BACHELOR OF SCIENCE IN INTEGRATED HUMAN BIOLOGY

2019 – 2020

Prerequisites

• Entering undergraduates must have at least a 2.5 cumulative GPA with a grade of C or better in all basic proficiency and science requirement courses.

• Prior to enrolling, students must have completed 90 quarter credits (60 semester credits), including a minimum number of credits in the basic proficiency/science requirements and general education categories.

Note: Students may apply to the program while completing prerequisite coursework.

Basic Proficiency and Science Requirements

Course

Credits

English Literature or Composition ..........................................................9
Precalculus..................................................................................................4
General Psychology ..................................................................................3
General Cell Biology (science-major level with lab).................................4
General Chemistry I & 2 (science-major level with labs)..............................8
Speech Communication or Public Speaking1..............................................3

1Students that complete a WA state college Direct Transfer Associate Degree (DTA) are not required to complete this course.

General Education Requirements

Course

Credits

Arts and Humanities ..................................................................................15
Social Sciences.............................................................................................15
Natural Sciences ...........................................................................................12
Electives2 ....................................................................................................17

2The number of elective credits may vary depending upon the exact number of quarter credits earned in the other prerequisite categories.

Junior Year (Year I)

Cat. No. Course Title FALL QUARTER Credits

BC3123 Organic Chemistry for Life Sciences Lecture/Lab1..........................6
BC3139 Human Biology Seminar..................................................................2
BC3148 Research Methods in Human Biology 1...........................................3
BC4116 Bioethics..........................................................................................3

Total 14

1BC3123 will be waived for students who have previously taken 10 hours of Organic Chemistry. Students who plan to apply to allopathic medical schools should take the two-quarter organic sequence offered in summer.

Cat. No. Course Title WINTER QUARTER Credits

BC3108 Physics 1 Lecture/Lab........................................................................5
BC3144 Integrated Biochemistry and Cell Biology.......................................6
BC3149 Research Methods in Human Biology 2..........................................3

Total 14

Senior Year (Year II)

Cat. No. Course Title FALL QUARTER Credits

BC3152 Integrated Human Biology 2 Lecture/Lab........................................6
BC4100 Microbiology Lecture/Lab.................................................................4
BC4108 Biophysics 2......................................................................................1
Advanced Programmatic Electives**.........................................................2
General Electives.........................................................................................3

Total 16

Cat. No. Course Title WINTER QUARTER Credits

BC4135 Biophysics 3......................................................................................1
BC4153 Integrated Human Biology 3 Lecture/Lab........................................6
BC4161 Advanced Cell and Molecular Biology............................................4
Advanced Programmatic Electives**.........................................................5

Total 16

Cat. No. Course Title SPRING QUARTER Credits

BC9104 Immunology.....................................................................................4
BC9108 Pathophysiology...............................................................................3
IS9115 Intestinal Microbiota.........................................................................3
Advanced Programmatic Electives**.........................................................4

Total 14

**Advanced Programmatic Electives

Cat. No. Course Title SPRING QUARTER Credits

BC9105 Laboratory Research Methods.......................................................2
BC9107 Virology............................................................................................3
BC9109 Advanced Musculoskeletal Anatomy with Palpation....................4
BC9112 Advanced Topics in Human Biology...............................................1
BC9117 Advanced Lab Research Methods..................................................2
BC9119 IHB Student Research.................................................................1-5
BC9130 Special Topics in Human Biology....................................................1-5
BC9134 Biology of Receptors.........................................................................3
BC9801 Internship........................................................................................1-5
TR9130 Obesity and Obesity-Related Diseases..........................................2

Total Requirements

Total Core Course Credits & Hours...........................................................76
Total General Elective Credits & Hours......................................................3
Total Advanced Programmatic Elective Credits & Hours...........................11
Total Requirements.....................................................................................90