

# Chemistry

## University Writing Proficiency and Placement Information

Writing Proficiency earned by . . . circle one:      ENGL 111      ACT/SAT/CLT (Score:      )      AP      CLEP      IB

**ACT English  $\geq$  26 or SAT Writing/Language (W/L)  $\geq$  33, CLT Writing/Grammar (W/G)  $\geq$  32:** Student is proficient. Enroll in Effective Communication option. Refer to each term's "Core Options" document for available choices.

**If transfer student has ENGL 111 composition only,** enroll in a 200-level Effective Communication course.

**If transfer student has a 200-level (or above) composition course,** check for Speech course. If no Speech listed, enroll in COMM 211.

**If transfer student has a 200-level composition course AND a Speech course,** he or she is proficient.

**If student has no test scores,** enroll in ENGL 102.

**ACT English = 24-25, SAT W/L 31-32, CLT W/G 30-31:** take Writing Step-Up Exam in first semester.

ACT English 20-23, SAT W/L 28-30, CLT W/G 24-29: ENGL 111	3	Wellness Proficiency	Cr	<input checked="" type="checkbox"/>
ACT English 16-19, SAT W/L 23-27, CLT W/G 19-23: ENGL 102	2	EXER 101 Lifetime Health Awareness	1	<input type="checkbox"/>
ACT English $\leq$ 15, SAT W/L $\leq$ 22, CLT W/G $\leq$ 18: ENGL 100	1			

## Core Curriculum Requirements

	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
GSCI 100 University Seminar	1		ENGL 341 Technical Writing	3	
BIBL 111 Essential Christianity	3		MATH 210 Statistics	3	
BIBL 115 Old Testament Literature	3		Historical Inquiry Option*	3	
BIBL 116 New Testament Literature	3		Artistic Expression Option*	3	
BIBL 360 - 370 Book Study (WPR)*	3		Behavioral and Social Sciences Option*	3	
THEO 320 Pentecost	3		Humanities Option*	3	
ICST 350 Global Connections*	3		Healthy Relationships: PSYC 138 (Preferred) or 112	3	
Natural Science without Lab Option*	3	NA	Christian Stewardship: FIN 138 Personal Finance	3	
Natural Science with Lab Option*	4	NA	Reading and Imagination: ENGL 123*	3	
*Refer to each term's "Core Options" document for available choices. WPR = Writing Proficiency Required: ENGL 111 or ACT English $\geq$ 26			**ENGL/COMM 205 or 341; ENGL 211, 212, or 236 If student has ENGL 201 in transfer, enroll in COMM 211.		

## Program Requirements

	Cr	<input checked="" type="checkbox"/>		Cr	<input checked="" type="checkbox"/>
CHEM 111 General Chemistry I	5		CPSC 111 Introduction to Computer Science	3	
CHEM 112 General Chemistry II	5				
CHEM 271 Organic Chemistry I	4		MATH 231 Calculus I	4	
CHEM 331 Quantitative Analysis	4		MATH 232 Calculus II	4	
CHEM 375 Biochemistry	4				
CHEM 431 Physical Chemistry I	4		PHYS 231 Engineering Physics I	5	
CHEM 435 Inorganic Chemistry	3		PHYS 232 Engineering Physics II	5	
CHEM 496 Seminar	1				
CHEM Electives (courses numbered above 200)	12				
<b>Minimum total credits to graduate</b>				<b>124</b>	

The following additional math courses are recommended for those desiring to pursue graduate work in Chemistry:  
MATH 233 Calculus III, MATH 331 Linear Algebra, and MATH 431 Ordinary Differential Equations.

\*Refer to each term's advising handbook for options

WPR = Writing Proficiency Required

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# Chemistry

The chemistry curriculum is designed to meet the needs of students who are preparing for professional work as chemists in private industry or civil service; training for professional work in health science disciplines; qualifying for graduate work in chemistry, biochemistry, or other physical science; preparing to teach; or those interested in a broad education in physical science. Students preparing for careers in research and development, chemical analyses (including food analyses, forensics, or materials development), or medicine and other allied health fields, generally attend a professional or graduate program after earning a bachelor's degree.

Suggested Course Sequencing: Recommend 15 – 18 semester hours.

## Freshman year

Semester 1	Cr
BIBL 111 Essential Christianity	3
CHEM 111 General Chemistry I [a]	5
ENGL 111 Composition	3
GSCI 100 University Seminar	1
MATH 231 Calculus I [b]	4
<b>16</b>	

Semester 2	Cr
BIBL 115 Old Testament Literature	3
CHEM 112 General Chemistry II	5
FIN 138 Personal Finance	3
MATH 232 Calculus II	4
EXER 101 Lifetime Health Awareness	1
<b>16</b>	

## Sophomore year

Semester 1	Cr
BIBL 116 New Testament Literature	3
CHEM 271 Organic Chemistry I	4
PHYS 231 Engineering Physics I	5
MATH 233 Calculus III	4
<b>16</b>	

Semester 2	Cr
CHEM 272 Organic Chemistry II	4
ENGL 341 Technical Writing	3
MATH 210 Statistics	3
PHYS 232 Engineering Physics II	5
<b>15</b>	

## Junior year

Semester 1	Cr
CHEM 331 Quantitative Analysis [c]	4
CHEM 375 Biochemistry	4
BIBL 360-370 Book Study	3
Historical Inquiry Option	3
CPSC 111 Introduction to Computer Science	3
<b>17</b>	

Semester 2	Cr
CHEM 332 Instrumental Analysis [c]	4
CHEM 435 Inorganic Chemistry	3
ICST 350 Global Connections	3
Reading and Imagination Option	3
MATH Upper Division Elective	3
<b>16</b>	

## Senior year

Semester 1	Cr
CHEM 431 Physical Chemistry I [c]	4
CHEM 496 Seminar	1
Artistic Expression Option	3
Humanities Option	3
Elective	3
<b>14</b>	

Semester 2	Cr
CHEM 432 Physical Chemistry II [c]	4
THEO 320 Pentecost	3
Behavioral and Social Sciences Option	3
PSYC 138 Psychology of Healthy Relationships	3
Elective	3
<b>16</b>	

Total minimum to graduate 124  
and must include at least 36 upper division credits

[a] Those not prepared for CHEM 111 should take CHEM 101 - Introduction to Chemistry.

[b] Those not prepared for Calculus should take MATH 129 - Precalculus Algebra.

[c] CHEM 331/332 and CHEM 431/432 to be offered in alternate years.

Graduation requires an overall GPA of at least 2.0, and 30 of the 40 final credits must be taken at Evangel. The listing above only represents a suggested course sequencing as required to graduate with this major. Students are ultimately responsible for their own degree program. An academic advisor is assigned to the student for guidance in these matters, but the responsibility for meeting the requirements belongs to the student.