CURRICULUM PLAN COLLEGE OF HEALTH PROFESSIONS 2019-2020

MY ADVISOR'S NAME IS:

# MEDICAL LABORATORY SCIENCE

### REQUIREMENTS

**CORE CURRICULUM** 

The Core Curriculum is designed to foster critical thinking skills and introduce students to basic domains of thinking that transcend disciplines. The Core applies to all majors. Information on specific classes in the Core can be found at marshall.edu/gened.

COI	RE 1: CRIT	TCAL THINKING			COR	E 2:				
	CODE	COURSE NAME	HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
	FYS 100	First Year Sem Crit Thinking	3		<b>***</b>	ENG 101	Beginning Composition	•	3	
	CLS 105	Critical Thinking Course   ◆	3			ENG 201	Advanced Composition	•	3	
1	SOC 200	Critical Thinking Course	3			CMM 103	Fund Speech-Communication	•	3	
						MTH 130	College Algebra	•	5	
	Additiona	al University Requirements			<b>***</b>	BSC 228	Human Physiology	• •	4	
		Writing Intensive (Core II Humanities)	3				Core II Humanities (WI)	•	3	
		Writing Intensive (WI section of SOC 200)	3		<b>***</b>	SOC 200	Intro Sociology (CT, MC, WI)	•	3	
		Multicultural or International (SOC 200)	3				Core II Fine Arts	•	3	
	CLS 468	Capstone	3							

#### MAJOR-SPECIFIC

All Medical Lab Science majors are required to take the following courses:

	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRADE
<b>17</b>	CHM 211	Principles of Chemistry I	•	3		<b>***</b>	STA 225	Introductory Statistics (CT)	•	3	
<b>T</b>	CHM 217	Principles of Chemistry I Lab	•	2		<del>(1</del>	CLS 310	Clin Immun & Mol Diag	•	3	
	CLS 105	Medical-Lab Terminology (CT)	• •	3				Medical Science Laboratory Elect	•	3	
	CHM 212	Principles of Chemistry II	•	3			CLS 400	Adv Clinical Chemistry	•	2	
	CHM 218	Principles of Chemistry II Lab	•	2		<del>(**</del>	CLS 410	Adv Clinical Immunohematology	•	2	
	BSC 227	Human Anatomy	•	4			CLS 420	Adv Clinical Microbiology	•	2	
<b>1</b>	CLS 200	Clinical Biochemistry	•	4			CLS 430	Adv Clinical Hematology	•	2	
	CLS 230	Clinical Hematology	•	4			CLS 460	Clincal Lab Mgt & Education	•	3	
1	CLS 210	Clinical Immunohematology	•	4			CLS 499	Seminar in Lab Medicine	•	2	
	CLS 220	Clinical Microbiology	•	4			CLS 464	Lab Instrumentation & Info System	•	3	
1	CLS 255	Clinical Lab Problems	•	4			CLS 466	Diagnostic Physiology	•	2	
	CLS 270-	15-week Hospital Based Practicum	•	12			CLS 472	Adv CLS Clinical Practicum I	•	3	
	273						CLS 473	Adv CLS Clinical Practicum II	•	3	
<b>177</b>	CHM 327	Introductory Organic Chemistry	•	3			CLS 468	Clinical Lab Research (Capstone)	•	2	
		ECN 200 or ECN 250	•	3							
		MLS Research/Managmt Elective	•	3							

## MAJOR INFORMATION

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- Course offerings and course attributes are subject to change semesters. Please consult each semester's schedule of courses for availability and attributes.
- The MLT and BS-MLS programs are fully accredited by the National Accrediting Agency for Clinical Laboratory Sciences. Students who complete CLS programs through Marshall University will be eligible for national certification examinations.
- Medical Laboratory Technology Students complete the associate degree, graduate then progress into the Bachelor of Medical Laboratory Science.
- MLS online students from other institutions must have completed an AAS in MLT from a NAACLS accredited program and will be required to fulfill the core curriculum requirements through a combination of transfer credits and MU courses; each student will be evaluated on an individual basis.
- 15-week hospital-based clinical practicum sequence Summer or Fall prior to beginning online MLS classes

FOUR YEAR PLAN COLLEGE OF HEALTH PROFESSIONS 2019-2020

# MEDICAL LABORATORY SCIENCE

Medical laboratory scientists perform a variety of specialized tests in the clinical laboratory that provide information used by the physician to determine the extent and cause of disease. The tests performed by or supervised by the medical technologist are completed in such areas as hematology, blood banking, serology, immunology, clinical chemistry, bacteriology, and parasitology. The graduate medical technologist is prepared with the knowledge and abilities needed for

