

**Spring 2020 Syllabus Addendum
Transitioning to Online Instruction**

Math 337-H02

Course Title: Linear Algebra Honors

Instructor: Professor J. Bechtold

Date: March 18, 2020

Math 337H: Transition to online instruction; Spring 2020

- Math 337H will continue to meet online during regularly scheduled class times.
- We will use the videoconferencing tool, Webex, to hold real time online lectures.
- Access to Webex will be possible through Canvas.
- Prior to each online lecture, students will be asked to complete pre-discussion work on their own.

This work will include:

- Viewing high quality lectures and recitations from MIT Opencourseware
- Reading the textbook
- Homework assignments
- Additional problem sets
- The MIT course is Course # 18.06SC, “Linear Algebra (Fall 2011)” at the following link:
<https://ocw.mit.edu/courses/mathematics/>

Week 9

1. View the following videos on the MIT Opencourseware, from **Unit 1: Column Space and Null Space**; and *Independence, Bases and Dimension*
2. Read Sections 4.2 and 4.3 of the text

Week 10

1. View the following videos on the MIT Opencourseware, from **Unit 1 The Four Fundamental Subspaces**; and **Unit 2: Eigenvalues and Eigenvectors**
2. Read Section 4.6 and 5.1 of the text

Week 11

1. View the following videos on the MIT Opencourseware, from **Unit 2: Diagonalization and Powers of A**
2. Read Section 5.2, 5.3 and 5.5 of the text

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Week 12

1. View the following videos on the MIT Opencourseware, from **Unit 2: Orthogonal vectors and subspaces**
2. Read Section 6.1, 6.2 and 6.3 of the text

Week 13

1. View the following videos on the MIT Opencourseware, from **Unit 2: Projections onto Subspaces; and Projection Matrices and Least Squares**
2. Read Section 6.3 of the text

Week 14

1. View the following videos on the MIT Opencourseware, from **Unit 2: Orthogonal Matrices and Gram-Schmidt**
2. Read Sections 6.4, 6.7 and 7.1 of the text