

# CHEMISTRY (BS) - FORENSIC TRACK

## Program of Study

Code	Title	Credit Hours
<b>Core IMPACTS Area : Institutional Priorities <sup>1</sup></b>		<b>4-5</b>
COMM 1110	Public Speaking	3
ITDS 1779	Scholarship Across the Disciplines	2
LEAD 1705	Introduction to Servant Leadership	2
PERS 1506	Perspectives 1-hour	1
PERS 1507	Perspectives 2-hour	2
Foreign Language Course Options		
ARAB, CHIN, FREN, GERM, GREK, ITAL, JAPN, KREN, LATIN, PORT, SPAN - 1001, 1002, 2001, 2002		
SWAH 1001	Elementary Swahili I	
SWAH 1002	Elementary Swahili II	
<b>Core IMPACTS Area : Mathematics &amp; Quantitative Skills <sup>1</sup></b>		<b>3-7</b>
DATA 1501	Introduction to Data Science	3
MATH 1001	Quantitative Skills and Reasoning	3
MATH 1101	Introduction to Mathematical Modeling	3
MATH 1111	College Algebra	3
MATH 1113	Pre-Calculus	4
MATH 1125	Applied Calculus	3
MATH 1131	Calculus with Analytic Geometry I	4
MATH 1132	Calculus with Analytic Geometry II	4
MATH 1165	Computer-Assisted Problem Solving	3
MATH 1401	Introduction to Statistics	3
MATH 1501	Calculus I	4
MATH 2125	Introduction to Discrete Mathematics	3
STAT 1401	Elementary Statistics	3
<b>Core IMPACTS Area : Political Science and U.S. History</b>		<b>6</b>
HIST 2111	U. S. History to 1865	3
or HIST 2112	U. S. History since 1865	
POLS 1101	American Government	3
<b>Core IMPACTS Area : Arts, Humanities, and Ethics</b>		<b>6</b>
Select one Fine Arts course		3
ARTH 1100	Art Appreciation	
ARTH 2125	Introduction to the History of Art I– Prehistoric through Gothic	
ARTH 2126	Introduction to the History of Art II– Renaissance through Modern	
MUSC 1100	Music Appreciation	
THEA 1100	Theatre Appreciation	
ITDS 1145	Comparative Arts <sup>2</sup>	
Select one Humanities course		3
ENGL 2111	World Literature I	
ENGL 2112	World Literature II	
ITDS 1774	Introduction to Digital Humanities	
PHIL 2010	Introduction to Philosophy	
ITDS 1145	Comparative Arts <sup>2</sup>	
<b>Core IMPACTS Area : Communicating in Writing</b>		<b>6</b>
ENGL 1101	English Composition I	3
ENGL 1102	English Composition II	3
<b>Core IMPACTS Area : Technology, Mathematics, and Sciences <sup>1</sup></b>		<b>7-11</b>
ANTH 1145	Human Origins	3
ASTR 1105	Descriptive Astronomy: The Solar System	3
ASTR 1106	Descriptive Astronomy: Stars and Galaxies	3
ASTR 1305	Descriptive Astronomy Lab	1
ATSC 1112	Understanding the Weather	3
ATSC 1112L	Understanding the Weather Lab	1
BIOL 1125	Contemporary Issues in Biology Non-Lab	3
BIOL 1215K	Introductory Biology	4
BIOL 1225K	Contemporary Issues in Biology with Lab	4
CHEM 1151 & 1151L	Survey of Chemistry I and Survey of Chemistry I Lab	4
CHEM 1152 & 1152L	Survey of Chemistry II and Survey of Chemistry II Lab	4
CHEM 1211 & 1211L	Principles of Chemistry I and Principles of Chemistry I Lab	4
CHEM 1212 & 1212L	Principles of Chemistry II and Principles of Chemistry II Lab	4
CPSC 1105	Introduction to Computing Principles and Technology	3
CPSC 1301K	Computer Science I	4
ENVS 1105	Environmental Studies	3
ENVS 1105L	Environmental Studies Laboratory	1
ENVS 1205K	Sustainability and the Environment	4
GEOG 2215	Introduction to the Geographic Information Systems	3
GEO 1110	Natural Disasters: Our Hazardous Environment	3
GEO 1121	Introductory Geoscience I: Physical Geology	3
GEO 1121L	Introductory Geoscience I: Physical Geology Lab	1
GEO 1122	Introductory Geo-sciences II: Historical Geology	3
GEO 1322	Introductory Geo-sciences II: Historical Geology Lab	1
GEO 2225	The Fossil Record	4
PHYS 1111 & PHYS 1311	Introductory Physics I and Introductory Physics I Lab	4
PHYS 1112 & PHYS 1312	Introductory Physics II and Introductory Physics II Lab	4
PHYS 1125	Physics of Color and Sound	3
PHYS 1325	Physics of Color and Sound Lab	1
PHYS 2211 & PHYS 2311	Principles of Physics I and Principles of Physics I Lab	4
PHYS 2212 & PHYS 2312	Principles of Physics II and Principles of Physics II Lab	4
<b>Core IMPACTS Area : Social Sciences</b>		<b>6</b>
Select one Behavioral Science course		
ECON 2105	Principles of Macroeconomics	
ECON 2106	Principles of Microeconomics	
PHIL 2030	Moral Philosophy	
PSYC 1101	Introduction to General Psychology	
SOCI 1101	Introduction to Sociology	
Select one World Cultures course		3

