

Spring 2020 Syllabus Addendum Transitioning to Online Instruction

Math 111 - Coordinated

Course Title: Calculus I

Coordinator: Professor J. Bechtold

Date: March 18, 2020

Math 111: Transition to online instruction; Spring 2020

- Math 111 will continue to meet online during regularly scheduled class times.
- Most Instructors will use the videoconferencing tool, Webex, to hold real time online lectures.
- Access to Webex will be possible through Canvas. Your instructor will inform you if your section will use a different lecture format.
- Prior to each online lecture, students will be asked to complete pre-discussion work on their own. This work will be assigned by your instructor and may include:
 - Viewing high quality lectures and recitations from MIT Opencourseware
 - Reading the textbook
 - Viewing worked examples on mymathlab (Multimedia Library)
 - Weekly mymathlab homework assignments
 - Additional problem sets
- The MIT course is Course # 18.01SC, “Single Variable Calculus (Fall 2010)” at the following link: <https://ocw.mit.edu/courses/mathematics/>

Week 9

1. View the following videos on the MIT Opencourseware, from **Unit 2: Applications of Differentiation** Part C: Session 34 and Session 35: Mean Value Theorem
2. Read Sections 4.1, 4.2 and 4.3 of the text
3. View worked examples on mymathlab for section 4.1, 4.2 and 4.3
4. Complete assigned mymathlab by Sunday night

Week 10

1. View the following videos on the MIT Opencourseware, from **Unit 2: Applications of Differentiation** Part A: Session 27 and Session 28: Curve sketching and **Unit 5: Exploring the Infinite** Part A, Sessions 87, 88 and 90: L’Hospital’s Rule
2. Read Section 4.4 and 4.5 of the text
3. View worked examples on mymathlab for section 4.4 and 4.5
4. Complete assigned mymathlab by Sunday night

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Week 11

1. View the following videos on the MIT Opencourseware, from **Unit 2: Applications of Differentiation** Part B: Sessions 29, 30 on optimization and 33 on Newton's method; and Part C: Session 37: Anti-derivatives. View the recitation videos as well for these sessions
2. Read Section 4.6, 4.7 and 4.8 of the text
3. View worked examples on mymathlab for section 4.6, 4.7 and 4.8
4. Complete assigned mymathlab by Sunday night

Week 12

1. View the following videos on the MIT Opencourseware, from **Unit 3: The Definite Integral and its Applications** Part A: Sessions 43, 44 and 45: Definite Integrals and finite sums. View the recitation videos as well for these sessions
2. Read Section 5.1 and 5.2 of the text
3. View worked examples on mymathlab for section 5.1 and 5.2
4. Complete assigned mymathlab by Sunday night

Week 13

1. View the following videos on the MIT Opencourseware, from **Unit 3: The Definite Integral and its Applications** Part A: Session 46, 47 and 48: Fundamental Theorem of Calculus
2. Read Sections 5.3 and 5.4 of the text
3. View worked examples on mymathlab for sections 5.3 and 5.4
4. Complete assigned mymathlab by Sunday night

Week 14

1. View the following videos on the MIT Opencourseware, from **Unit 2: Applications of Differentiation** Part C: Session 38: Integration by Substitution; and **Unit 3: The Definite Integral and its Applications** Part B: Area; Sessions 53 and 56:
2. Read Sections 5.5 and 5.6 of the text
3. View worked examples on mymathlab for section 5.5 and 5.6
4. Complete assigned mymathlab by Sunday night