

Lectures: M,W,F 9:10am-10am SPARK 223

Tutorials: Tu, Th 9:10am-10:25am SPARK 223

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Office Hours: M, W, F 10am-11am and by appointment

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Office Hours in MLC: MWF 11am-1pm and M 2pm-4pm

Text: *Calculus: Early Transcendentals 2nd Edition, by Briggs, Cochran, and Gillett.*

Course topics: will include (from chapters 6-11) calculating areas between curves, volumes by slicing and cylindrical shells; integration by parts, trigonometric integrals and substitution, partial fractions, improper integrals and differential equations; sequences and series, convergence tests, Taylor series; parametric equations and polar coordinates; vectors in 2D and 3D, the dot and cross products, lines and curves in space

Midterm Exam: Wednesday, October 10 9:10am-10am, room SPARK 223

Final Exam: Dec. 12, 7am-10am, room SPARK 223. Can NOT be taken early.

Grading:

Quizzes (5 @ 10 pts each)	50 pts
MyMathLab homeworks (12 @ 10 pts each)	120 pts
Projects (5 @ 10 pts each)	50 pts
Midterm exam	100 pts
Final exam	140 pts
<hr/> Total Possible:	<hr/> 460 pts

MyMathLab is an on-line homework system that is designed for our text book. MyMathLab will give you instant feedback on your answers and provides additional resources to help you learn the material.

Exams are closed book, no calculator. Bring photo ID to each exam.

Homework: MyMathLab homework will be due most Mondays. Written assignments will be due on the first day of lab on certain weeks throughout the semester. They will be assigned in lecture and collected by your TA the week after it is assigned. You are responsible for doing your own homework, but it is appropriate and often advantageous to work with a study partner or a small study group.

Projects: Periodically during lab you will be doing projects during the second tutorial of the week. There are five graded projects during the semester. These will be written up neatly and turned in on the same day.

Quizzes: Periodically you will be given quizz during the first tutorial of the week. Five best quiz grades will be counted.

The following scale lists the percentage values that will guarantee at least the grade shown. We reserve the right to be more lenient.

Percentage	92	89	85	82	79	75	72	69	65	60
Grade	A	A-	B+	B	B-	C+	C	C-	D+	D

Learning Outcomes

Students who successfully complete Math 182

- will be conversant in the fundamental ideas of integral calculus, sequences and series. An accompanying page lists the

topics that will be covered

- employ quantitative and symbolic reasoning
- sharpen their critical thinking skills
- possess not only computational proficiency, but also a conceptual understanding of the subject, including the ability to use integral calculus to solve simple real-world problems
- improve their communication skills (engage in class discussions and presentations)

Math Learning Center(MLC): Successful students make use of available resources, so don't struggle when help is just a few steps away! We want you to succeed, we're here for you, and we have FREE tutoring available in the Math Learning Center (Cleveland 130). Tutoring begins August 20. <http://www.math.wsu.edu/studyhalls/welcome.php>

Some Advice:

- Attend lectures regularly. This will guide you in your out-of-class study.
- You will understand the lecture much better if you read the section ahead of time.
- Attend tutorial sections regularly, and come prepared to ask questions. Your TA can help you a lot.
- **Do not** plan to leave town before the final exam. University regulations prohibit us from giving you the exam early.

Makeup Exams will be given only in extreme cases for legitimate *documentable* reasons. If, for some legitimate reason, you cannot make it to one of the exams, please contact the instructor before the exam.

Students with Disabilities: Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (Washington Building 217; 509-335-3417) to schedule an appointment with an Access Advisor. All accommodations **MUST** be approved through the Access Center. For more information contact a Disability Specialist on your home campus.

WSU Safety Measures: Classroom and campus safety are of paramount importance at Washington State University, and are the shared responsibility of the entire campus population. WSU urges students to follow the "Alert, Assess, Act," protocol for all types of emergencies and the "Run, Hide, Fight" response for an active shooter incident. Remain ALERT (through direct observation or emergency notification), ASSESS your specific situation, and ACT in the most appropriate way to assure your own safety (and the safety of others if you are able). Please sign up for emergency alerts on your account at MyWSU. For more information on this subject, campus safety, and related topics, please view the FBI's Run, Hide, Fight video and visit the WSU safety portal.

Academic integrity: Academic integrity is the cornerstone of higher education. As such, all members of the university community share responsibility for maintaining and promoting the principles of integrity in all activities, including academic integrity and honest scholarship. Academic integrity will be strongly enforced in this course. Students who violate WSU's Academic Integrity Policy (identified in Washington Administrative Code (WAC) 504-26-010(3) and -404) will receive [insert academic sanction (e.g., fail the course, fail the assignment, etc.)], will not have the option to withdraw from the course pending an appeal, and will be reported to the Office of Student Conduct. Cheating includes, but is not limited to, plagiarism and unauthorized collaboration as defined in the Standards of Conduct for Students, WAC 504-26-010(3). You need to read and understand all of the definitions of cheating: <http://app.leg.wa.gov/WAC/default.aspx?cite=504-26-010>. If you have any questions about what is and is not allowed in this course, you should ask course instructors before proceeding. If you wish to appeal a faculty member's decision relating to academic integrity, please use the form available at conduct.wsu.edu.

Week (date of Sun- day)	Monday	Tuesday	Wednesday	Thursday	Friday
1 Aug 19	Administration / Review	Review of prerequi- sites	Regions between curves 6.2	Quiz on pre- requisites	Volumes by slic- ing 6.3
2 Aug 26	More on slicing	Work on concepts	Volumes by shells 6.4	Project: Work	Arc length 6.5
3 Sep 2	Labor Day	Work on concepts	Exponentials and logs 6.8	Practice with Logs and Ex- ponentials	Hyperbolic func- tions 6.10
4 Sep 9	Integration by parts 7.2	Work on concepts	Trigonometric Integrals 7.3	Project: Nu- merical Inte- gration	Trig. Substitu- tion 7.4
5 Sep 16	Trig substitu- tion 7.4	Work on concepts	Partial fractions 7.5	Practice with integrals	Improper inte- grals 7.8
6 Sep 23	Improper inte- grals 7.8	Work on concepts	Differential Equations 7.9	Practice with integrals	Intro to se- quences and series
7 Sep 30	Monotone se- quences 8.2	Work on concepts	Geometric sums and series 8.3	Project: series & sequences	Divergence and Integral Tests 8.4
8 Oct 7	Review for midterm exam	Review	Midterm Exam	Telescoping & Geom. Series	Properties of Conv. Series 8.4
9 Oct 14	Ratio and root tests 8.5	Work on concepts	Comparison tests 8.5	Practice with series	Alternating se- ries & remain- ders 8.6
10 Oct 21	Abs. and cond. conver- gence. 8.6	Work on concepts	Taylor polyno- mials 9.1	Project: Al- ternating Se- ries	Taylor remain- ders 9.1
11 Oct 28	Power series properties 9.2	Work on concepts	Power series ma- nipulations 9.2	Taylor poly- nomials	Taylor series 9.3
12 Nov 4	Taylor series 9.4	Work on concepts	Parametric Equations 10.1		Veteran's Day
13 Nov 11	Polar coordi- nates 10.2	Work on concepts	Calculus with polar coordi- nates 10.3	Project: Param. and polar plots	Vectors in the plane 11.1
14 Nov 25	Vectors in 3D 11.2	Work on concepts	Dot Products	Chapter 11 problems.	Cross Products
15 Dec 2	Lines and Curves in Space 11.5	Review	Review	Review	Review
Finals Week Dec 9			Final Exam*** 7:00-10:00am		