

B.S. in Forensic Science, Forensic Biology Concentration

Suggested Eight-Semester Course Sequence

See catalog for additional guidelines and requirements (catalog.wcu.edu)

Freshman Year			
Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
†BIOL 151* - General Biology II	4	†MATH 153 – Calculus I	4
†CHEM 139* - General Chemistry I	4	†CHEM 140* – General Chemistry II	4
1 st Year Seminar or ENGL 101	3	1 st year seminar or ENGL 101	3
FS 110 – Survey of Forensic Science	3	Liberal Studies (LS) or elective	3
<i>Total credit hours:</i>		14	<i>Total credit hours:</i> 14
<i>Hours per week spent in class and lab:</i>		18	<i>Hours per week spent in class and lab:</i> 18

Sophomore Year			
Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
†BIOL 240* – Introduction to Genetics	4	†CHEM 242* – Organic Chemistry II	4
†CHEM 241* – Organic Chemistry I	4	†PHYS 130/230* – Intro/Gen Physics I	4
†CJ 150 – Intro to CJ and Criminology	3	†MATH 270 – Statistical Methods I	3
LS, elective, or ENGL 202	3	LS, elective, or ENGL 202	3
LS or elective	3		
<i>Total credit hours:</i>		17	<i>Total credit hours:</i> 14
<i>Hours per week spent in class and lab:</i>		21	<i>Hours per week spent in class and lab:</i> 18

Junior Year			
Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
†BIOL 333* – Cell and Molecular Biology	4	FS/BIOL 330 – Population Genetics	3
†PHYS 131/231* – Intro/Gen Physics II	4	†BIOL/CHEM 361 – Principles of Biochem	3
LS or elective	3	3 credits CJ, LAW, LEAD, or PAR	3
LS or elective	3	LS or elective	3
LS or elective	3	LS or elective	3
<i>Total credit hours:</i>		17	<i>Total credit hours:</i> 15
<i>Hours per week spent in class and lab:</i>		21	<i>Hours per week spent in class and lab:</i> 15

Senior Year			
Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
†FS 466 – Physical Methods in FS	3	†CHEM 475 – Biochemistry Lab	1
†FS 495 – Seminar in FS	1	Upper-level FS / Biology Course	3
FS/BIOL 422* - Forensic Biology	4	Upper-level FS / Biology Course	3
LS or elective	3	LS or elective	3
LS or elective	3	LS or elective	3
		LS or elective	3
<i>Total credit hours:</i>		14	<i>Total credit hours:</i> 16
<i>Hours per week spent in class and lab:</i>		17	<i>Hours per week spent in class and lab:</i> 18

†Course offered every semester

*Course has separate lecture and lab component

B.S. in Forensic Science, Forensic Biology Concentration Program Requirements

Term	Grade	Course	Hours
		Liberal Studies (C2 and C5 courses are met with major requirements)	33
		First year seminar, 19X	3
		C1: ENGL 101 – Writing and Rhetoric	3
		C1: ENGL 202 – Writing and Critical Inquiry	3
		C3: COMM 201 – Foundations in Communication	3
		C4: Wellness	3
		*P1: Social Sciences Course 1	3
		*P1: Social Sciences Course 2 (<i>must be from a different discipline than course 1</i>)	3
		*P3: History	3
		*P4: Humanities	3
		*P5: Fine and Performing Arts	3
		*P6: World Cultures	3
		<i>*Note: At least 1 of the LS Perspectives must be at the junior/senior level</i>	
		Forensic Science Core	31
		BIOL 151 – General Biology II [prereq: CHEM 139; permission of instructor or major in FS]	4
		CHEM 139 – General Chemistry I	4
		CHEM 140 – General Chemistry II [prereq: ≥ C- in CHEM 139 or ≥ B in CHEM 132]	4
		CHEM 241 – Organic Chemistry I [prereq: ≥ C- in CHEM 140]	4
		MATH 153 – Calculus I [prereq: MATH 146 or placement]	4
		MATH 270 – Statistical Methods I [prereq: MATH 146, MATH 153 or placement]	3
		PHYS 130/230 – Introductory/General Physics I [prereq for PHYS 230: MATH 153]	4
		PHYS 131/231 – Introductory/General Physics II [prereq: PHYS 130 or 230]	4
		Additional Forensics and Science Courses	21
		CJ 150 – Introduction to Criminal Justice & Criminology	3
		FS 110 – Survey in Forensic Science (FS 110 recommended; or LAW 201, PAR 230, PAR 313, CJ 305, CJ 343, or CJ 370)	3
		CHEM 242 – Organic Chemistry II [prereq: ≥ C- in CHEM 241 lecture]	4
		BIOL/CHEM 361 – Principles of Biochemistry [prereq: ≥ C- in CHEM 241 lecture]	3
		CHEM 475 – Biochemistry Laboratory [prereq: ≥ C- in BIOL/CHEM 361 or instructor permission]	1
		FS 466 – Physical Methods in Forensic Science [prereq: ≥ C- in CHEM 241]	3
		FS 495 – Seminar in Forensic Science [prereq: Junior or senior standing]	1
		CJ 323 or Choose 3 credit hours among CJ 305, 310, 315, 320, 322, 330, 342, 343, 354, 358, 363, 365, 370, 380, 438, 462, 470, LAW 306, LEAD 300, PAR 313, 366	3
		Forensic Biology Concentration	21
		BIOL 240 – Introduction to Genetics [prereq: ≥ C- in BIOL 140 or 141]	4
		FS/BIOL 330 – Population Genetics [prereq: ≥ C- in BIOL 240]	3
		BIOL 333 – Cell and Molecular Biology [prereq: BIOL 240 or permission of instructor]	4
		FS/BIOL 422 – Forensic Biology [prereq: ≥ C- in BIOL 240 lecture and lab and BIOL 333 lecture and lab]	4
		Choose 6 credit hours of approved upper-level biology/forensics courses from among BIOL 412, 413, 414, 415, 416, 418, 419, 420, 421, 424, 425, 433, 434, 435, 441, 453, 455, 467, 470, 471, 472, 473, 475, 476, 477, 480, 493, 498, 499, CHEM 450/550, 462/562, 463/563, 464/564, FS 380, 388, 389, 493 <i>*Note: only three hours of research or internship may be used to satisfy this requirement.</i>	6
		General Electives (Suggested electives: ANTH 251, 333, 400, BIOL 291, 292, CS 150, 151, PSY 375, 470)	14

- ☐ 30 hours of 300-400 level classes at WCU
☐ Upper-level perspective

- ☐ GPA in major ≥ 2.0
☐ 120 total hours