Administration Approved: 5/05/2014

Lock Haven University Chemistry Department **Bachelor of Science**

Chemistry – Forensic Track Major Effective Fall 2014

9 sh
3 sh
3 sh
3 sh
3

Knowledge and Inquiry	21 sh
Natural Science Inquiry	6 sh
BIOL106: Principles of Biology I	3
BIOL107: Principles of Biology II	3
Historical, Behavioral, and Social Science Inquiry	6 sh
SOCI101: Intro Sociology	3
Philosophical, Literary, and Aesthetic Inquiry	9 sh

12 sh
9 sh
3 sh

Electives	17 sh

First Year Student Seminar	1 sh
SCI119: First Year Seminar	1

Major Area and Cognate Courses	60 sh
BIOL202: Genetics	3
CHEM120: Principles of Chemistry I#	4
CHEM121: Principles of Chemistry II#	4
CHEM220: Organic Chemistry I#	4
CHEM221: Organic Chemistry II#	4
CHEM316: Quantitative Analysis#	4
CHEM317: Instrumental Analysis#	4
CHEM320: Physical Chemistry I#	4
CHEM3xx/4xx: Upper level Chem elective*#	3
CHEM410: Biochemistry I#	4
CRJS102: Intro Criminal Justice	3
CRJS240: Law Enforcement#	3
CRJS310: Criminal Investigation#	3
CRJS360: Criminal Procedure#	3
MATH142: Calculus II	3
PHYS170: Intermediate General Physics I	4
PHYS171: Intermediate General Physics II	4
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* except CHEM328 and CHEM369	
# 43 Hours of Advanced Coursework	
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Lock Haven University Chemistry Department Forensic Track Suggested Course Sequence

Fall Freshman (example) ENGL100: Composition (3) SCI119: First Year Student Seminar (1) MATH141: Calculus I (3) CHEM120: Principles of Chemistry I (4) BIOL106: Principles of Biology I (3)	Spring Freshman (example) MATH142: Calculus II (3) CHEM121: Principles of Chemistry II (4) BIOL107: Principles of Biology II (3) SOCI101: Intro Sociology (3) Wellness (3)
Credit Total:14	Credit Total:16
Fall Sophomore (example) CHEM220: Organic Chemistry I (4) BIOL202: Genetics (3) Historical, Behavioral, and Social Science (3) PLA1 (Philosophical, Literary, and Aesthetic Inquiry) (3) GAC1 (Global Awareness and Citizenship) (3)	Spring Sophomore(example) CHEM221: Organic Chemistry II (4) PHYS170: Intermediate General Physics I (4) PLA2 (3) Elective (3)
Credit Total:16	Credit Total:14
Fall Junior (example) PHYS171: Intermediate General Physics II (4) CHEM316: Quantitative Analysis (4) CHEM320: Physical Chemistry I (4)* CRJS102: Intro Criminal Justice (3)	Spring Junior (example) CHEM317: Instrumental Analysis (4) CRJS240: Law Enforcement (3) GAC2 (3) Electives (6)
Credit Total:15*	Credit Total:16
Fall Senior (example) CHEM3xx/4xx: Upper level CHEM elective (3)* CRJS310: Criminal Investigation (3) Oral Communication (3) GAC3 (3) Electives (3)	Spring Senior (example) CHEM410: Biochemistry I (4) CRJS360: Criminal Procedure (3) PLA3 (3) Electives (4)
Credit Total:15*	Credit Total:14

^{*} When the Fall semester of the junior year occurs in an even year (e.g., 2016) as written. When the Fall semester of the junior year occurs in an odd year (e.g., 2017), CHEM320 and CHEM3xx/4xx switch places and the credit totals become 14 and 16 for the junior and senior Fall semesters respectively. Also, the distribution of free electives allows for considerable flexibility for taking CHEM3xx/4xx as they become available and strike the interest of particular students in a given semester in the last two years of study.