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Office Hours: MWF 9:00-9:50am, MWF 1:00-1:50pm and by appointment
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Text: *Calculus, Early Transcendentals, 4*\(^{th}\) Edition, Stewart

Problem Sets & Quizzes: There will be several problem sets and quizzes during the semester. Together these will be worth 200 points (25% of the final grade)

Exams: There will be four in-class exams administered during class time. The dates of these are indicated in the schedule on the back side of this sheet. These exams will be worth 100 points (about 12.5% of the final grade) each.

The final exam will be held during the finals week at the date and time indicated on the back side of this sheet. The final will be worth 200 points (about 25% of the final grade).

Grading: Grading will approximately follow a 90% A, 80% B, 70% C, 60% D scale.

Makeups: Makeups for exams will generally be allowed only under extenuating circumstances, with documentation and advance notice when humanly possible. Late problem sets and quizzes will generally not be accepted, and if accepted due to extenuating circumstances will generally be subject to a penalty of 20% of the possible points for each day past due.

Calculus 2 is a continuation of topics introduced in Calculus 1, but with a greater depth and sophistication. The problems get bigger, and the ideas get bigger as well. Some truly interesting questions become answerable, and more aspects of the world come within reach, but the techniques involved become substantially more difficult.

The use of technology, particularly the software package *Maple*, will be an important component of the course. Ability to compute with pencil and paper will also be important, as will conceptual understanding of the topics treated.

This combination of approaches and topics is likely to prove challenging, partly because few people will find that all of these aspects play to personal strengths. Don’t let that be overwhelming, though, and remember that I’m around to help.
# Tentative Schedule

| Monday, February 10<sup>th</sup>  
6.2 Volumes by Washers | Tuesday, February 11<sup>th</sup>  
6.3 Volumes by Shells | Wednesday, February 12<sup>th</sup>  
6.4 Work | Friday, February 14<sup>th</sup>  
6.4 Work |
|-------------------------|-------------------------|-------------------------|-------------------------|
| Monday, February 17<sup>th</sup>  
6.5 Average Value | Tuesday, February 18<sup>th</sup>  
7.1 Integration by Parts | Wednesday, February 19<sup>th</sup>  
7.2 Trig Integrals | Friday, February 21<sup>st</sup>  
7.3 Trig Substitution |
| Monday, February 24<sup>th</sup>  
7.3 Trig Substitution | Tuesday, February 25<sup>th</sup>  
Review | Wednesday, February 26<sup>th</sup>  
**Exam 1** | Friday, February 28<sup>th</sup>  
7.4 Partial Fractions |
| Monday, March 3<sup>rd</sup>  
7.5 Integration Strategy | Tuesday, March 4<sup>th</sup>  
7.6 Tables and Computers | Wednesday, March 5<sup>th</sup>  
7.7 Approximations | Friday, March 7<sup>th</sup>  
7.8 Improper Integrals |
| Monday, March 10<sup>th</sup>  
7.8 Improper Integrals | Tuesday, March 11<sup>th</sup>  
8.1 Arc Length | Wednesday, March 12<sup>th</sup>  
8.2 Surface Area | Friday, March 14<sup>th</sup>  
8.3 Physics Applications |
| Monday, March 17<sup>th</sup>  
8.4 Econ & Bio Apps | Tuesday, March 18<sup>th</sup>  
8.5 Probability | Wednesday, March 19<sup>th</sup>  
Review | Friday, March 21<sup>st</sup>  
**Exam 2** |
| **March 24<sup>th</sup> - 28<sup>th</sup>**  
Spring Break -- No Class | **March 24<sup>th</sup> - 28<sup>th</sup>**  
Spring Break -- No Class | **March 24<sup>th</sup> - 28<sup>th</sup>**  
Spring Break -- No Class | **March 24<sup>th</sup> - 28<sup>th</sup>**  
Spring Break -- No Class |
| Monday, March 31<sup>st</sup>  
9.1 Differential Equations | Tuesday, April 1<sup>st</sup>  
9.2 Euler’s Method | Wednesday, April 2<sup>nd</sup>  
9.3 Separable Equations | Friday, April 4<sup>th</sup>  
10.1 Parametric Equations |
| Monday, April 7<sup>th</sup>  
10.2 Tangents & Areas | Tuesday, April 8<sup>th</sup>  
10.3 Length & Area | Wednesday, April 9<sup>th</sup>  
**Registration -- No Class** | Friday, April 11<sup>th</sup>  
10.4 Polar Coordinates |
| Monday, April 14<sup>th</sup>  
10.5 Polar Area & Length | Tuesday, April 15<sup>th</sup>  
10.6 Conic Sections | Wednesday, April 16<sup>th</sup>  
Review | Friday, April 18<sup>th</sup>  
**Exam 3** |
| Monday, April 21<sup>st</sup>  
11.1 Sequences | Tuesday, April 22<sup>nd</sup>  
11.2 Series | Wednesday, April 23<sup>rd</sup>  
11.3 The Integral Test | Friday, April 25<sup>th</sup>  
11.4 The Comparison Tests |
| Monday, April 28<sup>th</sup>  
11.5 Alternating Series | Tuesday, April 29<sup>th</sup>  
11.6 Ratio & Root Tests | Wednesday, April 30<sup>th</sup>  
11.7 Strategies | Friday, May 2<sup>nd</sup>  
11.8 Power Series |
| Monday, May 5<sup>th</sup>  
11.9 Series for Functions | Tuesday, May 6<sup>th</sup>  
11.10 Taylor Series | Wednesday, May 7<sup>th</sup>  
Review | Friday, May 9<sup>th</sup>  
**Exam 4** |
| Monday, May 12<sup>th</sup>  
9.4 Exponential Growth | Tuesday, May 13<sup>th</sup>  
9.5 The Logistic Equation | Wednesday, May 14<sup>th</sup>  
Review | Friday, May 16<sup>th</sup>  
Review |
| **Wednesday, May 21<sup>st</sup>**  
Final Exam, 2pm | **Wednesday, May 21<sup>st</sup>**  
Final Exam, 2pm | **Wednesday, May 21<sup>st</sup>**  
Final Exam, 2pm | **Wednesday, May 21<sup>st</sup>**  
Final Exam, 2pm |