

Math 2163, Calculus III, Syllabus

Section 004: 11:30 MWF, CLB 213

Instructor: Dr. Jim Choike, Professor of Mathematics
Office: MS 416 **Phone:** 744-5783
Email: choike@math.okstate.edu

Office Hours: By appointment

Prerequisites: MATH 2153, Calculus II

Textbooks: *Calculus: Early Transcendentals* 6e by James Stewart

Cell Phones: Cell phones MUST be turned off and OUT-OF-VIEW during class. Cell phones cannot be used during class for any purpose; this includes, but is not restricted to, making or receiving phone calls, making or receiving text messages, taking photographs during class, or using a cell phone for calculations.

Exams: There will be three one-hour in-class exams given on the following (tentative) dates:

Exam I Monday, September 20; Chapter 12: 1-5; Chapter 13: 1-2

Exam II Friday, October 22; Chapter 14: 1-8

Exam III Friday, November 19; Chapter 15: 1-8

Comprehensive Final Exam

The Final Exam will be a comprehensive exam over all material covered in the course. The Final Exam will be a 100-point Exam.

Final Exam: Wednesday, December 15, 2010 **Time:** 10:00 - 11:50 AM **Place:** CLB 213

THERE WILL BE NO MAKE-UP EXAMS.

WebAssign Problems: Homework

The WebAssign system is an online resource for problems related to the sections in the text that this course will cover. For information about WebAssign, you can go to this link <http://www.math.okstate.edu/webassign> to obtain self-enrollment information and information about using WebAssign to submit answers.

This course will use WebAssign for submitting homework assignments. Each homework assignment will have a different point value. The homework score will be computed as a percentage of the total points possible for the homework assignment. This percentage will be entered as a truncated two-digit number. This number will be the final score for that homework. The semester homework grade will be the average of the homework final scores, after the lowest three scores have been dropped. This homework score will be called *H*.

WebAssign Class Key

The class key for Math 2163, Section 004 in WebAssign, our online homework system, is:
okstate 2318 0009.

Students should set up their account and self-enroll for access to our section during the first week of class at <https://www.webassign.net/login.html>.

In-Class Written Quizzes

There will be unannounced weekly quizzes over the homework problems assigned, from the text and from the WebAssign online system, and the material covered in class. At a minimum 12 - 15 quizzes will be given, each worth a maximum of 10 points. The ten highest scores will be used as the Quiz Score called Q .

THERE WILL BE NO MAKE-UP QUIZZES.

Final Grade for the Course

The final grade will be based on the semester score S and the final exam score F . The semester score S will be a weighted average of the average of the three Exam scores and the average of the Quiz score Q plus the Homework score H . Thus, if $E = \frac{E_1 + E_2 + E_3}{3}$ and $W = \frac{Q + H}{2}$, then the semester score S will be computed as follows: $S = \frac{3}{4}E + \frac{1}{4}W$. The score on the final exam will be denoted F . The grade for the course will be based on the number $G = \max\left(\frac{S + F}{2}, \frac{3S + F}{4}\right)$.

The final letter grade will be determined according to the grading scale:

Grading Scale

90 - 100	A
80 - 89	B
70 - 79	C
60 - 69	D

MLRC

The MLRC (Mathematics Learning Resource Center) is located on the 4th Floor of the Classroom Building, Room 420 CLB. The MLRC is a place where students can receive tutoring in Calculus I, use microcomputers to solve problems, and review topics of algebra, trig, and calculus using video tapes. The MLRC hours are:

MTTh: 12 NOON to 10:00 PM

W: 12:00 NOON to 6:00 PM

F: 12 NOON to 5:00 PM.

Important Dates

Monday, August 23: Class work begins

Monday, August 30: Last day to drop a course with no grade and no fees

Friday, September 3: Last day to drop a course with 50% fees and grade of "W"

Friday, November 12: Last day to drop or withdraw with an automatic grade of "W"

Friday, December 3: Last day to drop from a course with an assigned grade of "W" or "F."

Pre-Finals Week: December 6-10, 2010

Finals Week: December 13-17, 2010

MATH 2163 Calculus III Syllabus

Textbook: *Calculus Early Transcendentals 6e* by James Stewart.

