MTH 245: Mathematics for Management, Life, and Social Sciences (INTO).
Winter 2016

Enforced Prerequisites: MTH 111 with C- or ALEKS math placement test: 60% or math placement test: 24, or instructor permission.

Credits: 4
Instructor: F. Patricia Medina
Office: KIDD 053
Lecture time: T-Th 8:00 am- 9:50 am at CASC 141

Office Hours: MWF: 9:00– 9:50 am and by appointment.

E-mail: medinaf@math.oregonstate.edu

Course Content:
1. Techniques of counting.
2. Probability.
3. Elements of statistics including binomial and normal distributions.
4. Introductory matrix algebra.
5. Elements of linear programming.

Textbook: Finite Mathematics, 11th ed., Goldstein, Schneider, Siegel
And an Access code to MyMathLab

Calculator: Only 1 or 2 line scientific calculators may be used on exams and quizzes. I will specify clearly if there is any restriction on the use of calculators before each evaluation.

- You must have both a text and an access code to register for MyMathLab. The text can be either physical or e-text; you will not need to bring the text to class.
- You can directly access your MML through your Canvas account with your MML access code. Note that you don’t need course ID in Canvas.

Canvas and web page: Course information will be posted on Canvas and/or my web-page

http://math.oregonstate.edu/~medinaf/mth245_W2016

Please, keep checking.

Course outcomes: MTH 245 Measurable Student Learning Outcomes: A successful student in MTH 245 will be able to:

- Apply techniques of counting, probability, and elements of statistics related to probability distributions.
- Apply introductory matrix algebra to solve systems of linear equations.
- Apply graphical linear programming techniques.
- Apply all of these techniques to solve problems and interpret the solutions in context.

MTH 245 satisfies the Baccalaureate Core Skills category for Mathematics and successful completion of the Mathematics category is one of OSUs First Year Skills requirements.

Baccalaureate Core Learning Outcomes:
1. Identify situations that can be modeled mathematically.
2. Calculate and/or estimate the relevant variables and relations in a mathematical setting.
3. Critique the applicability of a mathematical approach or the validity of a mathematical conclusion.

<table>
<thead>
<tr>
<th>Grading</th>
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<tbody>
<tr>
<td>Midterm</td>
<td>100 points</td>
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<tr>
<td>Final</td>
<td>150 points</td>
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<tr>
<td>Quizzes</td>
<td>80 points</td>
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<tr>
<td>Participation (including group labs/activities)</td>
<td>20 points</td>
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<tr>
<td>MML Homework</td>
<td>60 points</td>
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<td>Total:</td>
<td>410 points</td>
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Test Dates: Rooms will be announced in lecture, recitation, and on the web

Midterm: 7:00-8:20 pm. Tuesday, February 9. Location: TBA.

Final: 7:30 AM. Wednesday, March 16. Location: TBA.

- The course grades will not be "harder" than: A-/A 369-410, B-/B/B+ 328-368, C-/C/C+ 287-327, D-/D/D+ 246-286, and F 245 and under.
- The test points will be assigned as follows: midterm is worth 100 points and the final is worth 150 points.
- Quiz points will be assigned as follows: each of 4 quizzes is worth 20 points, and will consist of 4 questions each.
- The recitation points will be assigned as follows: Homework is done on-line through MyMathLab with a possible total of 60 points; each homework section opens on the day I first cover it and then remains open for 7 days. Sec 0 helps you get started with on-line graded homework, it is open now and closes on 11/01. Homework submitted after the due date will be discounted by 50%.
- The 5 labs are worth 4 points each and are done during recitation each week for a possible total of 20 points. You must be present and participate constantly in order to gain participation points for group activities/labs. I will also take into consideration your participation during lectures when possible.
- Quizzes, Midterms and Final tests are closed book. You are allowed 1 side of a 3x5 inch notecard for the midterms, and both sides of a 3x5 inch notecard for the final. NO graphing calculators allowed on exams or quizzes, scientific calculators are allowed.
- Extensions will only be given if they are requested on or before due dates. Midterms and final tests cannot be rescheduled or taken early. There will be no Incompletes given for this course.
- Any requests for extensions/special accommodations must be made in advance, in writing (email), to Francis Patricia Medina.
- Save all returned work as any disagreement in scores posted on course web site can only be resolved by producing the graded work.
- Any disagreement in scoring must be addressed within one week of the work being returned to you.

What will happen in class?
• MWF: 50 minute lectures.
• Tuesday: Recitation.

**General Expectations:**
• Expect to maintain an environment for learning. I request that cell-phones and other electronic devices are silenced. Please also keep any other distractions to a minimum.
• Most importantly, each person should expect to maintain and appreciate an environment of respect and dignity. We will work together to gain understanding and ensure the success of every person. **Please be considerate of other students by taking conversations out of the hall.**
• Read the textbook, and not just the exercise sections. The textbook provides examples that may be useful.
• Seek for help. Take advantage of my office hours and Math Learning Center tutors. The Math Learning Center (MLC) in Kidder 108 is a great place to drop in for help. Its open from 9am to 4pm M-F from the second week of classes through the end of dead week. I will be at the MLC on Fridays from 2:00pm to 3:00pm. If you need help getting the results you want out of your calculator please be sure to BRING THE MANUAL.
• Read your e-mail regularly (ONID account). Sometimes I send useful notices and I do not want you to miss them.

**DAS Services:**
Students who are determined by DAS (Disability Access Services) as being eligible for accommodations should make an appointment with me by the end of the first week of class. Furthermore, students who are eligible for alternative testing must arrange an exam with me and DAS at least a full week in advance of the exam. If you believe you should qualify for DAS services, call (541)737-4098.

Remember, 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.

**Academic honesty and student conduct:**
Students are expected to be familiar with Oregon State University’s Statement of Expectations for Student Conduct, to be found online at

http://oregonstate.edu/admin/stucon/achon.htm