Math 2153, *Calculus II*, Fall 2015, Section 008

Instructor: Ashwini Bhat
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Class Meeting: MWF, 12:30-1:20PM, CLB 301

Office Hours:
- W, 2:30-3:20PM, MSCS 440
- R, 1:00-3:00PM MLSC

D2L Online Classroom: oc.okstate.edu

WebAssign: webassign.net/login.html

OSU Fall 2015 Syllabus Attachment: academicaffairs.okstate.edu

## Required Materials:
(1) Textbook: *Calculus: Early Transcendentals*, 2nd edition, by Jon Rogawski, and
(2) Online homework system WebAssign (webassign.net/login.html).
- For Section 008 use WebAssign Class Key: **okstate 8772 3360**.

**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. This includes reading the text, working on problems, discussing questions with others, and making use of office hours or the MSLC. 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.

**The Mathematics Learning Success Center (MLSC):.** The MLSC is on the 5th floor of the Edmon Low Library and is a great resource. The MSLC 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 9:00 AM until 9:00 PM
- Friday from 9:00 AM until 5:00 PM
- Sunday from 1:00 PM until 9:00 PM

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

**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 12 in-class quizzes of which I will take your 10 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 the 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 for this course:

| | |
|---|---|
| Exam 1 | Friday, September 18 |
| Exam 2 | Friday, October 16 |
| Exam 3 | Friday, November 20 |
| Final Exam | Wednesday, December 9 from 10:00 AM to 11:50 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.

**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 **Monday, August 24**th.
- a partial refund and a grade of W is is **Friday, August 28**th.
- no refund and a grade of W is **Friday, November 6**th
- no refund and a grade of W or F is **Friday, November 20**th

The last day to "parachute" to a lower level course is **Friday, September 11**th, although this should ideally be done by **Friday, August 28**th (parachutes requested after this date are less likely to be granted).

**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 the Syllabus will be communicated to you in class and via e-mail.*

**Schedule:** The following course schedule is preliminary.

| Monday | Wednesday | Friday |
|---|---|---|
| Aug 17th **1**<br>Introduction<br>§5.6-5.7 *u-substitution Review* | 19th **2**<br>§7.1 *Integration by Parts* | 21st **3**<br>§7.1 *Integration by Parts*<br>**Quiz 1** |
| 24th **4**<br>§7.2 *Trigonometric Integrals* | 26th **5**<br>§7.2 *Trigonometric Integrals*<br>§7.3 *Trigonometric Substitution* | 28th **6**<br>§7.3 *Trigonometric Substitution*<br>**Quiz 2** |
| 31st **7**<br>§7.5 *The Method of Partial Fractions* | Sep 2nd **8**<br>§7.5 *The Method of Partial Fractions* | 4th **9**<br>*Review of Indeterminate Forms and Limits*<br>**Quiz 3** |
| 7th<br>**University Holiday (Labor Day)** | 9th **10**<br>§7.6 *Improper Integrals* | 11th **11**<br>§7.6 *Improper Integrals*<br>**Quiz 4** |
| 14th **12**<br>§7.8 *Numerical Integration* | 16th **13**<br>*Review for Exam 1* | 18th **14**<br>**Exam 1** §7.1-7.6 |
| 21st **15**<br>§7.8 *Numerical Integration*<br>§8.2 *Fluid Pressure and Force* | 23rd **16**<br>§8.2 *Fluid Pressure and Force* | 25th **17**<br>§8.4 *Taylor Polynomials*<br>**Quiz 5** |
| 28th **18**<br>§8.4 *Taylor Polynomials* | 30th **19**<br>§10.1 *Sequences* | Oct 2nd **20**<br>§10.1 *Sequences*<br>**Quiz 6** |
| 5th **21**<br>§10.2 *Summing an Infinite Series* | 7th **22**<br>§10.2 *Summing an Infinite Series*<br>**Quiz 7** | 9th<br>**University Holiday (Fall Break)** |
| 12th **23**<br>§10.3 *Convergence with Series of Positive Terms* | 14th **24**<br>*Review for Exam 2* | 16th **25**<br>**Exam 2** §8.2-10.2 |
| 19th **26**<br>§10.3 *Convergence with Series of Positive Terms*<br>§10.4 *Absolute and Conditional Convergence* | 21st **27**<br>§10.4 *Absolute and Conditional Convergence*<br>§10.5 *The Ratio and Root Tests* | 23rd **28**<br>§10.5 *The Ratio and Root Tests*<br>**Quiz 8** |
| 26th **29**<br>§10.6 *Power Series* | 28th **30**<br>§10.6 *Power Series* | 30th **31**<br>§10.7 *Taylor Series*<br>**Quiz 9** |
| Nov 2nd **32**<br>§10.7 *Taylor Series* | 4th **33**<br>§10.7 *Taylor Series*<br>*Parametric Equations* | 6th **34**<br>§11.1 *Parametric Equations*<br>**Quiz 10** |
| 9th **35**<br>§11.2 *Arc Length and Speed* | 11th **36**<br>§11.2 *Arc Length and Speed* | 13th **37**<br>§11.3 *Polar Coordinates*<br>**Quiz 11** |
| 16th **38**<br>§11.3 *Polar Coordinates* | 18th **39**<br>*Review for Exam 3* | 20th **40**<br>**Exam 3** §10.3-11.2 |

| MONDAY | WEDNESDAY | FRIDAY |
|---|---|---|
| 23rd **41**<br><br>§11.4 *Area and Arc Length in Polar Coordinates* | 25th<br><br>**University Holiday (Thanksgiving Break)** | 27th<br><br>**University Holiday (Thanksgiving Break)** |
| 30th **42**<br><br>§11.4 *Area and Arc Length in Polar Coordinates*<br>**Quiz 12** | Dec 2nd **43**<br><br>*Catch-up*<br>*Review for Final Exam* | 4th **44**<br><br>*Catch-up*<br>*Review for Final Exam* |

| WEDNESDAY |
|---|
| Dec 9th<br><br>**Comprehensive Final Exam**<br><br>10:00 - 11:50 AM - Location TBA |