

Davis & Elkins College™

Department of Chemistry BS Four-Year Degree Plan (Chemistry- General Chemistry)

This is a model four-year graduation plan. Your path to graduation may vary based on factors such as college credit you earned while in high school, your choice of general education electives, availability of courses, and your placement in English and mathematics.

This degree program can be completed in eight semesters. Check out the [course rotations](#) before scheduling your classes. Visit with your adviser to develop a plan that is right for you.

The following degree plan is based on the general education program instituted in Fall 2015. For the previous general education requirements, please access the appropriate catalog.

Year 1

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CHEM 120-Fundamentals of Chemistry I	3	GES 175-First-Year Symposium	3	CHEM 122-Fundamentals of Chemistry II	3
CHEM 121 – Chemical Laboratory Principles I	1			CHEM 123 – Chemical Laboratory Principles II	1
GES 105- First Year Seminar	3			General Education	6
General Education	3			MATH 196- Calculus I	4
MATH 195- Pre-calculus	4				
Total	14		3		14

Year 2

Fall		Spring	
Course	Credits	Course	Credits
CHEM 205- Organic Chemistry I	3	CHEM 207- Organic Chemistry II	3
CHEM 206- Organic Techniques I	1	CHEM 208- Organic Techniques II	1
MATH 201- Calculus II	4	MATH 304- Differential Equations	3
PHYS 251-Physics I	4	PHYS 252- Physics II	4
General Education	3	General Education	4
Total	15		15

Year 3

Fall		Spring	
Course	Credits	Course	Credits
CHEM 201A- Quantitative Analysis	3	CHEM 301L –Physical Chemistry Laboratory	1
CHEM 202A – Quantitative Analysis Techniques	1	CHEM 302 - Physical Chemistry II	3
CHEM 301- Physical Chemistry I	3	Chemistry Elective	3
Chemistry Elective	3	General Education	3
Math 180-Statistics	3	General Elective	6
CSCI 110- Computer Science I	3		
Total	16		16

Year 4

Fall		Spring	
Course	Credits	Course	Credits
Chemistry Elective	2	CHEM 498 – Seminar and Thesis (Capstone Experience)	3
General Education	7	Chemistry Elective	2
General Elective	6	General Education	3
		General Elective	8
Total	15		16

Notes:

This plan is not a contract curriculum and can change.

Students on the general chemistry track are strongly recommended to complete a minor in mathematics.

If you do not take any optional winter term classes, and you elect to take the lowest recommended number of credits each semester, you will not have enough credits to graduate in four years. You need a total of 124 credits, not including FND courses.

Davis & Elkins College™

Department of Chemistry BS Four-Year Degree Plan (Chemistry – Pre-Medical)

This is a model four-year graduation plan. Your path to graduation may vary based on factors such as college credit you earned while in high school, your choice of general education electives, availability of courses, and your placement in English and mathematics.

This degree program can be completed in eight semesters. Check out the [course rotations](#) before scheduling your classes. Visit with your adviser to develop a plan that is right for you.

The following degree plan is based on the general education program instituted in Fall 2015. For the previous general education requirements, please access the appropriate catalog.

Year 1

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CHEM 120-Fundamentals of Chemistry I	3	GES 175-First Year Symposium	3	CHEM 122-Fundamentals of Chemistry II	3
CHEM 121 – Chemical Laboratory Principles I	1			CHEM 123 – Chemical Laboratory Principles II	1
GES 105- First Year Seminar	3			General Education	3
MATH 195- Pre-calculus	4			MATH 196- Calculus I	4
BIOL 101 – Principles of Biology I	4			BIOL 102 – Principles of Biology II	4
Total	15		3		15

Year 2

Fall		Spring	
Course	Credits	Course	Credits
CHEM 205- Organic Chemistry I	3	CHEM 207- Organic Chemistry II	3
CHEM 206- Organic Techniques I	1	CHEM 208- Organic Techniques II	1
MATH 201- Calculus II	4	PHYS 252- Physics II	4
PHYS 251-Physics I	4	General Education	7
General Education	3		
Total	15		15

Year 3

Fall		Spring	
Course	Credits	Course	Credits
CHEM 201A- Quantitative Analysis	3	CHEM 301L –Physical Chemistry Laboratory	1
CHEM 202A – Quantitative Analysis Techniques	1	Chemistry Elective	3
CHEM 301- Physical Chemistry I	3	General Education	3
General Education	5	General Elective	8
General Elective	4		
Total	16		15

Year 4

Fall		Spring	
Course	Credits	Course	Credits
General Education	6	CHEM 498 – Seminar and Thesis (Capstone Experience)	3
General Elective	8	General Education	3
		General Elective	10
Total	14		16

Notes:

This plan is not a contract curriculum and can change.

