

## Calculus for Technology II

Math 2133.2 HES 331 MWF 12:30 – 1:20

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Office Hours: M 3:30 – 4:30, W 2:00 – 3:00, R 1:00 – 3:00  
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The textbook is the 4<sup>th</sup> edition of *Technical Calculus with Analytic Geometry* by Allyn J. Washington. We shall cover all of Chapters 7, 8, and 9, Sections 1 – 5 of Chapters 10 and 11, and Sections 1 – 3 of Chapter 12.

The class is a continuation of Calculus for Technology I. Its main aim is to extend the skills that you learned in that course so that they can be useful in a greater variety of situations. As well as algebra and geometry, the class will make heavy use of trigonometry. There will be a brief review of this subject in class, but if your knowledge of trigonometry is rusty then you will probably need to do extra review.

**You should be aware that most students find this class much more challenging than Calculus for Technology I.** To succeed, it is essential that you attend regularly, seek help when you cannot understand a topic or solve a problem correctly, and work through the sections of the textbook that are discussed in class. There is too much material for me to be able to cover every detail in my lectures, but you are responsible for learning everything in each of the sections that is discussed in class.

There will be twelve quizzes, two preliminary exams, and a final exam. The dates of the quizzes and preliminary exams are shown on the course schedule. The final exam will be held on Friday, December 17 from 10:00 – 11:50. The best nine quizzes (/11) will be worth 100 points in total (1 point is free). The preliminary exams will be worth 100 points each and the final exam will be worth 200 points. The total score,  $T$ , in the class (/400) will be determined according to the formula

$$T = Q + P1 + P2 + F - \text{MIN}(Q, P1, P2, F/2),$$

where  $Q$  is the quiz score (/100),  $P1$  and  $P2$  are the preliminary exam scores (/100),  $F$  is the final exam score (/200), and  $\text{MIN}$  denotes the minimum. A total score of 90% or more will ensure an 'A', a score of between 80% and 89% will ensure at least a 'B', a score of between 70% and 79% will ensure at least a 'C', and a score of between 60% and 69% will ensure at least a 'D'. You can find a sample grade calculation on the D2L page for this class.

**Quizzes cannot be made up.** Exams may be made up if they conflict with an official university activity, and in other circumstances at my discretion.

## Fall Semester 2010 – 2133.2 Schedule

	Monday	Wednesday	Friday
Week 1	8/23 §7.1	8/25 §7.2	8/27 §7.3
Week 2	8/30 §7.4 <b>Quiz 1</b>	9/1 §7.5	9/3 §7.6
Week 3	9/6 University Holiday	9/8 §7.7 <b>Quiz 2</b>	9/10 §7.7
Week 4	9/13 §8.1	9/15 §8.2 <b>Quiz 3</b>	9/17 §8.3
Week 5	9/20 §8.4 <b>Quiz 4</b>	9/22 Review for Exam 1	9/24 <b>Exam 1</b>
Week 6	9/27 §9.1	9/29 §9.2	10/1 §9.3 <b>Quiz 5</b>
Week 7	10/4 §9.4	10/6 §9.5 <b>Quiz 6</b>	10/8 §9.6
Week 8	10/11 §10.1	10/13 §10.2 <b>Quiz 7</b>	10/15 Fall Break
Week 9	10/18 §10.3	10/20 §10.3 <b>Quiz 8</b>	10/22 §10.4
Week 10	10/25 §10.4 <b>Quiz 9</b>	10/27 §10.5	10/29 §11.1
Week 11	11/1 Review for Exam 2	11/3 <b>Exam 2</b>	11/5 §11.2
Week 12	11/8 §11.3	11/10 §11.3 <b>Quiz 10</b>	11/12 §11.4
Week 13	11/15 §11.4	11/17 §11.5	11/19 §11.5 <b>Quiz 11</b>
Week 14	11/22 §12.1	11/24 Thanksgiving Break	11/26 Thanksgiving Break
Week 15	11/29 §12.2	12/1 §12.2 <b>Quiz 12</b>	12/3 §12.3
Week 16 Pre-Finals Week	12/6 §12.3	12/8 Review for Final Exam	12/10 Review for Final Exam

## Suggested Homework Problems

These problems should help you to check your understanding of the material, and to prepare for the quizzes and exams. I suggest that you attempt all of them.

