

	<b>ASSOCIATE OF SCIENCE</b> <b>ASSOCIATE OF SCIENCE – GENERAL</b>		<b>2025-26 Catalog</b> Effective Summer 2025
	<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>		<b>7106</b>

Arts and Sciences Division

Chemistry/Physics Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
<b>FRESHMAN EXPERIENCE</b>				
SSC101	Student Success Seminar^^	1	Take first semester	
<b>COMPUTER APPLICATIONS</b>				
ITD122	Computer Applications for Professionals^ (required)	3	ITD100 or Proficiency	
<b>ENGLISH COMPOSITION AND ORAL COMMUNICATION: 6 credit hours minimum</b>				
ENG124	College Composition^ (required)	3	Co-ENG024 or Co-ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
<b>SOCIAL AND BEHAVIORAL SCIENCES: 9 credit hours minimum across two disciplines</b>				
PSC121	U.S. Government and Politics	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY123	Human Growth & Development	3	PSY121	
PSY124	Industrial/Organizational Psychology	3		
PSY220	Social Psychology	3	PSY121	
PSY221	Abnormal Psychology	3	PSY121	
PSY131	Psychology of Personality	3		
BUS122	Basic Economics^	3	IDS102 or Proficiency	
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
SOC123	Dynamics of the Family	3		
SOC225	Diversity in American Society (required)	3	IDS102 or Proficiency	

^ Based on SSC placement scores

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

▲ -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>ASSOCIATE OF SCIENCE – GENERAL</b>	<b>7106</b>
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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
<b>ARTS AND HUMANITIES: 6 credit hours minimum across two disciplines</b>				
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG235	Introduction to Shakespeare ▲+	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
ENG239	Film Appreciation	3	ENG124	
ENG240	Women's Literature	3	ENG124	
ENG241	Major Modern Writers ▲+	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		
<b>NATURAL SCIENCES: 12 credit hours minimum (1 lab course required)</b>				
BIO101	Introduction to Anatomy and Physiology <sup>^</sup>	3	IDS102 <b>or</b> Proficiency	
BIO121	Anatomy and Physiology I (lab) <sup>β</sup>	4	HS Biology – 3 <b>or</b> BIO101 grade of C	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 <b>or</b> BIO123	
BIO126	Science, Energy, & the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)▲+	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)▲-	3		
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
BIO200	Ecology (lab)▲-	4	BIO141 <b>or</b> BIO142	
BIO241	General Genetics (lab)	4	BIO141	
BIO242	Cell & Molecular Biology (lab)▲+	4	BIO141	
BIO221	Principles of Microbiology (lab)	4	BIO122 <b>or</b> BIO123 <b>or</b> BIO127 <b>or</b> BIO141	
CHM100	Exploring Science and Technology (lab)	4		
CHM101	Introduction to Chemistry <sup>^</sup>	4	(MTH022 <b>or</b> MTH023 <b>or</b> Proficiency) <b>or</b> MTH105 <b>or</b> MTH107	
CHM105	Introduction to Forensic Science (lab)	3		
CHM205	Forensic Chemistry (lab)	4	CHM123 <b>or</b> CHM141 <b>or</b> CHM105	

<sup>^</sup> Based on SSC placement scores

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

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

<sup>β</sup> Credit will be granted for BIO121 or BIO123 but not both.

