

BACHELOR OF APPLIED SCIENCE

BACHELOR OF APPLIED SCIENCE

The Medical Laboratory Scientist (MLS) is an important member of the health care team in hospitals, clinics, medical research and teaching centers, and is an indispensable participant with physicians in providing critical diagnostic information. The MLS functions as a dependable, ambitious and highly motivated professional capable of handling high stress situations with ease and confidence.

The Medical Laboratory Scientist performs and interprets diagnostic laboratory procedures using state-of-the-art instrumentation to aid in the detection, diagnosis and treatment of disease; monitors the standards of accuracy and precision in the performance of tests; performs routine maintenance; analyzes and corrects instrument problems; researches, evaluates and implements new procedures; and may be responsible for fiscal/personnel management of laboratory.

The Bachelor of Applied Science degree in Medical Laboratory Scientist combines academic and laboratory courses on campus with practical experience at clinical affiliate sites. The BAS in Medical Laboratory Scientist Program will seek program accreditation through the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS).

STUDENT LEARNING OUTCOMES - Graduates of this program will have the opportunity to:

- Demonstrate comprehension of concepts and techniques in all major clinical laboratory disciplines.
- Demonstrate the knowledge and skills necessary to perform and interpret complex laboratory procedures.
- Perform and interpret associated quality assurance procedures.
- Develop skills in leadership, resource management, research and teaching.
- Demonstrate entry-level competencies necessary to secure employment as a medical laboratory scientist.

GENERAL EDUCATION REQUIREMENTS (54 Credits):

SPECIAL PROGRAM REQUIREMENTS (66 Credits):

	CR	SEMESTER
COMMUNICATIONS: ENG 100, 101, 113	3-5	_____
ENGLISH: ENG 102 or 114 and ENG 333	6	_____
HUMAN RELATIONS: ALS 101, ANTH 101, 112, 201, 205, HIST 105, 106, 107, 150, 151, 210, 247, 260, HMS 130, 135B, 265B, MGT 100B, 283, PHIL 135, PSC 201, PSY 101, 102, 207, 208, 261, SOC	3	_____
MATHEMATICS: MATH 124 or above	3	_____
SCIENCE: BIOL 196, 197, 214 or BIOL 214, 223, 224 and CHEM 110, 111, 220 or CHEM 121, 122, 220	23	_____
FINE ARTS/HUMANITIES/ SOCIAL SCIENCES: ECON 261, PHIL 302, PHIL 311 Plus 3 credits from the following: AM, ANTH, ART, COM, ECON, ENG 223 or above, GEOG 106 or above, HIST, International Languages, Music, PHIL, PSC, PSY SOC, THTR, WMST 113	12	_____
U.S. AND NEVADA CONSTITUTIONS: PSC 101 or HIST 101 and HIST 102 or HIST 101 and HIST 217	4-6	_____

	CR	SEMESTER
CLS 151 Phlebotomy	2	_____
CLS 152 Applied Phlebotomy	2	_____
CLS 153 Phlebotomy Clinical Practicum	2	_____
CLS 161 Urinalysis and Body Fluids	1	_____
CLS 162 Applied Urinalysis and Body Fluids	1	_____
CLS 241 Clinical Chemistry I	3	_____
CLS 242 Applied Clinical Chemistry I	2	_____
CLS 251 Immunology/Immunoematology I	2	_____
CLS 252 Applied Immunology/Immunoematology I	2	_____
CLS 265 Laboratory Operations I	1	_____
CLS 271 Clinical Microbiology I	3	_____
CLS 272 Applied Clinical Microbiology I	2	_____
CLS 291 Hematology I	2	_____
CLS 292 Applied Hematology I	2	_____
CLS 294 Clinical Practicum I	2	_____
CLS 295 Clinical Practicum II	2	_____
CLS 296 Clinical Practicum III	4	_____
CLS 365 Laboratory Operations II	1	_____
CLS 446 Clinical Chemistry II	2	_____
CLS 447 Applied Clinical Chemistry II	1	_____
CLS 448 Hematology II	2	_____
CLS 449 Applied Hematology II	1	_____
CLS 456 Immunology/Immunoematology II	2	_____
CLS 457 Applied Immunology/Immunoematology II	1	_____
CLS 476 Clinical Microbiology II	2	_____
CLS 477 Applied Clinical Microbiology II	1	_____
CLS 478 Research Methods	2	_____
CLS 491 Clinical Practicum - Chemistry	4	_____
CLS 493 Clinical Practicum - Immunology/Immunoematology	4	_____
CLS 495 Clinical Practicum - Microbiology	4	_____
CLS 497 Clinical Practicum - Hematology	4	_____

