6}$ | 13-14 Biomedical or Free Electives ${ }^{6}$ | 14 |
|  | 13-14 | 14 |

Total Hours: 120-121
1 Satisfies Core Curriculum requirement for Component Area III (Life and Physical Science).
2 Satisfies Core Curriculum requirement for Component Area I (Communications).
3 Satisfies Core Curriculum requirement for Component Area II (Mathematics).
4 Satisfies Core Curriculum requirement for Component Area VI (U.S. History).
5 Satisfies Core Curriculum requirement for Component Area VII (Political Science).
6 Biomedical Electives: ANSC 3373, BIOL 3409, BIOL 3420, BIOL 3440, BIOL 3460, BIOL 3480, BIOL 3490, BIOL 4095, BIOL 4410, BIOL 4350, BIOL 4360, BIOL 4363, BIOL 4380, BIOL 4460, BIOL 4480, BIOL 4490, BIOL 4493.

