

NATURAL SCIENCES
Associate in Science (AS) Degree

Minimum Credits: 60.0
Contact Hours: 79.0

INTRODUCTION: This is a suggested program of study which may be altered to meet individual goals and transfer plans. Students should refer to the descriptions of Alpena Community College graduation requirements and AS degree distribution requirements and consult with an academic advisor concerning specific course selection. A minimum total of 60 credits are required for the Associate in Science degree.

GENERAL EDUCATION COURSES

(MEETS GRADUATION REQUIREMENTS AND MTA)

COURSE	TITLE	CREDITS	CONTACT HOURS
ENG 111 or ENG 121	English Composition I or Advanced English Composition I	3.0	3.0
ENG 112 or ENG 122	English Composition II or Advanced English Composition II	3.0	3.0
	Math Elective	3.0-5.0	4.0-5.0
PLS 221 or PLS 222 or HST 221 & HST 222	American Government Requirement	3.0-6.0	3.0-6.0
	Humanities/Fine Arts & Social Science Requirement	3.0-4.0	4.0-5.0
	Humanities/Fine Arts Requirement	3.0-4.0	4.0-5.0
CEM 121	General & Inorganic Chemistry	4.0	7.0
BIO 210	Introduction to Botany	<u>4.0</u>	<u>6.0</u>
GENERAL EDUCATION CREDITS/CONTACT HOURS:		26.0-33.0	34.0-40.0

CORE PROGRAM COURSES

(MEET WITH ACADEMIC ADVISOR TO DETERMINE CORE PROGRAM COURSES FOR CONCENTRATION AND TRANSFER)

COURSE	TITLE	CREDITS	CONTACT HOURS
BIO 203	Human Physiology	3.0	5.0
BIO 211	General Zoology	4.0	5.0
CEM 122	Inorganic Chemistry & Qualitative Analysis	4.0	7.0
CEM 221	Organic Chemistry	4.0	6.0
CEM 222	Organic Chemistry	4.0	4.0
PHY 121	General College Physics	4.0	6.0
PHY 122	General College Physics	<u>4.0</u>	<u>6.0</u>
CORE PROGRAM CREDITS/CONTACT HOURS:		27.0	39.0

SUGGESTED ELECTIVES

(MEET WITH ACADEMIC ADVISOR TO DETERMINE ELECTIVES FOR CONCENTRATION AND TRANSFER)

Math Elective	<u>3.0-5.0</u>	<u>4.0-5.0</u>
ELECTIVE CREDITS/CONTACT HOURS:		
TOTAL MINIMUM PROGRAM CREDITS/CONTACT HOURS:		60.0 79.0

SUGGESTED SEQUENCING OF COURSES

YEAR 1 (FALL SEMESTER) <u>14.0-16.0</u> CREDITS			YEAR 1 (SPRING SEMESTER) <u>14.0-16.0</u> CREDITS		
	CREDITS	CONTACT HRS		CREDITS	CONTACT HRS
ENG 111 or ENG 121 English Comp	3.0	3.0	ENG 112 or ENG 122 English Comp	3.0	3.0
CEM 121 General & Inorganic Chemistry	4.0	7.0	CEM 122 Inorganic Chemistry & Qualitative Analysis	4.0	7.0
BIO 210 Introduction to Botany	4.0	6.0	BIO 211 General Zoology	4.0	5.0
Math Elective	<u>3.0-5.0</u>	<u>4.0-5.0</u>	Math Elective	<u>3.0-5.0</u>	<u>4.0-5.0</u>
TOTAL	14.0-16.0	20.0-21.0	TOTAL	14.0-16.0	19.0-20.0
YEAR 2 (FALL SEMESTER) <u>14.0-18.0</u> CREDITS			YEAR 2 (SPRING SEMESTER) <u>14.0-15.0</u> CREDITS		
	CREDITS	CONTACT HRS		CREDITS	CONTACT HRS
CEM 221 Organic Chemistry	4.0	6.0	BIO 203 Human Physiology	3.0	5.0
PHY 121 General College Physics	4.0	6.0	CEM 222 Organic Chemistry	4.0	6.0
American Government Requirement	3.0-6.0	3.0-6.0	PHY 122 General College Physics	4.0	6.0
Humanities/Fine Arts Requirement	<u>3.0-4.0</u>	<u>4.0-5.0</u>	Humanities/Fine Arts & Soc Science Req	<u>3.0-4.0</u>	<u>4.0-5.0</u>
TOTAL	14.0-18.0	19.0-23.0	TOTAL	14.0-15.0	21.0-22.0

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