B.S. Medical Sciences Four-Year Sample Curriculum 2024-2025

Requirements subject to change. See UI Catalog for complete degree requirements and additional information. Updated 3/14/24.

1st Year – Fall Semester			1st Year – Spring Semester		
BIOL 101 *(Fall only)*	**Opportunities in Biological Sciences**	1	**BIOL 115/115L**	**Cells & the Evolution of Life & Lab** *Prereq:* CHEM 101 or CHEM 111 minimum 'C' required to graduate	4
BIOL 151 *(Fall only)*	**Intro to the Health Professions**	1	**CHEM 112/112L**	**Principles of Chemistry II & Lab** *Prereq:* Chem 111/111L	5
CHEM 111/111L	**Principles of Chemistry I & Lab** *Prereq:* math test or min 'C' in CHEM 101, MATH 143 or 170	4	**STAT 251** or **STAT 301**	**Statistical Methods** or **Probability & Statistics** *Prereq:* MATH 108, 137, 143, 160, or 170 ; MATH 175 for STAT 301	3
MATH 170	**Analytic Geometry and Calculus I** *Prereq:* math test or min 'C' in MATH 143 and MATH 144 (co-req possible).	4	**PSYC 101**	**Introduction to Psychology**	3
ENGL 102	**College Writing and Rhetoric** *Prereq:* ENGL 101 or test scores	4			
	General Education Course/Elective	3			
	Total Credits	**17**		**Total Credits**	**15**
2nd Year – Fall Semester			2nd Year – Spring Semester		
BIOL 227 *(Fall only)*	**Anatomy & Physiology I** *Prereq:* BIOL 115 or BIOL 102	4	**BIOL 228** *(Spring only)*	**Anatomy & Physiology II** *Prereq:* BIOL 277	4
CHEM 277/278	**Organic Chemistry I & Lab** *Prereq:* CHEM 112/112L	4	**ENGL 202 or 207 or 208** or **317** or **318 or 320**	**Written Communication** *Prereq:* ENGL 102; Soph stand. 320; jr. stand 317, 318	3
BIOL 250/255 *(250 Fall only)*	**General Microbiology & Lab** *Prereq:* BIOL 115/115L and CHEM 101/101L or 111/111L	5	* (see below)	**Psychology Elective** *Prereq:* 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**
3rd Year – Fall Semester			3rd Year – Spring Semester		
BIOL 380 *(Fall only)*	**Biochemistry I** *Prereq:* CHEM 112/112L and CHEM 277	4	**BIOL 312/313** *(Spring only)*	**Molecular and Cellular Biology & Lab** *Prereq:* BIOL 115/115L and BIOL 310/315 or GENE 314 or BIOL 250	4
PHYS 111/111L or **PHYS 211/211L**	**General Physics I & Lab** or **Engineering Physics I & Lab** *Prereq:* MATH 143 (GP); MATH 170 (EP)	4	**PHYS 112/112L** *(Spring only)* or **PHYS 212/212L***	**General Physics II & Lab** or **Eng. Physics II & Lab** *Prereq:* PHYS 111/111L (GP); PHYS 211/211L and ^MATH 175 (EP)	4
BIOL 310/315 *(Fall only)*	**Genetics & Lab** *Prereq:* 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**
4th Year – Fall Semester			4th Year – Spring Semester		
* (see below)	**Biomedical Sciences Elective**	3	**Capstone Experience**	**BIOL 401** or **BIOL 407** or **BIOL 408** *(Fall and Spring)* or **BIOL 411** *(Spring only)*	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** *Prereq:* PSYC 101	3		**General Education Course/Elective**	3
	General Education Course/Elective	3		**General Education Course/Elective**	3
	Total Credits	**15**		**Total Credits**	**14**

MedSci Electives: Analysis/Computer/Math Skills: ANTH 417, BIOL 456, CHEM 302, MATH 437, STAT 431 **Biomedical Sciences:** BIOL 314, BIOL 340, BIOL 421, BIOL 428, BIOL 432, BIOL 433, BIOL 444, BIOL 447, BIOL 454, BIOL 461, BIOL 474, BIOL 482, BIOL 487, CHEM 372, ENT 411, ENT 476, FN 415, H&S 450, H&S 451, PLSC 440 **Critical Thinking:** ENGL 207, PHIL 201, PHIL 202, PHIL 417 **Global and Cultural Competence:** ANTH 327, COMM 335, HIST 380, JAMM 340, POLS 385, SOC 201, SOC 301, SOC 340, SOC 427 **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   Additional classes can be substituted with prior approval from advisor and chairperson