

B.S. Medical Sciences Four-Year Sample Curriculum 2020-2021

Requirements subject to change. See UI Catalog for complete degree requirements and additional information. Updated 2/24/20.

1 st Year – Fall Semester			1 st Year – Spring Semester		
BIOL 151 <i>(Fall only)</i>	Intro to the Health Professions	1	BIOL 115/115L	Cells & the Evolution of Life & Lab <i>Prereq:</i> CHEM 101/101L or CHEM 111/111L minimum 'C' required to graduate	4
CHEM 111/111L	Principles of Chemistry I & Lab <i>Prereq:</i> math test or min 'C' in CHEM 101, MATH 143 or 170	4	CHEM 112/112L	Principles of Chemistry II & Lab <i>Prereq:</i> Chem 111/111L	5
MATH 170	Analytic Geometry and Calculus I <i>Prereq:</i> math test or min 'C' in MATH 143 and MATH 144 (co-req possible).	4	STAT 251 or STAT 301*	Statistical Methods or Probability & Statistics <i>Prereq:</i> MATH 108, 137, 143, 160, or 170 or math test (SM); ^MATH 175 (P & S)	3
ENGL 102	College Writing and Rhetoric <i>Prereq:</i> ENGL 101 or test scores	3	PSYC 101	Introduction to Psychology	3
	General Education Course/Elective	3			
	Total Credits	15		Total Credits	15
2 nd Year – Fall Semester			2 nd Year – Spring Semester		
BIOL 227 <i>(Fall only)</i>	Anatomy & Physiology I <i>Prereq:</i> BIOL 115 or BIOL 102	4	BIOL 228 <i>(Spring only)</i>	Anatomy & Physiology II <i>Prereq:</i> BIOL 277	4
CHEM 277/278	Organic Chemistry I & Lab <i>Prereq:</i> CHEM 112/112L	4	ENGL 208 or 317 or 318	Written Communication <i>Prereq:</i> ENGL 102 (all); Junior (317); Soph. (318)	3
BIOL 250/255 <i>(250 Fall only)</i>	General Microbiology & Lab <i>Prereq:</i> BIOL 115/115L and CHEM 101/101L or 111/111L	5	* (see below)	Psychology Elective <i>Prereq:</i> PSYC 101	3
SOC 101	Introduction to Sociology	3	PHIL 103	Ethics	3
			* (see below)	General Education Course/Elective	3
	Total Credits	16		Total Credits	16
3 rd Year – Fall Semester			3 rd Year – Spring Semester		
BIOL 380 <i>(Fall only)</i>	Biochemistry I <i>Prereq:</i> CHEM 112/112L and CHEM 277	4	BIOL 312/313 <i>(Spring only)</i>	Molecular and Cellular Biology & Lab <i>Prereq:</i> BIOL 115/115L	4
PHYS 111/111L or PHYS 211/211L	General Physics I & Lab or Engineering Physics I & Lab <i>Prereq:</i> MATH 143 (GP); MATH 170 (EP)	4	PHYS 112/112L <i>(Spring only)</i> or PHYS 212/212L*	General Physics II & Lab or Eng. Physics II & Lab <i>Prereq:</i> PHYS 111/111L (GP); PHYS 211/211L and ^MATH 175 (EP)	4
BIOL 310/315 <i>(Fall only)</i>	Genetics & Lab <i>Prereq:</i> BIOL 115/115L or BIOL 250	4	* (see below)	Global and Cultural Competence Elective	3
* (see below)	Critical Thinking Elective	3	* (see below)	Leadership and Professional Elective	2
	Total Credits	15		Total Credits	13
4 th Year – Fall Semester			4 th Year – Spring Semester		
* (see below)	Biomedical Sciences Elective	3	Senior Capstone	BIOL 401 or BIOL 405 or BIOL 408 <i>(Fall and Spring)</i> or BIOL 411 <i>(Spring only)</i>	2
* (see below)	Biomedical Sciences Elective	3	* (see below)	Biomedical Sciences Elective	3
* (see below)	Analysis/Computer/Math Skills Elective	3	* (see below)	Global and Cultural Competence Elective	3
* (see below)	Psychology Elective <i>Prereq:</i> PSYC 101	3		General Education Course/Elective	3
	General Education Course/Elective	3		General Education Course/Elective	3
	Total Credits	15		Total Credits	14

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