This is a limited-entry program. Some of these courses are program prerequisites and MUST be completed before a student is considered eligible for entry into the Program. Students MUST attend a Health Programs orientation and meet with a Health Programs advisor for additional advisement.

120
MLS-BAS Total Credits

Students may elect to graduate using the degree requirements in effect at the time of matriculation, or when they declared or changed major or the current catalog. If a program is official after a student has matriculated, the student may choose the degree requirements of the new program. In no case may a student use a catalog which is more than six years old at the time of graduation.

Guided Pathway
Bachelor of Applied Science (BAS) - Medical Laboratory Scientist (MLS)
Total Credits 120

Spring Semester	Requirement	Credit Hours	Term
ENG 100, 101, or 113	English	3-5	
MATH 124 or above*	Math	3	
BIOL 196 or 223	Science	4	
Human Relations	Human Relations	3	
Fine Arts/Humanities	Humanities	3	
	TOTAL	16	
Fall Semester	Requirement	Credit Hours	Term
ENG 102,114	English	3	
CHEM 110 or 121**	Science	4	
ECON 261	SS/Humanities	3	
US/NV Constitution	US/NV Constitution	4-6	
	TOTAL	14	
Spring Semester	Requirement	Credit Hours	Term
CLS 161	Program	1	
CLS 162	Program	1	
CLS 265	Program	1	
CLS 271	Program	3	
CLS 272	Program	2	
CHEM 111 or 122	Science	4	
ENG 333	English	3	
	TOTAL	15	
Summer Semester	Requirement	Credit Hours	Term
CLS 294	Program	2	
	TOTAL	2	
Fall Semester	Requirement	Credit Hours	Term
CLS 151	Program	2	
CLS 152	Program	2	
CLS 153	Program	2	
CLS 241	Program	3	
CLS 242	Program	2	
BIOL 197 or 224	Science	4	
	TOTAL	15	
Spring Semester	Requirement	Credit Hours	Term
CLS 251	Program	2	
CLS 252	Program	2	
CLS 291	Program	2	
CLS 292	Program	2	
BIOL 214	Science	3	
	TOTAL	11	
Summer Semester	Requirement	Credit Hours	Term
CLS 295	Program	2	
CLS 296	Program	4	
	TOTAL	6	
Fall Semester	Requirement	Credit Hours	Term
CLS 365	Program	1	
CLS 476	Program	2	
CLS 477	Program	1	
CLS 448	Program	2	
CLS 449	Program	1	

PHIL 302	FA/SS/Humanities	3	
	TOTAL	10	
Spring Semester	Requirement		Term
CLS 446	Program	2	
CLS 447	Program	1	
CLS 456	Program	2	
CLS 457	Program	1	
CLS 478	Program	2	
PHIL 311	Humanities	3	
	TOTAL	11	
Summer Semester	Requirement	Credit Hours	Term
CHEM 220	Science	4	
	TOTAL	4	
Fall Semester	Requirement	Credit Hours	Term
CLS 491	Program	4	
CLS 493	Program	4	
CLS 495	Program	4	
CLS 497	Program	4	
	TOTAL	16	
	Degree TOTAL	120	

* Note-Prerequisite for Math 124 includes Math 096 or 097 with a grade of "C" or better; or a satisfactory ACT/SAT/Placement test score.

** Note – CHEM 121 requires MATH 127 or MATH 128 as prerequisite or concurrent enrollment. Also requires CHEM 103 or CHEM 110 or a passing score on the Chemistry Placement Exam.

*** Note – Due to the high rigor of the MLS program, it is highly recommended that students complete all general education requirements before applying to the program.

**** Note-CLS courses must be taken in the order indicated.

Comments_____
