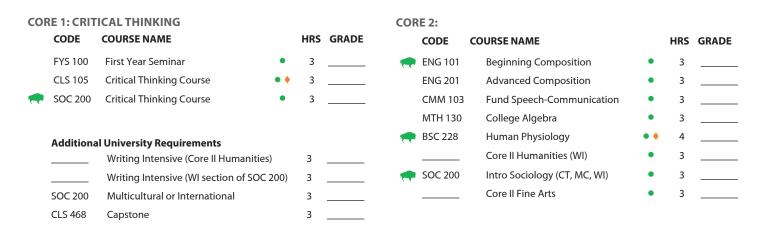
MY ADVISOR'S NAME IS:

# 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.



### MAJOR-SPECIFIC

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

CODE	COURSE NAME		HRS	GRADE	CODE	COURSE NAME		HRS	GRADE
💎 CHM 211	Principles of Chemistry I	٠	3		🜪 STA 225	Introductory Statistics (CT)	٠	3	
💎 CHM 217	Principles of Chemistry I Lab	٠	2		💎 CLS 310	Clin Immun & Mol Diag	٠	3	
CLS 105	Medical-Lab Terminology (CT)	• •	3		CLS 320	Advanced Topics in CLS	٠	3	
CHM 212	Principles of Chemistry II	٠	3		CLS 400	Adv Clinical Chemistry	٠	2	
CHM 218	Principles of Chemistry II Lab	٠	2		🜪 CLS 410	Adv Clinical Immunohematology	٠	2	
BSC 227	Human Anatomy	•	4		CLS 420	Adv Clinical Microbiology	٠	2	
🜪 CLS 200	Clinical Biochemistry	٠	4		CLS 430	Adv Clinical Hematology	٠	3	
CLS 230	Clinical Hematology	٠	4		CLS 460	Clincal Lab Mgt & Education	٠	3	
🜪 CLS 210	Clinical Immunohematology	•	4		CLS 499	Seminar in Lab Medicine	٠	2	
CLS 220	Clinical Microbiology	•	4		CLS 464	Lab Instrumentation & Info System	٠	3	
🜪 CLS 255	Clinical Lab Problems	•	3		CLS 466	Diagnostic Physiology	٠	3	
CLS 270-	15-week Hospital Based Practicum	٠	12		CLS 472	Adv CLS Clinical Practicum I	٠	3	
273					CLS 473	Adv CLS Clinical Practicum II	٠	3	
🜪 CHM 327	Introductory Organic Chemistry	•	3		CLS 468	Clinical Lab Research (Capstone)	٠	3	
	ECN 200 or ECN 250	•	3			Free Elective		1	
						Free Elective		1	

- 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 of study.

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beginning online MLS classes

# 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 certification by nationally recognized professional agencies. Certified medical laboratory scientists are accorded the status of professionals in the medical team. They often supervize laboratory sections, exercise independent judgement, and evaluate the work of others.

		CODE	FALL SEMESTER		LIDC	GRADE		CODE	SPRING SEMESTER		LIDC	GRA
						GRADE						GRA
		CHM 211	Principles of Chemistry I	•	3			CHM 212		•	3	
		CHM 217	Principles of Chemistry I Lab	•	2			CHM 218	Principles of Chemistry II Lab	•	2	
ONE		ENG 101	Beginning Composition	•	3			CMM 103	Fund Speech Communications	•	3	
		FYS 100	First Year Sem Crit Thinking		3		ेरन्ट	SOC 200	Introductory Sociology (CT, MC, WI)		3	
YEAR		CLS 105 UNI 100	Medical-Lab Terminology (CT) Freshman First Class	• •	3			MTH 130	College Algebra	•	3	
ХE			Freshman First Class		1							
		TOTAL HOURS						TOTAL HO	DURS		14	
	Sum	mer Term (op			15							
		_	FALL SEMESTER			_		_	SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GR/
		BSC 227	Human Anatomy	•	4		-	BSC 228	Human Physiology	• •	4	
	-	CLS 200	Clinical Biochemistry	•	4		-	CLS 210	Clinical Immunohematology	•	4	
0		CLS 230	Clinical Hematology	•	4			CLS 220	Clinical Microbiology	•	4	
TWO		ENG 201	Advanced Composition	•	3		-	CLS 255	Clincal Lab Problems	•	3	
YEAR												
Y												
		TOTAL HO	OURS		15			TOTAL HO	DURS		15	
	Sum	mer Term (op	otional): CLS 270-273 15-v	wook He	scoital	Clinical Pr	octicur	m (or Fall Se	emester) <b>• 12</b>			
		_			in (or i an be		_					
		CODE	FALL SEMESTER		ЦРС	GRADE		CODE	SPRING SEMESTER		ЦРС	CD/
		CHM 327	Introductory Organic Chemistry		3	GRADE		CLS 310	Clin Immun & Mol Diag		3	GR/
		CLS 320	Advanced Topics in CLS	•	3			STA 225	Introductory Statistics (CT)		3	
E		CL3 320	ECN 200 or ECN 250		3			JIA 22J	Core II Fine Arts	•	3	
THREE				•	3			CLS 466		•		
H			Core II Humanities (WI)					CL3 400	Diagnostic Physiology	•	3	
AR '		CLS 270- 273	15 week Hospital Clinical Practicun (if not taken during summer)	n 🔶	(12)							
田		2/3	(in not taken during summer)									
Х		TOTAL UC			10			TOTAL U			12	
	Sum	TOTAL HC mer Term (op			12			TOTAL HO	5063		12	
	Jum		cional).									
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSENAME			GRADE		CODE	COURSE NAME			GR/
		CLS 400	Adv Clinical Chemistry	•	2			CLS 464	Lab Instrumentation & Info Systems	•	3	_
ഷ		CLS 410	Adv Clinical Immunohematology	•	2			CLS 472	Adv CLS Clinical Practicum I	•	3	
FOUR		CLS 420	Adv Clinical Microbiology	•	2			CLS 473	Adv CLS Clinical Practicum II	•	3	
		CLS 430	Adv Clinical Hematology	•	3			CLS 468	Clinical Lab Research (Capstone)	•	3	
H		CLS 460	Clinical Lab Mgt and Education	•	3							
AR FC		CLS 499	Seminar in Lab Medicine	•	2							
YEAR FC												
YEAR FC		TOTAL HO	DURS		14			TOTAL HO	DURS		12	

