Spring 2017		Math 2414		Integral Calculus
25961	MATH 2414.001.17s	MWF : 9:00am-9:50am	FO 1.502	Sauter
26805	MATH 2414.015.17s	MWF: 10:00am-10:50am	FO 1.502	Sauter

Instructor: Dr. Alan Sauter

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Office hours: MWF 8:30-8:50 am or by appointment   Contact preference: email

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Course Pre-requisites, Co-requisites, and/or Other Restrictions

Prerequisite: A grade of C- or better in either MATH 2413 or MATH 2417 or equivalent.

Co-requisites: Enrollment in one of the following problem sections is **mandatory**: Math 2414.301-38/801-2

You will take you r weekly quizzes during your problem session.

Course Description

Continuation of Math 2413. Course covers topics in integral calculus, sequences and series. Topics include techniques of integration, improper integrals, and applications. Polar coordinates, parametric equations, and arc length. Infinite sequences and series, tests for convergence, power series, radius of convergence and Taylor series. Three lecture hours and two discussion hours a week; registration in a problem section as well as the exam section is required with Math 2414. Not all MATH/STAT courses may be counted toward various degree plans. Please consult your degree plan to determine the appropriate MATH/STAT course requirements. Cannot be used to replace Math 2419.

Required Textbooks, Materials and Additional Resources

- **Text:** Printed version: *Calculus, Early Transcendentals,* 8th Edition, by James Stewart.
  Options: 1) Access code to Enhanced WebAssign (contains digital copy of the text.) ISBN: 9781285858265
              2) Loose leaf copy of the text bundled with Enhanced WebAssign access code ISBN: 9781305616691
              3) Hardbound text bundled with Enhanced WebAssign access code ISBN: 9781305597624
- **eLearning**: http://elearning.utdallas.edu You must enter your NETID username and password to logon to eLearning. You will need to access the course **MATH 2414 701: INTEGRAL CALCULUS – S17.** Here, you will find the syllabus, problem sets, handouts, etc., as well as a record of your grades, and access to WebAssign (details below) Any messages/e-mails concerning the class will also appear on eLearning. To send an email via eLearning, just click the Mail link/icon, click Compose Message, click Browse, and select the name.
- **Calculators:** On very rare occasions, a scientific calculator is needed. Graphing calculators, programmable calculators, calculators with non-numeric displays, or any calculators that perform calculus operations are NOT ALLOWED on quizzes or exams.

Homework Assignments

There will be about 14 digital homework sets (DHWs) and about 5 handwritten homework sets (GHWs). **Each week, the DHWs will be assigned on WebAssign. These assignments will be posted each Monday afternoon and will be due by 11:59pm the following Sunday.** (**See schedule for due dates.) GHWs will be posted in pdf form on eLearning. You will be notified later in class and/or by email when these assignments will be posted and due. (The tentative GHW schedule is below.)**

WebAssign contains an equation editor which allows you to present your solutions in a mathematically correct form – beware parentheses. Once you submit a solution, it is graded immediately – for some problems you will have multiple attempts at the solution, for others only one attempt. Assignment grades will be transferred to eLearning – there will be NO late homework.

To gain access to WebAssign

1. Log into elearning, and select MATH 2414 701: INTEGRAL CALCULUS – S17
2. Click the link on the eLearning course homepage entitled "Access WebAssign."
3. If you already have a WebAssign account, you will either see the WebAssign course Math 2414 Spring 2017, section 701 at the left or you will see a pull-down menu with courses listed; choose Math 2414 Spring 2017, section 701.
4. A) If you already have a WebAssign account with the text for this course, you should be taken to the WebAssign course Math 2414 Spring 2017, section 701.
   B) If you do not already have a WebAssign account with the text for this course, you will have 3 options to register.
   - a) "Purchase access online" if you do not already have an access code and you want to buy access to the ebook and homework problems without printed text.
   - b) "Enter an access code" if you have already purchased an access code.
   - c) "Continue my trial period" if you want to start using the system before purchasing. The deadline is given in red.
   Once you have registered, you should be taken to the WebAssign course Math 2414 Spring 2017, section 701. Upon subsequent returns, you should only need to repeat steps 1-3.

