

Medical Laboratory Technician, AS



Casper College

FRESHMAN YEAR

Fall Semester				Hrs	Spring Semester				Hrs
MATH	1400	Pre-Calculus Algebra		4	ENG	1010	English I: Composition		3
MLTK	1500	Hematology		3	MLTK	1600	Clinical Immunohematology		3
MOLB	2210	General Microbiology		4	MLTK	1700	Microscopy: UA Body Fluids		2
HU	HUE	Humanities Elective		3	MLTK	2600	Clinical Microbiology I		2
SOC	1000	Introduction to Sociology	OR		BIOL	1010	General Biology I		4
ANTH	1200	Anthropology	OR	3	FA	FAE	Fine Arts Elective		3
PSYC	1000	General Psychology							
TOTAL				<u>17</u>	TOTAL				<u>17</u>

SOPHOMORE YEAR

Fall Semester				Hrs	Spring Semester				Hrs
COMM	2010	Public Speaking		3	MLTK	2971	Clinical Practicum: Hematology		2
MLTK	2500	Clinical Chemistry		3	MLTK	2972	Clinical Practicum: Chemistry		2
MLTK	2650	Clinical Microbiology II		2	MLTK	2973	Clinical Practicum: Immunohematology		2
MLTK	2700	Immunology		4	MLTK	2974	Clinical Practicum: Microbiology		2
POLS	1000	American and Wyoming Government		3	MLTK	2976	Clinical Practicum: Serology		1
					MLTK	2977	Clinical Practicum: UA / Body Fluids		1
					MLTK	2978	Clinical Practicum: MLT Professionalism		1
					MLTK	2800	Clinical Pathophysiology		4
					PEAC		Online Activity		1
TOTAL				<u>15</u>	TOTAL				<u>16</u>

SUMMER SEMESTER

				Hrs
	CHEM	1025	Chemistry I	3
	CHEM	1028	Chemistry Lab I	1
	CHEM	1000	Intro to Chemistry	
	MLTK	1800	Principles of Phlebotomy	3
TOTAL				<u>7</u>
TOTAL CASPER AS DEGREE HOURS				<u>72</u>

Successful completion of the 2+2 plan requires that a student remain continuously enrolled and graduate with the associate's degree from his or her respective community college. • This is a guide for course work in the major; actual course sequence may vary by student. Please refer to the online student degree evaluation. • Not all courses are offered every semester and some electives may have prerequisites. Students should review the course descriptions in the catalogs of their respective institutions and consult with their academic advisor to plan accordingly. • Academic plans and course schedules may need to be altered if ACT or Math Placement scores require a student to take pre-college courses (e.g., MATH 0900, 0921, or 0925) before taking required math or English courses.

Medical Laboratory Science, BS



University of Wyoming

JUNIOR YEAR

Fall Semester				Hrs	Spring Semester				Hrs
CHEM	2300	Introduction to Organic Chemistry		4	STAT	2050	Fundamentals of Statistics		4
		Select a minimum of 8 credits from the following list:		8	MOLB	3610	Principles of Biochemistry		4
		*LIFE 3050 (4cr), LIFE 3600 (4cr), PHCY 4050 (3cr), PHCY 4241 (3cr), PHCY 4441 (3cr)			UD	ELEC	Upper Division Elective		1
							Select a minimum 3 credits from the following list:		3
							**MOLB 3000 (3cr), PSYCH 4300 (3cr), SOC 3000 (3cr)		
							SOC 3550 (3cr)		
TOTAL				<u>12</u>	TOTAL				<u>12</u>

SENIOR YEAR

Fall Semester				Hrs	Spring Semester				Hrs
MLSK	4840	Laboratory Education Methodology		1	MLSK	4981	Adv Clinical Practicum: Hematology		3
MLSK	4850	Clinical Research Design		2	MLSK	4982	Adv Clinical Practicum: Molecular		3
MLSK	4860	Laboratory Management		3	MLSK	4983	Adv Clinical Practicum: Immunohem		3
MLSK	4870	Adv Clinical Chemistry		4	MLSK	4984	Adv Clinical Practicum: Microbiology		3
MLSK	4880	Adv Hematology: Erythrocytes		2	MLSK	4890	Prof. Career Paths and Review		2
TOTAL				<u>12</u>	TOTAL				<u>14</u>
					TOTAL UW HOURS				<u>50</u>
					TOTAL UW BA DEGREE HOURS				<u>122</u>

Casper College requirements:

In order to graduate, students must successfully complete a minimum of 60 approved credit hours, with 15 of the last 30 semester hours completed as a degree-seeking student at Casper College, and with a grade point average of 2.0 or higher in those courses counted toward graduation. • Students must earn at least 24 of the semester credits applied toward graduation through the completion of Casper College coursework, including at least six (6) hours with the desired major. • Only courses numbered 1000 or above can be used toward the degree.

University of Wyoming requirements:

Students must have a minimum cumulative GPA of 2.0 to graduate. • Students must complete 42 hours of upper division (3000-level or above) coursework, 30 of which must be from the University of Wyoming. • Courses must be taken for a letter grade unless offered only for S/U.

UW Program Notes:

The UW component of this program is only available at the UW-Casper campus.

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LIFE 3050 Genetics (4cr)
 LIFE 3600 Cell Biology (4cr)
 PHCY 4050 Evolution of American Health (3 cr)
 PHCY 4241 Biopharmaceutical Regulatory Compliance (3cr)
 PHCY 4441 Intro to Health Institutional Leadership (3cr)
 OR course approved by the Program Director

MOLB 3000 Intro to Molecular Biology (3cr) (Prerequisite Gen CHEM II)
 PSYCH 4300 Adolescent Development (3cr)
 SOC 3000 Social Change (3cr)
 SOC 3550 Medical Sociology (3cr)
 Or course approved by the Program Director