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CHMY 397.01: Teaching Chemistry

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Teaching Chemistry Spring 2022 University of Montana CHMY 397

Instructor: Prof. Mark Cracolice, Chemistry 101B, mark.cracolice@umontana.edu

Office Hours: Please come in any time the door is open or email me to arrange an appointment.

Prerequisite: Completion of CHMY 141 and CHMY 143 or the equivalent with a grade of B or better in each course and consent of the instructor based on the Team Education Workshop Leader application and interview.

Course Purpose: Introduction to the facilitation of chemistry learning using the Team Education strategy.

Meetings: F 11:00 AM – 11:50 AM in TBA and MWF 2:00 PM – 2:50 PM in NS 307

Format: General Meeting Agenda

1. Administrative Items (Team Education Coordinator)
2. Administrative Items (Prof. Cracolice)
3. Leader Items
4. Content for the week
 - A. Lecture
 - B. Workshop
5. Leadership Items (Prof. Cracolice)
6. Other Business

Schedule:

| Week | Date | Lecture | Workshop | Discussion Topic |
|--------|------------|-----------------|------------|----------------------------------|
| 00 | Mon 17 Jan | 41 | NIE Review | Training, First Week Preparation |
| 01 | Fri 21 Jan | 42, 43, 44 | 41, 42, 43 | Eisenhower (Covey) Matrix |
| 02 | Fri 28 Jan | 45, 46, 47 | 44, 45, 46 | |
| 03 | Fri 4 Feb | 48, 49 | 47, 48 | |
| 04 | Fri 11 Feb | 50, 51, 52 | 49, 50, 51 | Exam 1 |
| 05 | Fri 18 Feb | 53, 54 | 52, 53 | |
| 06 | Fri 25 Feb | 55, 56A, 56B | 54, 55 | |
| 07 | Fri 4 Mar | 57, 58 | 56, 57 | |
| 08 | Fri 11 Mar | 58A, 59B, 60 | 58, 59 | Exam 2 |
| 09 | Fri 18 Mar | 61, 62, 63 | 60, 61, 62 | |
| 10 | Fri 25 Mar | Spring Break | | |
| 11 | Fri 1 Apr | 64, 65 | 63, 64 | |
| 12 | Fri 8 Apr | 66, 67, 68 | 65, 66, 67 | Exam 3 |
| 13 | Fri 15 Apr | 69, 70, 71 | 68, 69, 70 | |
| 14 | Fri 22 Apr | 72, 73 | 71, 72, 73 | |
| 15 | Fri 29 Apr | 74, 75, 76 | Final Prep | Exam 4 |
| 16 | Fri 6 May | No meeting | | |
| Finals | | | | |
| | Mon 16 May | Final Essay Due | 8 AM | |

Grading: Grading is based on fulfillment of the obligations of your Workshop Leader Contract. We begin by assuming that you have a perfect A at 100 points. Failure to fulfill your obligations results in point deductions as follows:

- 1) Attends the regularly-scheduled course meetings, MWF 2:00-2:50 PM and provides guidance to students as directed.
–20 for missing a session without finding another leader to take your place and notifying the Workshop coordinator in advance.
- 2) Conducts weekly two-hour Workshop sessions as scheduled.
–20 for missing a session without finding another leader to take your place and notifying the Workshop coordinator in advance.
- 3) Prepares for Workshop sessions by previewing the Workshop material and reviewing pertinent chemistry principles and concepts.
–1 to –5 for evidence of lack of preparation during workshop visits and/or in-lecture observations.

- 4) Assesses student attendance and preparation for weekly Workshop meetings. Records scores these assessments.
-10 for each incidence of missing scores.
- 5) Enrolls in Chemistry 397, Teaching Chemistry, and completes all assigned work for the course.
-1 to -15 for a substandard final essay; -20 for no final essay.
- 6) Informally evaluates the personal growth and the progress of students via leader logs.
-5 for a late weekly log; -10 for no weekly log.
- 7) Administers and proctors homework check quizzes in class.
-5 for arriving late; -10 if quiz must be administered by someone else.
- 8) Participates in research and surveys on Team Education.
Considered on a case-by-case basis.

Additional deductions may be made for cases beyond the scope of these criteria at the discretion of the instructor.

Repeated violations of these standards, evidence of inappropriate behavior, and/or any illegal acts related to your status as a Workshop Leader and representative of the University of Montana will result in immediate termination of employment and the assignment of a grade of F for the course.

| | | |
|----------|----------|----------|
| | A 100–93 | A– 92–90 |
| B+ 89–87 | B 86–83 | B– 82–80 |
| C+ 79–77 | C 76–73 | C– 72–70 |
| D+ 69–67 | D 66–63 | D– 62–60 |
| | F 59–0 | |

- Deadlines:** *Workshop Scores:* Submit weekly per the instructions of the Workshop coordinator.
Leader Logs: Submit weekly by email as soon as possible after the Workshop session but no later two days following your session each week.
Final Essay: **Monday 16 May, 8 AM**
- Drops:** Please make your final decision about whether or not you want to be a Workshop Leader *before* the course begins. If you should find that it is necessary to drop the course during the semester, please see me to discuss the situation.
- Goals:** An additional goal of this course is to foster the development of what the Association of American Medical Colleges (www.aamc.org) terms *Intrapersonal Competencies*:
Ethical Responsibility to Self and Others Behaves in an honest and ethical manner, cultivates personal and academic integrity; adheres to ethical principles and follows rules and procedures; resists peer pressure to engage in unethical behavior and encourages others to behave in honest and ethical ways; and develops and demonstrates ethical and moral reasoning.
Reliability and Dependability Consistently fulfills obligations in a timely and satisfactory manner; takes responsibility for personal actions and performance.
Resilience and Adaptability Demonstrates tolerance of stressful or changing environments or situations and adapts effectively to them; is persistent, even under difficult situations; recovers from setbacks.
Capacity for Improvement Sets goals for continuous improvement and for learning new concepts and skills; engages in reflective practice for improvement; solicits and responds appropriately to feedback.
- Other:** Any student in this course who has a disability that may prevent him or her from fully demonstrating his or her abilities should contact me personally as soon as possible so we can discuss accommodations necessary to ensure full participation and facilitate your educational opportunities. This course syllabus is not a contract; it is a tentative outline of course policies. Changes may be made before, during, or after the semester at my discretion.

All students must practice academic honesty. Academic misconduct is subject to an academic penalty by the course instructor and/or a disciplinary sanction by the university. All students need to be familiar with the Student Conduct Code. The Code is available for review online at https://www.umt.edu/student-affairs/community-standards/um_student_code_of_conduct_2021-2020.pdf.