

CHEMISTRY

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 descriptions of Alpena Community College graduation requirements and 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: 29-33

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	ANALYTIC GEOMETRY & CALCULUS I (5/5)
PLS 221 <i>or</i> PLS 222 <i>or</i> HST 221 & HST 222	AMERICAN GOVERNMENT REQUIREMENT (3-6/3-6)
SPE 121	SPEECH COMMUNICATION (3/3) HUMANITIES/FINE ARTS REQUIREMENT (3-4/4-5)
CEM 121 PHY 221	GENERAL & INORGANIC CHEMISTRY (4/7) PHYSICS (5/7)

CORE PROGRAM REQUIREMENTS CREDITS: 32

CEM 122	INORGANIC CHEMISTRY & QUALITATIVE ANALYSIS (4/7)
CEM 221	ORGANIC CHEMISTRY (5/7)
CEM 222	ORGANIC CHEMISTRY (5/7)
MTH 132	ANALYTICAL GEOMETRY & CALCULUS II (5/5)
MTH 231	ANALYTICAL GEOMETRY & CALCULUS III (5/5)
MTH 232	DIFFERENTIAL EQUATIONS (4/4)
PHY 222	PHYSICS (5/7)

MINIMUM 61 CREDIT HOURS/76 CONTACT HOURS

NOTE: A total of 10 semester credits are required in combination with Group III/Social Sciences and Group IV/Humanities/Fine Arts with a minimum of three credits from each group. Political Science or U.S. History courses used to satisfy the American Government Requirement can be included.

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SUGGESTED SEQUENCE OF COURSES

YEAR 1 (FALL SEMESTER) CREDITS: 15-16

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 I (5/5) HUMANITIES/FINE ARTS REQUIREMENT (3-4/4-5)

YEAR 1 (SPRING SEMESTER) CREDITS: 12

ENG 112 <i>or</i> ENG 122	ENGLISH COMPOSITION II (3/3) <i>or</i> ADVANCED ENGLISH COMPOSITION II (3/3)
CEM 122 MTH 132	INORGANIC CHEMISTRY & QUALITATIVE ANALYSIS (4/7) ANALYTICAL GEOMETRY & CALCULUS II (5/5)

YEAR 2 (FALL SEMESTER) CREDITS: 17

CEM 221 MTH 231 PHY 221	ORGANIC CHEMISTRY (5/7) ANALYTICAL GEOMETRY & CALCULUS III (5/5) PHYSICS (5/7)
PLS 221 <i>or</i> PLS 222 <i>or</i> HST 221 & HST 222	AMERICAN GOVERNMENT REQUIREMENT (3-6/3-6)

YEAR 2 (SPRING SEMESTER) CREDITS: 17

CEM 222 MTH 232 PHY 222 SPE 121	ORGANIC CHEMISTRY (5/7) DIFFERENTIAL EQUATIONS (4/4) PHYSICS (5/7) SPEECH COMMUNICATION (3/3)
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