

B.S. in Chemistry, Premedical/Biomedical Science & Technology Concentration
Suggested Course Sequence for 8-semester plan

Freshman Year

Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
CHEM 139* - General Chemistry I	4	CHEM 140* - Advanced General Chemistry	4
MATH 153 - Calculus I	4	BIOL 140* - Principles of Biology I	4
1 st yr. seminar or ENGL 101	3	1 st yr. seminar or ENGL 101	3
LS** or elective	3	LS or elective	3
<i>total</i>	14	<i>total</i>	14

Sophomore Year

Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
CHEM 232* - Quantitative Analysis	4	CHEM 242 - Organic Chemistry II	3
CHEM 241 - Organic Chemistry I	3	CHEM 272* - Organic Chemistry Lab	2
BIOL 141* - Principles of Biology II	4	PHYS 130 or 230* - Intro. or Gen. Physics I	4
LS, elective or ENGL 202	3	LS, elective or ENGL 202	3
		LS or elective	3
<i>total</i>	14	<i>total</i>	15

Junior Year

Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
CHEM 321 - Inorganic Chemistry	3	CHEM 352 - Physical Chemistry I	3
BIOL 240* - Introduction to Genetics	4	CHEM 370* - Instrumental Analysis I	4
PHYS 131 or 231* - Intro. or Gen. Phys. II	4	CHEM 495 - Seminar in Chemistry	1
LS or elective	3	LS or elective	3
LS or elective	3	LS or elective	4
<i>total</i>	17	<i>total</i>	15

Senior Year

Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
BIOL 333* - Cell and Molecular Biology	4	CHEM 361 - Principles of Biochemistry	3
Chemistry/Biology elective	3	CHEM 371* - Chemical Dynamics	2
LS or elective	3	LS or elective	3
LS or elective	3	LS or elective	3
LS or elective	3	LS or elective	4
<i>total</i>	16	<i>total</i>	15

* This course has a laboratory component.

** LS = liberal studies course

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Program Requirements (Effective Fall 2011)**

Term	Grade	Course	Hours
Liberal Studies (C2 and C5 courses are met with major requirements)			33
		First Year Seminar, 190 or 191	3
		C1: ENGL 101 - Writing and Rhetoric	3
		C1: ENGL 202 - Writing and Critical Inquiry	3
		C3: CMHC 201 - Intro. to Speech Communication	3
		C4: Wellness	3
		*P1: Social Science, course 1	3
		*P1: Social Science, course 2 (<i>must be from a different discipline than course 1</i>)	3
		*P3: History	3
		*P4: Humanities	3
		*P5: Fine & Performing Arts	3
		*P6: World Cultures	3
		<i>*Note: at least one of the LS perspectives must be at the junior-senior level</i>	

Chemistry Core			45
		CHEM 139 - General Chemistry I	4
		CHEM 140 - Advanced General Chemistry	4
		CHEM 232 - Quantitative Analysis	4
		CHEM 241 - Organic Chemistry I	3
		CHEM 242 - Organic Chemistry II	3
		CHEM 272 - Organic Chemistry Lab	2
		CHEM 352 - Physical Chemistry I	3
		CHEM 361 - Principles of Biochemistry	3
		CHEM 370 - Instrumental Analysis I	4
		CHEM 371 - Chemical Dynamics	2
		CHEM 495 - Seminar	1
		MATH 153 - Calculus I	4
		PHYS 130 or 230 - General Physics I	4
		PHYS 131 or 231 - General Physics II	4

Premedical/Biomedical Science & Technology Concentration (3 hours from elective choices: BIOL 311 (3), BIOL 412 (3), BIOL 413 (3), BIOL 414 (2), BIOL 419 (3), BIOL 424 (3), CHEM 435 (3), CHEM 453 (3), CHEM 462 (3), CHEM 463 (3), CHEM 464 (3))			22
		CHEM 321 - Inorganic Chemistry	3
		BIOL 140 - Principles of Biology I	4
		BIOL 141 - Principles of Biology II	4
		BIOL 240 - Introduction to Genetics	4
		BIOL 333 - Cell and Molecular Biology	4
		Elective (see above)	3

General Electives (Suggested Electives: PAR 230 (3), BIOL 291 (4), BIOL 292 (4), MATH 255 (4), MATH 270 (3), CS 150 (4))			20

Graduation Check

- | | |
|---|--|
| <input type="checkbox"/> 30 hours of 300-400 level classes at WCU | <input type="checkbox"/> GPA in major \geq 2.0 |
| <input type="checkbox"/> Upper level perspective | <input type="checkbox"/> 120 total hour |