ANTH 1107	Discovering Archaeology	
ANTH 1105	Cultural Anthropology	
ANTH 2105	Ancient World Civilizations	
ANTH 2136	Language and Culture	
ENGL 2136	Language and Culture	
GEOG 1101	World Regional Geography	
HIST 1111	World History to 1500	
HIST 1112	World History since 1500	
ITDS 1155	The Western Intellectual Tradition	
ITDS 1156	Understanding Non-Western Cultures	

**Core IMPACTS Total Hours** **42**

**Health and Wellness** **3**

KINS 1106	Lifetime Wellness	2
	or PHED 1205 Concepts of Fitness	

Select one PEDS course (<https://catalog.columbusstate.edu/course-descriptions/peds/#peds>)

<sup>1</sup> The hours applied in the Institutional Priorities; Mathematics & Quantitative Skills; and Technology, Mathematics, and Sciences areas must add to 18 credit hours.

<sup>2</sup> ITDS 1145 Comparative Arts, though listed under both Fine Arts and Humanities, may be taken only once.

### Major Requirements

Code	Title	Credit Hours
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#### Core Requirements

Complete the core requirements for this program	45
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#### Area F Courses Related to Major

Students must have a grade of C or better in the course used to satisfy the major.

Apply one hour from Area A (MATH 1113)	1
Apply one hour from Area D (MATH 1131)	1

STAT 1401	Elementary Statistics	3
CHEM 1715	Introductory Chemistry Seminar	1
CHEM 2115	Quantitative Chemical Analysis	3
CHEM 2315	Quantitative Chemical Analysis Lab	1

Complete a physics course sequence (Principles required for ACS Track).

#### Introductory Physics Sequence:

PHYS 1111	Introductory Physics I	
PHYS 1311	Introductory Physics I Lab	
PHYS 1112	Introductory Physics II	
PHYS 1312	Introductory Physics II Lab	

#### Principles of Physics Sequence:

PHYS 2211	Principles of Physics I	
PHYS 2311	Principles of Physics I Lab	
PHYS 2212	Principles of Physics II	
PHYS 2312	Principles of Physics II Lab	

**Area F Total** **18**

#### Area G Program Requirements

Students must have a grade of C or better in the course used to satisfy the major.

MATH 1132	Calculus with Analytic Geometry II	4
BIOL 1107K	Principles of Biology I	4
BIOL 3215K	Cell Biology	4
CHEM 1165	Introductory Forensic Chemistry	3
CHEM 3111	Organic Chemistry I	3
CHEM 3112	Organic Chemistry II	3
CHEM 3135	Inorganic Chemistry	3
CHEM 3141	Biochemistry I	3
CHEM 3311	Organic Chemistry I Lab	1
CHEM 3312	Organic Chemistry II Lab	1
CHEM 3335	Inorganic Chemistry Lab	1
CHEM 3345	Biochemistry Lab I	1
CHEM 4115	Foundations of Physical Chemistry	3
CHEM 4175	Instrumental Methods of Chemical Analysis	3
CHEM 4315	Foundations of Physical Chemistry Lab	1
CHEM 4375	Instrumental Methods of Chemical Analysis Lab	1
CHEM 4794	Capstone Seminar	1
CRJU 1105	Introduction to Criminal Justice	3
CRJU 4177	Principles of Forensic Science: Human Identification	3
CRJU 4719	Principles of Forensic Science: Lethal Agents and Crimes	3

**Area G Total** **49**

#### Area I General Electives

Select 11 credits of general electives. To satisfy degree requirements, 11 4 of these credits must be from courses of level 3000 or above.

**Area I Total** **11**

**Total Credit Hours** **123**