MY ADVISOR'S NAME IS:

		FALL SEMESTER						SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRAD
1	CHM 211	Principles of Chemistry I	•	3			CHM 212	Principles of Chemistry II	•	3	
1	CHM 217	Principles of Chemistry I Lab	•	2			CHM 218	Principles of Chemistry II Lab	•	2	
1	ENG 101	Beginning Composition	•	3			CMM 103	Fund Speech Communications	•	3	
	FYS 100	First Year Sem Crit Thinking	•	3		<b>**</b>	SOC 200	Introductory Sociology (CT, MC, WI)	•	3	
	CLS 105	Medical-Lab Terminology (CT)	• •	3			MTH 130	College Algebra	•	3	
	UNI 100	Freshman First Class		1							
	TOTAL HO	DURS		15			TOTAL HO	DURS		14	
Sum	nmer Term (op	tional):									
	CODE	FALL SEMESTER		LIDS	CDADE		CODE	SPRING SEMESTER		LIDS	CDAD
	CODE	COURSE NAME	•	HKS	GRADE		CODE BSC 228	COURSE NAME		HKS	GRAD
	BSC 227 CLS 200	Human Anatomy	<b>*</b>	4			CLS 210	Human Physiology  Clinical Immunohematology	_	4	
( (	CLS 200	Clinical Biochemistry	× A	4		New York	CLS 210		× A	4	
	ENG 201	Clinical Hematology  Advanced Composition	•	3			CLS 255	Clinical Microbiology  Clincal Lab Problems	<b>Y</b>	3	
	LING 201	Advanced Composition		J		(-(.	CL3 233	Cilital Lab Flobleilis	•	3	
	TOTAL HO	DURS		15			TOTAL HO	DURS		15	
Sum	nmer Term (op	itional):	ما ا بام		Cliniaal Dua	-4:					
	_	FALL SEMESTER	ek no	spitai	Cillical Fla	Cticum	n (or Fall Se	mester) • 12  SPRING SEMESTER		-	-
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRAD
177	CHM 327	Introductory Organic Chemistry	•	3		<b>***</b>	CLS 310	Clin Immun & Mol Diag	<b>*</b>	3	
		ECN 200 or ECN 250	<b>\</b>	3		<b>**</b>	STA 225	Introductory Statistics (CT)	•	3	
		MLS Research/Management Elective	•	3				Core II Fine Arts	•	3	
		Core II Humanities (WI)	•	3				Medical Laboratory Science Elective	<b>♦</b>	3	
	CLS 270-	15 week Hospital Clinical Practicum	•	(12)							
	273	(if not taken during summer)									
	TOTAL HO	DURS		12			TOTAL HO	DURS		12	

	Julilin	er renn (op	nionaly.								
			FALL SEMESTER					SPRING SEMESTER			
	(	CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
	(	CLS 400	Adv Clinical Chemistry	•	2		CLS 464	Lab Instrumentation & Info Systems	•	3	
	<del>•</del>	CLS 410	Adv Clinical Immunohematology	•	2		CLS 466	Diagnostic Physiology	•	2	
4	(	CLS 420	Adv Clinical Microbiology	•	2		CLS 472	Adv CLS Clinical Practicum I	•	3	
	(	CLS 430	Adv Clinical Hematology	•	2		CLS 473	Adv CLS Clinical Practicum II	•	3	
4	(	CLS 460	Clinical Lab Mgt and Education		3		CLS 468	Clinical Lab Research (Capstone)	•	2	
ξ.	(	CLS 499	Seminar in Lab Medicine		2						
4											
	1	TOTAL HO	DURS		13		TOTAL H	OURS		13	
	Summer Term (optional):										

#### INVOLVEMENT OPPORTUNITIES

- Student Government Association
- Campus Activity Board
- JMELI
- Commuter Student Advisory Board
- Club Sports
- · Religious Organizations
- Political Organizations
- · Residence Hall Association
- Cultural Organizations
- · National Society of Leadership and Success
- Greek Life

#### **RELATED MAJORS**

- Biology
- Microbiology
- Chemistry
- Biomedical Engineering
- Health Sciences

#### **GRADUATION REQUIREMENTS**

- · Have a minimum of 120 credit hours (some colleges or majors require more);
- · Have an overall and Marshall Grade Point Average of 2.00 or higher;
- Have an overall Grade Point Average of 2.00 or higher in the major area of study;
- Have earned a grade of C or better in English 201 or 201 H;
- Have met all major(s) and college requirements;
- Have met the requirements of the Core Curriculum:
- · Have met the residence requirements of Marshall University, including 12 hours of 300/400 level coursework in the student's college (see section entitled "Residence Requirements" in the undergraduate catalogue);
- Be enrolled at Marshall at least one semester of the senior year:
- · Have transferred no more than 72 credit hours from an accredited West Virginia twoyear institution of higher education.

