
 Stark State COLLEGE  MY ACADEMIC PLAN	ASSOCIATE OF SCIENCE CHEMISTRY	1920 Catalog Effective Summer 2019
	<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>	1260

Arts and Sciences Division

Chemistry 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>	
WRITTEN & ORAL COMMUNICATION:				
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES: 6 credit hours minimum				
BUS122	Basic Economics^	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY124	Industrial/Organizational Psychology	3		
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
ARTS & HUMANITIES: 6 credit hours minimum				
SOC225	Cultural Diversity (required)	3		
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		
HIS221	World Civilization to 17 th Century	3		
HIS222	World Civilization from 17 th Century	3		
PHL122	Ethics (<i>recommended</i>)	3		
MATHEMATICS: 8 credit hours minimum				
MTH135	Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	(MTH093 and MTH094) 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	

^ Based on SSC placement scores

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

*Required if also taking PHY222

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NATURAL SCIENCES: 7-10 credit hours required. Choose one of the following.				
Pre – Bachelor of Science				
PHY221	General Physics I with Calculus (lab) ▲-	5	Pre-MTH223 and Co-MTH224	
PHY222	General Physics II with Calculus (lab) ▲+	5	PHY221 and MTH224 and Co-MTH225	
Pre – Bachelor of Arts				
PHY121	College Physics I with Algebra (lab)^	4	MTH135 or (MTH125 and MTH130) or Proficiency	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
Forensics				
CHM105	Introduction to Forensic Science (lab)	3		
CHM205	Forensic Chemistry (lab)	4	CHM105 or CHM121 or CHM141	
Biochemistry				
CHM243	Biochemistry I ▲-	3	CHM121 or CHM141	
CHM244	Biochemistry II ▲+	3	CHM243	
BIO241	General Genetics (lab) ▲-	4	BIO141	
CONCENTRATION CORE: 20 credit hours required.				
CHM141	General Chemistry I (lab)	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab) ▲+	5	CHM141	
CHM241	Organic Chemistry I (lab) ▲-	5	CHM142	
CHM242	Organic Chemistry II (lab) ▲+	5	CHM241	
ELECTIVES – Select additional credits from mathematics, natural sciences, or electives categories to complete the total of 60-65 credit hours.				
BIO141	General Biology I (lab)**	4		
BIO142	General Biology II (lab) ▲+	4		
GEO141	Physical Geology (lab)	4		
PHY105	Astronomy (lab)	4		
SCI273	Special Topics in Science	3	<i>Sophomore in Program</i>	
MTH124	Statistics^	3	MTH093 or Pre-Co-MTH024 or Proficiency	
MTH227	Ordinary Differential Equations	4	MTH224	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
ENG221	Technical Report Writing	3	ENG124	
ENG231	College Composition II	3	ENG124	
PET131	Corrosion Basics	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
TOTAL CREDIT HOURS		60-65		

^ Based on SSC placement scores

**Required if taking BIO241

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

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

FULL-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 Module 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
SOC225	Cultural Diversity (required)	3	
ENG124	College Composition^	3	Co-ENG024 or Co-ENG011 or Proficiency
<i>Mathematics Elective</i> ³		<u>4</u>	<i>Check for prerequisite</i>
		16	
 <u>Second Semester</u>			
CHM142	General Chemistry II (lab) ▲+	5	CHM141
<i>Social & Behavioral Sciences Elective</i> ¹		3	<i>Check for prerequisite</i>
<i>Arts & Humanities Elective</i> ²		3	<i>Check for prerequisite</i>
<i>Mathematics Elective</i> ³		<u>4</u>	<i>Check for prerequisite</i>
		15	
 <u>Third Semester</u>			
CHM241	Organic Chemistry I (lab) ▲-	5	CHM142
<i>Natural Sciences Options</i> ⁴		3-5	<i>Check for prerequisite</i>
<i>Social & Behavioral Sciences Elective</i> ¹		3	<i>Check for prerequisite</i>
<i>Elective</i> ^{3,5}		<u>3-4</u>	<i>Check for prerequisite</i>
		14-17	
 <u>Fourth Semester</u>			
CHM242	Organic Chemistry II (lab) ▲+	5	CHM241
<i>Natural Sciences Options</i> ⁴		4-7	<i>Check for prerequisite</i>
<i>Elective(s)</i> ^{5,6}		<u>6-7</u>	<i>Check for prerequisite</i>
		15-17	
	TOTAL CREDITS	60-65	

^Based on SSC placement scores

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

¹ Social & Behavioral Science Elective: BUS122, PSY121, PSY124, SOC121, SOC122

² Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122 (*recommended*)

³ Mathematics Electives: MTH135, MTH223, MTH224, MTH225*

⁴ Natural Sciences Options:: (PHY221 and PHY222) or (CHM243, CHM244 and BIO241) or (CHM105 and CHM205) or (PHY121 and PHY122)

⁵ Electives: BIO141**, BIO142, COM121, COM122, CSE122, ENG221, ENG231, GEO141, ITD122, MTH124, MTH227, PET131, PHY105, SCI273

⁶ 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.