CURRICULUM PLAN COLLEGE OF SCIENCE 2023-2024

MY ADVISOR'S NAME IS: _____

FORENSIC CHEMISTRY

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 ap plies to all majors. Information on specific classes in the Core can be found at marshall.edu/gened.

CORE 1: CRITICAL THINKING

CODE	COURSE NAME		HRS	GRADE
FYS 100	First Year Seminar	●	3	_____
MTH 229	Critical Thinking Course	● ◆	5	_____
_____	Critical Thinking Course	●	3	_____

Additional University Requirements

_____	Writing Intensive (CHM 357 or CHM 358)	4	_____
_____	Writing Intensive	3	_____
_____	Multicultural or International	3	_____
CHM 491	Capstone	2	_____

CORE 2:

CODE	COURSE NAME		HRS	GRADE
ENG 101	Beginning Composition	●	3	_____
ENG 201	Advanced Composition	●	3	_____
CMM 103	Fund Speech-Communication	●	3	_____
MTH 229	Calculus/Analytic Geom I (CT)	● ◆	5	_____
BSC 120/L	Principles of Biology I / Lab	● ◆	3/1	_____
_____	Core II Humanities	●	3	_____
CJ 200 or CJ 211	Intro to Criminal Justice	●	3	_____
_____	Core II Fine Arts	●	3	_____

MAJOR-SPECIFIC

All Forensic Chemistry majors are required to take the following courses:

CODE	COURSE NAME		HRS	GRADE
CHM 211	Principles of Chemistry I	◆	3	_____
CHM 217	Principles of Chemistry I Lab	◆	2	_____
CHM 212	Principles of Chemistry II	◆	3	_____
CHM 218	Principles of Chemistry II Lab	◆	2	_____
CHM 355	Organic Chemistry I	◆	3	_____
CHM 356	Organic Chemistry II	◆	3	_____
CHM 361	Organic Chemistry II Lab	◆	3	_____
CHM 305	Research Methods Chemistry	◆	1	_____
CHM 345	Intro Analytical Chemistry	◆	4	_____
CHM 357 or 358	Physical Chemistry: Quantum or Physical Chemistry: Thermo (WI)	◆	4	_____
CHM 365	Biochemistry	◆	3	_____
CHM 411	Instrumental Methods	◆	4	_____
CHM 491	Capstone or CHM 490	● ◆	2	_____
CHM 432	Seminar	◆	0	_____
_____	300/400 CHM Elective	◆	3	_____

CODE	COURSE NAME		HRS	GRADE
PHY 201	College Physics I	◆	3	_____
PHY 202	College Physics I Lab	◆	1	_____
PHY 203	College Physics II	◆	3	_____
PHY 204	College Physics II Lab	◆	1	_____
_____	Statistics Elective (STA 225 or 345)	◆	3	_____
MTH 229	Calculus/Analytic Geom I (CT)	● ◆	5	_____
BSC 120/L	Principles of Biology I / Lab	● ◆	3/1	_____
BSC 121/L	Principles of Biology II / Lab	◆	3/1	_____
BSC 322	Cell Biology	◆	4	_____
BSC 324	Genetics	◆	4	
CS 110	Computer Science I	◆	3	
_____	Restricted Elective	◆	3	_____
_____	Restricted Elective	◆	3	_____
CJ 314	Crime Scene Investigation	◆	3	_____
CJ 323 or 422	Criminal Law or Law of Evidence	◆	3	_____

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.
- 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.

● General Education Requirement ■ College Requirement ◆ Major Requirement ◆ Area of Emphasis

Milestone Course: This is a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.

FOUR YEAR PLAN COLLEGE OF SCIENCE 2023-2024

MY ADVISOR'S NAME IS: _____

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.

YEAR ONE

FALL SEMESTER

	CODE	COURSE NAME		HRS	GRADE
	CHM 211	Principles of Chemistry I	◆	3	
	CHM 217	Principles of Chemistry I Lab	◆	2	
	BSC 120/L	Principles of Biology I / Lab	● ◆	3/1	
	ENG 101	Beginning Composition	●	3	
	FYS 100	First Year Sem Crit Thinking	●	3	
	UNI 100	Freshman First Class		1	
	TOTAL HOURS			**16**	

Summer Term (optional):

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
MTH 229	Calculus/Analytic Geom I (CT)	● ◆	5	
CHM 212	Principles of Chemistry II	◆	3	
CHM 218	Principles of Chemistry II Lab	◆	2	
BSC 121/L	Principles of Biology II / Lab	◆	3/1	
TOTAL HOURS			**14**	

YEAR TWO

FALL SEMESTER

	CODE	COURSE NAME		HRS	GRADE
	CHM 355	Organic Chemistry I	◆	3	
	_____	Statistics Elective (STA 225 or 345)	◆	3	
	PHY 201	College Physics I	◆	3	
	PHY 202	College Physics I Lab	◆	1	
	CJ 200	Intro to Criminal Justice	●	3	
	TOTAL HOURS			**13**	

Summer Term (optional):

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
CHM 356	Organic Chemistry II	◆	3	
CHM 361	Organic Chemistry Lab	◆	3	
PHY 203	College Physics II	◆	3	
PHY 204	College Physics II Lab	◆	1	
CMM 103	Fund Speech-Communication	●	3	
ENG 201	Advanced Composition	●	3	
TOTAL HOURS			**16**	

YEAR THREE

FALL SEMESTER

	CODE	COURSE NAME		HRS	GRADE
	CHM 365	Biochemistry	◆	3	
	CHM 305	Research Methods Chemistry	◆	1	
	_____	Core II Fine Arts	●	3	
	CS 110	Computer Science I	◆	3	
	CJ 314	Crime Scene Investigation	◆	3	
	TOTAL HOURS			**13**	

Summer Term (optional):

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
CHM 358	Physical Chemistry I or (CHM 357 in Fall) (WI)	◆	4	
_____	Core II Humanities (CT)	●	3	
BSC 322	Cell Biology	◆	4	
CJ 323 or 422	Criminal Law or Law of Evidence	◆	3	
TOTAL HOURS			**14**	

YEAR FOUR

FALL SEMESTER

	CODE	COURSE NAME		HRS	GRADE
	CHM 345	Intro Analytical Chemistry	◆	4	
	CHM 491	Capstone Experience (or CHM 490)	◆	2	
	BSC 324	Genetics	◆	4	
	_____	Writing Intensive	●	3	
	_____	Restricted Elective	◆	3	
	TOTAL HOURS			**16**	

Summer Term (optional):

SPRING SEMESTER

CODE	COURSE NAME		HRS	GRADE
CHM 432	Chemistry Seminar	◆	0	
_____	300/400 CHM Elective	◆	3	
_____	Restricted Elective	◆	4	
CHM 411	Instrumental Methods	◆	4	
_____	Multicultural or International	●	3	
TOTAL HOURS			**14**	

◆ Area of Emphasis
◆ Major Requirement
■ College Requirement
● General Education Requirement

Milestone Course: This is a key success marker for your major. See your advisor to discuss the importance of this course in your plan of study.