

2021-2022 TTC Catalog - Chemistry (CHM)

CHM 001 - CHM 001

Lec: 0 **Lab:** 0 **Credit:** *

Indicates credit given for chemistry course work transferred from another college for which there is no equivalent course at TTC. *Hours vary depending on external course.

Division: Science and Mathematics

CHM 100 - Introductory Chemistry

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course introduces general chemistry and principles of chemistry. Emphasis is placed on mathematical solutions and laboratory techniques. This course is recommended for students who did not take high school chemistry.

Prerequisite

MAT 101

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 105 - General Organic and Biochemistry

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a study of the fundamental principles of chemistry, including atomic and molecular structure, common substances and reactions, and introduction to organic

chemistry and biochemistry. This is a terminal course designed for students who do not intend to take additional chemistry courses.

Prerequisite

MAT 101

and

CHM 100

or

high school chemistry within the last two years is strongly recommended.

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 110 - College Chemistry I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall

Spring

Summer

This course is the first in a sequence that includes the following topics: atomic and molecular structure, nomenclature and equations, properties, reactions and states of matter, stoichiometry, gas laws, solutions, and equilibria.

Prerequisite

MAT 109

or

MAT 110

or

MAT 112

The prerequisite for this course should have been completed within the last five years. CHM 100 or high school chemistry is strongly recommended.

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 111 - College Chemistry II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course continues the study of atomic and molecular structure, nomenclature and equations, properties, reactions and states of matter, stoichiometry, gas laws, solutions, and equilibria. Other topics include kinetics, thermodynamics and electrochemistry.

Prerequisite

CHM 110

with a grade of C or higher. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 211 - Organic Chemistry I

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is the first in a sequence of courses that includes nomenclature, structure and properties, and reaction mechanisms of organic chemistry.

Prerequisite

CHM 111

with a grade of C or higher. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics

CHM 212 - Organic Chemistry II

Lec: 3.0 **Lab:** 3.0 **Credit:** 4.0

Course Offered

Fall
Spring
Summer

This course is a continuation of the study of nomenclature, structure, properties and reaction mechanisms of organic chemistry. Other topics include biochemistry and spectroscopy.

Prerequisite

CHM 211

with a grade of C or higher. The prerequisite for this course should have been completed within the last five years.

Grade Type: Letter Grade

Division: Science and Mathematics
