

Welcome to Math 109-01,03 – *Mathematics for the Social and Management Sciences*.

My name is Prof. Rohm; I will be your instructor for this course.

I have posted a copy of my current schedule and contact information on D2L. You can also find more information about me at

- <http://www.uwsp.edu/mathsci/Pages/faculty/dRohm.aspx>
- <http://www4.uwsp.edu/math/drohms>

Here is the most recent catalog description for the course:

MATH 109. Mathematics for the Social and Management Sciences. 4 cr. Systems of linear equations, matrices, linear programming, exponential growth and decay, mathematics of finance, differential calculus with emphasis on applications. Prereq. Math 100 or Math 107, or a suitable placement score. **GDR: MATH BS/BFA; GEP: QL**

Notice that Math 109 satisfies the UWSP QL-GEP.

GEP Category Learning Outcomes

Foundation Level:	
GEP Category:	Upon completing this requirement, students will be able to
Quantitative Literacy	<ul style="list-style-type: none">• Select, analyze, and interpret appropriate numerical data used in everyday life in numerical and graphical format.• Identify and apply appropriate strategies of quantitative problem solving in theoretical and practical applications.• Construct a conclusion using quantitative justification.

A complete copy of the syllabus for this course has been posted on D2L. This includes a schedule for examinations and grading criteria for the course.

As a new or continuing UWSP student, you should be fully aware of your rights and responsibilities as a UWSP student, both on and off campus. You can find these linked through the Dean of Students webpage.

- <https://www.uwsp.edu/dos/Pages/stu-academic.aspx>
- <https://www.uwsp.edu/dos/Pages/stu-conduct.aspx>
- <https://www.uwsp.edu/dos/Pages/stu-personal.aspx>
- <https://www.uwsp.edu/dos/Pages/offcampus.aspx>

UWSP is committed to providing reasonable and appropriate accommodations to students with disabilities and temporary impairments. If you have a disability or acquire a condition during the semester where you need assistance, please contact the Disability and Assistive Technology Center on the 6th floor of Albertson Hall (the library) as soon as possible.

<https://www.uwsp.edu/disability/Pages/default.aspx>

The DATC can also be contacted at 715-346-3365 or DATC@uwsp.edu.

Thank you for reading this. I look forward to collaborating with you this semester as a member of the Pointer Community.

Math 109**Mathematics for the Social and Management Sciences****Spring 2019****Math 109-01**
2:00 MTWR
Sci A225**Math 109-03**
4:00 MTWR
CCC 111Instructor: Dale M. Rohm
Phone: (715)346-3798
e-mail: drohm@uwsp.eduOffice Hours: Sci D356
MTR 12:00-2:00
or by appointment.

Text: Harshbarger, *Mathematical Applications for the Management, Life, and Social Sciences*, Cengage, 12th ed., ISBN: 978-1-337-62534-0

Course Description:**MATH 109. Mathematics for the Social and Management Sciences. 4 cr.**

Systems of linear equations, matrices, linear programming, exponential growth and decay, mathematics of finance, differential calculus with emphasis on applications. **Prereq: 100 or Math 107 or a suitable placement score.**

GDR: MATH BS/BFA; GEP: QL

Math 109 satisfies the UWSP Quantitative Literacy requirement of the General Education Program. Quantitative Literacy is knowledge of and confidence with basic mathematical/analytical concepts and operations required for problem-solving, decision-making, economic productivity and real-world applications. Such skills are essential for citizens living in today's global society. Upon completing this requirement, you will be able to:

- Select, analyze, and interpret appropriate numerical data used in everyday life in numerical and graphical format.
- Identify and apply appropriate strategies of quantitative problem solving in theoretical and practical applications.
- Construct a conclusion using quantitative justification.

Math 109 is a one-semester terminal course designed to give a brief applied overview of elementary mathematics commonly used in financial applications including economics and investment strategies. These applications are of special interest for students majoring in business management and administration.

Technology Policy: You are required to have daily access to a calculator for this course. A graphing calculator is preferred, but a scientific calculator is sufficient. Knowing how to efficiently use your calculator is more important than what calculator you have. I reserve the privilege of designating some or all questions of an examination or quiz as "non-calculator". When permitted, only one calculator may be used during any quiz or test. Sharing of calculators is prohibited.

Use of a computing device capable of remote transmission, including smart-phones, is expressly prohibited during any in-class assessment of this course. Turn your phones off or place them in airplane mode before any in-class examination or quiz. **Texting or browsing during lecture is rude and distracting, don't do it.** There are times however, when taking an image of the board or screen might be valuable, you are welcome to do so. Please refrain from audible alerts during class by using vibrate modes.

Course Schedule: The dates for examinations are given below. All quizzes will be announced at least one class day before being given.

The course begins with material from Chapters 1, 2 and 3. This portion of the course covers linear, quadratic, and matrix equations along with some applications to business and economics. In particular, we will study revenue functions for linearly elastic commodities.

Examination I: Thursday, February 14, 2019.

The second portion of the course covers applications of matrix arithmetic. This begins with economic models defined by Leontief Input-Output matrices as found in the last sections of Chapter 3 and linear programming as discussed in Chapter 4.

Examination II: Thursday, March 14, 2019.

The third portion of the course begins with a review of exponential and logarithm functions from Chapter 5, and then discusses related financial formulas for annuities and loan amortization as found in Chapter 6

Examination III: Thursday, April 18, 2019.

The last material of the course, selected from individual sections of Chapters 9, 10, and 11, discusses marginal analysis, or derivatives, of elastic commodities.

Final Examination: Section 01 - 12:30-2:30 on Tuesday, May 14, 2019

Section 02 - 5:00-7:00 on Tuesday, May 14, 2019.

Attendance Policy: Attendance is expected at every class meeting. There is no easier way to earn an unsatisfactory grade in a university-level mathematics course than to skip class or fail to complete assigned exercises. If you must miss class, it is your responsibility to promptly contact me in writing, obtain assignments, and make up assigned work.

The dates given below for examinations are enforced according to university policies. Alternate or make-up examinations for religious or university-related accommodation require prior approval. The only exceptions are for legitimate medical or personal emergencies. Your last quiz grade will be awarded based upon attendance taken throughout the semester.

Evaluation and Grading: Your course grade will be determined by your performance on three examinations and approximately seven quizzes given during the semester along with a comprehensive Final Exam. Those scores will be scaled as shown below and totaled to give a numerical score. Final letter grades will be awarded according to the following curve.

<u>Grade Item</u>	<u>Weight</u>	<u>Percentages</u>	<u>Minimum Grade</u>
Examination I	20%	90-100	A-
Examination II	20%	75-89	B-
Examination III	20%	60-74	C-
Quizzes	10%	50-59	D
Final Exam	30%		

At the end of the course, I reserve the right to raise a student's grade if it is my determination that their numerical scores are not reflective of actual comprehension. I will never give a grade lower than that determined by this stated criteria.

The last day to add/drop a 16-week class is Thursday, January 31.

The last day to drop a 16-week class with a "W" grade is Friday, April 5.