Math 5B Math Analysis II

#50827 SPRING 2017 MTWTH 12:00-12:50PM CCI206

COURSE SYLLABUS

CONTACT INFORMATION

Julie Kehoe

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Office: FEM -1N

Office Hours: MW 10-11:00am
F 12-1:00pm

Math Study Center Hours:
MT 9-10:00am

INSIDE THIS SYLLABUS:

Welcome

Welcome to Math 5B at Reedley College! I hope you are excited to start a new semester and I look forward to working with you. This is a challenging class for most students and you will likely experience ups and downs throughout the semester. You are not in this alone so take every opportunity to get to know me and other students in class. Persistence, hard work, and a good support system are key. If you put in the time and effort I know you will be able to succeed in this course!

Course Description

This class investigates the applications of integration, many techniques of integration, improper integrals, parametric equations, polar coordinates and functions. Further study involves conic sections, exponential growth/decay models, infinite series including Maclaurin and Taylor Series.

Advisories: ENGL 125 and 126

Prerequisites: Math 5A

Course Objectives

In the process of completing this course, students will:

1. Evaluate definite and indefinite integrals using a variety of integration formulas and techniques;

2. Apply integration to areas and volumes, and other applications such as work or length of a curve;

3. Evaluate improper integrals;

4. Apply convergence tests to sequences and series;

5. Represent functions as power series; and

6. Graph, differentiate and integrate functions in polar and parametric form.

Student Learning Outcomes

Upon completion of this course, students will be able to:

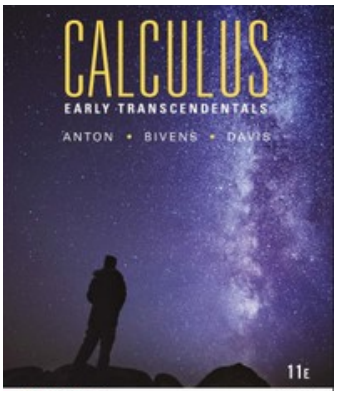
1. Evaluate definite integrals using the fundamental theorem of calculus and relate definite integrals to areas and Riemann sums.

2. Apply the use of integrals to problems involving volumes of solids, arc length, surface area, and other applications from science and/or engineering.

3. Find antiderivatives using a variety of techniques of integration.

4. Determine the convergence or divergence of

Course Materials



⇒ Anton, Bivens, and Davis. *Calculus*, 11 ed. Pearson, 2015

⇒ Graphing Calculator (TI 83 or TI 84 recommended)

Recommended Apps/Websites

⇒ Canvas

⇒ iTunesU

⇒ Khan Academy

⇒ Desmos

Attendance and Participation

I know you all have busy lives outside of this class but regular class attendance is expected. It is your responsibility to withdraw from the class with Admissions and Records if you find that you can no longer attend or possibly receive an F.

You **may** be dropped for excessive tardiness or after 4 absences.

If you reach 8 absences, **for any reason**, and are failing the class then you will be dropped from the class.

Being an active participant in class is key to your success. Therefore, If you are tardy, leave early, or leave class and return later, this will affect your attendance count, as will doing unrelated work, homework or using electronic devices during class. (i.e. cell phones, MP3 players, etc.) You will be considered late if you arrive after attendance has been taken.

Each tardy is equal to one half of an absence, i.e. 2 tardies = 1 absence

If you do not sign the attendance sheet you will likely be marked absent.

Assignments & Exams

"I have discovered a truly marvelous proof of this, which however the margin is not large enough to contain."

-Pierre de Fermat (referring to his 'last theorem')

In-Class Activities, Worksheets and Practice Exams

Periodically you will be working in groups on in-class activities that will be required to be turned in at the end of class or at the next class meeting for credit. **In-class activities and worksheets cannot be made up if you are absent for any reason.**

Homework

Homework is assigned on Friday each week and is due the following Wednesday.

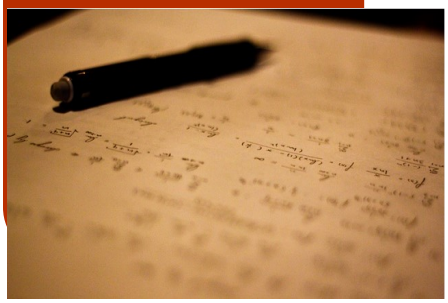
Late Work

Turning an assignment in late for **any reason** will result in a 40% point reduction. No late homework will be accepted after the final exam. Late extra credit assignments will not be accepted.

Tests

There will be three tests and a cumulative final exam in this course. **No make-ups will be allowed for exams.** If absent on the day of an exam, **one** missed exam score will be replaced with your final exam percentage.

Academic Honesty



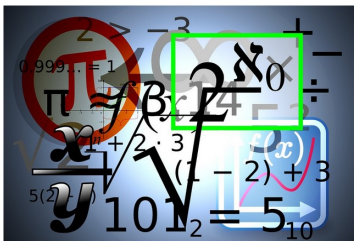
Students at Reedley College are entitled to the best education that the college can make available to them, and they, their instructors, and their fellow students share the responsibility to ensure that this education is honestly attained. Because cheating, plagiarism, and collusion in dishonest activities erode the integrity of the college, each student is expected to exert an entirely honest effort in all academic endeavors.

Academic dishonesty in any form is a very serious offense and will incur serious consequences, including but not limited to receiving a grade of F on the assignment or in the course. For the college policy on cheating and plagiarism see the college catalog.

