

# 2018-2019 TTC Catalog - Chemistry (CHM)

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## 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

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## CHM 100 - Introductory Chemistry

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

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

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## CHM 105 - General Organic and Biochemistry

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

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. It is usually transferable only to specific programs in the Health Sciences field.

### Prerequisite

MAT 101

or

high school chemistry within the last two years and  
CHM 100

**Grade Type:** Letter Grade

**Division:** Science and Mathematics

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## **CHM 110 - College Chemistry I**

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

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

### **Prerequisite**

MAT 109

MAT 110

MAT 112

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

**Grade Type:** Letter Grade

**Division:** Science and Mathematics

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## **CHM 111 - College Chemistry II**

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

This course continues the study of atomic and molecular structure, nomenclature and equations, properties, reaction 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

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## **CHM 211 - Organic Chemistry I**

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

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

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## **CHM 212 - Organic Chemistry II**

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

This course is a continuation of organic chemistry. Topics include nomenclature, structure, properties and reaction mechanisms of organic chemistry, 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

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