## BIOH - Biology: Human

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Term Typically Offered</th>
<th>Prerequisite(s)</th>
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<tbody>
<tr>
<td>BIOH 104</td>
<td>Basic Human Biology</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Offers students with a basic understanding of human anatomy and physiology.</td>
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<tr>
<td>BIOH 105</td>
<td>Basic Human Biology Lab.</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Introduces the student to the structure and function of the human body in a lab</td>
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<tr>
<td>BIOH 201</td>
<td>Human Anatomy &amp; Physiology I.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Supplements concepts of human anatomy and physiology introduced in BIOH 201.</td>
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<tr>
<td>BIOH 202</td>
<td>Human Anatomy &amp; Phys I Lab.</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Supplements concepts of human anatomy and physiology. Entry is restricted to City College at MSU Billings students only.</td>
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<tr>
<td>BIOH 211</td>
<td>Human Anatomy &amp; Physiology II.</td>
<td>3</td>
<td>Fall, Spring</td>
<td>Continues the examination of functional human anatomy and physiology. Entry is restricted to City College at MSU Billings students only.</td>
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<tr>
<td>BIOH 212</td>
<td>Human Anatomy &amp; Phys II Lab.</td>
<td>1</td>
<td>Fall, Spring</td>
<td>Supplements concepts of human anatomy and physiology introduced in BIOH 211.</td>
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</tbody>
</table>

### Prerequisite(s) for BIOH courses
- BIOH 201
- BIOH 202
- BIOH 211
- BIOH 212

### Corequisite(s)
- BIOH 212
- BIOH 202
- BIOH 201
- BIOH 211

### Additional Information
- Lecture Hours: 3
- Lab Hours: 1
- Department: Health Occupations - COT
- Department: Sciences - Biology & Phys Sci

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### BIOH 382 Fundamentals of Medical Histology
- **Credits:** 2
- **Prerequisite(s):** BIOH 301 or consent of instructor.
- **Term Typically Offered:** (Odd Sp)
- **Description:** Provides a focused study of microscopic structure and function of human cells, tissues, and organs. The course integrates both lecture and laboratory experiences. Laboratory experience will emphasize identification of specimens via light microscopy.
- **Lab Hours:** 2
- **Department:** Sciences - Biology & Phys Sci

### BIOH 301 Human Anatomy & Physiology I
- **Credits:** 3
- **Term Typically Offered:** Fall
- **Prerequisite(s):** CHMY 121 or CHMY 141 and one General Education course chosen from the Life Sciences category (BIOB 121 is preferred).
- **Recommended:** CHMY 123. Includes detailed study of the physiology of cells, tissues, bone, muscle, and the nervous system. This is primarily a course for pre-professional students and those with a major in the health sciences.
- **Lecture Hours:** 3
- **Department:** Sciences - Biology & Phys Sci

### BIOH 302 Human Anatomy & Phys I Lab
- **Credits:** 1
- **Term Typically Offered:** Fall
- **Prerequisite(s):** One General Education course chosen from the Life Sciences category or concurrent enrollment in BIOH 301.
- **Includes:** Detailed study of the anatomy of skeletal, integumentary, muscle, and nervous systems. Includes examination of body parts at both the gross and microscopic levels.
- **Lab Hours:** 1
- **Department:** Sciences - Biology & Phys Sci

### BIOH 311 Human Anatomy & Physiology II
- **Credits:** 3
- **Term Typically Offered:** Spring
- **Prerequisite(s):** A grade of "C-" or better in BIOH 301, or consent of instructor.
- **Corequisite(s):** BIOH 312.
- **Includes:** Detailed study of sensory physiology, cardiovascular system, respiratory physiology, gastrointestinal system, renal physiology, endocrinology, and reproduction. Lab required.
- **Lecture Hours:** 3
- **Department:** Sciences - Biology & Phys Sci

### BIOH 312 Human Anatomy & Phys II Lab
- **Credits:** 1
- **Term Typically Offered:** Spring
- **Prerequisite(s):** BIOH 311.
- **Corequisite(s):** BIOH 312.
- **Requires:** A grade of "C-" or better in BIOH 301, or consent of instructor.
- **Lab Hours:** 1
- **Department:** Sciences - Biology & Phys Sci

### BIOH 383 Biology of Human Reproduction
- **Credits:** 2
- **Prerequisite(s):** BIOH 301 or consent of instructor.
- **(Even Sp)** Provides a focused study of the structure and function of the various human reproductive organs. Emphasis will be placed on the roles of the endocrine and nervous systems in influencing virtually all aspects of human reproduction. Clinical correlations involving typical pathologies will be included.
- **Lecture Hours:** 2
- **Department:** Sciences - Biology & Phys Sci

### BIOH 405 Hematology
- **Credits:** 3
- **Term Typically Offered:** Fall (odd years)
- **Prerequisite(s):** BIOH 301, BIOH 302, BIOH 311, BIOH 312.
- **Corequisite(s):** BIOH 406.
- **Studies:** The function, biochemistry, cell biology, and pathology of blood and its constituents.
- **Lecture Hours:** 3
- **Department:** Sciences - Biology & Phys Sci
BIOH 406 Hematology Lab. 1 Credit
Term Typically Offered: Fall (odd years)
Prerequisite(s): BIOH 301, BIOH 302, BIOH 311, BIOH 312.
Corequisite(s): BIOH 405.
Covers methods for examining white blood cells, red blood cells, and platelets. Includes the examination of abnormal blood cells, hemostasis, and fluorescent antibody cell sorting analysis.
Lab Hours 1
Department: Sciences - Biology & Phys Sci

BIOH 470 Summer Clinical Lab. 12-15 Credits
Prerequisite(s): Consent of instructor.
Studies clinical immunohematology, clinical chemistry theory, theory and practice of phlebotomy, clinical hemostasis, clinical microscopy and urinalysis, clinical body fluids, theory of modern transfusion techniques, and theory of clinical microbiology. This is the first part of the year-long professional training core. Clinical lab science fee applies.
Lab Hours 12-15
Department: Sciences - Biology & Phys Sci

BIOH 471 Professional Training I. 12-15 Credits
Prerequisite(s): Consent of Instructor.
Provides training at a clinical laboratory affiliate. Reviews clinical immunohematology, clinical chemistry theory, theory and practice of phlebotomy, clinical hemostasis, clinical microscopy and urinalysis, clinical body fluids, theory of modern transfusion techniques, and theory of clinical microbiology. Performs actual patient laboratory testing under the guidance of trained professionals. This is the second part of the year-long professional training core. Clinical lab science fee applies.
Lab Hours 12-15
Department: Sciences - Biology & Phys Sci

BIOH 472 Professional Training II. 12-15 Credits
Prerequisite(s): Consent of Instructor.
Provides training at a clinical laboratory affiliate. Covers financial and quality management information for the clinical laboratory, advanced immunohematology, clinical chemistry, clinical microbiology, and clinical hematology. This is the third part of the year-long professional training core. Clinical lab science fee applies.
Lecture Hours 12-15
Department: Sciences - Biology & Phys Sci

BIOH 491 Special Topics: Human Biology. 1-2 Credits
Term Typically Offered: Spring
Prerequisite(s): BIOH 301 and consent of instructor.
R-3 Provides advanced study of selected topics in human biology. Course content will vary and may include explorations of human reproductive biology, neurobiology, or microscopic anatomy.
Lecture Hours 1-2
Department: Sciences - Biology & Phys Sci