

# Chemistry 213

Spring 2021

**Instructor:** Dr. M.A. Engen    **Office:** PA 346    **Phone:** 457-5872

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**Office Hours:** hours posted or by appointment on Zoom

**Home Page:** <http://course1.winona.edu/mengen/>

## Course Description: Principles of Chemistry II

An in-depth study of the basic principles of chemistry including kinetics, equilibrium, acid/base equilibrium, thermodynamics, and electrochemistry. Laboratory work includes basic chemical analysis and techniques related to the topics covered. Offered yearly.

<u>Lecture:</u>	213	MWF	11:00-11:50	Zoom	Engen
<u>Labs:</u>	213-4	Th	3:00-5:50	Zoom/SL 374	Engen
	213-5	Th	10:00-12:50	Zoom/SL 374	Nalli

Texts:                                *"CHEMISTRY – The Molecular Nature of Matter and Change"*,  
9<sup>th</sup> Ed., Silberberg and Amateis, McGraw Hill. Online

## Course Details and Requirements:

In order to do well or pass the course, the student is expected to attend and participate in the lecture-discussion periods, complete and turn in the assigned laboratory studies, read the assigned chapters, work assigned text and online problems, and pass quizzes and exams. **No make-up exams, quizzes, homework or in-class assignments will be given without prior approval or "official excused absence"**. Click on the webpage link and read the **"WSU Academic Integrity Policy"**. Academic integrity is expected and will be enforced.

### Grade Assignment Scale

88 %	A
76 %	B
64 %	C
52 %	D

### Marking Distribution

Lab	20 %	
HWK	15 %	(On Connect)
Quiz	10 %	(On Connect)
Exams (4)(12.5% each)	45 %	(May be on Connect or In-Person)
Final Exam	10 %	(Full Year Cumulative – 212 and 213) (On Connect)

## Laboratory:

- Laboratory experiments can be completed completely online or a mix of online and in-person. The best *eight* lab scores will count toward the laboratory grade.
- Four of the online labs will be on Connect and four can be found on the Laboratory webpage.
- The in-class experiments can be found on the Laboratory webpage.
- All lab reports will be worth 25 points each. The webpage experiments will be submitted on D2L (scan and submit as a PDF if possible). The Connect experiments are completed and submitted on Connect.
- More details will be provided during lecture as we navigate the Spring semester.
- The laboratory instructor will provide additional detailed instruction as to what will be expected.

*Safety Goggles are Mandatory in the Laboratory for in-person experiments!*

## Online Homework

Completion of homework assignments will be critical to success in this class. Homework will be administered through the **McGraw Hill Connect** web site. It is important to learn the intricacies of the HWK program and stay up to date with assignments. HWK assignments count for 15% of the overall points. The full 15% points will be awarded for completion of 50% or more of the *total accumulated points* available. For a completion rate of less than 50%, the score in the HWK category will be based on the actual completion percentage. (Example: 44% HWK completion would give 6.6/15 in that category) Completion of 75% or greater will earn 2% points of extra credit, therefore a score of 17/15 is possible.

## Quizzes

There will be a quiz most non exam weeks. Quizzes will be online and administered through the **Connect** web site. They are multiple choice and will be worth 10 points each and account for 10% of the grade.

## Exams

Four semester exams and a final exam will be given. The final exam is cumulative and is mandatory. An approximate date for each exam is listed in the schedule. Examples of exams are linked through the website. **Exams account for 55% of your overall grade.** The best way to prepare for the exams is to stay current on the homework assignments. There is a strong correlation between the amount of homework completed and exam scores, so **DO MORE HOMEWORK**