

Murray State College
Tishomingo and Ardmore

Chemistry

DEGREE REQUIREMENTS

	Credit Hours
GENERAL EDUCATION	38
EFFECTIVE COMMUNICATION (9 Hours)	
ENG1113 English Composition I	3
ENG1213 English Composition II	3
SPC1113 Fundamentals of Speech	3
HISTORY AND POLITICAL AWARENESS (6 Hours)	
HST1483 US History to 1877 (or)	3
HST1493 US History since 1877	3
GVT1113 American Federal Government	3
MATH AND QUANTITATIVE REASONING (3 Hours)	
MTH2143 Brief Calculus (or)	3
MTH1513 College Algebra	3
SCIENTIFIC REASONING (8 Hours)	
PHS1114 General Physical Science (or)	4
Any General Education Science Course (See listing of acceptable courses in the college catalog)	4
BIO1404 Principles of Biology	4
CULTURAL DIVERSITY/ARTISTIC EXPRESSION (6 Hours)	
Any general education humanities course	3
Any general education art course	3
(See listing of acceptable courses in the college catalog)	
COMPUTER PROFICIENCY (3 Hours)	
CIS 1113 Computer Applications	3
(or Displayed Proficiency)	
LIBERAL ARTS AND GLOBAL EDUCATION (3 Hours)	
PSY1113 Introduction to Psychology (or)	3
SOC1113 Introduction to Sociology	3
ACADEMIC SUCCESS (1 Hour, if applicable)	
ORI 1011 New Student Orientation	1
SCIENCE REQUIREMENTS	12
CHM1114 General Chemistry I	4
CHM1214 General Chemistry II	4
PHY1114 General Physics I	4
Substitutions may be made with prior Department Chair approval.	
SCIENCE ELECTIVES	10
BOT1114 General Botany	4
CHM1314 General, Organic & Biochemistry	4
CHM2345 Intro. To Organic Chemistry	5
GEOL1014 General Geology	4
PHY1214 General Physics II	4
ZOO1114 General Zoology	4
Special Problems course	1-3
(BIO2810, CON2810, CHM2810, MIC2810, etc.)	
CON2911 Conservation Volunteerism	1
TOTAL CREDIT HOURS	60
HEALTH, WELLNESS, & HUMAN PERFORMANCE	
Personal Health, First Aid, or Activity course	2
MSC TOTAL CREDIT HOURS REQUIRED	62

SUGGESTED COURSE SEQUENCE

	Credit Hours
FIRST SEMESTER	
ENG 1113 English Composition I	3
GVT 1113 American Government	3
MTH1513 College Algebra	3
ART Elective	3
PHS1114 General Physical Science	4
ORI 1011 New Student Orientation	1
SECOND SEMESTER	
ENG 1213 English Composition II	3
HST 1483 American History to 1877 (or) ..	3
HST 1493 Amer. History since 1877	3
HUM Elective	3
BIO1404 Principles of Biology	4
CHM1114 General Chemistry I	4
THIRD SEMESTER	
PSY1113 Introduction to Psychology	3
Any approved HWP course	2
CIS 1113 Computer Applications	3
CHM1214 General Chemistry II	4
PHY1114 General Physics I	4
FOURTH SEMESTER	
SPC1113 Fundamentals of Speech	3
PHY1214 General Physics II	4
CHM2345 Intro. To Organic Chemistry	5
CON2911 Conservation Volunteerism	1
Degree Elective	4

The above list is a suggested course sequence only. Students may, with guidance from their Graduation Advisor, make changes to the course sequence. Students should be aware that changes to the course sequence may require more than four semesters to complete their Associate's Degree.

PROGRAM OVERVIEW

Chemistry allows us to understand how atoms and molecules are formed, how they behave, and how they help shape the world around us. The concepts and principals learned in chemistry are fundamental to other sciences such as biology. In addition to the careers listed below, chemistry plays a large role in every aspect of our life. Many of our daily activities involve a great deal of chemistry knowledge.

CAREER OPPORTUNITIES IN CHEMISTRY

- Agrochemistry
- Atmospheric chemistry
- Biochemistry
- Biotechnology
- Chemical engineering
- Consumer products
- Environmental chemistry
- Food chemistry
- Hazardous waste management
- Medicine
- Paper industry
- Perfume chemistry
- Petroleum and natural gas industry
- Pharmaceuticals
- Plastics industry
- Science writer
- Teaching
- Textile industry

GENERAL COLLEGE PREPARATORY REQUIREMENTS

MSC evaluates students for placement into either transitional or college-level courses, whichever will lead to the greatest possibility of student success. Academic placement is determined either by ACT test scores or by COMPASS test scores. These tests are administered in the Testing Centers at MSC Tishomingo or UCSO Ardmore. Based upon the scores, some or all of the following seven (7) courses may need to be taken:

MTH 0103 Introductory Math
MTH 0303 Beginning Algebra

MTH 0403 Intermediate Algebra
SCI 0103 Basic Science

ENG 0303 Basic English I
ENG 0403 Basic English II

ENG 0103 Reading I
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