

Welcome to Math 475 Mathematical Modeling – Fall 2016
11:00 - 11:50 M-Th in Bouillon 103

Instructor: Dr. Jean Marie Linhart
Phone: (509) 963-2123 (I prefer email)
Webpages: (course) <http://canvas.cwu.edu>
(me) <http://www.cwu.edu/math/jean-marie-linhart>

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Office Hours: M 10-10:50, T 3:30 - 4:30
F 10-10:50 and 2-3:15
and by appointment.

This syllabus is subject to modification. Students will be notified of changes in class and on Canvas.

Text: No textbook. Come to class.

Course Goals: This course is an introduction to mathematical modeling using examples from physical, chemical, biological, economic, and social systems. The use of software, critical thinking, and technical communication will be emphasized. In short, mathematical modeling is the course where we connect your mathematical studies to the *real world*.

Learner outcomes:

- I. Students will select mathematical models to best describe the process of mathematical modeling.
- II. Students will judge what to include and what to leave out of a mathematical model, and defend their choices based on results and constraints.
- III. Students will appraise the requirements of a problem to make modeling decisions.
- IV. Students will evaluate which mathematical model performs best in a modeling situation.
- V. Students will predict modeling results.
- VI. Students will assess mathematical models by obtaining numerical results.

Grades: Your final grade is based on

Attendance	5%	I take attendance daily.
Assignments	15%	Homework assignments.
Projects	70%	This will include an essay describing the process of mathematical modeling, 3 projects consisting of a written report and code, and a presentation on the final project.
Final Portfolio	10%	This will highlight your learning in the class

You will be given opportunities to rewrite and revise assignments. Take advantage of this.

Getting Help: We've all needed help with something. Working with students on math is one of the best parts of my job. If you find yourself feeling uncertain, wanting a deeper understanding, wanting to get better marks, or struggling to learn and succeed, please ask questions in class, post questions on Canvas, and/or come see me in office hours. Please give me a chance to help.

Plagiarism: This is a writing course. Plagiarism is a major issue that occasionally comes up. You cannot use others work and present it as your own. This includes copying directly or paraphrasing from any source without a citation and quote marks as appropriate. Don't look at or listen to original source material as you are trying to write things in your own words unless you are planning to cite it. If you ever feel uncertain about how to use a source or what to do, **please ask**. Plagiarism will at minimum result in reduced credit on the assignment – possibly no credit, and possibly a failing grade in the class. I don't want this to happen to you; ask me questions so I can help you to do things right.

Students with Disabilities:

I am happy to work with students with disabilities. To set up academic adjustments in this class, you should give me or email me a copy of your *Confirmation of Eligibility for Academic Adjustments* from the Disability Support Services Office. **You must also come see me in office hours or make an appointment to come see me as soon as possible so we can discuss how the approved adjustments will be implemented in this class.** Students without this form should contact the Disability Support Services Office, Bouillon 140 or dssrecept@cwu.edu or (509) 963-2171. **Testing**

requests with testing services must be submitted at least 48 hours before an exam is given, or you may have to take the exam with the rest of the class.

Important Dates

Sept 21 – classes begin

Sept 27 – change of schedule period ends

Nov 4 – uncontested withdrawal period deadline

Nov 11 – Veteran’s Day (no class)

Nov 23-25 – Thanksgiving Holiday (no classes)

Nov 28 – Final presentations 4 pm BOU 109

Dec 8 – Final Portfolios due at noon