

Course: CHM 107

Course Title: Chemistry for the Citizen

Credit Hours: 3

Department: Chemistry & Biochemistry

Prerequisite: None

CORE-42 Category: NATURAL SCIENCES - Chemistry: Essentials in Chemistry

MOTR CHEM 100 **MOTR Hours:** 3

MOTR CHEM 100L when combined with CHM 108. The difference in credit hours and MOTR hours counts into the MOTR elective hours to reach 42 MOTR hours

Information submitted by a department representative on 5/31/2021 12:26:09 PM – Compiled by Darren Wienberg, Academic Advising & Transfer Center

Typically Offered During:

Fall Full Semester:	YES	Fall 1 st Block:	NO	Fall 2 nd Block:	NO
Spring Full Semester:	YES	Spring 1 st Block:	NO	Spring 2 nd Block:	YES
Summer:	YES				

Typical Instructional Modality:

Traditional (seated):	YES	Blended:	NO	Internet:	YES
Online Video:	NO	Web Conference:	NO		

May Also Count Toward Department Offering:

Major:	NO	Minor:	NO	Certificate:	NO
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Please see online published semester class schedule and undergraduate catalog for detailed course offering information.

How do you describe the course to students when they ask “What is this class about?” (Without using the catalog description)?

This is a one-semester general education course for non-science majors. It provides information needed for basic scientific literacy with specific attention to a better understanding of environmental concerns, the chemical industry, consumer products and our alternate sources and storage of energy.

Beyond meeting a General Education requirement, what benefits can students realize from choosing this course?

As a science course, CHM 107 helps develop knowledge including an appreciation of science and how it impacts life on this planet (including ourselves!).

In addition to developing the requisite chemistry content, CHM 107 can help students understand some of the most important aspects of the nature of science: 1.) that scientific knowledge claims are supported by reproducible empirical data; and 2.) that scientific knowledge claims are reliable but tentative. Additionally, by addressing topics such as the environmental impacts of fossil fuels and alternative sources and storage of energy, CHM 107 also can help students better understand the social and economic impacts of the sciences, especially chemistry.

Other than your major/minor/certificate students, what groups of students could find this course relevant to their degree program or career path?

Any non-science majors and science majors in disciplines that do not routinely discuss various issues related to sources of energy (benefits and drawbacks of combustion, for example), and environmental issues such as climate change to name a few.

CHM107 helps building a basis for making informed decisions throughout their entire professional career and everyday life.

Catalog Description (Fall 2022 Undergraduate Catalog)

Concurrent enrollment in CHM 108 is highly recommended. A course for the non-science major. Principal concepts and applications of chemistry are presented. The course looks at both the beneficial side of chemical usage and the problems associated with chemical production and usage. The course provides information needed for a better understanding of environmental concerns, the chemical industry, consumer products and our alternate sources and storage of energy.