

BETH-EL COLLEGE OF
NURSING & HEALTH SCIENCES



UNIVERSITY OF COLORADO
AT COLORADO SPRINGS

PROGRAM REQUIREMENTS - BACHELOR OF SCIENCE IN HEALTH CARE SCIENCE
Forensic Health Science Option B – Forensic Biology

<u>General Education Course Requirements</u>	<u>Credits</u>
ENGL 131 & 309 Rhetoric & Writing I & Tech Writing (<i>Complete Competency Exam after ENGL 309</i>)	6
HSCI 206 Health Science Statistics (<i>Can Sub w/PSY 210</i>)	3
Humanities Elective (see LAS list)	3
PSY 100 General Psychology	4
SOC 111 Introduction to Sociology	4
	20
<u>Health Science Prerequisites</u>	
BIOL 110/111 & 115/116 General Biology I & II (<i>Pre-req/Co-req Chemistry</i>)	8
BIOL 201 & 202 Human Anatomy and Physiology I & II	8
CHEM 103 & 106 General Chemistry I & II (<i>Pre-reqs 1 yr HS CHEM & 2 yrs HS Math</i>)	10
MATH 135 & 136 Calculus I & II (<i>Pre-req MATH 105 or score of 10+ on Calc Readiness Exam</i>)	8
PES 111, 112 & 116 General Physics I & II plus lab (<i>Co-req MATH 135 & 136</i>)	9
	43
<u>Health Science Core Requirements</u>	
HSCI 301 Pathophysiology (<i>Pre-reqs BIOL 201, 202 & CHEM 103, 106</i>)	3
HSCI 401 Health Science Research (<i>Pre-req/Co-req HSCI 206, Jr/Sr level, fall only</i>)	3
HSCI 329 Principles of Management and Finance	3
HSCI 330 Professionalism and Ethics	3
	12
<u>Forensic Health Science Option Requirements</u>	
BIOL 302 Cell Biology (<i>Pre-reqs BIOL 110, 111, 115, 116, CHEM 103, 106, fall only</i>)	3
BIOL 383 & 384 Genetics and Genetics Lab (<i>Pre-req BIOL 302, spring only</i>)	5
BIOL 481 & 482 General Biochemistry I & II (<i>Pre-reqs BIOL 302, CHEM 330, 340</i>)	7
BIOL 484 Molecular Biology (<i>Pre-req BIOL 383, fall only</i>)	3
CHEM 330 & 340 Organic Chemistry and Lab (<i>Pre-req CHEM 106, fall only</i>)	5
CHEM 417 & 418 Analytical Chemistry I & II (<i>Pre-req CHEM 106</i>)	7
CHEM 420 Practical Instrumental Analysis (<i>Pre-req CHEM 417, Co-req w/CHEM 418</i>)	2
HSCI 429 Legal Aspects: Civil and Criminal (<i>Pre-req HSCI 200, spring only</i>)	3
HSCI 431 Introduction to Forensics (<i>summer only</i>)	3
HSCI 433 Crime Scene and Crime Lab (<i>fall/summer</i>)	3
HSCI 441 Forensic Chemistry & Toxicology (<i>Pre-reqs CHEM 103 & 106, spring only</i>)	4
	45

TOTAL PROGRAM CREDITS = 120

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PROGRAM REQUIREMENTS FOR
BETH-EL COLLEGE OF NURSING & HEALTH SCIENCES**

**MODEL DEGREE PLAN - BACHELOR OF SCIENCE IN HEALTH CARE SCIENCE
*Forensic Health Science Option B – Forensic Biology***

<u>First Year</u>	<u>Credits</u>
BIOL 110/111 General Biology I & Lab (<i>Pre-req/Co-req CHEM, fall only</i>)	4
CHEM 103 General Chemistry I (<i>Pre-req 1 yr HS CHEM & 2 yrs HS MATH</i>)	5
ENGL 131 Rhetoric and Writing I (<i>Pre-req of ACT English score 19 or SAT Verbal 450</i>)	3
BIOL 115/116 General Biology II & Lab (<i>Pre-req BIOL 110/111, spring only</i>)	4
CHEM 106 General Chemistry II (<i>Pre-req CHEM 103 w/grade of C or better</i>)	5
Humanities Elective (See LAS list)	3
MATH 135 Calculus I (<i>Pre-req MATH 105 or score of 10+ on Calc Readiness Exam</i>)	4
	28
<u>Second Year</u>	
BIOL 201 Human Anatomy and Physiology I (<i>fall only</i>)	4
*HSCI 206 Health Science Statistics (<i>Can be taken during Interim</i>)	3
PES 111/116 General Physics I & Lab (<i>Pre-req/Co-req MATH 135</i>)	5
PSY 100 or SOC 111 General Psychology or Introduction to Sociology	4
BIOL 202 Human Anatomy and Physiology II (<i>Pre-req BIOL 201, spring only</i>)	4
HSCI 429 Legal Aspects of Forensic Science (<i>Pre-req HSCI 200, spring only</i>)	3
MATH 136 Calculus II (<i>Pre-req MATH 135</i>)	4
PES 112 General Physics II (<i>Pre-req PES 111, Co-req MATH 136</i>)	4
	31
<u>Third Year</u>	
BIOL 302 Cell Biology (<i>Pre-reqs BIOL 110, 111, 115, 116, CHEM 103, 106</i>)	3
CHEM 330/340 Organic Chemistry & Lab (<i>Pre-req CHEM 106 w/grade of C or better, fall only</i>)	5
CHEM 417 Analytical Chemistry I (<i>Pre-req CHEM 106 w/grade of C or better, fall only</i>)	4
BIOL 383 Genetics (<i>Pre-req BIOL 302, spring only</i>)	3
BIOL 384 Genetics Laboratory (<i>Pre-req/Co-req BIOL 383</i>)	2
CHEM 418 Analytical Chemistry II (<i>Pre-reqs PES 112, CHEM 417 w/grades of C or better, spring only</i>)	3
CHEM 420 Practical Instrumental Analysis (<i>Pre-req CHEM 417, spring only</i>)	2
ENGL 309 Tech Writing & Presentation (<i>Pre-req ENGL 131</i>)	3
*HSCI 431 Introduction to Forensics (<i>summer only</i>)	3
*HSCI 433 Crime Scene and Crime Lab (<i>summer/fall</i>)	3
	31
<u>Fourth Year</u>	
BIOL 481 General Biochemistry I (<i>Pre-reqs BIOL 302, CHEM 330/340, fall/summer</i>)	3
BIOL 484 Molecular Biology (<i>Pre-req BIOL 383</i>)	3
HSCI 401 Health Science Research (<i>Pre-req/Co-req HSCI 206, Jr/Sr level, fall only</i>)	3
HSCI 330 Professionalism and Ethics	3
PSY 100 or SOC 111 General Psychology or Introduction to Sociology	4
BIOL 482 General Biochemistry II (<i>Pre-req CHEM 330/340, spring only</i>)	4
HSCI 301 Pathophysiology (<i>Pre-reqs BIOL 201, 202, CHEM 103, 106</i>)	3
HSCI 329 Principles of Management and Finance	3
HSCI 441 Forensic Chemistry and Toxicology (<i>Pre-reqs CHEM 103 & 106, spring only</i>)	4
	30

TOTAL PROGRAM CREDITS = 120