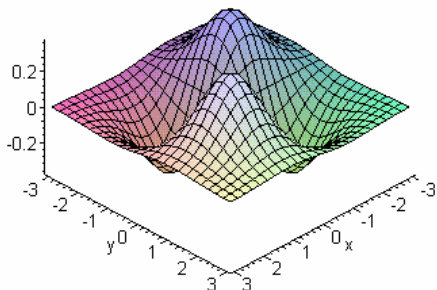


**MTH 235 Calculus III
Semester 101 (Fall 2010)
Course Syllabus**



Instructor: Karen E. Donnelly
Office: Core 257
Office Phone: 6297
Email: karend@saintjoe.edu

Office Hours

Thursday 12:30 p.m. – 2:00 p.m.
Friday 10:00 a.m. – 11:00 a.m.
Contact for appointment during other times.

Monday 1:00 p.m. -- 2:00 p.m.
Tuesday 12:30 p.m. – 2:00 p.m.
Wednesday 1:00 p.m. -- 2:00 p.m.

Home page URL: www.saintjoe.edu/~karend

Calculus Web Page URL: www.saintjoe.edu/~karend/m235

Calculus Chat Site with Worked Solutions for Odd Problems:

http://calcchat.tdlc.com/free_solutions/main.html

Text: Larson, Hostetler, and Edwards, *Calculus*, Ninth Edition, 2010. Houghton Mifflin Company. ISBN 0-547-16702-4

Students in this class are entitled to purchase Maple 14 at a discounted price from the Maplesoft Web Store (<http://webstore.maplesoft.com>). To do this, you will need to enter the promotion code where prompted. Our Promotion Code: AP64235

You must maintain a folder and notebook for this class, in which you must keep all class notes, handouts, review guides, practices tests, and returned tests and homework.
You must bring your text, notebook, folder, and calculator to every class.

Course Objectives:

1. To investigate sequences and series, including tests for convergence and divergence of sequences and series, and approximation of functions by Taylor and Maclaurin series.
2. To investigate the theory and applications of parametric equations and polar coordinates
3. To investigate the theory and applications of vectors and the calculus of vector-valued functions.
4. To continue to develop the ability to read and communicate mathematics effectively.
5. To use technology (Maple and calculators) as effective tools for investigation. Weekly labs will be assigned using Maple.

Course Outline:

1. Infinite Sequences and Series (Chapter 9)
2. Conics, Parametric Equations, and Polar Coordinates (Chapter 10)
3. Vectors and the Geometry of Space (Chapter 11)

Tentative Scheduled Test Dates:

Exam # 1 -- Wednesday Sept. 15th

Exam # 2 -- Friday Oct. 8th

Exam # 3 -- Wednesday Nov. 3rd

Exam #4 Friday Dec 3rd

Final Exam: Comprehensive –

Wed Dec. 15th 1:00 p.m.

Grade Distribution:

Assignments, Quizzes:	30%
Four Exams:	40%
Final Exam (comprehensive):	25%
Attendance and Participation:	05%

Grading Scale:

93%-100%	A	90%-92%	A-		
87%-89%	B+	83%-86%	B	80%-82%	B-
77%-79%	C +	73%-76%	C	70%-72%	C-
67%-69%	D+	60%-66%	D		
59% or Below	F				

Expectations and Requirements:

Special Note: If you are a student with a disability, please meet with me immediately to discuss the accommodations you will need during class activity, examinations, and out of class assignments in order to participate fully and demonstrate your abilities.

1. In the classroom:

a) No electronic devices such as Ipods, laptops, or cell phones may be used during class -- They must be turned off. If this is violated they will be placed on the professor desks at front of class until end. For repeat violations, the student will be asked to leave the classroom.

b) No hats may be worn during class.

c) Be seated and prepared with all materials out and ready at the beginning of class. Make sure that you have reviewed previous class notes and completed any assigned reading prior to class. You must bring your text book and calculator to all classes. The text book should be out ready to reference any pages as asked by the professor during class. To receive the maximum grade on attendance and participation, the student must read assignments **prior** to class, be prepared to ask and respond to questions, and be an actively engaged participant in class.

d) Take good notes and **review notes** on a regular basis.

e) **Attendance is required.** If you must miss class due to illness or other valid excuse (e.g. athletic event) please send me email or telephone with an explanation prior to the class date. Please do not come to class if you have flu-like symptoms. However, you should bring documentation of such (e.g. from health center) when you return to class.

3. Academic Honesty: Plagiarism or other forms of academic dishonesty on any assignments, tests, or quizzes will not be tolerated. If the instructor finds that a student has engaged in dishonesty, the student may be referred to the Dean of Academic Affairs for appropriate action.

