

B.S. in Chemistry, General 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* - General Chemistry II	4
MATH 153 - Calculus I	4	MATH 255 - Calculus II	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	4
†CHEM 241* - Organic Chemistry I	4	†PHYS 230* - General Physics I	4
LS, elective or ENGL 202	3	LS, elective or ENGL 202	3
LS or elective	3	LS or elective	3
LS or elective	3		
<i>total</i>	17	<i>total</i>	14

Junior Year

Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
CHEM 321 - Inorganic Chemistry	3	CHEM 352 - Physical Chem.: Thermo.	3
†PHYS 231* - General Physics II	4	CHEM 370* - Instrumental Analysis I	4
CHEM 495 - Seminar in Chemistry	1	LS or elective	3
LS or elective	3	LS or elective	3
LS or elective	3	LS or elective	3
<i>total</i>	14	<i>total</i>	16

Senior Year

Fall		Spring	
<i>Course</i>	<i>Credits</i>	<i>Course</i>	<i>Credits</i>
CHEM 472* - Chemical Syntheses	1	†CHEM 361 - Principles of Biochemistry	3
Chemistry elective	3	†CHEM 371* - Physical Chemistry Laboratory	2
LS or elective	3	CHEM 471* - Inorganic Syntheses	1
LS or elective	3	Chemistry elective	3
LS or elective	3	LS or elective	3
LS or elective	3	LS or elective	3
<i>total</i>	16	<i>total</i>	15

† This course is offered every semester

* This course has a laboratory component

** LS = liberal studies course

**B.S. in Chemistry, General Concentration
Program Requirements (Effective Fall 2016)**

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 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 - General Chemistry II (C- or better in 139 required)	4
		CHEM 232 - Quantitative Analysis (C or better in 140 required)	4
		CHEM 241 - Organic Chemistry I	4
		CHEM 242 - Organic Chemistry II (C or better in 241 required)	4
		CHEM 352 - Physical Chemistry: Chemical Thermodynamics (C or better in 232 and MATH 153 required)	3
		CHEM 361 - Principles of Biochemistry	3
		CHEM 370 - Instrumental Analysis I (C or better in 232 and 241 required)	4
		CHEM 371 - Physical Chemistry Laboratory	2
		CHEM 495 - Seminar in Chemistry	1
		MATH 153 - Calculus I	4
		PHYS 230 - General Physics I	4
		PHYS 231 - General Physics II	4

General Concentration (6 hours from elective choices: CHEM 411 (3), CHEM 421 (3), CHEM 435 (3), CHEM 440 (3), CHEM 441 (3), CHEM 445 (3), CHEM 450 (3), CHEM 453 (3), CHEM 454 (3), CHEM 455 (3), CHEM 461 (3), CHEM 465 (4), CHEM 493 (1-3))			15
		CHEM 321 - Inorganic Chemistry (C or better in 140 required)	3
		CHEM 471 - Inorganic Syntheses	1
		CHEM 472 - Chemical Syntheses	1
		MATH 255 - Calculus II	4
		Elective I (see above)	3
		Elective II (see above)	3

General Electives (3 hours must be at the junior-senior level)			27

Graduation Check

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