

Math 220: Linear Algebra

Item 6400: Spring 2019



Instructor Information:

Name: Aaron Warnock

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Office: 18-201

Course Websites

MyLabsPlus: <https://mylabsplus.highline.edu/>

Warnock Website: <https://people.highline.edu/awarnock/>

Office Hours: *(available in person, online, by e-mail or appointment)*

On Campus: Monday: 12:15 pm – 1:30 pm

Tuesday/Thursday: 9:30 am – 11:00 am

Wednesday: 9:00 am – 11:00 am

Online Virtual Office: *e-mail me to schedule*

Prerequisite: MATH& 152 with 2.0 or above

Course Objectives: Students will be able to

- Solving systems of linear equations using Gauss-Jordan method
- Identify a basis for a vector space and orthogonalize a basis
- Find a least squares polynomial fit to data points
- Find the eigenvalues and eigenvectors of a matrix
- Identify, create, and apply linear transformations
- Construct and understand a mathematical proof

Text: *Linear Algebra, 5th ed;* by David C. Lay, Steven R. Lay, and Judi J. McDonald
(We will be using MyLabsPlus (MLP) online for homework and quizzes.)

Calculator: A graphing calculator is required for this course. A TI-83/84 is recommended. The use of symbolic calculators such as the TI-89 will not be allowed during exams. Furthermore, the use of all calculators may be prohibited during some exams (forewarning will be given). Calculators may be rented from the math department on a first come first serve basis.

Attendance/Class Participation: Attendance is extremely important to being successful in this course. If you miss a class, it is *your responsibility* to study the material that was covered, and get any information you may need such as announcements from other students. Please be on time to class, to respect your classmates and instructor. *Please do not pack up your things early*, class isn't concluded until 5 minutes past the hour or the instructor says otherwise.

Homework & Quizzes: Homework and Quizzes will be assigned on **MyLabsPlus** online. It is important that you use the online resources to learn the material, and not just "get problems right". Keep an organized notebook of your work, clearly labeling the section and problem number, etc. so you can review your work.

Exams: Around three exams will be given during the quarter as well as a comprehensive final exam. No make-up exams will be given except for extreme circumstances, and you must notify the instructor on or before the day of the exam.

Group Work and Quizzes: Depending on how the class is going, we may have some group work that will consist of worksheets completed in class with some of your classmates. Each group must work together with all members participating and contributing. Each person has strengths in different areas. Explaining math ideas to others helps improve your understanding of it as well. In-class quizzes may be given at random to check your understanding of the material we are currently covering. Quizzes are given at the beginning of class and make-ups or late quizzes will be given partial credit. Quizzes may or may not be announced ahead of time.

Grades:

Grades: Your final grade is based on the following

Homework on MLP	10%
Quizzes on MLP	10%
Group Work	10%
Exams	45%
Comprehensive Final Exam	25%

Grading Scale:

96 to 100% = 4.0	85% = 3.1	75 to 76% = 2.2	64% = 1.3
94 to 95% = 3.9	84% = 3.0	73 to 74% = 2.1	63% = 1.2
92 to 93% = 3.8	83% = 2.9	71 – 72% = 2.0	62% = 1.1
91% = 3.7	82% = 2.8	70% = 1.9	60 – 61% = 1.0
90% = 3.6	81% = 2.7	69% = 1.8	58 – 59% = 0.9
89% = 3.5	80% = 2.6	68% = 1.7	56 – 57% = 0.8
88% = 3.4	79% = 2.5	67% = 1.6	55% = 0.7
87% = 3.3	78% = 2.4	66% = 1.5	0 – 54% = 0.0
86% = 3.2	77% = 2.3	65% = 1.4	

Important Dates:

May 27th – Memorial Day – **campus closed**

April 19th – Last day to drop without a “W”

May 24th – Last day to withdraw with W”

Math Resource Center (MRC): Students are encouraged to use the MRC (located in Building 25, 6th floor of the library) as a place to study and get additional help outside of class and the instructor’s office hours. This is a great place to work together with students from the rest of the class, or get tutoring from other students. You can even use MLP on the computers in the center.

Computer Problems Helpline: The instructor cannot troubleshoot computer problems. Please call the helpline at 206-592-4357 or e-mail them at helpdesk@highline.edu. If your concern is about MLP or MML, e-mail helpdesk@highline.mylabsplus.com or call (888) 883-1299.

Special Concerns: If you have any special concerns about this class, please talk to me personally in my office. The more I know about you individually, the more I can help you be successful in this course. If you need course adaptations or accommodations because of a dis-Ability; if you have emergency medical information to share with me; or if you need special arrangements in case the building must be evacuated, please provide me with the Letter of Accommodation you have received from the Office of Access Services. Access Services is located in Building 99 room 180.

Academic Dishonesty: Cheating, plagiarism, and other forms of academic dishonesty are unacceptable at Highline Community College and may result in lower grades and/or disciplinary action. It is both your right and responsibility to be familiar with the document entitled: Student Rights and Responsibilities code WAC 1321-120 adopted by the Board of Trustees of Community College District 9 on December 17th, 2007. This is available in the counseling center or online at <http://www.highline.edu/stuserv/vpstudents/srr.html>.

College Policies: For information on college policies on diversity, classroom behavior, incompletes, absences for religious reasons, student grievances, withdrawals, and emergency procedures please go/click here <https://academicaffairs.highline.edu/handbook/syllabus.resources.2016/college.policies.pdf>

Student Resources: The College offers many resources to support student achievement and success. These include Access Services (which provides disability resources and academic accommodations), faculty advising, the Academic Success Centers (math, writing, and general tutoring), the college library, and technical support. For more detailed information on these services, please go/click here: <https://academicaffairs.highline.edu/handbook/syllabus.resources.2016/syllabus.resources.pdf>