



<b>DEGREE SHEET / 2019-2020 CATALOG</b>		
Student name:		
Eagle ID:		
Eagle Email:		
Phone:		
<p><b>ASSOCIATES OF SCIENCE (AS) CHEMISTRY</b></p> <p>This program is designed to complement training for full-time employment or for students seeking such employment. You may use this program in planning to transfer to related academic programs.</p>		
<b>GENERAL EDUCATION REQUIREMENTS (31 Credits)</b>	<b>SEMESTER</b>	<b>GRADE</b>
<b>AREA I: COMMUNICATIONS (6 Credits)</b>		
ENGL 1110      Composition I (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
ENGL 1210      Technical Communication (3) <i>Pre-requisite: ENG 1110</i>		
<b>AREA II: MATHEMATICS (3 Credits)</b>		
MATH 1220      College Algebra (3) <i>Pre-requisite: Math 1215 or adequate score on the Course Placement Evaluation</i>		
<b>AREA III: LABORATORY SCIENCES (4 Credits)</b>		
CHEM 1120/L      Introduction to Chemistry with Lab (4) <i>Pre-requisites: MATH 102 and ENG 109</i>		
Or		
BIOL 1110/L      General Biology with Lab (4) <i>Pre-requisite: ENG 109 or adequate score on Course Placement Evaluation</i>		
<b>AREA IV: SOCIAL/BEHAVIORAL SCIENCES (3 Credits)</b> <i>Students must complete a minimum of 15 credit hours spread between areas IV and V.</i>		
<b>AREA V: HUMANITIES (3 Credits)</b> <i>Students must complete a minimum of 15 credit hours spread between areas IV and V.</i>		
<b>AREA VI: FINE ARTS (3 Credits)</b>		

<b>ADDITIONAL NINE CREDIT HOURS (9 Credits)</b>		
COMM 1130	Public Speaking (3)	
<i>Pre-requisite: ENG 109</i>		
ENVS 2130	Critical Thinking in Science (3)	
<b>Choose one of the following Civics Courses (3)</b>		
POLS 1110	Introduction to Political Science (3)	
POLS 1120	American National Government (3)	
CJUS 1110	Introduction to Criminal Justice (3)	
HIST 1110	United States History I (3)	
HIST 1120	United States History II (3)	
<b>PROGRAM REQUIREMENTS (32 Credits)</b>		
CHEM 1215/L	General Chemistry I with Lab (4)	
<i>Pre-requisites: MATH 1220, high school chemistry, or ACT score of 19 or higher in natural science and ENG 1110</i>		
CHEM 1220/L	General Chemistry II with Lab (4)	
<i>Pre-requisite: CHEM 1215/L</i>		
CHEM 2120/L	Integrated Organic and Biochemistry with Lab (4)	
<i>Pre-requisite: CHEM 1215/L</i>		
CHEM 3301/L	Organic Chemistry I with Lab (4)	
<i>Pre-requisite: CHEM 1220/L</i>		
CHEM 3302/L	Organic Chemistry II with Lab (4)	
<i>Pre-requisite: CHEM 3301/L</i>		
CHEM 4421/L	Biochemistry with Lab (4)	
<i>Pre-requisites: CHEM 3301/L, 3302/L, and 3311/L</i>		
<b>Elect from the following (8 credits)</b>		
CHEM 2290	Undergraduate Research experience I (3)	
<i>Pre-requisites: CHEM 121/L, 122/L, instructor approval</i>		
CHEM 3341	Survey of Biochemistry (3)	
<i>Pre-requisites: CHEM 210/L or 301/L</i>		
BIOL 4472	Biology Seminar (1)	
CHEM 2260	Standard Laboratory Protocols (4)	
<i>Pre-requisite: CHEM 122/L</i>		
ENVS 2201/L	Env Physical and Chemical Processes (4)	
<i>Pre-requisites: BIOL 201/L and CHEM 121/L</i>		
<b>TOTAL CREDITS 63</b>		
<b>ADVISOR APPROVAL</b>		<b>DATE</b>

## SUGGESTED SEQUENCE OF COURSES

### **FIRST SEMESTER (13 Credits)**

ENGL 1110 English Composition I (3)  
Additional Nine Course (3)  
AREA IV Social and Behavioral Science (3)  
CHEM 1120/L Introduction to Chemistry with Lab (4)  
OR  
BIOL 1110/L General Biology with Lab (4)

### **SECOND SEMESTER (16 Credits)**

CHEM 1215/L General Chemistry I with Lab (4)  
COMM 1130 Public Speaking (3)  
ENGL 1210 Technical Communication (3)  
AREA V Humanities (3)  
AREA VI Fine Arts (3)

### **THIRD SEMESTER (14 Credits)**

CHEM 1220/L General Chemistry II with Lab (4)  
CHEM 2210/L Integrated Organic and Biochemistry (4)  
MATH 1220 College Algebra (3)  
ENVS 2130 Critical Thinking in Science (3)

### **FOURTH SEMESTER (12 Credits)**

CHEM 3301/L Organic Chemistry I with Lab (4)  
CHEM 2260 Standard Laboratory Protocols (4)  
CHEM 2290 Undergraduate Research Experience (3)  
BIOL 4427 Biology Seminar (1)

### **FIFTH SEMESTER (4 Credits)**

CHEM 3302/L Organic Chemistry II with Lab (4)

### **SIXTH SEMESTER (4 Credits)**

CHEM 4421/L Biochemistry with Lab (4)

# EDUCATIONAL PLANNING FORM (Semester)

<b>FALL SEMESTER</b>	<b>SPRING SEMESTER</b>	<b>SUMMER</b>
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>
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