Associate in Science Degree in Natural Science with Concentrations in Biological Science or Physical Science **Program Requirements & Map**

Requirements for Applied Science (AS) Degree - Natural Sciences: 60 credits

General Education: 24 credits

English 100(3) and 106(3), 209(3), or 210(3),

or Speech 151(3) or 251(3)

Math 205(4)

Humanities elective (3)

Natural Sciences (8) Chemistry 161/161L(4) plus 4 credits

Social Sciences elective (3)

Additional Program Requirements: 7 credits

Chemistry 162(3), 162L(1)

Information & Computer Sciences 101(3)

Biological Science Concentration: 16-17 credits

Biology 171(3), 171L(1), 172(3), 172L(1) Physics 151(4) and 152(4) or 170(5) and 272(4)

Physical Science Concentration: 13 credits

Math 206(4)

Physics 170(5), 272(4)

Concentration electives for both Biological and Physical Science Concentrations: 12-16 credits

Full-time students in the Biological Sciences Concentration would take courses in this sequence

First Semester (Fall) CHEM 161 CHEM 161L ENG 100 MATH 205 Natural Science elective Total	Credits 3 1 3 4 4 15	Second Semester (Spring) CHEM 162 CHEM 162L ICS 101 Concentration electives Total	Credits
Third Semester (Fall)	Credits	Fourth Semester (Spring)	Credits
BIOL 171	3	BIOL 172	3
BIOL 171L	1	BIOL 172L	1
*PHYS 151	4	*PHYS 152	4
English/Communications elective	3	Humanities elective	3
Social Science elective	3	Concentration electives	6
Total	14	Total	<u>6</u> 17

Full-time students in the Physical Sciences Concentration would take courses in this sequence

First Semester (Fall) CHEM 161 CHEM 161L ENG 100 MATH 205 Natural Science elective Total	Credits 3 1 3 4 4 15	Second Semester (Spring) CHEM 162 CHEM 162L MATH 206 Natural Science elective ICS 101 Total	Credits 3 1 4 4 3 15
Third Semester (Fall) PHYS 170 **MATH 231 (Concentration elective) Social Science elective English/Communications elective Total	Credits 5 3 3 14	Fourth Semester (Spring) PHYS 272 **MATH 232 (Concentration elective) Concentration electives Humanities elective Total	Credits 4 3 6 3 16

^{*} Or PHYS 170 and 272

^{**} Recommended

AS Degree in Natural Sc	iences with a conce	ntration in Biological or Physical Scien	nce (60	credit	s)		
CI Education Door							
General Education Requ		777.4	C.D.				
Area	Course	Title	CR	S1	S2	S3	S4
English	ENG 100	English Composition I	3	·		_	
English/Speech elective			3			•	
Quant Reasoning	MATH 205	Calculus I	4	•			
Humanities elective			3				•
Social Sciences elective			3			•	
Natural Sciences elective	CHEM 161/161L	General Chemistry I & Lab	4	•			
Natural Sciences elective			4	٠			
Total			24				
Additional Program Rea	uirements for both	Biological and Physical Science (7 cre	dits)				
. radiii i i ogrami reeq		General Chemistry I & Lab	4		•		
	ICS 101	Digital Tools for the Information World	3				
Total	103 101	Digital 10015 for the information world	7				
TOTAL .			- 1				
Biological Science Conce	ntration Requires	conte (16 gradite)					
biological Science Conce	BIOL 171/171L	Introductory Biology I & Lab	4				
	BIOL 172/172L	Introductory Biology I & Lab	4			_	
	PHYS 151	College Physics I	4		_		
	PHYS 152		4			-	
771	PH 18 152	College Physics II					_
Total			16				
Concentration electives			13		•		٠
Total							
Iotai							
Physical Science Concen	tration Requireme	nts (13 credits)					
	MATH 206	Calculus II	4		•		
	PHYS 170	General Physics I	5			•	
	PHYS 272	General Physics II	4				•
Total			13				
Concentration electives			10		•		•
	MATH 231*	Calculus III	3			•	
	MATH 232*	Calculus IV	3				•
	* Recommended						