

<u>Date</u>	<u>Section</u>	<u>Topic</u>
<b>Jan</b> 18	5.4	Review Calc 1; Indefinite Integrals
23	5.5	Substitution
25	6.1	Area between two curves
<b>30</b>	6.2	Volume: Disk and Cross Section Methods
<b>Feb</b> 1	6.3	Volume: Shell Method
6	6.4*	Work
8	6.5	Average Values
13	7.1	Integration by Parts
<b>15</b>	***7.1	*** <b>Test # 1 (Ch. 5.4-6.5) ***</b> , Parts
20	7.2	Trig Integrals
22	7.3	Trig Substitution
27	7.4	Partial Fractions
<b>Mar</b> 1	7.5*	Strategy
6	7.7	Approximate Integration
8	7.8	Improper Integrals
20	8.1	Arc Length
<b>22</b>	8.2	Surface of Revolution
27	11.1 <b>W</b>	Sequences
29	***11.1	*** <b>Test # 2 (Ch. 2.5-3.6) ***</b> , Sequences
<b>Apr</b> 3	11.2	Series
5	11.3	Integral Test, Estimates of Sums
10	11.4	Comparison Tests
12	11.5	Alternating Series
17	11.6	Absolute Convergence, Ratio & Root Tests
19	11.8	Power Series
24	11.9	Functions as Power Series
<b>26</b>	11.10	Taylor and Maclaurin Series
<b>May</b> 1	11.11	Applications of Taylor Polynomials
3		Last Day of Classes
<b>8</b>		<b>FINAL EXAM (2 hours)</b>

**FINAL GRADE = 2/3 Class Ave. + 1/3 Final Exam**

**Class Ave:** Mean of Tests and Quizzes, Quiz Ave= 1 test.

**Tests:** Full period (50 minutes), **NO MAKEUPS**. If a test is not taken, the grade for that test is 0.

One test grade may be replaced with a 4 to 5 page paper (See below).

Material covered on test includes material since last exam.

**Quizzes:** Unannounced, **any WEDNESDAY, NO MAKEUPS** If there are 7 or more quizzes, 2 quizzes will be dropped before the average is computed; if less than 7 quizzes, 1 quiz dropped. Covers material from previous week. If a quiz is not taken, the grade for that quiz is 0.

**FINAL:** Comprehensive **Date: May 8** (Note: If WCC is closed on 5/8, then Final Exam on May 10)

**PAPER:** 4-5 pages, typed, double spaced. Subject should be one of the topics covered on the test to be replaced. For a grade of C, the paper must be documented and include 1) a complete description/ explanation of the topic with an example and 2) three references. For a higher grade, the paper should include such additional information as scientific or social applications, historical development of technique, relationship of topic to other topics in the course, etc.

Required only if a test is missed. An outline must be submitted prior to writing the paper.

**ATTENDANCE:** Absence from class will not affect final grade, except as it effects quiz/tests grades.

**ASSIGNMENTS:** All odd problems unless otherwise noted.

**W ### LAST DAY TO WITHDRAW with a W (3/22) ###**

**Spring Recess Mar 13,15**

**MATH 191 - CALCULUS 2 STUDENT LEARNING OUTCOMES**

STUDENT LEARNING OUTCOMES – Upon successful completion, the student will be able to :
<p>SLO 1: Use the definite integral in several different applications</p> <ol style="list-style-type: none"> <li>1. Use the definite integral to find the area between two curves.</li> <li>2. Use the definite integral to find the volume of a solid of revolution.</li> <li>3. Use the definite integral to find the length of an arc.</li> <li>4. Use the definite integral for two other applications of the instructor’s choice.</li> </ol>
<p>SLO 2: Understand and apply different techniques of integration.</p> <ol style="list-style-type: none"> <li>1. U-substitutions</li> <li>2. Integration by Parts</li> <li>3. Trigonometric Integrals</li> <li>4. Trigonometric substitution</li> <li>5. Partial Fractions</li> </ol>
<p>SLO 3: Understand and apply techniques for improper integrals.</p> <ol style="list-style-type: none"> <li>1. Distinguish between different indeterminate forms.</li> <li>2. Determine if an improper integral is convergent or divergent.</li> <li>3. Calculate an improper integral if convergent.</li> </ol>
<p>SLO 4: Understand and apply properties of sequences and infinite series.</p> <ol style="list-style-type: none"> <li>1. Determine whether a sequence converges or diverges.</li> <li>2. Use appropriate tests to determine whether a series converges or diverges.</li> <li>3. Find polynomial approximations of elementary functions, including Taylor and Maclaurin polynomials.</li> <li>4. Find the radius and interval of convergence for power series.</li> <li>5. Differentiate and integrate power series.</li> <li>6. Construct power, Taylor, and Maclaurin series.</li> </ol>

Outcomes will be measured by one or more of the following: \* Homework \*Class Participation  
 \*Quizzes (in class or take home) \*Tests \*Projects \*Paper \*Final Exam

SUNY GE 1: Interpret and draw inferences from mathematical models such as formulas, graphs, tables and schematics. SLO 1, 2, 3, 4
SUNY GE 2: Represent mathematical information symbolically, visually, numerically and verbally. SLO 1,2, 3, 4
SUNY GE 3: Employ quantitative methods such as, arithmetic, algebra, geometry, or statistics to solve problems. SLO 1, 2, 3, 4
SUNY GE 4: Estimate and check mathematical results for reasonableness. SLO 1, 2, 3, 4
SUNY GE 5: Recognize the limits of mathematical and statistical methods. SLO 1, 2, 3, 4

**Student Contributions**

Students are expected to attend every class meeting, arriving on time.  
 Cell phones and/or other communication devices should be turned off for the duration of each class meeting.  
 Assignments are to be completed on time.  
 Students are expected to take all tests and quizzes as scheduled. There are no exemptions for any exams.  
 Students should expect to spend a minimum of 2 hours per week outside of class for every hour spent in class.  
 Students should comply with the WCC Student Code of Conduct, including: 1) respect for all, 2) no cheating

I understand that the final date to withdraw from this class is Monday, March 27, 2017. If I need to withdraw after that date, I will need to bring a note to Professor Battaly from the WCC Health Office, explaining the medical need to withdraw.

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Date

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Name