

Math 2153, *Calculus II*, SPRING 2016, SECTION 010



Instructor: Ashwini Bhat

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Class Meeting: 9:30 AM–10:20 AM, LSE 217

Office Hours:

- W, 12:30–1:20 PM, MSCS 440
- R, 2:00–4:00 PM, MLSC

Online Classroom: oc.okstate.edu

WebAssign: webassign.net/login.html

Syllabus Attachment: <https://academicaffairs.okstate.edu/content/resources-students>

Required Materials:

1. Textbook: *Calculus: Early Transcendentals*, 3rd edition, by Jon Rogawski and Colin Adams
2. Online homework system WebAssign (webassign.net/login.html).
 - WebAssign Class Key: **okstate 3746 8695**.

Expectations: All students are expected to participate and be involved in class, asking and answering questions. During class, there should be **no use of cellphones, laptops, or tablets**. You should expect to spend, on average, *6 hours outside of class* on Calculus II per week and more if you are struggling. Should you miss class, it is your responsibility to obtain lecture notes from a classmate, including announcements made in class.

Course Policies:

Attendance: While no additional credit is given for attendance, I expect you to attend every lecture. It is very rare for a student to be successful if he or she is frequently absent.

Missing Work: I will offer reasonable accommodations in the event that you miss a major assessment activity for a valid and documented reason, assuming documentation is provided in advance unless absolutely impossible. For a quiz or exam, you need to tell me as soon as you know there is a conflict and will be ineligible for a make-up if you do not.

Grades: There are two grading schemes. For each student, I will use the one resulting in the highest grade:

	Scheme 1	Scheme 2
WebAssign	10%	10%
Quizzes	20%	20%
Hour Exams (3)	15% each	10% each
Final Exam	25%	40%

An overall score of 90% guarantees an A for the semester, 80% a B, 70% a C, and 60% a D.

Coursework:

WebAssign: All homework will be done online using WebAssign's online homework system. You are encouraged to work together and it is good practice to keep a notebook as you work through WebAssign problems or print out the assignments. This will help when it comes time to study for exams.

Quizzes: There will be 8 in-class quizzes of which I will take your 6 best scores, that is, I will drop your two lowest scores. I will post suggested problems on D2L that I feel will help you prepare for quizzes. However, quiz material will not be limited to the suggested problems. Quiz dates are announced on the schedule attached to this Syllabus.

Exams: There will be three Hour Exams which will take place in class, and a comprehensive Final Exam. The dates are as follows:

Exam 1	Friday, February 12
Exam 2	Friday, March 4
Exam 3	Friday, April 22
Final Exam	Friday, May 6 from 8:00 AM to 9:50 AM

Calculators: I will allow calculators without QWERTY keyboards, Internet connections, and symbolic manipulation capabilities for exams. (That is, I will not allow calculators that can do indefinite integrals for you.) **Calculators will not be allowed for quizzes unless otherwise specified.** A calculator can be a valuable tool, but not a substitute for your own conceptual understanding.

The Mathematics Learning Success Center (MLSC): The MLSC is on the 5th floor of the Edmon Low Library and is a great resource. The MLSC has tutors who work with students from Calculus II and can help answer your questions. Hours for Calculus II tutoring are:

- Monday through Thursday from 12:00 PM until 9:00 PM
- Friday from 12:00 PM until 5:00 PM
- Sunday from 1:00 PM until 9:00 PM

For more information, visit math.okstate.edu/mlsc, or call 405-744-5818 or 405-744-5688.

Academic Integrity: Don't cheat. Do not copy off of other students, allow other students to copy your work, or present work you find in printed or electronic sources as your own. I take academic dishonesty very seriously and will deal with it as such. Carefully read the OSU policy at academicintegrity.okstate.edu. If you have further questions, please contact the Office of Academic Affairs, 101 Whitehurst, (405) 744-5627.

