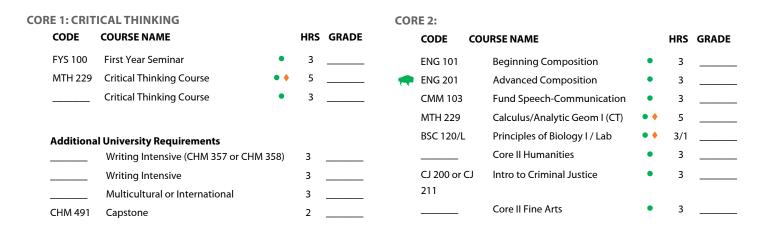
FORENSIC CHEMISTRY

REQUIREMENTS

disciplines. The Core ap

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



MAJOR-SPECIFIC

All Forensic Chemistry 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			PHY 201	College Physics I	٠	3	
-	CHM 217	Principles of Chemistry I Lab	٠	2			PHY 202	College Physics I Lab	٠	1	
-	CHM 212	Principles of Chemistry II	٠	3		.	PHY 203	College Physics II	٠	3	
-	CHM 218	Principles of Chemistry II Lab	•	2			PHY 204	College Physics II Lab	٠	1	
-	CHM 355	Organic Chemistry I	٠	3				Statistics Elective (STA 225 or 345)	٠	3	
	CHM 356	Organic Chemistry II	•	3			BSC 121/L	Principles of Biology II / Lab	٠	3/1	
	CHM 361	Organic Chemistry II Lab	•	3			BSC 322	Cell Biology	٠	4	
	CHM 305	Research Methods Chemistry	•	1			BSC 324	Genetics	٠	4	
	CHM 345	Intro Analytical Chemistry	•	4			CIT 163	Intro to Programming C++	٠	3	
	CHM 357	Physical Chemistry: Quantum or	•	4				Restricted Elective	٠	3	
	or 358	Physical Chemistry: Thermo (WI)						Restricted Elective	٠	3	
1	CHM 365	Biochemistry	٠	3			CJ 314	Crime Scene Investigation	٠	3	
	CHM 411	Instrumental Methods	•	4			CJ 323 or	Criminal Law or Law of Evidence	٠	3	
	CHM 491	Capstone or CHM 490	• •	2			422				
	CHM 432	Seminar	•	0							
		300/400 CHM Elective	•	3							

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MAJOR INFORMATION

- Students are required to know and track their degree requirements for graduation or for entrance to a professional school.
- In addition to the Core General Education requirements, the College of Science requires 3 hours of Calculus, and 40 hours of upper level credit. Coursework listed as "elective" may vary for each student. Students are
- encouraged to use elective hours toward a minor or toward prerequisities. • Students are strongly encouraged to select courses that meet two or more Core or College requirements. For example, a writing intensive literature course could satisfy the Core II Humanities as well as the University writing intensive requirement.
- Course offerings and course attributes are subject to change semesters. Please consult each semesters schedule of courses for availability and attributes.
- Math is based on an ACT Mathematics score of 27 or higher. Students with an ACT Mathematics score less than 27 will be placed in the appropriate mathematics and science courses.

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- Statistics Elective: Choose from STA 225 or STA 345.
- Restricted Elective: Choose two courses from BSC 450, CHM 428 or 467. Students are strongly encouraged to engage in a Forensic Chemistry related Capstone Experience (CHM 491).
- A Grade Point Average of 2.0 is required 1) overall, 2) at MU, 3) in all required Chemistry courses, 4) in all Chemistry courses, and 5) in all required Chemistry courses taken at MU.
- Double majors within the Department of Chemistry may include any majors other than the B.S., Major in Chemical Sciences. A double major of Forensic Chemistry with Biochemistry is also currently not permitted.

FORENSIC CHEMISTRY

This major is intended for students who wish to pursue a career in fields involving forensics. . Degrees offered by the Department of Chemistry provide a program of studies that allows the individual to: obtain high quality instruction in chemistry as a scientific discipline, obtain a sound background in preparation for advanced studies, meet the qualifications of professional chemists and accrediting agencies, or prepare for a professional career in medicine, dentistry, pharmacy, medical technology, engineering, nursing and other fields.

