**Instructor Information:**
Keith Schloeman  
Office: Kidder 290  
Email: schloemk@math.oregonstate.edu  
Office Hours:  
Monday  
Tuesday  
Friday  
Or By Appointment

**TA Information** (for 11 am lecture):  
Brian Mc Kenzie  
Kidder 282  
mckenbri@math.oregonstate.edu

**Course Information:**

<table>
<thead>
<tr>
<th>Instructor Information:</th>
<th>TA Information (for 11 am lecture):</th>
</tr>
</thead>
<tbody>
<tr>
<td>Keith Schloeman</td>
<td>Brian Mc Kenzie</td>
</tr>
<tr>
<td>Office: Kidder 290</td>
<td>Kidder 282</td>
</tr>
<tr>
<td>Email: <a href="mailto:schloemk@math.oregonstate.edu">schloemk@math.oregonstate.edu</a></td>
<td><a href="mailto:mckenbri@math.oregonstate.edu">mckenbri@math.oregonstate.edu</a></td>
</tr>
</tbody>
</table>

**Course Information:**

CRN: 50460  
CRN: 58252  
MWF 11:00 – 11:50 am (+ Thur. Recitations)  
MWRF 8:00 – 8:50 pm

**Text/Materials:**

Calculator: Generally graphing calculators are useful in this course, but are not required. A scientific calculator is required for this course. It will be expected that you have access to a scientific calculator for homework, labs and exams. **Graphing calculators are NOT allowed on exams.**

Study Guide/Labs: The MTH 245 study guide and labs come packaged with the text from the bookstore. If you purchased a used copy of the text from the bookstore you may not have a complete set of labs. If this is the case you will need to purchase a study guide from the bookstore.

**Course Objectives:** There are three ideas that converge in a class like this. For each topic we explore we focus first on developing a conceptual understanding of the topic. Next we explore techniques/skills for solving problems. Finally we focus on applications – giving our problems a context. The topics we will be covering are:

- Systems of (linear) equations
- Matrix manipulation, in relation to solving systems of equations and linear programming
- Sets and Counting Principles
- Permutations and Combinations
- An Introduction to Probability
- Condition Probability, Independent Events, Bayes' Rule
- Measures of Central Tendency, Dispersion and Position
- Expected Value, Variance/Standard Deviation
- Distributions
**Grading:** Your final grade in this course will be computed as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Points</th>
<th>Grade Interval</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework (10)</td>
<td>60</td>
<td>A: 558 – 600 points</td>
</tr>
<tr>
<td>Labs (10)</td>
<td>60</td>
<td>A-: 540 - 557</td>
</tr>
<tr>
<td>Quizzes (3)</td>
<td>90</td>
<td>B+: 522 - 539</td>
</tr>
<tr>
<td>Midterm</td>
<td>180</td>
<td>B: 498 - 521</td>
</tr>
<tr>
<td>Final Exam</td>
<td>210</td>
<td>B-: 480 - 520</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td>600</td>
<td>C+: 462 - 479</td>
</tr>
</tbody>
</table>

**Comments on Grading:**

- Course grades will be rounded up to the nearest whole number of points.
- A grade is earned by the student by accumulating a specific number of points; at the end of the term the instructor does nothing more than report this grade to both the student and the registrar. Requests for a different grade (usually of the form “Can anything be done to increase my grade to...”) cannot be granted.
- A grade of an incomplete (I) will not be given.
- **Any grading disputes need to be resolved before the time of the final exam. After you have submitted the final exam it is impossible to adjust grades for homework, labs, quizzes, etc.**
- Save all graded, returned work, any dispute over a posted score can quickly be resolved by resubmitting the graded work.
- Because the final exam is cumulative, a strong final exam scored indicates mastery of the material from the entire course. Thus, if a student's final exam score is higher (percentage-wise) than their midterm score then the final exam will be averaged with the midterm exam and the midterm score will be replaced with this average score.
- **LATE WORK IS NOT ACCEPTED.**

**Homework:** There will be weekly homework assignments that will be due in recitation each week. These assignments consist of two parts, check problems and practice problems. The assignments will be posted online each week and every week the assignment page should be printed. The check problems will need to be solved (with all supporting work included) on the assignment page. The practice problems are problems from the text. The practice problems should be completed on notebook paper and attached to the check problems. The check problems will be graded on correctness and the practice problems will be graded on completeness. You are expected to know how to solve all of the check problems and the practice problems. Each assignment is worth 6 points, 3 points for the check problems and 3 points for the practice problems. Working in groups is acceptable and encourage, but each student must turn in their own homework. **Homework is due every week in recitation.** Homework will be graded and returned to you at the following recitation.

**Labs:** Every student in the 11:00 am section of MTH 245 must be enrolled in a recitation section. Students in the 8 am lecture do not need to register for a separate recitation time. The majority of your recitation time each week will be spent working in groups on a lab/activity. These activities will be related to the topics covered in the preceding lectures. Labs not finished in recitation should be completed on your own time and turned in at the following recitation. Labs are worth 6 points each, three points for completeness and 3 points for correctness. Working in groups is encouraged on the labs, but every student needs to turn in their own lab.
Midterms/Final: There will be two exams in this course, one midterm exam and one final exam. The times of these exams are noted on the course calendar. For each exam you may use a 3 x 5 note card and a 2-line scientific calculator. The final exam is cumulative. The midterm exam is each worth 180 points, the final exam is worth 210 points. The format of these tests will be a combination of multiple choice and “write out” problems.

Quizzes: There will be three quizzes given in this course; each is worth 30 points. These quizzes will be 20 minute quizzes given in recitation. For each quiz you may use a 3x5 note card and a 2-line scientific calculator.

Academic Dishonesty: You will be expected to conduct yourself in a professional manner. Academic dishonesty such as plagiarism and cheating will not be tolerated. Therefore, students are expected to be honest and ethical in their academic work. Academic dishonesty is defined as an intentional act of deception in one of the following areas:
* cheating- use or attempted use of unauthorized materials, information or study aids,
* fabrication- falsification or invention of any information,
* assisting- helping another commit an act of academic dishonesty,
* tampering- altering or interfering with evaluation instruments and documents, or
* plagiarism- representing the words or ideas of another person as one's own.

For more information about academic integrity and the University’s policies and procedures in this area, please refer to the Student Conduct web site at: http://www.orst.edu/admin/stucon/achon.htm and the section on Academic Regulations in the OSU Schedule of Classes.

Disabilities/Emergencies: Students with documented disabilities who may need accommodations, who have any emergency medical information the instructor should know of, or who need special arrangements in the event of evacuation, should make an appointment with the instructor as early as possible, no later than the first week of the term.

Tips for excelling in MTH 245:

- Come to class. It is often difficult, and much more time consuming to learn the material on your own.
- Get help if you feel confused. College math classes move quickly and questions that are left unanswered come often escalate into large gaps in understanding. Help is available in the following ways:
  - See me during office hours or make an appointment to see my at another time.
  - Visit your TA during office hours.
  - Visit the MLC (Kidder 108) and work with a math tutor. This resource is especially useful for specific questions on homework problems, etc.
- Stay current with your homework and labs. Math is a subject that can only be mastered through personal practice. Also, the homework and labs are the “easy points” in this class. Homework and labs combined are worth more than a single midterm.

I hope that you will find this class both interesting and useful. I will do my absolute best to teach that class in a clear and engaging way. It is your job to work hard. I will do anything that I can to help you in this class. Please do not hesitate to come to me (or your TA) if we can be of any help to you in this class.

Keith Schlemmer