### Chapter 7

- §7.1 11, 19, 23, 29, 31, 33, 35
- §7.2 5, 7, 11, 13, 27, 31, 33, 35
- §7.3 1, 3, 7, 9, 13, 15, 17, 21, 49
- §7.4 5, 9, 13, 17, 21, 47
- §7.5 45, 47, 49, 51, 53, 61, 63
- §7.6 9, 11, 13, 19, 47
- §7.7 9, 11, 21, 27, 29, 31

### Chapter 8

- §8.1 1, 3, 5, 13, 15, 33, 35, 41, 47
- §8.2 9, 17, 19, 21, 25, 27, 37, 39
- §8.3 5, 9, 11, 15, 49, 51
- §8.4 17, 21, 23, 29

### Chapter 9

- §9.1 1, 3, 5, 13, 15, 23, 25
- §9.2 1, 3, 5, 9, 11, 13, 17, 19, 25
- §9.3 7, 9, 13, 17
- §9.4 3, 5, 11, 13, 15, 23
- §9.5 1, 3, 7, 9, 13, 21
- §9.6 3, 5, 13, 15, 17

### Chapter 10

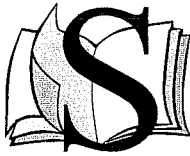
- §10.1 1, 3, 5, 9, 11, 13
- §10.2 1, 5, 7, 9, 11
- §10.3 1, 3, 5, 7, 9, 11, 15
- §10.4 1, 3, 5, 7, 9
- §10.5 1, 3, 5

### Chapter 11

- §11.1 1, 3, 5, 7, 37, 39
- §11.2 3, 25
- §11.3 3, 5, 13, 15, 25, 27, 29, 35
- §11.4 13, 15, 17, 19, 27, 29
- §11.5 1, 5, 7, 11, 17, 21, 23

### Chapter 12

- §12.1 21, 23, 27, 29, 33, 35
- §12.2 1, 3, 5, 9, 11, 13, 21
- §12.3 21



# OKLAHOMA STATE UNIVERSITY SYLLABUS ATTACHMENT FALL 2010

<http://osu.okstate.edu/acadaffr/aa/syllabusattachment-Fall.htm>

WE ARE VERY CONCERNED ABOUT YOUR SUCCESS AS A STUDENT AT OSU. THIS INFORMATION IS PROVIDED TO ANSWER QUESTIONS MOST OFTEN ASKED BY STUDENTS.

### IMPORTANT DATES

Last day to add a class (without instructor permission)	8/30/10
Last day to <b>drop a course</b> with no grade and no fees charged for courses	8/30/10
Last day to withdraw completely from the University and receive a 100% refund	8/30/10
Last day to add a class (with instructor permission)	9/03/10
Last day to drop a course with an automatic "W" and receive a 50% refund	9/03/10
Last day to withdraw completely from the University and receive a 50% refund	9/03/10
Last day to post 6 week grades for 1000 & 2000 level courses	10/5/10
Last day to file diploma application	11/1/10
Last day to <b>drop a class</b> with an automatic "W"	11/12/10
Last day to <b>withdraw completely from the University</b> with an automatic "W"	11/12/10
Last day to <b>withdraw completely from all OSU classes</b> with an assigned "W" or "F"	12/3/10
Pre-Finals week	12/6- 12/10/10
Final examinations	12/13 - 12/17/10

**Note:** For outreach, internet, and short course drop/add dates, see the **Short Courses** link on the Registrar's Academic Calendar webpage.

### FALL SEMESTER HOLIDAYS

Labor Day	9/6/10
Fall Break	10/15/10
Thanksgiving Break*	11/24 - 11/26/10

\*University closed Thursday & Friday, no classes Wednesday

### DROPPING A COURSE AND WITHDRAWING FROM THE UNIVERSITY

Students often confuse these terms

<http://osu.okstate.edu/acadaffr/DropAdd.htm>.

**Dropping a Course** (or courses) may occur during the first twelve weeks of the semester. This means, however, that you are still enrolled in at least one other OSU course. (Remedial courses cannot be dropped without written permission of the advisor.) *After the twelfth week (November 12, 2010), a course may be dropped by petition but only when verifiable extenuating circumstances can be demonstrated.* Verifiable extenuating circumstances must be reasons beyond your control, such as illness or accidental injury.

