

 	<p style="text-align: center;"><b>ASSOCIATE OF SCIENCE</b></p> <p style="text-align: center;"><b>CHEMISTRY</b></p> <p><i>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.</i></p>	<b>2025-26 Catalog</b> Effective Summer 2025
		<b>1260</b>

*Arts and Sciences Division*

*Chemistry Department*

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
<b>FRESHMAN EXPERIENCE</b>				
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
<b>CONCENTRATION CORE: 20 credit hours</b>				
CHM141	General Chemistry I (lab)	5	MTH024 <b>or</b> MTH025 <b>or</b> CHM101 Minimum Grade of C <b>or</b> HS Chemistry 3	
CHM142	General Chemistry II (lab)	5	CHM141	
CHM241	Organic Chemistry I (lab)▲-	5	CHM142	
CHM242	Organic Chemistry II (lab)▲+	5	CHM241	
<b>NATURAL SCIENCES: 4 credit hour minimum</b>				
CHM205	Forensic Chemistry (lab) (recommended for Forensic Science)	4	CHM123 <b>or</b> CHM141 <b>or</b> CHM105	
PHY101	Principles of Physics (recommended for AS)	4	[(MTH024 or MTH025 or Proficiency) or MTH105 or MTH107] and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)^ (recommended for BA)	4	MTH135 <b>or</b> (MTH125 and MTH130) <b>or</b> Proficiency	
PHY221	General Physics I with Calculus (lab)▲- (recommended for BS)	5	Pre-MTH223 <b>and</b> Co-MTH224	
BIO141	General Biology I (lab)**	4		
<b>MATHEMATICS, STATISTICS AND LOGIC: 5 credit hours minimum</b>				
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	MTH025 <b>or</b> Proficiency	
<b>ENGLISH COMPOSITION AND ORAL COMMUNICATION: 3 credit hours</b>				
ENG124	College Composition^ (required)	3	Co-ENG024 <b>or</b> Co-ENG011 <b>or</b> Proficiency	
<b>SOCIAL AND BEHAVIORAL SCIENCES: 6 credit hours across two disciplines</b>				
BUS122	Basic Economics^	3	IDS102 <b>or</b> Proficiency	
BUS221	Microeconomics^	3	IDS102 <b>or</b> Proficiency	
BUS222	Macroeconomics^	3	IDS102 <b>or</b> Proficiency	
PSC121	U.S. Government and Politics	3		
PSY121	General Psychology^	3	IDS102 <b>or</b> Proficiency	
PSY124	Industrial/Organizational Psychology	3		
PSY220	Social Psychology	3		
SOC225	Diversity in American Society (required)	3	IDS102 <b>or</b> Proficiency	

^ Based on SSC placement scores

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

\*Required if also taking PHY222

\*\*Required if taking BIO241

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

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

2025-26 Catalog Effective Summer 2025	<b>CHEMISTRY</b>	1260
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**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	
ENG240	Women's Literature	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17 <sup>th</sup> Century	3		
HIS222	World Civilization from 17 <sup>th</sup> Century	3		
PHL122	Ethics	3		

**ELECTIVES: Select additional credits from Natural Sciences, Mathematics, or the electives categories to complete the total of 60-65 credit hours**

CHM105	Introduction to Forensic Science (lab)	3		
CHM243	Biochemistry I	3	CHM123 or CHM141	
PHY105	Astronomy (lab)	4		
PHY122	College Physics II with Algebra (lab) ▲*	4	PHY121	
PHY222	General Physics II with Calculus (lab)▲+	5	Pre-PHY222 and Co-MTH225	
GEO141	Physical Geology (lab)	4		
BIO142	General Biology II (lab)	4		
BIO241	General Genetics (lab)▲-	4	BIO141	
MTH124	Statistics^	3	MTH022 or Pre-Co-MTH024 or Proficiency	
MTH223	Analytic Geometry and Calculus I^	4	MTH135	
MTH224	Analytic Geometry and Calculus II	4	MTH223	
MTH225	Analytic Geometry and Calculus III*	4	MTH224	
MTH227	Ordinary Differential Equations	4	MTH224	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
CJS121	Introduction to Criminal Justice	3		
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG221	Technical Report Writing	3	ENG124	
ENG231	College Composition II	3	ENG124	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
SCI271	Special Topics in Science I	1		
SCI272	Special Topics in Science II	2		
SCI273	Special Topics in Science III	3		
SSC201	Study Away: Experiential Learning	1		
<b>TOTAL CREDIT HOURS</b>		<b>60-65</b>		

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\*\*Required if taking BIO241

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

▲\*Summer only courses. Please see your academic advisor for availability.

<b>2025-26 Catalog</b> Effective Summer 2025	<b>CHEMISTRY</b>	<b>1260</b>
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## 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 full-time students who plan to finish in two years.

### 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	Take first semester
CHM141	General Chemistry I (lab)	5	MTH024 or MTH025 or CHM101 Minimum Grade of C
ENG124	College Composition^ (required)	3	or HS Chemistry 3 Co-ENG024 or Co-ENG011 or Proficiency
		9	
<u>Second Semester</u>			
MTH135	Precalculus	5	MTH025 or Proficiency
CHM142	General Chemistry II (lab)	5	CHM141
		10	
<u>Third Semester</u>			
Elective(s) <sup>4</sup>		3	Check for prerequisite
SOC225	Diversity in American Society (required)	3	IDS102 or Proficiency
		6	
<u>Fourth Semester</u>			
Arts and Humanities Elective <sup>2</sup>		3	Check for prerequisite
Social and Behavioral Science Elective <sup>1</sup>		3	Check for prerequisite
		6	
<u>Fifth Semester</u>			
CHM241	Organic Chemistry I (lab)▲-	5	CHM142
Arts and Humanities Elective <sup>2</sup>		3	Check for prerequisite
		8	
<u>Sixth Semester</u>			
CHM242	Organic Chemistry II (lab)▲+	5	CHM241
Elective <sup>4,5</sup>		3-4	Check for prerequisite
		8-9	
<u>Seventh Semester</u>			
Natural Science Elective <sup>3</sup>		3-5	Check for prerequisite
Elective(s) <sup>4</sup>		3-4	Check for prerequisite
		6-9	
<u>Eighth Semester</u>			
Elective(s) <sup>4</sup>		4-7	Check for prerequisite
		4-7	
<b>TOTAL CREDITS</b>		<b>60-65</b>	

^Based on SSC placement scores

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

<sup>1</sup> Social and Behavioral Science Electives: BUS122, BUS221, BUS222, PSC121, PSY121, PSY124, PSY220, SOC121, SOC122

<sup>2</sup> Arts and Humanities Electives: ENG233, ENG234, ENG236, ENG237, ENG240, HIS121, HIS122, HIS221, HIS222, PHL122

<sup>3</sup> Natural Science Electives: CHM205, PHY101, PHY121, PHY221, BIO141\*\*

<sup>4</sup> Electives: CHM105, CHM243, PHY105, PHY122, PHY222, GEO141, BIO142, BIO241, MTH124, MTH223, MTH224, MTH225, MTH227, COM121, COM122, CJS121, CSE122, ENG221, ENG231, ITD122, SOC121, SOC122, SCI271, SCI272, SCI273, SSC201

<sup>5</sup> Select additional courses to complete the total of 60-65 credit hours.

\*Required if also taking PHY222

\*\* Required if also taking BIO241

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

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