Students on the chemistry/pre-medical track are strongly recommended take CHEM 304-Biochemistry as an elective.

If you do not take any optional winter term classes, and you elect to take the lowest recommended number of credits each semester, you will not have enough credits to graduate in four years. You need a total of 124 credits, not including FND courses.

Davis & Elkins College™

Department of Chemistry BS Four-Year Degree Plan (Chemistry – Secondary Education)

This is a model four-year graduation plan. Your path to graduation may vary based on factors such as college credit you earned while in high school, your choice of general education electives, availability of courses, and your placement in English and mathematics.

This degree program can be completed in eight semesters. Check out the [course rotations](#) before scheduling your classes. Visit with your adviser to develop a plan that is right for you.

The following degree plan is based on the general education program instituted in Fall 2015. For the previous general education requirements, please access the appropriate catalog.

Year 1

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CHEM 120-Fundamentals of Chemistry I	3	GES 175 First-Year Symposium	3	CHEM 122-Fundamentals of Chemistry II	3
CHEM 121 – Chemical Laboratory Principles I	1			CHEM 123 – Chemical Laboratory Principles II	1
EDUC 100 – The School of American Society	3			EDUC 120 – Education Technology	3
MATH 195 - Precalculus	4			MATH 196- Calculus I	4
General Education	3			PSYC 217- Adolescent Development	3
PHED 103 – Physical Activity	1			NSCI 105- Integrated Science I	4
Total	15		3		18

Year 2

Fall		Winter		Spring	
Course	Credits	Course	Credits	Course	Credits
CHEM 205- Organic Chemistry I	3	EDUC 271- Diversity in American Schools	3	CHEM 207- Organic Chemistry II	3
CHEM 206- Organic Techniques I	1			CHEM 208- Organic Techniques II	1
MATH 201- Calculus II	4			PHYS 252-Physics II	4
PHYS 251-Physics I	4			EDUC 209- Educational Psychology	3
PHED 102 Wellness Ed	1			General Education	6
EDUC 200 Curriculum & Planning	3		3		17
Total	16				

Year 3

Fall		Spring	
Course	Credits	Course	Credits
CHEM 201A- Quantitative Analysis	3	CHEM 301L –Physical Chemistry Laboratory	1
CHEM 202A – Quantitative Analysis Techniques	1	CHEM 498 – Seminar and Thesis (Capstone Experience)	3
CHEM 301- Physical Chemistry I	3	CHEM 304- Biochemistry*	3
ENVS 101- Introduction to Environmental Science	4	EDUC 212 - Inclusive and Collaborative Methods	3
General Education	4	EDUC 334A- Reading and writing in the Content Areas**	3
EDUC 210 – The Exceptional Child	3	General Education	2
		EDUC 319B Science Methods	3
Total	18		18

Year 4

Fall		Spring	
Course	Credits	Course	Credits
General Education	13	EDUC 493A- Student teaching***	6
EDUC 467 - Methods and Materials, 5-Adult	4	EDUC 494A- Portfolio and Performance Assessment	3
		General Elective	3
Total	15		12

Notes:

A second teaching specialization in General Science is strongly recommended.

*This course is offered every two years (spring of even year).

**Students need to pass the Praxis I to be admitted to the teacher education program before taking this course. Students, who have attempted the Praxis I and did not pass, can apply for a one-semester provisional which will allow registration in this course.

***Students need to pass the Praxis II for the area they are seeking certification in before taking this class.

If you do not take any optional winter term classes, and you elect to take the lowest recommended number of credits each semester, you will not have enough credits to graduate in four years. You need a total of 124 credits, not including FND courses.