**Poor performance in class is not an extenuating circumstance.** You must obtain a petition to drop a course after the deadline from your advisor and get the signature of your advisor and dean with a grade of "W" or "F" assigned by the instructor. The Late Drop Panel must then approve the petition.

**Withdrawing** from the university means that you are dropping *all* of your courses and **are no longer enrolled for the current semester.** This may occur until the Friday before pre-finals week (December 3, 2010). The withdrawal process is initiated in your dean's office. **CHECK THE IMPORTANT DATES SECTION FOR THE "DROP" AND "WITHDRAWAL" DEADLINES FOR THIS SEMESTER.**

### ACADEMIC INTEGRITY POLICY

Oklahoma State University is committed to the maintenance of the highest standards of integrity and ethical conduct of its members. This level of ethical behavior and integrity will be maintained in this course. Participating in a behavior that violates academic integrity (e.g., unauthorized collaboration, plagiarism, multiple submissions, cheating on examinations, fabricating information, helping another person cheat, unauthorized advance access to examinations, altering or destroying the work of others, and fraudulently altering academic records) will result in your being sanctioned. Violations may subject you to disciplinary action including the following: receiving a failing grade on an assignment, examination or course, receiving a notation of a violation of academic integrity on your transcript, and being suspended from the University. You have the right to appeal the charge. Contact the Office of Academic Affairs, 101 Whitehurst, 405-744-5627. Go to [academicintegrity.okstate.edu](http://academicintegrity.okstate.edu) for a short video on OSU's academic integrity policy and additional information.



### CLASS ATTENDANCE IS IMPORTANT

Class attendance is a critical component of learning; therefore, you are expected to attend and participate fully in all scheduled class meetings. Many instructors consider attendance so essential that your grade may be affected by your absence. *SOME DEPARTMENTS AND PROFESSORS HAVE MANDATORY ATTENDANCE POLICIES.* If no written attendance policy is provided before the last day to add a class without instructor permission, no penalty may be assessed for class absences although you may not be permitted to make up certain in-class activities. If you are required to participate in official university-sponsored activities or military training you should receive an excused absence unless the written course attendance policy indicates otherwise. If you will be absent from class for sponsored activities, you must provide prior notification of the planned absence to the instructor. You may be required to submit assignments or take examinations before the planned absence.

If you must be absent from classes due to illness or other extenuating circumstances, it is your responsibility to notify instructors at the earliest possible time and determine if missed assignments can be submitted.

### PRE-FINALS WEEK POLICY

Final examinations are scheduled at the end of each semester and are preceded by pre-finals week, which begins seven days prior to the first day of finals. During pre-finals week, all normal class activities will continue; however, no assignment, test, or examination

accounting for more than 5% of the course grade may be given; and no activity or field trip may be scheduled that conflicts with another class. This excludes makeup and laboratory examinations, out-of-class assignments (or projects) made prior to pre-finals week, and independent study courses. No student or campus organization may hold meetings, banquets, receptions, or may sponsor or participate in any activity, program, or related function that requires student participation. Contact the Office of Academic Affairs, 405-744-5627, 101 Whitehurst.

### **FINAL EXAM OVERLOAD POLICY**

In the event that you have three or more final exams scheduled for a single day, you are entitled to arrange with the faculty member instructing the highest numbered course (4 digit course number) or two highest, if you have four finals on one day, to re-schedule that examination(s) at a time of mutual convenience during final exam week. You may not reschedule common final exams unless you have common exams scheduled at the same time. You should submit this request in writing, with a copy of your class schedule, at least two weeks prior to the beginning of final exam week. The faculty member has one week prior to the beginning of final exam week to arrange a mutually convenient time for administration of the final exam, after which you take the request to the Office of Academic Affairs, 101 Whitehurst.

### **INFORMATION TECHNOLOGY**

**Student Email** - OSU uses your OKSTATE.EDU email address for electronic correspondence. If you do not use the OSU email system you must redirect your okstate.edu email using the Orange-Key System ([www.okey.okstate.edu](http://www.okey.okstate.edu)). Failure to maintain an accurate email address may result in missed or lost university communications. For email assistance contact the IT Helpdesk at 405-744-HELP (4357).

**Computer Labs** - A complete description of computer labs and hours of operations are available at their website: <https://it.sharepoint.okstate.edu/TechnologySupport/DeskSide/labs/>. Lab information is also available by calling the Information Technology Help Desk, 405-744-HELP (4357).

