Syllabus For Math 142 Honors, Section H01
Fall 2017

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Meeting Place and Time: LeConte 310 TTh 11:40AM-12:55PM
Recitation LeConte 121 M 12:00PM-12:50PM
Maple Lab LeConte 303A F 12:00PM-12:50PM

Prerequisites: Qualification through placement or a grade of C or better in Math 141.

Text: Thomas, Weir, and Hass *Thomas' Calculus, Early Transcendentals*, 13th Edition, Pearson, 2014.
Sections: §5.5-5.6, §8.1-8.8 (OMIT §8.6), §10.1-10.10, §11.1-11.4 (If time allows)
MyMathLab will NOT be used for this course.

Learning Outcomes: Upon successful completion of this course, students should be able to:

- Recall basic mathematical terms related to integration, sequences, series, parameterized plane curves, and polar coordinates.
- Apply the methods of calculus to solve integrals involving integration by substitution, integration by parts, trigonometric functions, trigonometric substitutions, partial fraction decomposition, and improper integrals.
- Determine the convergence of series using p-series, alternating series test, ratio and root tests, telescoping series, integral test, nth term test, and the geometric series test.
- Recognize and determine the radius of convergence and interval of convergence for a power series.
- Understand the relationship between polar coordinates and rectangular coordinates. Convert from Polar coordinates/equations to Cartesian coordinates/equations and vice versa, differentiate a parametric curve, and find the length of a parametrically defined curve.

Homework, Worksheets, and Quizzes: Homework will be assigned daily and students are encouraged to complete (or at the very least attempt) every assignment. Homework solutions are posted on Blackboard under the Homework Solutions tab. Worksheets will be given weekly, collected and graded. Late worksheets will generally NOT be accepted. Quizzes will be given weekly and will be based on the homework and worksheets. No make-up quizzes will be given.
Note: Worksheets will be posted on Blackboard. It will be the student's responsibility to print and complete the worksheet by the due date. If you do not attend class that day, you may scan and email your worksheet to me **before** solutions have been posted. The lowest quiz or worksheet grade will be dropped regardless of excuse. If you miss more than one with a documented excuse, please come talk to me.

Typical Weekly Schedule: A typical week will look like this:

- **Thursday** Worksheet distributed via Blackboard/Course Webpage.
- **Monday** Recitation
- **Tuesday** Worksheet due at the beginning of class. Solutions posted on Blackboard at 5pm.
- **Thursday** Quiz
- **Friday** Maple Lab

Computer Lab: The accompanying computer lab on Fridays will complement the material provided in the lectures. Students will be instructed in the use of Maple, a computer algebra system.

Calculators: Calculators may NOT be used on tests or quizzes unless otherwise noted.

Tests: There will be three tests and a cumulative final exam. The *tentative* dates for these are as follows:

Test 1:	Thursday, September 21 on §5.5-5.6, §8.1-8.7	
Test 2:	Tuesday, October 17 on §8.8, §10.1-10.3	
Test 3:	Thursday, November 30 on §10.4-10.10, §11.1-11.4	
Final:	Thursday, December 14 12:30PM LC 310	**Note:** The final exam schedule is set by the university.

Make-up exams will generally NOT be given. I may make exceptions for documented illness/family emergency. Those with acceptable excuses must contact me within 24 hours of the scheduled exam time to schedule a make-up. **Note: October 17 is the Tuesday before Fall Break. Conflicting schedules will not be considered with regard to this test.**

Attendance and Participation: Regular attendance and participation is expected. In accordance with University policy, a letter grade may be deducted for each 10% of classes missed.

Withdrawal: Any student wishing to withdraw from class should do so by Monday, October 16. Students dropping after this date will receive a WF for the course.

Grading:

Maple Lab:	75 pts
Quizzes/Worksheets:	100 pts
3 Tests:	100 pts each
Final:	150 pts
Total:	625 pts

Letter grades will be given according to the following scale:

A :	90-100
B^+ :	85-89
B :	80-84
C^+ :	75-79
C :	70-74
D^+ :	65-69
D :	60-64
F :	below 60

Additional Help: For (free!) additional assistance, visit the math lab on campus. Tutors will be there to answer most questions. The lab is located in LC 105 and the schedule should be posted on the door. I also encourage you to come by my office. Do not wait until you are completely lost to seek assistance!

Student Disability Services Students with disabilities should contact the Office of Student Disability Services at http://www.sa.sc.edu/sds/ These services provide assistance with accessibility and other issues to help those with disabilities be more successful. Additionally, students with should review the information on the Disabilities Services website and communicate with the professor during the first week of class.

Academic Honesty: Cheating in class on quizzes and tests is a serious offense. Any student caught cheating will receive an F for the course and *may* be suspended for one semester. For more information concerning academic dishonesty, students can find the University Honor Code at https://www.sc.edu/academicintegrity/

Cell Phones/Laptops/Smart Watches: In accordance with CAS policy, I will ask that all cell phones be turned off (or at the very least be put on vibrate) during class. Also, please refrain from texting during class - it is disrespectful and distracting. **Your cell phone should not be out at any point during a test or quiz.** The use of any laptop during class is prohibited. (If you feel you can justify using your laptop during class, come talk to me.) Smart watches should not be worn on test or quiz days.