

Program Pathway – *B.S. Chemistry: Secondary Education Certification*

This map is a term-by-term sample course schedule. Highlighted courses have been identified as "key courses." It is strongly advised that students make every effort to pass these courses on the first attempt with a "C" or higher in order to be successful in this program. The milestones listed below each year are designed to keep you on course to graduate in four years. Missing milestones could prevent you from being eligible for a particular program or could result in a delay in graduation. The Program Pathway serves as a general guideline to help you build a full schedule each term.

First Year – Fall			
Course Number	Course Title	Credits	Pre-requisites
ENGL 1101 *	English Composition I	3	Minimum SAT/ACT/Accuplacer scores
MATH 1113*	Precalculus	3	MATH 1111 or Minimum SAT/ACT/Accuplacer scores
CHEM 1211K *	Principles of Chemistry I	4	MATH 1111 ('C' or higher) and ENGL 0999 unless exempt
PSYC 1101 *	Introduction to Psychology	3	ENGL 0999 unless exempt
PRSP 1050	Perspectives in STEM	1	
COMM 1110 *	Fundamentals of Speech	3	Co-requisite ENGL 0999
Semester Total		17	

First Year – Spring			
Course Number	Course Title	Credits	Pre-requisites
ENGL 1102 *	English Composition II	3	ENGL 1101 ('C' or higher)
MATH 2253	Calculus & Analytical Geometry I	4	MATH 1113
CHEM 1212K *	Principles of Chemistry II	4	CHEM 1211K
BIOL 1107K	Principles of Biology I	4	ENGL 0999 unless exempt
Semester Total		15	

First Year Milestones
<ul style="list-style-type: none"> • Complete ENGL 1101 & ENGL 1102, MATH 1113, COMM 1110, and PSYC 1101 • Complete CHEM 1211K and CHEM 1212K (Grade of "C" or better required) • Meet with your advisor • Complete SOE requirements during spring semester: Mandated Reporter Training, Criminal Background Check, Ethics Assessment, Purchase Student Liability Insurance • Work/volunteer in capacities that provide experience with middle and high school aged students

Second Year – Fall			
Course Number	Course Title	Credits	Pre-requisites
CHEM 3211K *	Organic Chemistry I	4	CHEM 1212K
PHYS 1111K/2211K	Intro/Principles of Physics I	4	MATH 1111/2253
MATH 2254	Calculus & Analytical Geometry II	4	MATH 2253
CHEM 2000	Scientific Communication (Fall only)	2	Co-req w/ CHEM 1212K
EDUC 2110 *	Investigating Critical/Contemporary Issues	3	ENGL 1101 ('C' or higher), SOE paperwork
Semester Total		17	

Second Year – Spring			
Course Number	Course Title	Credits	Pre-requisites
CHEM 3212K *	Organic Chemistry II	4	CHEM 3211K
PHYS 1112K/2212K	Intro/Principles of Physics II	4	PHYS 1111K/2211K
CHEM 3500*	Biochemistry	3	
EDUC 2120 *	Exploring Socio-cultural Perspectives	3	ENGL 1101 with 'C' or higher, SOE paperwork
EDUC 2130 *	Exploring Learning/Teaching	3	AREA A courses, PSYC 1101, COMM 1110 (all 'C' or higher), SOE paperwork (See advisor)
Semester Total		17	

Second Year Milestones
<ul style="list-style-type: none"> • Complete EDUC 2110, 2120, & 2130 • Meet with your advisor • Submit application for Teacher Education Program • Speak with Field Placement Director about first site placements • Work/volunteer in capacities that provide experience with middle and high school aged students

Third Year – Fall			
Course Number	Course Title	Credits	Pre-requisites
CHEM 3311K *	Quantitative Analysis	4	CHEM 1212K and MATH 1113
Arts/Humanities Elective	Subject options: ENGL, ARTS, HUMN, MUSC, THEA	3	CHEM 3211K & BIOL 1107K
EDUC 3272 *	Class Management Secondary Ed. Field Experience I	2	Acceptance to School of Education, EDUC 2110, 2120, 2130, MATH 2253, 2254, (all 'C' or higher)
EDUC 3902 *	Curriculum Assessment	3	Acceptance to School of Education, EDUC 2110, 2120, 2130, MATH 2253, 2254, (all 'C' or higher)
POLS 1101	American Government	3	
Semester Total		15	

Third Year – Spring			
Course Number	Course Title	Credits	Pre-requisites
CHEM 3312K *	Instrumental Methods of Analysis	4	CHEM 3311K
CHEM 4110K *	Advanced Inorganic Chemistry	4	CHEM 3212K, CHEM 3311K
CHEM 4000 *	Senior Seminar	2	12+ hrs of upper level CHEM courses
EDUC 3273 *	Class Management Secondary Ed. Field Experience II	2	EDUC 3902, EDUC 3272 ('C' or higher)
EDUC 4902 *	Methods/Strategies Teach Secondary Students	3	EDUC 3902, EDUC 3272 ('C' or higher)
Semester Total		15	

Third Year Milestones
<ul style="list-style-type: none"> • Meet with your advisor • Meet with assigned faculty mentor • Prepare for GACE Content Exam • Speak with Field Placement Director about site placements • Have completed resume or CV on file

Fourth Year – Fall			
Course Number	Course Title	Credits	Pre-requisites
CHEM 3411K *	Physical Chemistry I	4	CHEM 3212K, MATH 2254, and PHYS 1112K or 2212K
EDUC 3120 *	Teaching Diverse Learners	3	EDUC 3273, EDUC 4901 ('C' or higher)
EDUC 3274 *	Class Management Secondary Ed. Field Experience III	2	EDUC 3273, EDUC 4901 ('C' or higher)
HIST 2111 or 2112	United States History	3	varies
Social Sciences Elective	Subject options: ANTH, ECON, GEOG, HIST, PHIL, POLS, PSYC, SOCI	3	varies
English Elective	English Literature (ENGL 2xxx)	3	Pre-req ENGL 1102 ('C' or higher)
Semester Total		18	

Fourth Year – Spring			
Course Number	Course Title	Credits	Pre-requisites
READ 3456 *	Reading Across Curriculum	3	EDUC 3120, EDUC 3274 ('C' or higher), 24 credits of MATH courses ('C' or higher)
EDUC 4954 *	Internship in Secondary School Chemistry	8	EDUC 3120, EDUC 3274 ('C' or higher), 24 credits of MATH courses ('C' or higher)
EDUC 4953 *	Teaching Internship Seminar	1	EDUC 3120, EDUC 3274 ('C' or higher), 24 credits of MATH courses ('C' or higher)
Semester Total		12	



Fourth Year Milestones
<ul style="list-style-type: none">• Submit Graduation Application to Office of Enrollment Services the semester before you intend to graduate• Meet with your advisor• Meet with assigned faculty mentor• Speak with Field Placement Director about site placements• Complete GACE content exam• Polish resume or CV with Career and Professional Development• Apply for jobs

Notes: * denotes grade of 'C' or higher required

The Program Pathway is not a contract, neither expressed or implied, between the student and Dalton State College, but represents a flexible program of the current catalog's curriculum which may be altered at any time to carry out the academic objectives of the College.