8/23	M	Intro to Calculus III and Sect. 12.1	10/18	M	Sect. 14.8: Lagrange Multipliers
8/25	W	Sect. 12.2: Vectors	10/20	W	Review for Exam 2
8/27	F	Sect. 12.3: The Dot Product	10/22	F	Exam 2
8/30	M	Sect. 12.3: Continued	10/25	M	Sect. 15.1: Double Integrals over Rectangles
9/1	W	Sect. 12.4: The Cross Product	10/27	W	Sect. 15.2: Iterated Integrals
9/3	F	Sect. 12.4: Continued	10/29	F	Sect. 12.6: Cylinders and Quadric Surfaces
9/6	M	Labor Day	11/1	M	Sect. 15.3: Double Integrals over General Regions
9/8	W	Sect. 12.5: Equations of Lines and Planes	11/3	W	Sect. 15.3: Continued
9/10	F	Sect. 13.1/13.2: Vector Functions and Space Curves; Derivatives/Integrals of Vector Functions	11/5	F	Sect. 15.4: Double Integrals in Polar Coordinates
9/13	M	Sect. 14.1: Functions of Several Variables	11/8	M	Sect. 15.5: Applications of Double Integrals
9/15	W	Sect. 14.1: Continued	11/10	W	Sect. 15.6: Triple Integrals
9/17	F	Review for Exam I	11/11	F	Sect. 15.7: Triple Integrals in Cylindrical Coordinates
9/20	M	Exam 1	11/15	M	Sect. 15.8: Triple Integrals in Spherical Coordinates
9/22	W	Sect. 14.2: Limits and Continuity	11/17	W	Review for Exam III
9/24	F	Sect. 14.3: Partial Derivatives	11/19	F	Exam III
9/27	M	Sect. 14.4: Tangent Planes and Linear Approximations	11/22	M	Sect. 16.1: Vector Fields
9/29	W	Sect. 14.4: Continued	11/24	W	Thanksgiving Break
10/1	T	Sect. 14.5: The Chain Rule	11/26	F	Thanksgiving Break
10/4	M	Sect. 14.5: Continued	11/29	M	Sect. 16.2: Line Integrals
10/6	W	Sect. 14.6: Directional Derivatives and the Gradient Vector	12/1	W	Sect. 16.3: FTC for Line Integrals
10/8	F	Sect. 14.6: Continued	12/3	F	Sect. 16.3: Continued
10/11	M	Sect. 14.7: Maximum and Minimum Values	PRE-FINALS WEEK		
10/13	W	Sect. 14.7: Continued	12/6	M	Sect. 16.4: Green's Theorem
10/15	F	Fall Break Day	12/8	W	Sect. 16.4: Continued
			12/10	F	Review for Final Exam

FINAL EXAM WEEK: 12/13 - 12/17

Final Exam for Calculus, 2163.004: Wednesday, December 15, 10:00 - 11:50 AM

Place: CLB 213

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8/30	M	Sect. 12.3: Continued	10/25	M	Sect. 15.1: Double Integrals over Rectangles
9/1	W	Sect. 12.4: The Cross Product	10/27	W	Sect. 15.2: Iterated Integrals
9/3	F	Sect. 12.4: Continued	10/29	F	Sect. 12.6: Cylinders and Quadric Surfaces
9/6	M	Labor Day	11/1	M	Sect. 15.3: Double Integrals over General Regions
9/8	W	Sect. 12.5: Equations of Lines and Planes	11/3	W	Sect. 15.3: Continued
9/10	F	Sect. 13.1/13.2: Vector Functions and Space Curves; Derivatives/Integrals of Vector Functions	11/5	F	Sect. 15.4: Double Integrals in Polar Coordinates
9/13	M	Sect. 14.1: Functions of Several Variables	11/8	M	Sect. 15.5: Applications of Double Integrals
9/15	W	Sect. 14.1: Continued	11/10	W	Sect. 15.6: Triple Integrals
9/17	F	Review for Exam I	11/11	F	Sect. 15.7: Triple Integrals in Cylindrical Coordinates
9/20	M	Exam 1	11/15	M	Sect. 15.8: Triple Integrals in Spherical Coordinates
9/22	W	Sect. 14.2: Limits and Continuity	11/17	W	Review for Exam III
9/24	F	Sect. 14.3: Partial Derivatives	11/19	F	Exam III
9/27	M	Sect. 14.4: Tangent Planes and Linear Approximations	11/22	M	Sect. 16.1: Vector Fields
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