# B.S. in Biology, Human Biological Sciences Option
## 2016/2017 Catalog

### Required Major Courses (C- or Better)

**Biology/Microbiology Core Courses—All Required**
- BIOB 160N/161N—Principles of Living Systems/Lab (4) - autumn, summer
- BIOB 170N/171N—Principles of Biological Diversity/Lab (5) - spring, summer
- BIOB 260—Cell and Molecular Biology (4) - autumn, summer
- BIOB 272—Genetics and Evolution (4) - spring

**Human Biology Major Courses—All Required**
- BIOB 301—Developmental Biology (3) - autumn
- BIOB 375—General Genetics (3) - spring
- BIOH 365—Human A&P I for Health Prof. (4) - autumn
- BIOH 370—Human A&P II for Health Prof. (4) - spring

**Biochemistry—Choose Basic or Advanced Sequence**

| Basic: BCH 380—Biochemistry (4) - autumn, spring | Advanced: BCH 480—Adv. Biochemistry I (3) - autumn |
| **BCH 486**—Biochemistry Research Lab (3) - spring | **BCH 482—Adv. Biochemistry II (3) - spring |
| **BIOB 410 (**411)**—Immunology (3) - autumn | **BIOE 406 (**409)**—Behavior & Evolution (3) - autumn |
| **BIOB 425**—Adv. Cell & Molec. Bio (3) - spring | **BIOH 462**—Princ. of Med. Physiology (3) - spring |
| BIOB 468—Endocrinology (3) - intermittent | BIOL 435—Comparative Animal Phys. (3) - spring |
| **BIOH 483—Phylogenetics & Evoln (3)** - intermittent (S17) | **BIOH 402 (403)**—Med. Bacteriol. & Mycology (3) - spring |
| BIOB 486—Genomics (3) - autumn | BIOH 410 (**411)**—Microbial Genetics (3) - spring |
| **BIOE 499**—Senior Thesis - any semester | BIOH 427/428—Parasitology/Lab (4) - autumn |
| **BIOE 403—Vertebrate Design & Evo (5)** - spring | BIOH 435—Virology (3) - spring |
| **CHMY 141N**—College Chemistry I (5) - autumn, summer | **BIOH 450 (451)**—Microbial Physiology (3) - autumn |
| **CHMY 143N**—College Chemistry II (5) - spring, summer | (Labs/Discussion sections in ( ) are optional) |

**Human Biology Depth—Choose at Least Two Courses from the Following**
- **BCH 486**—Biochemistry Research Lab (3) - spring
- **BCH 482**—Adv. Biochemistry II (3) - spring
- **BCH 480**—Adv. Biochemistry I (3) - autumn
- **BCH 486**—Biochemistry Research Lab (3) - spring
- **BIOB 410 (**411)**—Immunology (3) - autumn
- **BIOB 425**—Adv. Cell & Molec. Bio (3) - spring
- **BIOB 468—Endocrinology (3)** - intermittent
- **BIOB 483—Phylogenetics & Evoln (3)** - intermittent (S17)
- **BIOB 486—Genomics (3)** - autumn
- **BIOE 499**—Senior Thesis - any semester
- **BIOE 403—Vertebrate Design & Evo (5)** - spring
- **BIOE 406 (**409)**—Behavior & Evolution (3) - autumn
- **BIOH 462**—Princ. of Med. Physiology (3) - spring
- **BIOH 402 (403)**—Med. Bacteriol. & Mycology (3) - spring
- **BIOH 410 (**411)**—Microbial Genetics (3) - spring
- **BIOH 427/428—Parasitology/Lab (4)** - autumn
- **BIOH 435—Virology (3)** - spring
- **BIOH 450 (451)**—Microbial Physiology (3) - autumn

### Required Courses Outside of the Major (C- or Better)

**Mathematics, Psychology, & Physics—All Required**
- M 162—Applied Calculus (4) - autumn, spring [or M171 — Calculus I]
- STAT 216—Intro to Statistics (4) - autumn, spring, summer
- PSYX 100S—Introduction to Psychology (4) - autumn, spring, summer
- PHSX 205N/206N—College Physics I Lab (5) - autumn, spring, summer [or PHSX 215N/216N]
- PHSX 207N/208N—College Physics II Lab (5) - autumn, spring, summer [or PHSX 217N/218N]

**Chemistry—Choose Intro or Advanced Sequence**

| Intro: CHMY 121N—Intro General Chemistry (3) | Advanced: CHMY 141N—College Chemistry I (5) - autumn, spring |
| CHMY 123/124—Intro Organic/Biochem (5) | CHMY 143N—College Chemistry II (5) - spring, summer |
| (both offered autumn, spring, summer) | CHMY 221/222—Organic Chem I/Lab (5) - autumn |
| | CHMY 223/224—Organic Chem II/Lab (5) - spring |

*Advanced College Writing Requirement Met with a Total of Three Stars (***)

(3 *Courses) OR (1 **Course + 1 *Course) OR (1 ***Course)