

Program Pathway - B.S. Biology: Pre-Health Studies Concentration

Updated: May 2023

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 – Term 1			
Course Number	Course Title	Credits	Pre-requisites
ENGL 1101*	English Composition I	3	Minimum SAT/ACT/Accuplacer scores/ HS GPA
MATH 1113	Pre-Calculus	3	Minimum SAT/ACT Scores / MATH 1111
BIOL 1107K	Principles of Biology I	4	ENGL 0999
CHEM 1211K	Principles of Chemistry I	4	MATH 1111 w/ C or higher/ACT/SAT Scores
PRSP	Perspectives	1	
Semester Total		15	

First Year – Term 2			
Course Number	Course Title	Credits	Pre-requisites
ENGL 1102*	English Composition II	3	ENGL 1101 ('C' or higher)
MATH 1401	Elementary Statistics	3	Minimum SAT/ACT/Accuplacer scores/HS GPA / Area A Math
BIOL 1108K	Principles of Biology II	4	BIOL 1107K
CHEM 1212K	Principles of Chemistry II	4	CHEM 1211K
Area E Elective	Approved Social Science Elective	3	ENGL 0999 unless exempt
Semester Total		17	

First Year Milestones
<ul style="list-style-type: none"> • Complete ENGL 1101 & ENGL 1102 • Complete Area A Math, BIOL 1107k, BIOL 1108k • Meet with your advisor • If you enter your freshman year at the MATH 1111 level, you need to take CHEM 1212K in the summer before your sophomore year • Begin volunteer hours, complete ~500 hours before junior year • 20 hours of job shadow experience in the field you are interested in

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

Second Year – Term 1			
Course Number	Course Title	Credits	Pre-requisites
BIOL 3100*	Careers & Prof Dev. in BIOL	1	BIOL 1108k
BIOL 3200K*	Cellular Biology	4	Prerequisites: BIOL 1108K, CHEM 1212K. Corequisites: CHEM 3211K.
CHEM 3211K*	Organic Chemistry I	4	CHEM 1212K
BIOL 3500K*	Ecology	4	BIOL 1108K and CHEM 1211K
COMM 1110	Fundamental of Speech	3	Pre- or co-requisite ENGL 0999, unless exempt.
Semester Total		16	

Second Year – Term 2			
Course Number	Course Title	Credits	Pre-requisites
Area E Elective	Approved Social Science Elective	3	ENGL 0999 unless exempt
BIOL 3400K*	Genetics	4	BIOL 3200K, CHEM 1212K, Coreq: CHEM 3211K
CHEM 3212K*	Organic Chemistry II	4	CHEM 3211K
BIOL 2270	Ethical Issues In Science	2	BIOL 1108K
MATH 3050* or MATH 2253*	Biological Statistics (spring only) or Calculus I	3-4	MATH 1401/MATH 1113
Semester Total		16-17	

Second Year Milestones
<ul style="list-style-type: none"> • Meet with your advisor • Meet with assigned faculty mentor • Have completed resume or CV on file. • If you can, take PYSC 1101 & SOCI 1101 in summer. • If you are entering your junior year with a 3.2 GPA or lower, you are no longer considered a serious candidate for most medical programs and should consider your parallel plan. • If you have a 3.2 GPA or higher and plan to apply to medical school, begin studying for the MCAT. • Complete 500 more hours of volunteer time before senior year

Third Year – Term 1			
Course Number	Course Title	Credits	Pre-requisites
BIOL 3000*	Research Methods in Biology	3	BIOL 1108K, COMM 1110, MATH 1401
PHYS 1111K	Introductory Physics I	4	ENGL 0999, MATH 1111
BIOL Upper-level courses*	See table below for options within the concentration	4	
BIOL Upper-level elective*	Recommendation from advisor	3	
Semester Total		14	

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

Third Year – Term 2			
Course Number	Course Title	Credits	Pre-requisites
PHYS 1112K	Introductory Physics II	4	PHYS 1111K
BIOL Upper-level courses*	See table below for options within the concentration	4	
Free Elective*	Recommendation from	3	
POLS 1101	American Government	3	
Semester Total		14	

Third Year Milestones
<ul style="list-style-type: none"> • Meet with your advisor • BIOL 2251K & BIOL 2252K are HIGHLY recommended Upper-level courses • GA MD applications due to MCAS • Complete 500 more hours of volunteer time before graduation

Fourth Year – Term 1			
Course Number	Course Title	Credits	Pre-requisites
BIOL 4250* or BIOL 4251*	Evolution or Human Evolution	4	BIOL 3400K, CHEM 1212K
BIOL Upper-level electives*	Recommendation from advisor	1-2	
ENGL 2XXX	Literature Requirement	3	ENGL 1102 w/C or higher
BIOL Upper-level electives*	Recommendation from advisor	3	
HIST 2111/2112	U.S. History	3	ENGL 0999
Semester Total		14-15	

Fourth Year – Term 2			
Course Number	Course Title	Credits	Pre-requisites
BIOL 4000*	Senior Seminar	2	19 hours of 3/4000 level BIOL courses
BIOL Upper-level courses*	See table below for options within the concentration	3	
BIOL Upper-level courses*	See table below for options within the concentration	3	
AREA C HUMN	ARTS 1100, HUMN 1201, HUMN 1202, MUSC 1100, MUSC 1110, MUSC 1120, or THEA 1100	3	ENGL 0999
Free Elective*	Recommendation from advisor	3	Varies by course
Semester Total		14	

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

Fourth Year Milestones	
•	Submit Graduation Application to Office of Enrollment Services
•	Meet with your advisor
•	Meet with assigned faculty mentor

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.

BIOL Upper-Level Electives – Pre-Health Concentration

BIOL upper-level electives at least 22 hours		
Choose at least 14 credit hours from the courses below.		
Course #	Description	Hours
BIOL 2251K	A&P I	4
BIOL 2252K	A&P II	4
BIOL 3340K	General Microbiology	4
BIOL 3850	Neuroscience	3
BIOL 4100	Immunology	3
BIOL 4200	Pathology	3
BIOL 4251	Human Evolution	3
BIOL 4300	Epidemiology	3
BIOL 4360K	Comparative A & P	4
BIOL 4410K	Molecular Biology	4
BIOL 4500K	Biotechnology	4
BIOL 4700	Microscopy	3
BIOL 4850K	Human Dissection	4
If fewer than 22 hours are selected from courses above, select the remaining hours from the courses below.		
Course #	Description	Hours
BIOL 3150	Science and Society	3
BIOL 3900	Readings in Biology	2
BIOL 4800	Service Learning in Biology	1-2
BIOL 4860	Internship in Biology	1-4
BIOL 4900	Special Topics in Biology	3
BIOL 4960	Research in Biology	1-3
CHEM 3500	Biochemistry	3
CHEM 4120	Drug action and Design	3
MATH 2253	Calculus and Analytic Geometry I	4
MATH 3050	Biological Statistics	3
Free electives (6 hours)		
Choose any classes that give transfer credit to fill these hours		

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