

**Major in Chemistry (BS)
Forensic Science Option
120 hours**

University Requirement – 2 hours

GSTD 1002 Freshman Seminar

General Education – 24 hours (Mathematics, natural science and physical science courses are included in the major.)

Chemistry – 42 hours

CHEM	1501	Background and Strategies in Chemistry (BASIC)
CHEM	1023/1021	University Chemistry I/Lab
CHEM	1123/1121	University Chemistry II/Lab
CHEM	2012/2001	Analytical Chemistry I/Lab
CHEM	2173	Forensic Science
CHEM	3003/3001	Organic Chemistry I/Lab
CHEM	3103/3101	Organic Chemistry II/Lab
CHEM	3073/3071	Biochemistry I/Lab
CHEM	4073	Biochemistry II
CHEM	4173	Forensic Chemistry
CHEM	4403/4401	Physical Chemistry: Thermodynamics/Lab OR
CHEM	4413/4411	Physical Chemistry: Quantum and Kinetics/Lab
CHEM	4051	Senior Seminar – Chemistry

Select 4 hours from the following:

CHEM	3313/3311	Instrumentation I/Lab
CHEM	4313/4111	Instrumentation II/Lab

Biology – 16 hours

BIOL	1203/1201	Principles of Biology I/Lab
BIOL	1213/1211	Principles of Biology II/Lab
BIOL	3033/3031	Genetics/Lab
BIOL	4503/4501	Molecular Biology/Lab

Mathematics – 10 hours

MATH	1045	Pre-Calculus Mathematics*
MATH	1525	Calculus I

Physics – 8 hours

PHYS	2003/2001	College Physics I/Lab
PHYS	2103/2101	College Physics II/Lab
or		
PHYS	2203/2201	University Physics I/Lab
PHYS	2213/2211	University Physics II/Lab

Criminal Justice – 12 hours

CRJU	2003	Introduction to Criminal Justice
CRJU	3023	Criminal Evidence and Procedures
CRJU	3033	Criminal Investigation
CRJU	3183	Statistics (or equivalent)

Other Requirements – 6 hours

ENGL	3003	Advanced Professional Writing
SPCH	1113	Introduction to Public Speaking

No minor is required in this major.

Chemistry Major – Forensic Science Option (BS)

Suggested Plan of Study

2018-2019 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1045 Pre-Calculus Mathematics	5	MATH 1545 Calculus I	5
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
1501 Background and Strategies in Chemistry (BASIC)	1	*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National)	3
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 3		Spring - Semester 4	
CRJU 2003 Introduction to Criminal Justice	3	CHEM 2173 Forensic Science	3
CHEM 3003/3001 Organic Chemistry I/Lab	4	CHEM 3103/3101 Organic Chemistry II/Lab	4
BIOL 1203/1201 Principles of Biology I/Lab	4	BIOL 1213/1211 Principles of Biology II/Lab	4
SPCH 1113 Introduction to Public Speaking	3	CHEM 2012/2001 Analytical Chemistry/Lab	3
World Literature I/II (ENGL 2213 or ENGL 2223)	3		
Total Semester Hours	17	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
PHYS 2003/2001 College Physics I/Lab or PHYS 2203/2201 University Physics I/Lab	4	PHYS 2103/2101 College Physics II/Lab or PHYS 2213/2211 University Physics II/Lab	4
CHEM 3313/3311 Instrumentation I/Lab or CHEM 4313/4311 Instrumentation II/Lab	4	CHEM 3073/3071 Biochemistry I/Lab	4
CRJU 3183 Statistics (or equivalent)	3	ENGL 3003 Advanced Professional Writing	3
Social Science choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003 or Foreign Language)	3
Total Semester Hours	14	Total Semester Hours	14
Fall - Semester 7		Spring - Semester 8	
CRJU 3033 Criminal Investigation	3	CRJU 3023 Criminal Evidence & Procedures	3
BIOL 3033/3031 Genetics/Lab	4	BIOL 4503/4501 Molecular Biology/Lab	4
CHEM 4073 Biochemistry II	3	CHEM 4173 Forensic Chemistry	3
CHEM 4051 Senior Seminar – Chemistry	1	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003 or Foreign Language)	3
CHEM 4403/4401 Physical Chemistry: Thermodynamics/Lab or CHEM 4413/4411 Physical Chemistry: Quantum & Kinetics/Lab	4	*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
Total Semester Hours	15	Total Semester Hours	16

Total hours required for major – 120

*Note: Must have six hours of history/government. Three hours must be World History I or II. Three hours must be U.S. History I, U.S. History II or American Government: National.