Grading

Grading Scale:

A	89.5% - above
B	79.5%-89.4%
C	69.5%-79.4%
D	59.5%-69.4%
F	59.4% and below



Grading:

50% Tests

20% Final Exam

20% Homework

10% In-Class Activities, Worksheets and Practice Exams

Grades can be found on the Canvas Gradebook.

Calculating your Grade:

To calculate your grade multiply the percent you have in each category by the category weight and take the total.

Example

If your test average is 80, final exam is 75, homework is 85, and in-class activities is 95 then your grade is

(80*0.60) + (75*0.15) + (85*0.15) + (95*0.10) =81.5%

Resources

Other Students in Class

I strongly encourage you to form study groups of 3 to 5 students and work together outside of class. It is more productive and enjoyable to work with others when studying. In addition, it is helpful to have a classmate you can call to get missed work and notes if you are absent.

Your Instructor

I will be happy to help you at the beginning of class or in my office. My office hours are listed at the beginning of this syllabus. If you cannot come during my office hours you can make an appointment to come at a different time. You may also ask questions through email, the Canvas discussion board and app.

Math Study Center, FEM 1

The STEM Math Study Center is a free tutoring resource available to all Reedley College math students. The MSC offers drop-in tutoring facilitated by our math faculty and well-qualified student tutors. It also happens to be where my office is located!

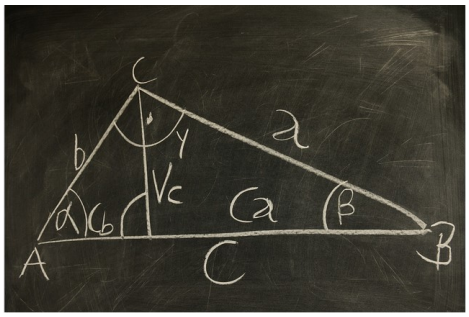
Open M-Th 8am-4pm, F 8am-12pm

"Do not worry to much about your difficulties in mathematics, I can assure you that mine are still greater." - Albert Einstein

Accommodations for Students with Disabilities

Disabled Students Programs & Services (DSP&S) is designed to provide specialized services and accommodations that assist students with documented physical, psychological and learning disabilities reach their maximum potential while achieving their educational goals. Staff specialists interact with all areas of the campus to eliminate physical, academic and attitudinal barriers. Disabled Students Programs & Services takes a personal interest in meeting the special needs of students with disabilities.

If you have a verified need for an academic accommodation or materials in alternate media (i.e., Braille, large print, electronic tex, etc.) per the Americans with Disabilities Act (ADA) or Section 504 of the Rehabilitation Act, please contact me as soon as possible.



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Important Dates *

January 9	(M)	Start of Spring 2017 semester
January 9 - March 10	(M-F)	Short-term classes, first nine weeks
January 16	(M)	Martin Luther King, Jr. Day observance (no classes held, campus closed)
January 20	(F)	Last day to drop a Spring 2017 full-term class for full refund
January 27	(F)	Last day to register for a Spring 2017 full-term class in person
January 27	(F)	Last day to drop a Spring 2017 full-term class to avoid a "W" in person
January 29	(SU)	Last day to drop a Spring 2017 full-term class to avoid a "W" on WebAdvisor
February 17	(F)	Lincoln Day observance (no classes held, campus closed
February 20	(M)	Washington Day observance (no classes held, campus closed)
March 13 - May 19	(M-F)	Short-term classes, second nine weeks
April 10-13	(M-Th)	Spring recess (no classes held, campus open)
April 14	(F)	Good Friday observance (no classes held, campus closed) (classes reconvene April 17)
May 15-19	(M-F)	Spring 2017 final exams week
May 19	(F)	End of Spring 2017 semester/commencement

Tentative Calendar

JANUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9 Semester Begins	10 Review	11 Review	12 7.1	13	14
15	16 *No School*	17 7.1	18 7.2	19 7.2	20*	21
22	23 7.3	24 7.3	25 7.4	26 7.4	27*	28
29*	30 7.5	31 7.5				

FEBRUARY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 7.6	2 7.6	3	4
5	6 7.8	7 7.8	8 Review	9 Exam 1	10	11
12	13 6.1	14 6.1	15 6.2	16 6.2	17 *No School*	18
19	20 *No School*	21 6.3	22 6.3	23 6.4	24	25
26	27 6.4	28 6.6				

MARCH

Sun	Mon	Tue	Wed	Thu	Fri	Sat
			1 6.6	2 6.8	3	4
5	6 6.8	7 8.1	8 8.1	9 8.2	10	11
12	13 8.2	14 8.3	15 Review	16 Exam 2	17	18
19	20 9.1	21 9.1	22 9.2	23 9.2	24	25
26	27 9.3	28 9.3	29 9.4	30 9.4	31	1

APRIL

Sun	Mon	Tue	Wed	Thu	Fri	Sat
2	3 9.5	4 9.5	5 9.6	6 9.6	7	8
9	10 *Spring Break*	11	12	13	14	15
16	17 9.7	18 9.7	19 9.8	20 9.8	21	22
23	24 9.9	25 9.9	26 Review	27 **Exam 3**	28	29
30						

MAY

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1 10.1	2 10.1	3 10..2	4 10.2	5	6
7	8 10.3	9 10.3	10 Review	11 Review	12	13
14	15 Final Week	16	17 **Final Exam 12-1:50pm**	18	19	20
21	22	23	24	25	26	27
28	29	30	31			