

## PRE-PHARMACY

### ASSOCIATE IN SCIENCE (AS) DEGREE

DESCRIPTION: This is a suggested program of study which may be altered to meet individual goals and transfer plans. Students should refer to the description 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 is required for the Associate in Science degree.

#### GENERAL EDUCATION REQUIREMENTS CREDITS: 31

ENG 111 <i>or</i> ENG 121	ENGLISH COMPOSITION I (3/3) <i>or</i> ADVANCED ENGLISH COMPOSITION I (3/3)
ENG 112 <i>or</i> ENG 122	ENGLISH COMPOSITION II (3/3) <i>or</i> ADVANCED ENGLISH COMPOSITION II (3/3)
MTH 131 ECN 231	ANALYTIC GEOMETRY & CALCULUS (5/5) ECONOMICS (MICRO) (3/3)
PSY 101 <i>or</i> SOC 123	GENERAL PSYCHOLOGY (3/3) <i>or</i> INTRODUCTION TO SOCIOLOGY (3/3)
SPE 121 <i>or</i> SPE 123	SPEECH COMMUNICATION (3/3) <i>or</i> PUBLIC COMMUNICATION (3/3) HUMANITIES/FINE ARTS (200 LEVEL) ELECTIVE (3/4)
BIO 114 <i>or</i> BIO 210	INTRODUCTION TO BIOLOGICAL SCIENCE (4/5) <i>or</i> INTRODUCTION TO BOTANY (4/5)
CEM 121	GENERAL & INORGANIC CHEMISTRY (4/7)

#### CORE PROGRAM REQUIREMENTS CREDITS: 26

BIO 227	MICROBIOLOGY (4/6)
CEM 122	INORGANIC CHEM & QUALITATIVE ANALYSIS (4/7)
CEM 221	ORGANIC CHEMISTRY (4/6)
CEM 222	ORGANIC CHEMISTRY (4/6)
HST 221	U.S. HISTORY (3/3)
HST 222	U.S. HISTORY (3/3)
MTH 223	STATISTICAL METHODS (4/4)

#### SUGGESTED ELECTIVES CREDITS: 3

Electives will change depending on area of concentration and the specific four-year transfer institution's requirements. Consult your ACC academic advisor.

#### MINIMUM 61 CREDIT HOURS/75 CONTACT HOURS

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#### SUGGESTED SEQUENCE OF COURSES

#### YEAR 1 (FALL SEMESTER) CREDITS: 16

ENG 111 <i>or</i> ENG 121	ENGLISH COMPOSITION I (3/3) <i>or</i> ADVANCED ENGLISH COMPOSITION I (3/3)
CEM 121 MTH 131	GENERAL & INORGANIC CHEMISTRY (4/7) ANALYTIC GEOMETRY & CALCULUS (5/5)
BIO 114 <i>or</i> BIO 210	INTRODUCTION TO BIOLOGICAL SCIENCE (4/5) <i>or</i> INTRODUCTION TO BOTANY (4/5)

#### YEAR 1 (SPRING SEMESTER) CREDITS: 14

ENG 112 <i>or</i> ENG 122	ENGLISH COMPOSITION II (3/3) <i>or</i> ADVANCED ENGLISH COMPOSITION II (3/3)
CEM 122 HST 221 MTH 223	INORGANIC CHEM & QUALITATIVE ANALYSIS (4/7) U.S. HISTORY (3/3) STATISTICAL METHODS (4/4)

#### YEAR 2 (FALL SEMESTER) CREDITS: 15

CEM 221 ECN 231 BIO 227 HST 222	ORGANIC CHEMISTRY (4/6) ECONOMICS (MICRO) (3/3) MICROBIOLOGY (4/6) U.S. HISTORY (3/3)
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#### YEAR 2 (SPRING SEMESTER) CREDITS: 16

CEM 222	ORGANIC CHEMISTRY (4/6)
PSY 101 <i>or</i> SOC 123	GENERAL PSYCHOLOGY (3/3) <i>or</i> INTRODUCTION TO SOCIOLOGY (3/3)
SPE 121 <i>or</i> SPE 123	SPEECH COMMUNICATION (3/3) <i>or</i> PUBLIC COMMUNICATION (3/3) HUMANITIES/FINE ARTS (200 LEVEL) ELECTIVE (3/4) ELECTIVE (3/3)