Colleges and specific programs may have unique requirements that are more stringent than those noted above. Students are responsible for staying informed about and ensuring that they meet the requirements for graduation.

This academic map is to be used as a guide in planning your coursework toward a degree. Due to the complexities of degree programs. it is unfortunate but inevitable that an error may occur in the creation of this document. The official source of degree requirements at Marshall University is DegreeWorks available in your myMU portal. Always consult regularly with your advisor.

# MEDICAL LABORATORY SCIENCE — 2019-2020

YEAR ONE



Stay on the Herd Path and come Have guestions? Need to talk? You to class! Class attendance is more already have a Friend-At-Marshall important to your success than ready to help you succeed. Find your your high school GPA, your class standing, or your ACT/SAT scores.





In order to graduate on time, you need to take an average of 15 credits per semester. Are you on track? Take 15 to Finish!



Develop relationships while attending office hours of professors (in person or virtually); good relationships can lead to good references.



Think about who can help you grow as a student and a professional (professors, advisors, alumni, etc.) and ask at least one to be your mentor.

## YEAR THREE



Develop relationships while attending office hours of professors (in person or virtually); good relationships can lead to good references.



Join or create a club or organization on campus about a particular issue you care about. Marshall has more than 200 student organizations.



Apply for scholarships within the field of CLS, i.e. ASCLS, Mary George, Linda Brown Scholarships.



Be at the top of your professional game! Prepare a final resume and practice your interview skills with a career coach in Career Education.



Are you on track to graduate? Meet with your advisor for your Junior Eval to make sure you know what requirements you have left.



career path, and more.



Join the Marshall Mentor Network and connect with professionals in your field to discuss your major,



Take a pulse check. Know what

you need to do every year to keep

your grants, scholarships, or federal

financial aid.

# YEAR FOUR



graduate? Meet with your advisor for your Senior Eval to see what requirements you have left.

and increase your opportunities? Talk to a faculty member about whether graduate school fits your



Be at the top of your professional game! Prepare a final resume and practice your interview skills with a



Develop relationships while attending office hours of professors (in person or virtually); good relationships can lead to good references.



Prepare your Senior Capstone project in preparation for graduation in the spring.



In order to work in your field, you need to take a certification exam. Develop a study strategy now. Check with your advisor.





TRANSFERABLE SKILLS

Reasoning Skills

Collaboration Skills

· Attention to Detail

Science and Analytical Skills

· Time-Management Skills

**ASSOCIATED CAREERS** 

Hospital Laboratory

Physicians' Offices

Product Testing Labs

Bioengineering

Pharmaceuticals

Medical Writing

· Health Care Administration

Armed Forces

ASSOCIATED WITH THIS MAJOR

• Oral and Written Communication Skills

State and Federal Health Agencies

Research and Product Development

Marshall University College of Health Professions 1 John Marshall Drive Huntington, WV 25755 1-304-696-2624 cohp@marshall.edu marshall.edu/cohp

## YEAR TWO



FAM Peer Mentor here:

www.marshall.edu/fam

Join the Marshall Mentor Network

and connect with professionals in

your field to discuss your major,

career path, and more.

Take a pulse check. Know what

you need to do every year to keep

your grants, scholarships, or federal

financial aid.

Are you completing enough credits to graduate on time? Dropping or failing a class can put you behind. Use summer terms to quickly get back on track.



Apply for scholarships within the field of CLS i.e. ASCLS, Mary George, Linda Brown Scholarships.



In order to work in your field, you need to take a certification exam. Develop a study strategy now. Check with your advisor.



Develop relationships while attending office hours of professors (in person or virtually); good relationships can lead to good references.

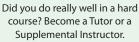




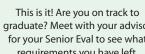
Stay on the Herd Path and come to class! Class attendance is more important to your success than your high school GPA, your class standing, or your ACT/SAT scores.



Take a pulse check. Know what you need to do every year to keep your grants, scholarships, or federal financial aid.









Want to continue your education career goals.



career coach in Career Education.



Don't enter your field with zero experience! Secure an internship related to your field of study.