instructor: Monika Keindl  
email: monika.keindl@nau.edu  

Office: AMB 120  
website: http://jan.ucc.nau.edu/~mk84  

Office hours: Tu: 9:00-10:00  
Th: 11:30-12:30pm

Prerequisites: A grade of C or better in MAT 114 or satisfactory placement.

Course description: The course covers linear functions and modeling, systems of linear equations, introductory linear programming, mathematics of finance, combinatorics, probability and statistics.


Student Learning outcomes: Upon successful completion of this course you will be able to:

• Express understanding of linear functions, systems of linear equations and inequalities. Use these skills in applications including simple linear programming.

• Express financial problems in mathematical ways. Interpret solutions in real world terms.

• Understand basic set theory, counting methods, permutations, combinations and topics in probability.

• Understand the 68-95-99.7 rule for the Normal distribution and the use of z-tables, especially in the setting of business applications.

Basis for evaluation: Grading policy:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
<th>Grade</th>
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<tbody>
<tr>
<td>3 Tests</td>
<td>50%</td>
<td>90-100%</td>
</tr>
<tr>
<td>Final</td>
<td>25%</td>
<td>80-89.99%</td>
</tr>
<tr>
<td>Homework/Quizzes/Projects</td>
<td>22%</td>
<td>70-79.99%</td>
</tr>
<tr>
<td>Attendance</td>
<td>3%</td>
<td>60-69.99%</td>
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<td></td>
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<td>0-59.99%</td>
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Final grades are not negotiable for personal reasons such as, pending scholarships, job offers etc. Cutoff levels are firm, no curving will be done at the end of the semester.

Course policies:

• Tests and quizzes: There will be 3 tests during the semester. Tests are tentatively schedule for, September 15th, October 20th and November 19th. Any changes to this schedule will be announced in class. You are responsible for material covered in class whether or not it is in the text. Taking good notes will help you in preparing for exams and also during quizzes. Quizzes are open notes, but closed books. Tests are closed books and closed notes. Quizzes, in-class activities, and exams cannot be made up without an institutional excuse AND prior notification and approval. Those excuses that are approved must be made up within one week of the excused absence. Institutional excuse forms are issued by NAU and provided for participation in a university-sponsored activity only.

• Homework: Part of the homework will be done online via WebWork. The link for this class is http://webwork.math.nau.edu/webwork2/MKeindl_119  
There will be a couple of hand in homework assignments as well. Late homework assignments will NOT be accepted.

• Attendance: Attendance is part of your grade. I will take attendance every day. You have 2 excused absences for the semester, anything beyond that will lower your attendance score for the semester. Use it wisely. Please adhere to university guidelines concerning the H1N1 virus and note that you are responsible for any missed work.

• Calculators, technology: You will need (at least) a scientific calculator for this course. It is your responsibility to have a calculator for quizzes and exams. You will also need to use a computer for your finance project. Computer lab hours will be announced on the course website.

• Final Exam: The final exam will be comprehensive and is scheduled for Tuesday, December 8th from 12:30-2:30pm.

• Important dates: Last day to drop: September 18th, last day to withdraw: October 23th.