Drop Dates: The last day to drop with

- a full refund and without a grade of W is **February 19th, 2016.**
- a partial refund and a grade of W is **February 22nd, 2016**
- no refund and a grade of W is **April 8th, 2016**
- no refund and a grade of W or F is **April 22nd, 2016**

The last day to "parachute" to a lower level course is **Friday, January 22nd.**

Special Accommodations: If you think you have a qualified disability and need special accommodations, you should notify me as soon as possible and request verification of eligibility for accommodations from the Office of Student Disability Services. For more information, visit sds.okstate.edu, or call 405-744-7116.

Any changes to this Syllabus will be communicated to you in class and via e-mail.

Schedule: The following course schedule is preliminary.

MONDAY	WEDNESDAY	FRIDAY
Jan 11th <i>Introduction</i> §5.7-5.8 <i>Review of u-substitution</i> 1	13th §5.7-5.8 <i>Review of u-substitution</i> §7.1 <i>Integration by Parts</i> 2	15th §7.1 <i>Integration by Parts</i> Quiz 1 3
18th University Holiday	20th §7.2 <i>Trigonometric Integrals</i> 4	22nd §7.2 <i>Trigonometric Integrals</i> 5
25th §7.3 <i>Trigonometric Substitution</i> 6	27th §7.3 <i>Trigonometric Substitution</i> §7.5 <i>The Method of Partial Fractions</i> 7	29th §7.5 <i>The Method of Partial Fractions</i> Quiz 2 8
Feb 1st §7.5 <i>The Method of Partial Fractions</i> 9	3rd §7.6 <i>Strategies for Integration</i> <i>Review of Indeterminate Forms and Limits</i> 10	5th §7.7 <i>Improper Integrals</i> Quiz 3 11
8th §7.7 <i>Improper Integrals</i> 12	10th <i>Review for Exam 1</i> 13	12th Exam 1 §7.1-7.7 14
15th §7.9 <i>Numerical Integration</i> 15	17th §7.9 <i>Numerical Integration</i> 16	19th §8.4 <i>Taylor Polynomials</i> Quiz 4 17
22nd §8.4 <i>Taylor Polynomials</i> 18	24th §10.1 <i>Sequences</i> 19	26th §10.1 <i>Sequences</i> §10.2 <i>Summing an Infinite Series</i> 20
29th §10.2 <i>Summing an Infinite Series</i> 21	Mar 2nd <i>Review for Exam 2</i> 22	4th Exam 2 §7.9-10.2 23
7th §10.3 <i>Convergence of Series with Positive Terms</i> 24	9th §10.3 <i>Convergence of Series with Positive Terms</i> 25	11th §8.2 <i>Fluid Pressure and Force</i> 26
14th Spring Break	16th Spring Break 27	18th Spring Break
21st §10.4 <i>Absolute and Conditional Convergence</i> 28	23rd §10.4 <i>Absolute and Conditional Convergence</i> 29	25th §10.5 <i>The Ratio and Root Tests/Strategies for Choosing Tests</i> Quiz 5 30
28th §10.6 <i>Power Series</i> 31	30th §10.6 <i>Power Series</i> 32	Apr 1st §10.7 <i>Taylor Series</i> Quiz 6 33
4th §10.7 <i>Taylor Series</i> 34	6th §10.7 <i>Taylor Series</i> 35	8th §11.1 <i>Parametric Equations</i> Quiz 7 36
11th §11.1 <i>Parametric Equations</i> 37	13th §11.2 <i>Arc Length and Speed</i> 38	15th §11.2 <i>Arc Length and Speed</i> Quiz 8 39
18th §11.3 <i>Polar Coordinates</i> 40	20th <i>Review for Exam 3</i> 41	22nd Exam 3 §10.4-11.2 42

MONDAY	WEDNESDAY	FRIDAY
25th §11.3 <i>Polar Coordinates</i>	27th §11.4 <i>Area and Arc Length in Polar Coordinates</i>	29th <i>Catch-up/Review for Final Exam</i>
43	44	45

FRIDAY
May 6th
Comprehensive Final Exam 8:00 AM–9:50 AM, LSE 117