### **LIBRARY HOURS**

#### **Edmon Low Library (405-744-5029)**

Monday-Thursday	7:30 a.m.- 2:00 a.m.
Friday	7:30 a.m. - midnight
Saturday	10:00 a.m. - midnight
Sunday	10:00 a.m.- 2:00 a.m.

\*Hours will vary during University holidays.

\*Contact the following for information on hours of operation:

Architecture Library	405-744-6047
Curriculum Materials Library	405-744-6310
Veterinary Medicine Library	405-744-6655

Library web address: [www.library.okstate.edu](http://www.library.okstate.edu)

### **GENERAL EXPECTATIONS OF STUDENTS**

By enrolling at Oklahoma State University, you accept responsibility for complying with all University policies and contracts, and for local, state and federal laws on- or off-campus that relate to the University's mission. **The Student Rights and Responsibilities Governing Student Behavior** document explains the standards of behavior expected of you, processes in place for enforcing the rules, and the University's response to violations (<http://www.okstate.edu/ucs/SCEA/>). In general, the University expects you to respect the rights of others and authority, represent yourself truthfully and accurately at all times, respect private and public property, and take responsibility for your own actions and the actions of your guests. Call 405-744-5470 for more information.

### **WHERE TO GO FOR HELP**

**Instructor** - If you have questions regarding your class, talk to your instructor. Faculty members usually include their office hours and/or phone number in the class syllabus. If you cannot locate this information, set a time to meet with your instructor by speaking with him/her prior to or immediately following your class session or check with the departmental office on when the instructor may be available.

**Academic Advisor** - All students will benefit by conferring with an advisor on a regular basis. If you do not know your advisor, or are unhappy with your advisor, talk to the Student Services Director for your college.

**Academic911.okstate.edu** - Your online resource for academic and personal success, sponsored by Student Affairs.

**Mathematics Learning Resource Center** (4<sup>th</sup> Floor, Classroom Building) Tutors are available to answer questions for classes ranging from Beginning Algebra through Calculus II. Tutoring for Differential Equations and Linear Algebra is offered at specific times. Go to [www.math.okstate.edu/mlrc](http://www.math.okstate.edu/mlrc) or call 405-744-5818.

**Writing Center** (104 Morrill Hall) The Writing Center helps writers throughout the composing process; you should plan to visit early and often throughout the semester, not just the day before an assignment is due. Tutors will work with you to improve your brainstorming, organizational, and composing techniques. Call 405-744-6671 or go to [english.okstate.edu/writing](http://english.okstate.edu/writing).

**Tutoring** (214 Student Union) University Academic Services offers free individual tutoring for a variety of courses. Call 405-744-5333. [www.okstate.edu/ucs/tutoring.html](http://www.okstate.edu/ucs/tutoring.html) lists other tutoring services.

**University Counseling Services** (001 Cordell) Professional counselors offer confidential personal and/or career counseling. Call 405-744-5472 or 405-744-7007 or [www.okstate.edu/ucs/Counselingservice.htm](http://www.okstate.edu/ucs/Counselingservice.htm).

**Office of Student Disability Services** (015 University Health Services) - According to the Americans with Disabilities Act, each student with a disability is responsible for notifying the University of his/her disability and requesting accommodations. If you think you have a qualified disability and need special accommodations, you should notify the instructor and request verification of eligibility for accommodations from the Office of Student Disability Services. Please advise the instructor of your disability as soon as possible, and contact Student Disability Services, to ensure timely implementation of appropriate accommodations. Faculty have an obligation to respond when they receive official notice of a disability but are under no obligation to provide retroactive accommodations. To receive services, you must submit appropriate documentation and complete an intake process during which the existence of a qualified disability is verified and reasonable accommodations are identified. Call 405-744-7116 or go to [www.okstate.edu/ucs/stdis/](http://www.okstate.edu/ucs/stdis/).

**Office of Affirmative Action** (408 Whitehurst) Oklahoma State University policy prohibits discrimination based upon gender, race, color, ethnicity, age, religion, national origin, veteran's status, disability, or sexual orientation. If you believe that you are being discriminated against, you may discuss your concerns and file informal or formal complaints with Mackenzie Wilfong, J.D., 405-744-5371.

### **SEEK ANSWERS TO YOUR QUESTIONS**

The OSU faculty and staff want you to be successful in your educational pursuits. If you have questions or concerns, seek help **EARLY**. We are here to assist you.

