



ASSOCIATE OF SCIENCE

PRE-MEDICAL PROFESSIONAL CONCENTRATION (Pre-Pharmacy, Pre-Medicine, Pre-Dentistry, Pre-Veterinary)

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.

2023-24 Catalog

Effective Summer 2023

1280

Arts and Sciences Division

Biology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ENGLISH COMPOSITION AND ORAL COMMUNICATION: 6 credit hours				
ENG124	College Composition^ (required)	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
SOCIAL AND BEHAVIORAL SCIENCES: 6 credit hours across two disciplines				
BUS122	Basic Economics^	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC225	Diversity in American Society (required)	3	IDS102 or Proficiency	
ARTS AND HUMANITIES: 6 credit hours across two disciplines				
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
PHL122	Ethics (recommended)	3		
MATHEMATICS, STATISTICS, AND LOGIC: 5 credit hours minimum				
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. (required)	5	MTH025 or Proficiency	
NATURAL SCIENCES: 13 credit hours (1 lab course required)				
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)▲+	4		
CHM141	General Chemistry I (lab)^▲	5	(CHM101 or Proficiency) or (MTH024 or MTH025 or Proficiency)	
GENERAL EDUCATION CREDIT TOTAL		37		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry in high school. Students who did not complete chemistry in high school, or who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

▲+Spring only courses. Please see your academic advisor for availability.

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CONCENTRATION CORE				
CHM142	General Chemistry II (lab)	5	CHM141	
CHM241	Organic Chemistry I (lab)▲-	5	CHM142	
CHM242	Organic Chemistry II (lab)▲+	5	CHM241	
MTH124	Statistics^	3	MTH022 or Pre-Co-MTH024 or Proficiency	
MTH223	Analytic Geometry – Calculus I^	4	MTH135 or (MTH125 and MTH130) or Proficiency	
CONCENTRATION ELECTIVES – <i>Select additional courses to complete the total of 62 - 63 credit hours*</i>				
BIO121	Anatomy and Physiology I	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II	4	BIO121 or BIO123	
BIO123	Principles of Human Structure and Function (lab)	5	BIO101 or Proficiency	
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO127 or BIO141	
BIO241	General Genetics (lab)▲-	4	BIO141	
BIO242	Cell & Molecular Biology (lab)▲+	4	BIO141	
CHM243	Biochemistry I▲-	3	CHM123 or CHM141	
PHY101	Principles of Physics (lab)^	4	(MTH024 or MTH025 or Proficiency) or MTH105 or MTH107 and IDS102 or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130) or Proficiency	
PHY122	College Physics II with Algebra (lab)▲+	4	PHY121	
SCI273	Special Topics in Science	3	<i>Sophomore in Program</i>	
TOTAL CREDIT HOURS		62-63		

^Based upon SSC placement score

*Please obtain the complete list of entrance requirements for the professional medical school(s) to which you would like to apply and consult your academic advisor to determine what electives to take.

▲-Fall only courses. Please see your academic advisor for availability.

▲+Spring only courses. Please see your academic advisor for availability.

PART-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

Elective Additional Credit

Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit Transferology at <http://www.transferology.com> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer 36 approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
CHM141	General Chemistry I (lab) ^{^▲}	5	(CHM101 or Proficiency) or (MTH024 or MTH025 or Proficiency)
MTH135 [^]	Precalculus [^] — <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	<u>5</u>	MTH025 or Proficiency
		11	
<u>Second Semester</u>			
CHM142	General Chemistry II (lab)	5	CHM141
ENG124	College Composition [^] (required)	<u>3</u>	Co-ENG024 or Co-ENG011 or Proficiency
		8	
<u>Third Semester</u>			
CHM241	Organic Chemistry I (lab) ^{▲-}	5	CHM142
SOC225	Diversity in American Society (required)	<u>3</u>	IDS102 or Proficiency
		8	
<u>Fourth Semester</u>			
CHM242	Organic Chemistry II (lab) ^{▲+}	5	CHM241
<i>Arts and Humanities Elective</i> ²		<u>3</u>	<i>Check for prerequisite</i>
		8	
<u>Fifth Semester</u>			
<i>Arts and Humanities Elective</i> ²		3	<i>Check for prerequisite</i>
<i>English Composition and Oral Communication Elective</i> ¹		<u>3</u>	<i>Check for prerequisite</i>
		6	
<u>Sixth Semester</u>			
<i>Social and Behavioral Science Elective</i> ³		3	<i>Check for prerequisite</i>
MTH124	Statistics [^]	<u>3</u>	MTH022 or Pre-Co-MTH024 or Proficiency
		6	
<u>Seventh Semester</u>			
BIO141	General Biology I (lab)	4	
MTH223	Analytic Geometry – Calculus I [^]	<u>4</u>	MTH135 or (MTH125 and MTH130) or Proficiency
		8	
<u>Eighth Semester</u>			
BIO142	General Biology II (lab) ^{▲+}	4	
<i>Concentration Elective</i> ^{4*}		<u>3-4</u>	<i>Check for prerequisite</i>
		7-8	
	TOTAL CREDITS	62-63	

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

[▲] Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry in high school. Students who did not complete chemistry in high school, or who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ English Composition and Oral Communication Electives: COM121, COM122, ENG231

² Social and Behavioral Science Electives: BUS122, PSY121, SOC121

³ Arts and Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

⁴ Concentration Electives: BIO121, BIO122, BIO123, BIO221, BIO241, BIO242, CHM243, CHM244, PHY101, PHY121, PHY122, SCI273

* Please obtain the complete list of entrance requirements for the professional medical school(s) to which you would like to apply and consult your academic advisor to determine what electives to take.

^{▲-}Fall only courses. Please see your academic advisor for availability.

^{▲+}Spring only courses. Please see your academic advisor for availability.