4. Quizzes and Exams: Students are expected to be present for all exams. **No exams or quizzes may be made up** unless the student has contacted the instructor and received permission **prior** to the date of the original exam or quiz. This includes students participating in athletics who must arrange to take the quiz or exam **on or before the scheduled date.**

5. Problem Assignments: Assignments, unless otherwise specified by the instructor, are to be **completed individually.** While students are encouraged to **consult** each other for ideas for assignments, the solutions should be completed individually. Any help one student gives another should be instructional help only. If the instructor feels that a student has not completed an assignment individually, the instructor may question the student on that assignment. The student should be able to explain how he/she worked the problem and should be able to work similar problems. **Late assignments will not be accepted without permission.**

6. Homework Guidelines:

- Write out complete answers **NEATLY and CLEARLY.**
- Number each exercise to the left –Problems should proceed in order from top to bottom.
- You must show your work! **Correct mathematical notation** must be used. Partial credit is given when work is shown even if answer is incorrect. However, correct answers without any work shown will in general be given no credit.
- If the problem is a computation leading to a final answer, **box the answer.**
- Use pencil and eraser -- do not scratch out work.
- **Staple** your pages together before submitting.
- Start homework early and see me for help with problems you don't know how to work! *It is inappropriate to ask how to do a problem in class the day it is due!!!!* My office is Core 257-- See my schedule for office hours or call or send email for an appointment. I am always happy to help you.

7. Getting Help:

Students who do not understand a concept should do the following:

a) Ask questions in class. (More than likely other students do not understand as well.)

b) Seek individual help from the instructor. I am more than willing to give you the extra help you may need. Come in during office hours or make an appointment. Tutoring (free) can also be arranged either through me or through counseling services.

c) Share with me any concerns you may have or any suggestions you have for the class structure that will help you learn more effectively.

The above content and requirements as well as the attached problem list are tentative and subject to change according to time constraints and other factors as determined by the instructor.

Set Number	<p align="center">Written Problem Assignments Consult class web page for due dates</p>
1	Section 9.1 Part 1: 2, 3, 8, 11,14, 32, 34, 35, 38, 40
2	Section 9.1 Part 2: 40, 48, 54, 60, 67, 71, 72, 85, 88, 90, 93, 94, 96, 99, 100, 105, 106, 108
3	Section 9.2: 1, 6, 10, 12, 15, 25, 26, 29, 38, 39, 41, 42, 55, 60, 61,64, 67, 71, 74, 83, 86, 94, 102, 105, 106, 113
4	Section 9.3: 2, 4, 5, 12, 16, 19, 20, 28, 29, 31, 32, 40, 41, 52, 71, 76
5	Section 9.4: 4, 5, 9, 10, 17, 18, 21, 22, 29 through 36 (For 29-36 use tests agreed upon in class), 55-60
6	Section 9.5: 9, 11, 12, 16, 18, 21, 22, 29, 32, 41, 44, 47, 48, 51, 54, 57, 60, 61
7	Section 9.6: 15, 16, 20, 23, 26, 35, 28, 45, 48, 53, 56, 62, 77, 78 (use ratio test), 88, 98 (Apply ratio test to find interval-- test end points separately)
8	Section 9.7: 1 through 4, 13, 16, 24, 29, 30, 43, 44, 45, 46, 49, 52
9	Section 9.8: 1, 2, 3, 4, 5, 9, 10, 11, 16, 17, 22, 24, 26, 27, 41, 42, 49 – 52
10	Section 9.9: 1, 4, 5, 10, 17, 19, 20, 21, 25, 35, 36, 38, 39, 40
11	Section 9.10: 2, 4, 7, 13, 18, 24, 27, 30, 36, 42, 43, 59, 60, 69, 70
12	Section 10.1: 1 thru 8, 11 16, 21, 24, 33, 34, 41, 44, 47, 48, 51, 52, 58, 61, 68, 70, 73, 75, 120
13	Section 10.2: 3, 6, 15, 24, 32, 33, 41, 49, 55, 56
14	Section 10.3: 7, 10, 14, 17, 18, 29, 32, 40, 48, 52, 60, 57, 70, 72
15	Section 10.4: 1, 2, 3, 4, 11, 12, 13, 14, 23, 24, 25, 26, 27, 28, 32, 35, 37, 40, 44, 45, 48, 53, 60, 78, 79, 86, 90, 96
16	Section 10.5: 1, 2, 3, 4, 6, 7, 12, 19, 22, 25, 26, 32, 43, 46, 58, 59, 67, 68
17	Section 10.6: 7-12, 14, 19, 22, 37, 40, 42
18	Section 11.1: 1, 4, 6, 10, 11, 18, 24, 46, 29, 33, 36, 37, 45, 38, 49, 52, 53, 60, 71, 72, 81
19	Section 11.2: 7, 8, 9, 10, 26, 35, 38, 41, 44, 49, 50, 54, 62, 65, 72, 74, 79, 82, 96, 112
20	Section 11.3: 4, 9, 12, 17, 21, 22, 24, 31, 38, 45, 50, 71, 74
21	Section 11.4: 8, 13, 30, 36, 34, 37, 44, 45
22	Section 11.5: 7, 10, 11, 17, 20, 21, 24, 28, 31, 32, 37, 40, 43, 44, 47, 48, 56, 66, 67, 83, 94, 99, 103
23	Section 11.6: 7, 10, 11, 14, 20, 22, 27, 30, 47, 48, 50
24	Section 11.7: 3, 6, 8, 11, 13, 14, 18, 19, 20, 21, 24, 26, 27, 32, 32, 35, 36, 99, 100