I. COURSE DESCRIPTION AND GENERAL INFORMATION

MAC 2312 is the second course in calculus. The course consists of the following topics: techniques of integration, sequences and series continuity, differentiation of algebraic and trigonometric functions, differentials, introduction to integration and the fundamental theorem of calculus, application of definite integrals and derivatives. The prerequisite for this course is MAC 2311 (Calculus I).

**For those students who wish to take Calculus III or Differential Equations, you must pass this course with a C or better.**

II. TESTS AND GRADING POLICY

There will be 4 exams. **THERE WILL BE NO MAKE-UP EXAMS.** If you miss an exam, your fourth exam grade will count double and replace the missing exam. You may also replace the lowest of the first three exam scores by doubling the fourth exam score if the fourth exam score is higher than the one of the other grades. **THE FOURTH EXAM IS NOT OPTIONAL.** Your grade will be computed by dividing the total number of points by four. Additionally, for your honors project you must satisfy 16 service learning hours. If you do not complete your hours by the week of final exams, your final letter grade will be lowered by one letter. The final grade will be based on the following scale:

<table>
<thead>
<tr>
<th>LETTER GRADE</th>
<th>POINTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90 – 100</td>
</tr>
<tr>
<td>B</td>
<td>80 – 89</td>
</tr>
<tr>
<td>C</td>
<td>70 – 79</td>
</tr>
<tr>
<td>D</td>
<td>60 – 69</td>
</tr>
<tr>
<td>F</td>
<td>BELOW 60</td>
</tr>
</tbody>
</table>
III. HOMEWORK POLICY

Students are expected to complete all of the assignments. During the following class, time will be given to answer specific questions on the assignment.

IV. ATTENDANCE

Although, attendance will not influence the grading policy, students are encouraged to attend classes regularly.

V. TUTORING LAB

The tutorial services of the Lab are available to anyone on campus. The lab is located on the third floor of building 3 in room 3326 in the Math/Science Study Center.

VI. BEEPERS AND CELLULAR PHONES

During class time, all cellular phones and beepers need to be turned off or placed in vibration mode.

VII. INCOMPLETE

A student will be eligible for an incomplete (an “I”) if ALL of the following are satisfied:

1. The student is passing the course.
2. The student has completed at least 75% of the semester work.
3. The student has extreme extenuating circumstances that will make it impossible for him/her to complete the semester.

VIII. CALCULATOR

For this course you are required to have a scientific calculator.

*** Recommended calculator: TI-3OX IIS SOLAR or 36
You are permitted to use graphing calculators during the exams except the TI-89 or 92.

IX. IMPORTANT DATES

Last day to drop with a 100% refund: Monday Jan 10
Holidays: Monday Jan 17 and Thurs March 10
Last day to drop and receive a “W”: Wednesday March 16
### Assignments for Test 1

**Sec** | **Page** | **Exercises**
---|---|---
5.5 | 420 | 7 – 15, 18 – 37, 43, 44, 63, 64
7.1 | 480 | 3 – 11, 13, 17, 18, 19, 24, 25
7.1 | 480 | 15, 16
7.2 | 488 | 1, 5, 7, 8, 11, 14, 17, 21, 23, 25, 27, 29, 35
7.3 | 494 | 4, 5, 7, 9, 11, 13, 17, 19
7.4 | 504 | 1 – 6 set up only, 7 – 10, 18, 19, 20, 25, 26, 34
7.5 | 510 | 1, 2, 3, 5, 12, 15, 17, 41, 43, 47, 53
7.8 | 538 | 5 – 15, 21, 23, 27, 29, 31

**Test # 1 Thurs. Feb. 3**