2025-26 Catalog Effective Summer 2025	<b>ASSOCIATE OF SCIENCE – GENERAL</b>	<b>7106</b>
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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
<b>NATURAL SCIENCES, continued: 12 credit hours minimum (1 lab course required)</b>				
CHM123	General, Organic, and Biological Chemistry (lab)	4	MTH024 or MTH025 or MTH105 or MTH107 or CHM101 Minimum Grade C	
CHM141	General Chemistry I (lab)	5	MTH024 or MTH025 or CHM101 Minimum Grade of C or HS Chemistry 3	
CHM142	General Chemistry II (lab)	5	CHM141	
CHM241	Organic Chemistry I (lab)▲-	5	CHM142	
CHM242	Organic Chemistry II (lab)▲+	5	CHM241	
GEO141	Physical Geology (lab)	4		
PHY101	Principles of Physics <sup>^</sup> (lab)	4	[(MTH024 or MTH025 or Proficiency) or MTH105 or MTH107] and (IDS102 or Proficiency)	
PHY105	Astronomy (lab)	4		
PHY121	College Physics I with Algebra (lab) <sup>^</sup>	4	MTH135 or (MTH125 and MTH130) or Proficiency	
PHY122	College Physics II with Algebra (lab)▲+	4	PHY121	
PHY221	General Physics I with Calculus (lab)▲-	5	MTH223 and Co-MTH224	
PHY222	General Physics II with Calculus (lab)▲+	5	PHY221 and MTH224 and Co-MTH225	
<b>MATHEMATICS, STATISTICS, AND LOGIC: 3-5 credit hours minimum</b>				
MTH118	Quantitative Reasoning	3	Pre/Co-MTH018 or MTH022 or MTH023 or Proficiency	
MTH124	Statistics <sup>^</sup>	3	MTH022 or Pre-Co-MTH024 or Proficiency	
MTH125	College Algebra <sup>^</sup> μ	4	MTH094 or Pre-Co-MTH025 or Proficiency	
MTH130	Trigonometry <sup>μ</sup>	3	MTH125	
MTH135	Precalculus <sup>^</sup> μ– A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) or Proficiency	
MTH223	Analytic Geometry and Calculus I <sup>^</sup>	4	MTH135	
MTH224	Analytic Geometry and Calculus II	4	MTH223	
MTH225	Analytic Geometry and Calculus III	3	MTH224	
MTH226	Linear Algebra▲-	3	MTH224	
MTH227	Ordinary Differential Equations▲+	3	MTH224	
<b>ADDITIONAL ELECTIVES TO COMPLETE DEGREE*</b>		<b>15-25</b>		
<b>TOTAL CREDIT HOURS (60 credit minimum)</b>		<b>60-65</b>		

<sup>^</sup> Based on SSC placement scores

\*Additional Electives: Choose from previous pages or the additional electives list shown on the next page.

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

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

μ Credit will be granted for MTH135 or (MTH125 and/or MTH130) but not both.

2025-26 Catalog Effective Summer 2025	<b>ASSOCIATE OF SCIENCE – GENERAL</b>	<b>7106</b>
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### ASSOCIATE OF SCIENCE ELECTIVES

The Associate of Science Degree requires a **minimum of 60 credit hours**. Students should select a minimum of 40 credit hours from the previous pages. They must further choose 20-25 elective credit hours from the previous pages or the list below to reach a minimum of 60 credit hours. Please note, courses on the previous pages are OT36 and/or TAG with the exception of SSC101 and IDS122; the listing on this page may contain OT36 or TAG courses. Please see your academic advisor for assistance with course selection.

TRANSFERRED ASSURANCE GUARANTEED (TAG) COURSES				
Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ASL122	American Sign Language I	4		
ASL124	American Sign Language II	4	ASL122 <b>or</b> Proficiency	
ASL221	American Sign Language III	4	ASL124	
BIO124	Human Diseases	3	BIO122 <b>or</b> BIO123	
BIO125	Medical Terminology	3		
CJS121	Introduction to Criminal Justice	3		
CJS129	Corrections	3		
CJS221	Criminology	3	CJS121	
COM123	Small Group Communication	3	IDS102 <b>or</b> Proficiency	
COM125	Introduction to Communication Theory <sup>^</sup> ▲-	3	IDS102 <b>or</b> Proficiency	
COM126	Introduction to Mass Communication ▲+	3		
SOC221	Social Problems	3	SOC121	
PSC221	State and Local Government	3	IDS102 <b>or</b> Proficiency	
PSY131	Psychology of Personality	3		
FIN110	Personal Finance	2		

ADDITIONAL ARTS & SCIENCES COURSES	
<b>Biology</b>	<b>Social and Behavioral Sciences</b>
BIO123 Principles of Human Structure & Function (lab)(5)# <sup>β</sup>	GER121 Introduction to Gerontology (3)
BIO222 Pharmacology (3)	GER122 Psychosocial Aspects of Aging (3)
	PSC122 Introduction to Law and the Legal System (3)
<b>Chemistry</b>	PSC222 Public Policy (3)
CHM243 Biochemistry I (3)	PSY222 Psychological Aspects of Therapy (3)
	SOC222 Juvenile Delinquency (3)
<b>English and Modern Languages</b>	
ENG125 Technical Editing & Layout (3)▲+	<b>Sciences</b>
ENG126 Technical Grammar and Style (3)	SCI271 Special Topics in Science I (1)
ENG227 Writing for Media (3)	SCI272 Special Topics in Science II (2)
ENG228 Writing for the Web (3)▲-	SCI273 Special Topics in Science III (3)
ENG229 Grant Writing (3)	
SPN100 Elementary Spanish I (4)	
SPN200 Elementary Spanish II (4)▲+	
<b>General</b>	<b>English Composition and Oral Communication</b>
SSC201 Study Away (1)	COM223 Interviewing (3)▲-
STN100 State Tested Nurse Aide (3)	
NTR121 Nutrition for Health (3)	
ASL121 Introduction to Deaf Culture Community (3)	

#BIO121 and BIO122 may be substituted for BIO123.