			FALL SEMESTER	_					SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRAD
	-	CHM 211	Principles of Chemistry I	•	3			MTH 229	Calculus/Analytic Geom I (CT)	• •	5	
		CHM 217	Principles of Chemistry I Lab	•	2			CHM 212	Principles of Chemistry II	•	3	
ONE	_	BSC 120/L	Principles of Biology I / Lab	• •	3/1			CHM 218	Principles of Chemistry II Lab	•	2	
		ENG 101	Beginning Composition	•	3			BSC 121/L	Principles of Biology II / Lab	•	3/1	
AR		FYS 100	First Year Sem Crit Thinking	•	3							
YEAR		UNI 100	Freshman First Class		1							
		TOTAL HO	OURS		16			TOTAL HO	URS		14	
	Sum	mer Term (op	tional):									
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRA
		CHM 355	Organic Chemistry I	•	3			CHM 356	Organic Chemistry II	•	3	
			Statistics Elective (STA 225 or 345)	•	3			CHM 361	Organic Chemistry Lab	•	3	
00		PHY 201	College Physics I	٠	3		-	PHY 203	College Physics II	•	3	
TWO		PHY 202	College Physics I Lab	•	1		-	PHY 204	College Physics II Lab	•	1	
		CJ 200	Intro to Criminal Justice	٠	3			CMM 103	Fund Speech-Communication	•	3	
YEAR		BSC 121	Principles of Biology II	•	4		-	ENG 201	Advanced Composition	•	3	
		TOTAL HO	DURS		17			TOTAL HO	URS		16	
	Summer Term (optional):											
			FALL SEMESTER			-			SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRA
		CHM 365	Biochemistry	•	3			CHM 358	Physical Chemistry I or (CHM 357	•	4	
		CHM 305	Research Methods Chemistry	•	1				in Fall) (WI)			
HREE			Core II Fine Arts	•	3				Core II Humanities (CT)	•	3	
HR		CIT 163	Intro to Programming C++	•	3			BSC 322	Cell Biology	•	4	
H		CJ 314	Crime Scene Investigation	٠	3			CJ 323 or	Criminal Law or Law of Evidence	•	3	
EAR								422				
ΥE	TOTAL HOURS				13			TOTAL HO	URS		14	
	Sum	mer Term (op	tional):									
			FALL SEMESTER						SPRING SEMESTER			
		CODE	COURSE NAME		HRS	GRADE		CODE	COURSE NAME		HRS	GRA
		CHM 345	Intro Analytical Chemistry	•	4			CHM 432	Chemistry Seminar	•	0	
		CHM 491	Capstone Experience (or CHM 490)) 🔶	2				300/400 CHM Elective	•	3	
UR		BSC 324	Genetics	٠	4				Restricted Elective	٠	4	
0			Writing Intensive	•	3			CHM 411	Instrumental Methods	•	4	
AR F			Restricted Elective	٠	3				Multicultural or International	•	3	
F												
YEA.												
Х		TOTAL HO	OURS		16			TOTAL HO	URS		14	

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**
- Biomechanics Athletic Training
- Education
- Geology
- Geography
- Environmental Science

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.

FORENSIC CHEMISTRY – 2022-2023

YEAR ONE

to class! Class attendance is more

important to your success than

your high school GPA, your class

standing, or your ACT/SAT scores.





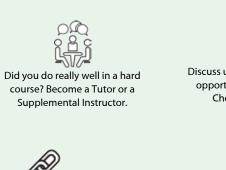
In order to graduate on time, you need to take an average of 15 credits per semester. Are you on track? Take 15 to Finish!



Join the Alpha Chi Sigma chemistry professional fraternity.

> Apply for a nationally competitive scholarship like Goldwater, Fullbright, Rhodes, or Gates Cambridge. Contact the Office of National Scholarships at Marshall.

YEAR TWO



Develop relationships with professors who can serve as future references by attending their office hours.

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Apply in the spring semester for Chemistry Department scholarships and summer fellowships.





opportunities with faculty in Chemistry right now.



Society meeting.

Discuss undergraduate research

opportunities with faculty in

Chemistry right now.

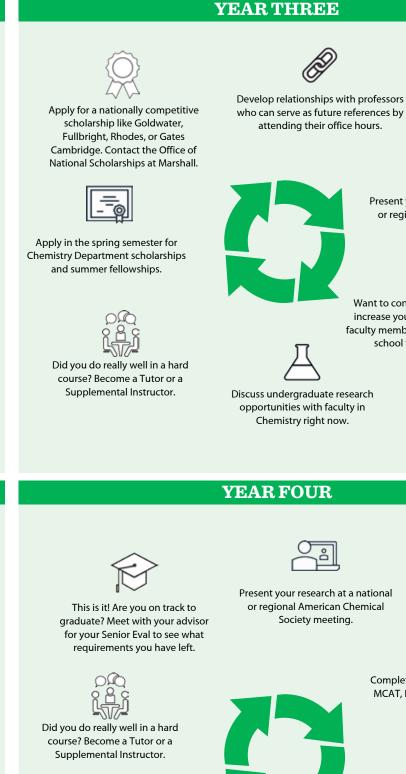
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financial aid.

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Want to continue your education and increase your opportunities? Talk to a faculty member about whether graduate school fits your career goals.

Apply for a nationally competitive scholarship like Goldwater, Fullbright, Rhodes, or Gates Cambridge. Contact the Office of National Scholarships at Marshall.





Want to continue your education and increase your opportunities? Talk to a faculty member about whether graduate school fits your career goals.



Present your research at the College of Science Research Day.



TRANSFERABLE SKILLS ASSOCIATED WITH THIS MAJOR

- Scientific Ability
- Oral and Written Communication Skills
- Ability to Work as Part of a Team
- Technological Literacy
- Adaptability

ASSOCIATED CAREERS

- Product Development
- Process Development
- Analysis
- Quality Assurance/Control
- Environmental Analysis
- Chemical Engineer
- Pharmacist
- Pharmaceutical Sales
- Marketing





Present your research at a national or regional American Chemical Society meeting.



Want to continue your education and increase your opportunities? Talk to a faculty member about whether graduate school fits your career goals.



Complete admissions exams (GRE, MCAT, PCAT) the summer before your senior year.



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



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