Schedule (subject to change)

Wk	Mon		Wed		Fri		Prob Sec
1	1/9	Introduction, Syllabus, Sec 12.1	1/11	Sec. 12.1/12.2	1/13	Sec. 12.2	
2	1/16	**MLK Day** **DHW1 due 11:59p 1/15**	1/18	Sec. 7.1	1/20	Sec. 7.1/7.2	Qz 1
3	1/23	Sec. 7.2 **DHW2 due 11:59p 1/22**	1/25	Sec. 7.3	1/27	Sec: 7.3/7.4	Qz 2
4	1/30	Sec. 7.4 **DHW3 due 11:59p 1/29**	2/1	Sec. 7.5	2/3	Sec. 7.8 **GHW1 posted**	Qz 3
5	2/6	Sec. 7.8/8.1 **DHW4 due 11:59p 2/5**	2/8	Sec. 8.1	2/10	Sec. 8.2	Qz 4
6	2/13	Sec. 9.1 **DHW5 due 11:59p 2/12**	2/15	Sec. 9.2/9.3 **GHW2 posted**	2/17	**Sec. TBD** **Exam1 7:00-8:15p** **Venue TBA**	**GHW1 due**
7	2/20	Sec. 9.3 **DHW6 due 11:59p 2/19**	2/22	Sec. 9.4/9.6	2/24	Sec. 9.6/10.1 **GHW3 posted**	Qz 5
8	2/27	Sec.10.1 **DHW7 due 11:59p 2/26**	3/1	Sec. 10.2	3/3	Sec. 10.2/10.3	Qz 6 **GHW2 due**
9	3/6	**DHW8 due 11:59p 3/5**	3/8	Sec. 10.3	3/10	Sec.10.4	Qz 7
10	3/13	**SPRING**	3/15	**BREAK**	3/17	**HOLIDAY**	
11	3/20	Sec. 10.4 **DHW9 due 11:59p 3/19**	3/22	Sec. 11.1 **GHW4 posted**	3/24	Sec. 11.1/11.2	Qz 8 **GHW3 due**
12	3/27	Sec.11.2 **DHW10 due 11:59p 3/26**	3/29	Sec. 11.3	3/31	Sec. 11.3/11.4	Qz 9
13	4/3	Sec. 11.4 **DHW11 due 11:59p 4/2**	4/5	Sec. 11.5	4/7	**Sec. TBD** **Exam2 7:00-8:15p** **Venue TBA**	**GHW4 due**
14	4/10	Sec. 11.6 **DHW12 due 11:59p 4/9** **GHW5 posted**	4/12	Sec. 11.6	4/14	Sec. 11.7	Qz10
15	4/17	Sec. 11.8 **DHW13 due 11:59p 4/16**	4/19	Sec. 11.8/11.9	4/21	Sec. 11.9	Qz11
16	4/24	Sec. 11.9/11.10 **DHW14 due 11:59p 4/23**	4/26	Sec. 11.10	4/28	**Last Day of Class** **Sec.11.10,TBD**	Qz12 **GHW5 due**
Final Exam, 5/3, 8:00-10:45am, Venue TBA							

Grade Policy

Weights: 10% DHWs scaled to 100%
10% GHWs scaled to 100%
15% Quizzes scaled to 100%
40% Exam 1 and Exam 2, together
25% Final Exam

Grade Scale [96.6,100]…A+ [93.3,96.6)..…A [90,93.3)..…A-
[86.6,90)..…B+ [83.3,86.6)..…B [80,83.3)..…B-
[76.6,80)..…C+ [73.3,76.6)..…C [70,73.3),..…C-
[66.6,70)..…D+ [63.3,66.6)..…D [60,63.3)..…D-
[0 ,60)…...F

- Homework will constitute 20% of your course grade. There will be around 14 digital homework sets (DHWs) and about 5 handwritten homework sets (GHWs). The lowest 2 scores of the DHWs **(except the last DHW)** will be dropped and the lowest single score of the GHWs **(except the last GHW)** will be dropped. The average of the remaining DHW scores will constitute 10% of the course grade, and the average of the remaining GHWs scores constitute 10% of the course grade. **Again, the last DHW and the last GHW CANNOT be dropped.**

- Quizzes will constitute 15% of your course grade. There will be around 12 quizzes. The lowest 2 scores will be dropped **(except the last quiz)**, and the remaining scores will be scaled to 100%. Each quiz will be administered during the problem section and will be returned to you at the next meeting of your problem section. **Again, the last quiz CANNOT be dropped.**

- Major exams constitute 40% of your course grade. The lower of the 2 major exam grades will constitute 15% of the course grade; the greater will constitute 25%. You will be notified in class of any change in time or venue prior to the date of the exam. Graded exams will be returned during problem section.

- Final exam - is not optional, is comprehensive, and constitutes 25% of your course grade. Final exams are not returned to the student but are held for review for one year.

The complete syllabus is posted on eLearning. These descriptions and timelines are subject to change at the discretion of the Professor.