

Program Pathway – *B.S. Mathematics*

The B.S. in Mathematics will provide students with a broad background in mathematics and prepare students for graduate programs in mathematics as well as careers in both the public and private sector.

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 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	Pre-calculus	3	MATH 1111 or Minimum SAT/ACT/Accuplacer scores
CMPS 1301	Principals of Programming I	3	MATH 1111
COMM 1110	Fundamentals of Speech	3	
PRSP 1050	Perspectives in STEM	1	
Social Sciences Elective	Subject options: ANTH, ECON, GEOG, HIST, PHIL, POLS, PSYC, SOCI	3	varies
Semester Total		16	

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
Humanities Elective	Subject options: ENGL, ARTS, HUMN, MUSC, THEA	3	varies
HIST 2111 or 2112	United States History	3	ENGL 0999 unless exempt
POLS 1101	American Government	3	ENGL 0999 unless exempt
Semester Total		16	

First Year Milestones
<ul style="list-style-type: none"> • Complete ENGL 1102, MATH 1113, MATH 2253, and CMPS 1301 • Meet with your advisor • Explore career options • Consider the B.S. Mathematics: Actuarial Science Concentration • Meet with Career and Professional Development as needed

* denotes grade of 'C' or higher required

Second Year – Fall			
Course Number	Course Title	Credits	Pre-requisites
MATH 2254	Calculus & Analytical Geometry II	4	MATH 2253
MATH 2256	Introduction to Linear Algebra	3	MATH 2253; Co-requisite: MATH 2254
English Elective	English Literature (ENGL 2xxx)	3	ENGL 1102 ('C' or higher)
Lab science	Lab Science Sequence I (BIOL, CHEM, or PHYS)	4	varies
Semester Total		14	

Second Year – Spring			
Course Number	Course Title	Credits	Pre-requisites
MATH 2255	Calculus & Analytical Geometry III	4	MATH 2254
MATH 2403	Differential Equations	4	MATH 2254; Co-requisite: MATH 2256
MATH 3101 * (S)	Introduction to Advanced Math	3	MATH 2254
Lab science	Lab Science Sequence II (BIOL, CHEM, or PHYS)	4	Lab Science Sequence I
Semester Total		15	

Second Year Milestones	
<ul style="list-style-type: none"> • Complete MATH 3101 • Meet with your advisor • Consider joining the Math Club • If career path is undetermined, meet with Career and Professional Development 	

Third Year – Fall			
Course Number	Course Title	Credits	Pre-requisites
MATH 4701 * (F)	Probability and Stats I	3	MATH 2255
MATH 3201 * (F)	Geometry	3	MATH 3101
MATH elective *	Discuss with advisor	3	varies
MATH elective *	Discuss with advisor	3	varies
STM elective*	Subject options: MATH, CHEM, CMPS, ECON, ENGR, PHYS	3	varies
Semester Total		15	

Third Year – Spring			
Course Number	Course Title	Credits	Pre-requisites
MATH elective *	Discuss with advisor	3	varies
MATH elective *	Discuss with advisor	3	varies
MATH elective *	Discuss with advisor	3	varies
STM elective*	Subject options: MATH, CHEM, CMPS, ECON, ENGR, PHYS	3	varies
STM elective*	Subject options: MATH, CHEM, CMPS, ECON, ENGR, PHYS	3	varies
Semester Total		15	

* denotes grade of 'C' or higher required

Third Year Milestones	
<ul style="list-style-type: none"> • Meet with your faculty advisor • Establish specific career goals and research necessary education/training • Research graduate school programs (if applicable) • Have completed resume and submit on Handshake • Attend a Career Fair and explore internship opportunities • Meet with Career and Professional Development as needed 	

Fourth Year – Fall			
Course Number	Course Title	Credits	Pre-requisites
MATH 4101* (F)	Abstract Algebra I	3	MATH 3101
MATH 4601* (F)	Real Analysis I	4	MATH 3101 & 2255
MATH elective*	Discuss with advisor	3	varies
STM elective*	Subject options: MATH, CHEM, CMPS, ECON, ENGR, PHYS	4	varies
Semester Total		14	

Fourth Year – Spring			
Course Number	Course Title	Credits	Pre-requisites
MATH 4102* (S)	Abstract Algebra II	3	MATH 4101
MATH 4602* (S)	Real Analysis II	3	MATH 4601
MATH elective *	Discuss with advisor	3	varies
STM elective*	Subject options: MATH, CHEM, CMPS, ECON, ENGR, PHYS	3	varies
Social Sciences Elective	Subject options: ANTH, ECON, GEOG, HIST, PHIL, POLS, PSYC, SOCI	3	varies
Semester Total		15	

Fourth Year Milestones	
<ul style="list-style-type: none"> • Meet with your faculty advisor • Polish resume or CV with Career and Professional Development • Submit Graduation Application to Office of Enrollment Services the semester before you intend to graduate • Apply to Graduate School and/or for jobs 	

Notes: Courses with (F) designates fall only courses, (S) designates spring only

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.

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