

Instructor: Gregg Waterman, 176 Boivin Hall, 885-1324, gregg.waterman@oit.edu

Web Page: <http://math.oit.edu/~watermang/> There is a link there to a page for our class. (Doing a search for waterman oit will find you the web page as well.) There is a link to a page for our class, where you can find the syllabus, a daily schedule, and some other things. You can also find links for videos on some of the topics we will cover, organized in the order they appear in the textbook.

Office Hours: 10-10:50 MTWF, 12-12:50 R. You are also welcome to drop in any time to see if I am around - if I am I can usually take some time to help you. **I can also make appointments for other times.**

Textbook: I am in the process of writing a textbook for this class, and I will provide you with bits of it as the course progresses.

Course Goals and Objectives: Upon successful completion of this course a student should have a working understanding of

1. Finite-dimensional vector spaces
2. Orthogonality and inner product spaces
3. Linear transformations
4. Matrix factorizations

Grading: Your grade will be based on your scores on exams, quizzes, assignments and in-class activities.

- *Exams:* There will be five exams given during the term, along with a final exam at the end of the term. **You MUST take exams at the scheduled times and there will be no make-up for missed exams.** See the schedule at the end of this syllabus for dates. Make-up exams can be given for previously arranged absences if you have a good reason to miss an exam.
- *Quizzes:* Quizzes may be given occasionally. **They may or may not be announced in advance, and there will be no make-up for missed quizzes, regardless of the reason.**
- *Assignments:* Many days there will be an assignment given, due at the start of the next class. See the assignment expectations on the next page for additional information on assignments. **Late assignments will not be accepted.**
- *In-Class Activities:* Much of your time in class will be spent working both alone and as a member of a group, to explore concepts and practice methods. I will regularly collect work that you do in class, either alone or as a group, and grade it. **Such work cannot be made up.**

Grades will be computed from the above as follows:

- Exam 1 will be worth 50 points, each of exams 2 through 5 will be worth 100 points and the final exam will be worth 150 points.
- The total number of points possible for each student is 600 plus the total number of points earned on all quizzes, assignments and in-class activities.
- Each quiz, assignment or in-class activity point will be worth the same amount as each exam percentage point.

Your score will be your total number of points earned divided by your total number of points possible. Thus, every student will receive 100% on all quizzes, assignments and in-class activities, but the number of points earned that way will vary from student to student. You will receive a letter grade using the grading scale 90-100% \Rightarrow A, 80-89% \Rightarrow B, 70-79% \Rightarrow C, 60-69% \Rightarrow D, and below that is an F.

Other Things of Importance:

- *Incomplete Grades:* An incomplete grade can only be assigned to you under the following circumstances:
 1. You are passing the course, or you are very close to passing AND have shown good effort (regular attendance, assignments turned in).
 2. You have a **SERIOUS** problem that begins after the withdraw date and prevents you from being able to complete the term.

An incomplete grade will definitely not be assigned in the event that you are not performing well in the course and fear that you may not obtain a passing grade!

- *Disabilities:* If you have a physical, learning, sensory or psychological disability and require accommodations, please let me know as soon as possible. You will need to register with and, in most cases, provide documentation of your disability to Disability Services. Please contact Erin Ferrara, Coordinator of Disability Services at (541) 851-5227 or erin.ferrara@oit.edu. Disability Services is located in the Learning Resource Center, room 229.

Calendar: Below are some important dates for the term.

April 6th - Exam One

April 19th - Exam Two

May 3rd - Exam Three

May 13th - Last day to withdraw with a "W"

May 17th - Exam Four

May 30th - Memorial Day Holiday - no class

June 1st - Exam 5

Thursday, June 9th, 10:00 AM - 12:00 PM - Final Exam

Assignment Expectations:

Assignments will generally be frequent and consist of just a few exercises. In order to do the exercises you will sometimes need to read some examples in the book and/or watch some videos explaining the concept(s) and showing how to work several examples. Here are the expectations:

- The assignment will be posted on the schedule at the class web page.
- Assignments are **due at the start of class the day after they are given**. If you are not able to attend class, you may drop your assignment in the folder outside my office **prior to class**.
- The assignment score will be based primarily on completeness and neatness/organization.
- You should put your name and the assignment number on each assignment, but nothing else is required. You may do your assignments on any type of paper, including back sides of previously used pages.
- You are expected to communicate your work in the same manner as demonstrated in class and the textbook, and on the videos. **You must do these things in order to receive full credit.**