

MEDICAL LABORATORY SCIENCES - BIOMEDICAL (BS)

Degree: Bachelor of Science

Major: Medical Laboratory Sciences - Biomedical

Total Hours: 120

Code	Title	Hours
General Education Core Curriculum		
<i>Communication</i>		
ENGL 1301	Composition I	3
Select one of the following:		3
ENGL 1302	Composition II	
COMM 1315	Public Speaking I	
COMM 1321	Business and Prof Speech	
FREN 1311	Beginning French I	
SPAN 1311	Beginning Spanish I	
<i>Mathematics</i>		
MATH 1314	College Algebra	3
	or MATH 2312 Pre Calculus and Elementary Functions	
<i>Life and Physical Sciences</i>		
BIOL 1406	General Biology I (Majors)	4
BIOL 1407	General Biology II (Majors)	4
<i>Language, Philosophy and Culture</i>		
ENGL 2300	Ethics and Literature	3
<i>Creative Arts</i>		
Select one of the following:		3
ARTS 1301	Art Appreciation	
ARTS 1303	Art History I	
COMM 1375	Film Appreciation	
COSC 1324	The Art of Computer Game Development	
DANC 2303	Dance Appreciation	
MUSI 1306	Music Appreciation	
MUSI 1309	Jazz History and Appreciation	
MUSI 1310	History of Rock and Roll	
PHIL 1330	Arts and Ideas	
THEA 1310	Theatre Appreciation	
<i>American History</i>		
Select two of the following:		6
HIST 1301	U S History I 1763-1877	
HIST 1302	U S History II Since 1877	
HIST 2301	Texas History	
<i>Government/Political Science</i>		
POLS 2301	Intro to American Government I	3
POLS 2302	Intro/American Government II	3
<i>Social and Behavioral Sciences</i>		
Select one of the following:		3
ANTH 2346	Introduction to Anthropology	
ANTH 2351	Cultural Anthropology	
BULW 1370	Business Environment and Public Policy	
CRIJ 1301	Intro to Criminal Justice	

ECON 1301	Principles and Policies	
ECON 2301	Principles of Economics I Macro	
ECON 2302	Principles of Economics II Micro	
FINC 2310	Intro to Consumer Finance	
INEN 2373	Engineering Economics	
POLS 1301	Intro to Political Science	
PSYC 2301	General Psychology	
PSYC 2315	Lifespan Development	
SOCI 1301	Introduction to Sociology	
SOWK 2361	Intro Social Work	

Component Area Option

CHEM 1311	General Chemistry I	3
CHEM 1312	General Chemistry II	3

Required Major Courses

BIOL 2421	Microbiology for Science Majors	4
BIOL 3440	Advanced Physiology	4
BIOL 3470	Genetics	4
BIOL 4411	Biomedical Technology and Applications	4
BIOL 4435	Environmental Toxicology	4
CHEM 1111	General Chemistry I Laboratory	1
CHEM 1112	General Chemistry II Laboratory	1
CHEM 3111	Organic Chemistry I Laboratory	1
CHEM 3112	Organic Chemistry II Lab	1
CHEM 3311	Organic Chemistry I	3
CHEM 3312	Organic Chemistry II	3
CHEM 3415	General Biochemistry	4
CHEM 3491	Intro to Forensic Sciences	4
CMLS 2201	Intro to Medical Lab Science	2
CMLS 3401	Fundamentals Clinical Chem	4
CMLS 3404	Introduction to Hematology Hem	4
CMLS 3407	Clinical Immunology	4
CMLS 4434	Molecular Diagnostics	4
HLTH 3360	Epidemiology	3
MATH 1342	Elementary Statistical Methods	3
PHYS 1401	College Physics I	4
PHYS 1402	College Physics II	4
One From:		3
BIOL 4301	Biology Special Topics	
CHEM 4371	Intro Research	
CMLS 4441	Special Topics	

Electives - 3 Hours 3

Total Hours 120

First Year		Hours
Fall		
ENGL 1301	Composition I	3
BIOL 1406	General Biology I (Majors)	4
Creative Arts		3
US History		3
Hours		13

Spring		
MATH 1314	College Algebra	3
or MATH 2312	or Pre Calculus and Elementary Functions	
Communication Core		3

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BIOL 1407	General Biology II (Majors)	4
US History		3
Hours		13
Second Year		
Fall		
ENGL 2300	Ethics and Literature	3
POLS 2301	Intro to American Government I	3
CHEM 1311	General Chemistry I	3
CHEM 1111	General Chemistry I Laboratory	1
BIOL 2421	Microbiology for Science Majors	4
Hours		14
Spring		
POLS 2302	Intro/American Government II	3
CHEM 1312	General Chemistry II	3
CHEM 1112	General Chemistry II Laboratory	1
CMLS 2201	Intro to Medical Lab Science	2
Social and Behavioral Sciences		3
BIOL 3470	Genetics	4
Hours		16
Third Year		
Fall		
CHEM 3311	Organic Chemistry I	3
CHEM 3111	Organic Chemistry I Laboratory	1
MATH 1342	Elementary Statistical Methods	3
Electives		6
CMLS 3404	Introduction to Hematology Hem	4
Hours		17
Spring		
PHYS 1401	College Physics I	4
CHEM 3312	Organic Chemistry II	3
CHEM 3112	Organic Chemistry II Lab	1
CMLS 3407	Clinical Immunology	4
CMLS 3401	Fundamentals Clinical Chem	4
Hours		16
Fourth Year		
Fall		
CMLS 4434	Molecular Diagnostics	4
PHYS 1402	College Physics II	4
CHEM 3415	General Biochemistry	4
BIOL 4411 or CMLS 4437	Biomedical Technology and Applications or Biomedical Science and Med Lab	4
Hours		16
Spring		
BIOL 3440	Advanced Physiology	4
BIOL 4435	Environmental Toxicology	4
HLTH 3360	Epidemiology	3
CMLS 4441	Special Topics	4
Hours		15
Total Hours		120