## 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 – 2023-2024

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references.

# **YEAR ONE**

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.



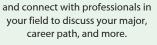
already have a Friend-At-Marshall ready to help you succeed. Find your FAM Peer Mentor here: www.marshall.edu/fam





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

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terms to guickly get back on track.

Apply for scholarships within the field

of CLS i.e. ASCLS, Mary George, Linda

Brown Scholarships.

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In order to work in your field, you

need to take a certification exam.

Develop a study strategy now.

Check with your advisor.

ask at least one to be your mentor.





Think about who can help you grow

as a student and a professional

(professors, advisors, alumni, etc.) and

Develop relationships while attending office hours of professors Are you completing enough credits to (in person or virtually); good graduate on time? Dropping or failing a relationships can lead to good class can put you behind. Use summer references.

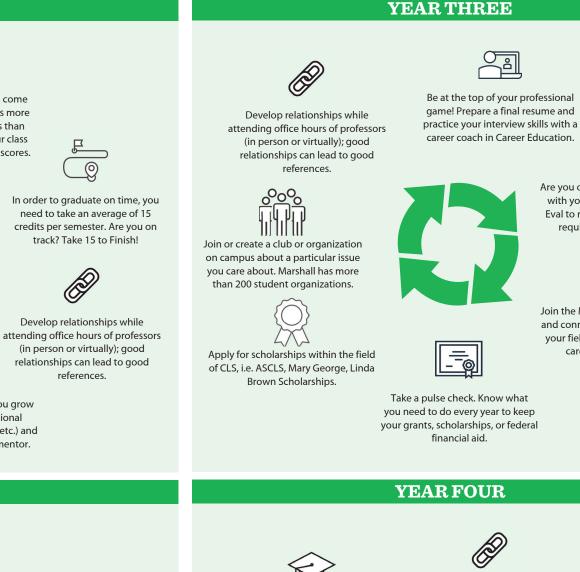


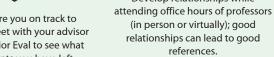




you need to do every year to keep your grants, scholarships, or federal financial aid.

Did you do really well in a hard course? Become a Tutor or a Supplemental Instructor.







Want to continue your education 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 career coach in Career Education.

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

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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.



# Be at the top of your professional

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

**YEAR FOUR** 



This is it! Are you on track to graduate? Meet with your advisor for your Senior Eval to see what requirements you have left.

career goals.





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



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

## TRANSFERABLE SKILLS ASSOCIATED WITH THIS MAJOR

- Science and Analytical Skills
- Reasoning Skills
- Time-Management Skills
- Collaboration Skills
- Attention to Detail
- Oral and Written Communication Skills

## ASSOCIATED CAREERS

- Hospital Laboratory
- Armed Forces
- Physicians' Offices
- State and Federal Health Agencies
- Research and Product Development
- Product Testing Labs
- Health Care Administration
- Bioengineering
- Pharmaceuticals
- Medical Writing



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.



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