# Medical Sciences (B.S.)

To graduate in this program, students must earn a minimum grade of "C" in BIOL 115 and BIOL 115L. Required course work includes the university requirements (see regulation J-3 ([link](https://catalog.uidaho.edu/archive/2018-2019/general-requirements-academic-procedures/j-general-requirements-baccalaureate-degrees))) and:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 115</td>
<td>Cells &amp; the Evolution of Life</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 115L</td>
<td>Cells and the Evolution of Life Laboratory</td>
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<tr>
<td>BIOL 120</td>
<td>Human Anatomy</td>
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<tr>
<td>BIOL 121</td>
<td>Human Physiology</td>
<td>4</td>
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<tr>
<td>BIOL 204</td>
<td>Special Topics</td>
<td>1-16</td>
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<tr>
<td>BIOL 250</td>
<td>General Microbiology</td>
<td>3</td>
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<tr>
<td>BIOL 255</td>
<td>General Microbiology Lab</td>
<td>2</td>
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<tr>
<td>BIOL 310</td>
<td>Genetics</td>
<td>3</td>
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<tr>
<td>BIOL 312</td>
<td>Molecular and Cellular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 313</td>
<td>Molecular and Cellular Laboratory</td>
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</tr>
<tr>
<td>BIOL 315</td>
<td>Genetics Lab</td>
<td>1</td>
</tr>
<tr>
<td>BIOL 380</td>
<td>Biochemistry I</td>
<td>4</td>
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<tr>
<td>CHEM 111</td>
<td>Principles of Chemistry I</td>
<td>3</td>
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<tr>
<td>CHEM 111L</td>
<td>Principles of Chemistry I Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>CHEM 112</td>
<td>Principles of Chemistry II</td>
<td>4</td>
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<tr>
<td>CHEM 112L</td>
<td>Principles of Chemistry II Laboratory</td>
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<tr>
<td>CHEM 277</td>
<td>Organic Chemistry I</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 278</td>
<td>Organic Chemistry I Lab</td>
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<tr>
<td>MATH 170</td>
<td>Analytic Geometry and Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>PHIL 103</td>
<td>Ethics</td>
<td>3</td>
</tr>
<tr>
<td>PSYC 101</td>
<td>Introduction to Psychology</td>
<td>3</td>
</tr>
<tr>
<td>SOC 101</td>
<td>Introduction to Sociology</td>
<td>3</td>
</tr>
<tr>
<td>STAT 251</td>
<td>Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>or STAT 301</td>
<td>Probability and Statistics</td>
<td>3</td>
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</tbody>
</table>

Select one of the following Physics sequences: 8

- PHYS 111 & 111L General Physics I and General Physics I Lab
- PHYS 112 & 112L General Physics II and General Physics II Lab

OR

- PHYS 211 & 211L Engineering Physics I and Laboratory Physics I
- PHYS 212 & 212L Engineering Physics II and Laboratory Physics II

Select 3 credits of Written Communication courses from the following: 3

- ENGL 208 Personal & Exploratory Writing
- ENGL 317 Technical Writing
- ENGL 318 Science Writing

Select one of the following Senior Capstone courses: 2

- BIOL 401 Undergraduate Research (Max 8 credits)
- BIOL 405 Practicum in Anatomy Laboratory Teaching (Max 8 credits)
- BIOL 408 Practicum in Human Physiology Laboratory Teaching (Max 8 credits)
- BIOL 411 Senior Capstone

Select one of the following:

- ANTH 417 Social Data Analysis
- BIOL 456 Computer Skills for Biologists
- CHEM 302 Principles of Physical Chemistry
- MATH 437 Mathematical Biology
- STAT 431 Statistical Analysis

Select 3 credits of Critical Thinking courses from the following: 3

- ENGL 207 Persuasive Writing
- HIST 382 History of Biology: Conflicts and Controversies
- PHIL 201 Critical Thinking
- PHIL 202 Introduction to Symbolic Logic

Select 2-3 credits of Leadership and Professional courses from the following: 2-3

- BIOL 398 Internship
- MHR 311 Introduction to Management
- INTR 492 College of Science Ambassadors (Max 8 credits)
- INTR 496 Pre-Health Peer Mentors (Max 4 credits)
- PHIL 361 Professional Ethics (Max 6 credits)
- PSYC 414 Traumatic Events: Preparation, Intervention, Evaluation

Select 6 credits of Psychology courses from the following: 6

- PSYC 305 Developmental Psychology
- PSYC 311 Abnormal Psychology
- PSYC 325 Cognitive Psychology
- PSYC 372 Physiological Psychology
- PSYC 470 Introduction to Chemical Addictions
- PSYC 472 Introduction to the Pharmacology of Psychoactive Drugs

Select 6 credits of Global and Cultural Competence courses from the following: 6

- ANTH 327 Belief Systems
- ANTH 427 Racial and Ethnic Relations
- COMM 335 Intercultural Communication
- FCS 411 Global Nutrition
- HIST 380 Disease and Culture: History of Western Medicine
- JAMM 340 Cultural Diversity and the Media
- PHIL 367 Global Justice
- POLS 385 Political Psychology
- SOC 301 Introduction to Diversity and Stratification
- SOC 340 Social Change & Globalization
- SOC 344 Urban Sociology

Select 9 credits of Biomedical Sciences courses from the following: 9

- BE 425 Introduction to Biomedical Engineering
- BIOL 314 Ecology and Population Biology
- BIOL 324 Comparative Vertebrate Anatomy
- BIOL 421 Advanced Evolution/Population Dynamics
- BIOL 428 Microscopic Anatomy
- BIOL 432 Immunology
- BIOL 433 Pathogenic Microbiology
- BIOL 444 Genomics
- BIOL 447 Virology
- BIOL 454 Biochemistry II
Medical Sciences (B.S.)

<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>BIOL 461</td>
<td>Neurobiology</td>
</tr>
<tr>
<td>BIOL 474</td>
<td>Principles of Developmental Biology</td>
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<tr>
<td>BIOL 482</td>
<td>Protein Structure and Function</td>
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<tr>
<td>BIOL 487</td>
<td>Eukaryotic Molecular Genetics</td>
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<tr>
<td>CHEM 372</td>
<td>Organic Chemistry II</td>
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<tr>
<td>FCS 361</td>
<td>Advanced Nutrition</td>
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<tr>
<td>H&amp;S 450</td>
<td>Critical Health Issues</td>
</tr>
<tr>
<td>H&amp;S 451</td>
<td>Psychosocial Determinants of Health</td>
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</tbody>
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Total Hours 101-117

Courses to total 120 credits for this degree