CURRICULUM PLAN COLLEGE OF HEALTH PROFESSIONS 2020-2021

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	ICAL 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	<b>Advanced Composition</b>	•	3	
1	SOC 200	Critical Thinking Course	3			CMM 103	Fund Speech-Communication	•	3	
						MTH 130	College Algebra	•	5	
	Additiona	al University Requirements				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:

**COURSE NAME** 

CHM 211	Principles of Chemistry I	•	3	<table-cell-rows> STA 225</table-cell-rows>	Introductory Statistics (CT)	•	3
CHM 217	Principles of Chemistry I Lab	•	2	CLS 310	Clin Immun & Mol Diag	•	3
CLS 105	Medical-Lab Terminology (CT)	• •	3	CLS 320	Advanced Topics in CLS	•	3
CHM 212	Principles of Chemistry II	•	3	CLS 400	Adv Clinical Chemistry	•	2
CHM 218	Principles of Chemistry II Lab	•	2	CLS 410	Adv Clinical Immunohematology	•	2
BSC 227	Human Anatomy	•	4	CLS 420	Adv Clinical Microbiology	•	2
CLS 200	Clinical Biochemistry	•	4	CLS 430	Adv Clinical Hematology	•	3
CLS 230	Clinical Hematology	•	4	CLS 460	Clincal Lab Mgt & Education	•	3
CLS 210	Clinical Immunohematology	•	4	CLS 499	Seminar in Lab Medicine	•	2
CLS 220	Clinical Microbiology	•	4	CLS 464	Lab Instrumentation & Info System	•	3
CLS 255	Clinical Lab Problems	•	4	CLS 466	Diagnostic Physiology	•	3
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
CHM 327	Introductory Organic Chemistry	•	3	CLS 468	Clinical Lab Research (Capstone)	•	3
	ECN 200 or ECN 250	•	3		Free Elective		1
					Free Elective		1

HRS GRADE

## 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.

**COURSE NAME** 

HRS GRADE

• 15-week hospital-based clinical practicum sequence Summer or Fall prior to beginning online MLS classes

FOUR YEAR PLAN COLLEGE OF HEALTH PROFESSIONS 2020-2021

# 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,

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	
<b>₹</b>	CHM 217	Principles of Chemistry I Lab	•	2			CHM 218	Principles of Chemistry II Lab	•	2	
<b>₹</b>	ENG 101	Beginning Composition	•	3			CMM 103	Fund Speech Communications	•	3	
	FYS 100	First Year Sem Crit Thinking	•	3		•	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	vtional):									
		FALL SEMESTER						SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRAD
	BSC 227	Human Anatomy	•	4		<b>₹</b>	BSC 228	Human Physiology	• •	4	
<b>₹</b>	CLS 200	Clinical Biochemistry	•	4		<b>**</b>	CLS 210	Clinical Immunohematology	•	4	
	CLS 230	Clinical Hematology	•	4			CLS 220	Clinical Microbiology	•	4	
	ENG 201	Advanced Composition	•	3		<b>**</b>	CLS 255	Clincal Lab Problems	•	3	
	TOTAL HO	NIDS		15			TOTAL HO	NIDS		15	
Sum	nmer Term (op	otional):	rook He		Clinical Dra	cticur	n (or Fall Se			13	
		FALL SEMESTER	CERTIC	ospitai	Cillical Fla	Cticui	ii (Oi i ali Se	SPRING SEMESTER			
	CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRAD
			•	3	GHADE	1	CLS 310	Clin Immun & Mol Diag	•	3	GILAD
1	(HIVL377	introductory Ordanic Chemistry						emi minum a mor brag		3	
1	CHM 327 CLS 320	, , , , , ,	•			-	STA 225	Introductory Statistics (CT)	<b>•</b>	2	
		Advanced Topics in CLS ECN 200 or ECN 250	* *	3		<b>**</b>	STA 225	Introductory Statistics (CT)  Core II Fine Arts	•	3	
		Advanced Topics in CLS	•	3			STA 225 CLS 466	Core II Fine Arts	•		
	CLS 320	Advanced Topics in CLS ECN 200 or ECN 250 Core II Humanities (WI)	•	3 3 3						3	
		Advanced Topics in CLS ECN 200 or ECN 250	•	3				Core II Fine Arts Diagnostic Physiology		3	
	CLS 270- 273	Advanced Topics in CLS ECN 200 or ECN 250 Core II Humanities (WI) 15 week Hospital Clinical Practicum (if not taken during summer)	•	3 3 3 (12)			CLS 466	Core II Fine Arts Diagnostic Physiology Free Elective		3 2 1	
Sum	CLS 320 ————————————————————————————————————	Advanced Topics in CLS ECN 200 or ECN 250 Core II Humanities (WI) 15 week Hospital Clinical Practicum (if not taken during summer)	•	3 3 3				Core II Fine Arts Diagnostic Physiology Free Elective		3	
Sum	CLS 270- 273	Advanced Topics in CLS ECN 200 or ECN 250 Core II Humanities (WI) 15 week Hospital Clinical Practicum (if not taken during summer)	•	3 3 3 (12)			CLS 466	Core II Fine Arts Diagnostic Physiology Free Elective		3 2 1	

CLS 472

CLS 473

CLS 468

**TOTAL HOURS** 

**\rightarrow** 2

**♦** 3

3

Adv CLS Clinical Practicum I

Adv CLS Clinical Practicum II

Free Elective

Clinical Lab Research (Capstone)

CLS 410

CLS 420

CLS 430

CLS 460

**TOTAL HOURS** Summer Term (optional):

Adv Clinical Immunohematology

Clinical Lab Mgt and Education

Adv Clinical Microbiology

Adv Clinical Hematology

Seminar in Lab Medicine

#### 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 — 2020-2021

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 FAM Peer Mentor here: standing, or your ACT/SAT scores. www.marshall.edu/fam





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.

This is it! Are you on track to

graduate? Meet with your advisor

for your Senior Eval to see what

requirements you have left.

Want to continue your education

and increase your opportunities?

Talk to a faculty member about

whether graduate school fits your

career goals.

Be at the top of your professional

game! Prepare a final resume and

practice your interview skills with a

career coach in Career Education.



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.



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



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Take a pulse check. Know what

you need to do every year to keep

your grants, scholarships, or federal

financial aid.

# YEAR FOUR



references.

YEAR TWO

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.

Join the Marshall Mentor Network

and connect with professionals in

your field to discuss your major,

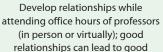
career path, and more.

Take a pulse check. Know what

you need to do every year to keep

your grants, scholarships, or federal

financial aid.



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.



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.

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



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.



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



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



## Reasoning Skills · Time-Management Skills Collaboration Skills

· Attention to Detail

TRANSFERABLE SKILLS

· Science and Analytical Skills

Oral and Written Communication Skills

ASSOCIATED WITH THIS MAJOR

#### **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