Class Time: 12:00 - 12:50 Monday, Tuesday, Wednesday, Thursday in WALKER 106 and 205

Professor:  
Dr. Gregory Rhoads  
334 Walker  262-2741  
RHOADSGS@appstate.edu  
www.mathsci.appstate.edu/~gsr/2130

Office Hours: 
11-12 Monday and Wednesday, 1-2 Monday, 1-4 Tuesday, and 1-3 Wednesday and Thursday

Graduate Assistant: Joseph Kimeu  305 Walker

Objectives: The primary objectives of this course are  
• to introduce the student to the basic geometric structures in 3-dimensions: vectors, curves and surfaces  
• to become familiar with the differential and integral calculus of functions of more than one variable and their applications  
• to effectively use MAPLE in satisfying the previous two objectives.

Students can access Maple in any public computer lab on campus or they can purchase a student copy from the web site: http://webstore.maplesoft.com/


Content: We will cover all of chapters 12, 13, and 14 and 16 as much of 15 as we can. This is an ambitious schedule. The class will be set up as follows: we will usually have lecture days on Tuesday and Thursday and “lab” days on Monday and Wednesday. Lecture will go quickly so I will give a reading assignment on new material that I expect the students have read before coming to lectures. The lab days will be either in the classroom or in the computer lab working on problems and maybe taking a quiz.

MATHLAB: MATHLAB is a tutoring lab that can provide personal tutoring, answers to homework problems, or just a quiet place to study. It will run 2:00 – 5:00 Monday – Thursday in room 302 Walker Hall. There are tutors available at the Learning Assistance Center in D.D. Dougherty.

Grading: Course grades will be based on a distribution of:

<table>
<thead>
<tr>
<th>Activity</th>
<th>Weight</th>
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<tbody>
<tr>
<td>Classwork and Quizzes</td>
<td>25%</td>
</tr>
<tr>
<td>Comprehensive Final Exam</td>
<td>20%</td>
</tr>
<tr>
<td>3 - In class exams</td>
<td>45%</td>
</tr>
<tr>
<td>Portfolio Problems</td>
<td>10%</td>
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You may work with others in solving the classwork problems; however, each person is expected to write up the solutions on their own!!!!!

Copying work or having two people handing in the same assignment (changing the names) is a violation of the ASU Academic Integrity Code.
Late Policies: Classwork is work that is to be completed during the classtime and there is no makeup on them. Some quizzes will be announced but some may not. I will drop at least 1 quiz so no makeups are allowed on quizzes. The classwork grade will be reduced for sloppy work.

There will be some problems from each chapter that I want you to do well and turn them in by the last day of class, April 26. These will be your portfolio problems and part of the grade will be on neatness.

There will be 3 in-class exams. Make-up exams must be scheduled in advance and only if the reason is a university sponsored activity. If an exam is missed and no make-up had been scheduled, the grade for the exam will be the grade on the final minus 15%.

Your grade for the semester will be based on the following:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Grade</th>
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<th>Grade</th>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>92-100</td>
<td>A</td>
<td>80-82</td>
<td>B-</td>
<td>68-70</td>
<td>D+</td>
</tr>
<tr>
<td>90-92</td>
<td>A-</td>
<td>78-80</td>
<td>C+</td>
<td>62-68</td>
<td>D</td>
</tr>
<tr>
<td>88-90</td>
<td>B+</td>
<td>72-78</td>
<td>C</td>
<td>60-62</td>
<td>D-</td>
</tr>
<tr>
<td>82-88</td>
<td>B</td>
<td>70-72</td>
<td>C-</td>
<td>0-59</td>
<td>F</td>
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</tbody>
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Rough Schedule:

Chapter 12 and Sections 15.1 and 15.3 – January 10 – February 6

EXAM 1 – February 7

Chapter 13 and Section 15.4 – February 8 – March 1

EXAM 2 – March 2

Chapter 14 and Sections 15.5 and 16.1-16.3 – March 6 – April 5

EXAM 3 – April 6

Sections 16.4-16.7 – April 10 – April 26

FINAL EXAM – Tuesday May 2 from 9:00 – 11:30 a.m.