

# B.S. Medical Sciences Four-Year Sample Curriculum 2019-2020

Requirements subject to change. See UI Catalog for complete degree requirements and additional information. Updated 2/19/19.

1 <sup>st</sup> Year – Fall Semester			1 <sup>st</sup> Year – Spring Semester		
<b>BIOL 151</b> <i>(Fall only)</i>	<b>Intro to the Health Professions</b>	1	<b>BIOL 115/115L</b>	<b>Cells &amp; the Evolution of Life &amp; Lab</b> <i>Pre-/Coreq: CHEM 101/101L or CHEM 111/111L</i> <u>minimum 'C' required to graduate</u>	4
<b>CHEM 111/111L</b>	<b>Principles of Chemistry I &amp; Lab</b> <i>Prereq: math test or min 'C' in CHEM 101, MATH 143 or 170</i>	4	<b>CHEM 112/112L</b>	<b>Principles of Chemistry II &amp; Lab</b> <i>Prereq: Chem 111/111L</i>	5
<b>MATH 170</b>	<b>Analytic Geometry and Calculus I</b> <i>Prereq: math test or min 'C' in MATH 143 and MATH 144 (co-req possible).</i>	4	<b>STAT 251 or STAT 301*</b>	<b>Statistical Methods or Probability &amp; Statistics</b> <i>Prereq: MATH 108, 137, 143, 160, or 170 or math test (SM); ^MATH 175 (P &amp; S)</i>	3
<b>ENGL 102</b>	<b>College Writing and Rhetoric</b> <i>Prereq: ENGL 101 or test scores</i>	3	<b>PSYC 101</b>	<b>Introduction to Psychology</b>	3
<b>ISEM 101</b>	<b>Integrated Seminar</b>	3			
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>15</b>
2 <sup>nd</sup> Year – Fall Semester			2 <sup>nd</sup> Year – Spring Semester		
<b>BIOL 120</b> <i>(Fall only)</i>	<b>Human Anatomy</b>	4	<b>BIOL 121</b> <i>(Spring only)</i>	<b>Human Physiology</b> <i>Prereq: BIOL 120</i>	4
<b>CHEM 277/278</b>	<b>Organic Chemistry I &amp; Lab</b> <i>Prereq: CHEM 112/112L</i>	4	<b>ENGL 208 or 317 or 318</b>	<b>Written Communication</b> <i>Prereq: ENGL 102 (all); Junior (317); Soph. (318)</i>	3
<b>BIOL 250/255</b> <i>(250 Fall only)</i>	<b>General Microbiology &amp; Lab</b> <i>Prereq: BIOL 115/115L and CHEM 101/101L or 111/111L</i>	5	* (see below)	<b>Psychology Elective</b> <i>Prereq: PSYC 101</i>	3
<b>SOC 101</b>	<b>Introduction to Sociology</b>	3	<b>PHIL 103</b>	<b>Ethics</b>	3
			* (see below)	<b>General Education Course/Elective</b>	3
	<b>Total Credits</b>	<b>16</b>		<b>Total Credits</b>	<b>16</b>
3 <sup>rd</sup> Year – Fall Semester			3 <sup>rd</sup> Year – Spring Semester		
<b>BIOL 380</b> <i>(Fall only)</i>	<b>Biochemistry I</b> <i>Prereq: CHEM 112/112L and CHEM 277</i>	4	<b>BIOL 312/313</b> <i>(Spring only)</i>	<b>Molecular and Cellular Biology &amp; Lab</b> <i>Prereq: BIOL 115/115L</i>	4
<b>PHYS 111/111L</b> or <b>PHYS 211/211L</b>	<b>General Physics I &amp; Lab or Engineering Physics I &amp; Lab</b> <i>Prereq: MATH 143 (GP); MATH 170 (EP)</i>	4	<b>PHYS 112/112L</b> <i>(Spring only)</i> or <b>PHYS 212/212L*</b>	<b>General Physics II &amp; Lab or Eng. Physics II &amp; Lab</b> <i>Prereq: PHYS 111/111L (GP); PHYS 211/211L and ^MATH 175 (EP)</i>	4
<b>BIOL 310/315</b> <i>(Fall only)</i>	<b>Genetics &amp; Lab</b> <i>Prereq: BIOL 115/115L or BIOL 250</i>	4	<b>ISEM 301</b>	<b>Great Issues Seminar</b> <i>Prereq: ENGL 102 &amp; Sophomore standing</i>	1
* (see below)	<b>Critical Thinking Elective</b>	3	* (see below)	<b>Global and Cultural Competence Elective</b>	3
			* (see below)	<b>Leadership and Professional Elective</b>	2
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>14</b>
4 <sup>th</sup> Year – Fall Semester			4 <sup>th</sup> Year – Spring Semester		
* (see below)	<b>Biomedical Sciences Elective</b>	3	<b>Senior Capstone</b>	<b>BIOL 401 or BIOL 405 (Fall) or BIOL 408 (Spring) or BIOL 411 (Spring)</b>	2
* (see below)	<b>Biomedical Sciences Elective</b>	3	* (see below)	<b>Biomedical Sciences Elective</b>	3
* (see below)	<b>Analysis/Computer/Math Skills Elective</b>	3	* (see below)	<b>Global and Cultural Competence Elective</b>	3
* (see below)	<b>Psychology Elective</b> <i>Prereq: PSYC 101</i>	3		<b>General Education Course/Elective</b>	3
	<b>General Education Course/Elective</b>	3		<b>General Education Course/Elective</b>	3
	<b>Total Credits</b>	<b>15</b>		<b>Total Credits</b>	<b>14</b>

## Electives

- **Analysis/Computer/Math Skills:** ANTH 417, BIOL 456, CHEM 302, MATH 437, STAT 431
- **Biomedical Sciences:** BE 425, BIOL 314, BIOL 324, BIOL 421, BIOL 428, BIOL 432, BIOL 433, BIOL 444, BIOL 447, BIOL 454, BIOL 461, BIOL 474, BIOL 482, BIOL 487, CHEM 372, FCS 361, H&S 450, H&S 451
- **Critical Thinking:** ENGL 207, HIST 382, PHIL 201, PHIL 202
- **Global and Cultural Competence:** ANTH 327, ANTH 427, COMM 335, FCS 411, HIST 380, JAMM 340, PHIL 367, POLS 385, SOC 301, SOC 340, SOC 344
- **Leadership & Professionalism Course:** BIOL 398, MHR 311, INTR 492, INTR 496, PHIL 361, PSYC 414
- **Psychology:** PSYC 305, PSYC 311, PSYC 325, PSYC 372, PSYC 470, PSYC 472