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

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

<sup>β</sup> Credit will be granted for BIO121 or BIO123 but not both.

2025-26 Catalog Effective Summer 2025	<b>ASSOCIATE OF SCIENCE – GENERAL</b>	<b>7106</b>
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## FULL-TIME STUDENT ADVISING NOTES

### Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester to discuss their academic progress and plans as well as career plans.

### 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 the website of the university and program to which you are transferring for their course requirements and <https://www.transferology.com/> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer 36 approved and/or 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.

### Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar <sup>^^</sup>	1	Take first semester
ITD122	Computer Applications for Professionals <sup>^</sup>	3	ITD100 <b>or</b> Proficiency
ENG124	College Composition <sup>^</sup> ( <b>Required</b> )	3	Co-ENG024 <b>or</b> Co-ENG011 <b>or</b> Proficiency
<i>Mathematics, Statistics, and Logic Elective</i> <sup>2^</sup>		3-5	Check for prerequisites
<i>Natural Science Elective</i> <sup>3^</sup>		<u>3-5</u>	Check for prerequisites
		<b>13-17</b>	
<u>Second Semester</u>			
<i>Elective</i> <sup>6</sup>		3-5	Check for prerequisites
<i>Natural Science Elective</i> <sup>3^</sup>		3-5	Check for prerequisites
<i>Social and Behavioral Science Elective</i> <sup>5^</sup>		3	Check for prerequisites
<i>English Composition and Oral Communication Elective</i> <sup>4</sup>		<u>3</u>	Check for prerequisites
		<b>12-16</b>	
<u>Third Semester</u>			
SOC225	Diversity in American Society ( <b>Required</b> )	3	IDS102 <b>or</b> Proficiency
<i>Arts and Humanities Elective</i> <sup>1</sup>		3	Check for prerequisites
<i>Elective</i> <sup>6</sup>		3-5	Check for prerequisites
<i>Natural Science Elective</i> <sup>3^</sup>		<u>3-5</u>	Check for prerequisites
		<b>12-16</b>	
<u>Fourth Semester</u>			
<i>Arts and Humanities Elective</i> <sup>1</sup>		3	Check for prerequisites
<i>Natural Science Elective</i> <sup>3^</sup>		3-5	Check for prerequisites
<i>Social and Behavioral Science Elective</i> <sup>5^</sup>		3	Check for prerequisites
<i>Elective</i> <sup>6</sup> (Take an additional 0 – 14 credit hours to reach 60-65 credit hours)		<u>0-14</u>	Check for prerequisites
		<b>9-25</b>	
<b>TOTAL CREDITS</b>		<b>60-65</b>	

<sup>^</sup>Based on SSC placement scores.

<sup>^^</sup>To promote student success, this course should be taken in the first semester.

<sup>^</sup>Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

<sup>1</sup> **Arts and Humanities Electives:** ENG233, ENG234, ENG236, ENG235, ENG236, ENG237, ENG239, ENG240, ENG241, HIS121, HIS122, HIS221, HIS222, PHL122

<sup>2</sup> **Mathematics, Statistics and Logic Electives:** MTH118, MTH124, MTH125, MTH130, MTH135, MTH223, MTH224, MTH225, MTH226, MTH227

<sup>3</sup> **Natural Sciences Electives:** BIO101, BIO121, BIO122, BIO126, BIO127, BIO128, BIO129, BIO130, BIO141, BIO142, BIO200, BIO241, BIO242, BIO221, CHM100, CHM101, CHM105, CHM205, CHM123, CHM141, CHM142, CHM241, CHM242, GEO141, PHY101, PHY105, PHY121, PHY122, PHY221, PHY222

<sup>4</sup> **English Composition and Oral Communication Electives:** ENG221, ENG230, ENG231, COM121, COM122

<sup>5</sup> **Social and Behavioral Science Electives:** BUS122, BUS221, BUS222, PSC121, PSY121, PSY123, PSY124, PSY220, PSY221, PSY131, SOC121, SOC122, SOC123, SOC225

<sup>6</sup> **Electives:** BIO123, BIO124, BIO125, BIO222, CHM243, CHM244, ENG125, ENG227, ENG228, ENG229, ENG239, ENG240, SPN100, SPN200, COM223, GER121, GER122, PSC122, PSC221, PSC222, PSY222, SOC222, CST121, SCI271, SCI272, SCI273, SSC201, STN100 or any additional English Composition and Oral Communication, Social and Behavioral Science, Arts and Humanities, Mathematics, or Natural Science electives.