

MEDICAL TECHNOLOGY EMPHASIS

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The Medical Technology option prepares the student for application and entry to the one-year internship programs in hospitals for Medical Technology or Clinical Laboratory Sciences. A student must have a bachelor's degree plus the internship training to be allowed to sit for the licensing exam. Med Tech programs in Colorado include Parkview Hospital in Pueblo, UCCS program with Penrose Hospital in Colorado Springs, and Colorado Health in Denver. The student will obtain their bachelor's degree in biology from CSU-Pueblo upon the successful completion of their internship.

http://www.parkviewmc.com/pmc.nsf/view/schoolofmedicaltech

http://medlabed.org/

There are two different options of study for students:

- 3 + 1 Option- On-campus required courses are completed in the first three years. Internship is applied for during the student's third year with the internship serving as the senior year. Student Is enrolled at CSU-Pueblo during internship and eligible for financial aid. Bachelor's degree is conferred upon successful completion of internship.
- 4 + 1 Option- Internship is applied for during the student's senior year and a bachelor's degree in biology is completed before beginning the internship.

Specific requirements for the Biology 3 + 1 Med Tech degree emphasis:

Biology Courses	Course Name	Cr.	Semester
BIOL 171	Career Planning	1	
BIOL 181/L	College Biology I-Organismal/Lab	4	
BIOL 182/L	College Biology II-Cellular/Lab	4	
BIOL 201/L or 202/L	Botany or Zoology/Lab	4	
BIOL 301/L	General Microbiology/Lab	5	
BIOL 302/L	Medical Microbiology/Lab	4	
BIOL 350	Mendelian and Population Genetics	2	
BIOL 351/L	Molecular Biology and Genetics/Lab	4	
BIOL 352	Evolutionary Biology and Ecology	3	
BIOL 402	Immunology	3	
BIOL 414/L OR BIOL 412/L	Vertebrate Physiology/Lab OR Cellular Biology/Lab	4	
BIOL 493	Seminar	1	
	Biology Total	39	
Chemistry Courses			
CHEM 121/L	General Chemistry I/Lab	5	
CHEM 122/L	General Chemistry II/Lab	5	
CHEM 301/L	Organic Chemistry I/Lab	5	
CHEM 302/L	Organic Chemistry II/Lab	5	
CHEM 311 or 411	Biochemistry	3	
	Chemistry Total	23	
Math and Physics			
MATH 124 or 221	Pre-Calculus or Applied Calculus	5 or 4	
PHYS 201/L	Principles of Physics I/Lab	4	
PHYS 202/L	Principles of Physics II/Lab	4	
	Total	12-13	
General Education			
ENG 101/102	English Composition I and II	6	
SPCOM 103	Speaking and Listening	3	
General Education	Humanities, Social Science, History	15	
	Total	24	
Hospital Internship T	raining (year 4)		
BIOL 473, 474 & 475	Med Tech Clinical Rotation I, II & III	30	
	Overall Total	129-130	

Note: Some Hospital Internship programs <u>require</u> Quantitative Analysis CHEM 317/317L (5 credits)

Specific requirements for the Biology 4 + 1 Med Tech degree emphasis

Biology Courses	Course Name	Cr.	Semester
BIOL 171	Career Planning	1	
BIOL 181/L	College Biology I-Organismal/Lab	4	
BIOL 182/L	College Biology II-Cellular/Lab	4	
BIOL 201/L or 202/L	Botany or Zoology/Lab	4	
BIOL 301/L	General Microbiology/Lab	5	
BIOL 302/L	Medical Microbiology/Lab	4	
BIOL 350	Mendelian and Population Genetics	2	
BIOL 351/L	Molecular Biology and Genetics/Lab	4	
BIOL 352	Evolutionary Biology and Ecology	3	
BIOL 402	Immunology	3	
BIOL 414/L OR	Vertebrate Physiology/Lab OR	4	
BIOL 412/L	Cellular Biology/Lab		
BIOL 493	Seminar	1	
Biology UD Electives	See Department Electives Sheet	3	
	Biology Total	42	
Chemistry Courses			
CHEM 121/L	General Chemistry I/Lab	5	
CHEM 122/L	General Chemistry II/Lab	5	
CHEM 301/L	Organic Chemistry I/Lab	5	
CHEM 302/L	Organic Chemistry II/Lab	5	
CHEM 311 or 411	Biochemistry	3	
	Chemistry Total	23	
Math and Physics			
MATH 221	Applied Calculus	4	
MATH 156	Intro to Statistics	3	
PHYS 201/L	Principles of Physics I/Lab	4	
PHYS 202/L	Principles of Physics II/Lab	4	
	Total	15	
General Education			
ENG 101/102	English Composition I and II	6	
SPCOM 103	Speaking and Listening	3	
General Education	Humanities, Social Science, History	15	
University-Wide Electives		16	
	Total	40	
	Overall Total	120	

Note: Some hospital internship programs <u>require</u> Quantitative Analysis CHEM 317/317L (5 credits)

Suggested University Electives

Course	Course Name	Cr.	1 1
BIOL 223/L	Human Anatomy and Physiology I/Lab	4_	
BIOL 224/L	Human Anatomy and Physiology II/Lab	4	
BIOL 321/L	Comparative Vertebrate Anatomy	4	
BIOL 421/L	Histology/Lab	4	
CHEM 317/L	Quantitative Analysis	5	
CHEM 412/L	Biochemistry II/Lab	5	
CHEM 419/L	Instrumental Analysis/Lab	5	
MGMT 201	Principles of Management	3	