Calculus I MAC 2311 (U03B) — Summer 2016

- Instructor: Kai Huang
- Webpage: http://faculty.fiu.edu/~khuang
- E-mail: khuang@fiu.edu
- Office/Hours: DM 419 A; Mon., & Wed. 3:30 — 4:30 PM
  The Single Variable Edition contains all needed material for Calculus I and II.
- Objectives: Upon completion, students should demonstrate:
  1. strong computational skills of limits, derivatives and basic anti-derivatives;
  2. good understanding of the major topics limits and continuity, differentiation and applications, basic anti-derivatives;
  3. reasonable reasoning skills; Students should be able to comprehend and reproduce basic proofs.
- Grading:
  The final grade in this course will be based on:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>30 %</td>
</tr>
<tr>
<td>Midterms</td>
<td>40 %</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30 %</td>
</tr>
</tbody>
</table>

Final Exam will be cumulative.
Your final grade will be based on your percentage of the total available points.

<table>
<thead>
<tr>
<th>A</th>
<th>A-</th>
<th>B+</th>
<th>B</th>
<th>B-</th>
<th>C+</th>
<th>C</th>
<th>C-</th>
<th>D+</th>
<th>D-</th>
<th>F</th>
</tr>
</thead>
<tbody>
<tr>
<td>≥ 90</td>
<td>≥ 85</td>
<td>≥ 80</td>
<td>≥ 75</td>
<td>≥ 70</td>
<td>≥ 65</td>
<td>≥ 60</td>
<td>≥ 55</td>
<td>≥ 40</td>
<td>&lt; 40</td>
<td></td>
</tr>
</tbody>
</table>
• Attendance:
  You are responsible for material covered in class.
  Essential announcements and any changes will be announced in class.
  If you miss a class, it is your responsibility to get the notes from a classmate.

• Incomplete grade policy:
  IN grade is given to a student only under the condition that the student has
  substantially completed (with a passing grade) most of the course but is unable
  to complete the course because of circumstances beyond his/her control.

• Exams:
  All exams are closed notes and closed books.
  You may not communicate with others during the exams.
  Cellular phone, calculator, laptop or equivalent device are not allowed in exam.
  Picture I. D. with signature is required and must be presented upon request.
  Tardiness is permitted on test days without penalty although you will have less
  time on the test than everyone else. If you are so late that someone has already
  turned in their test before you arrive, you will not be allowed to take the test.

  WARNING:
  Please consult your calendar to be sure that you can take all the exams.
  If you have a conflict, it would be a good idea to enroll in a different section or
  take the course another time. There will be no make-up exams.
  Excused absences for exam may be given only for certain documented emergencies
  (primarily medical). They will not be given for attendance at scheduled activities,
  whether University sponsored or not, to attend other classes or for family or
  business trips.
  The excused exam may be substituted by 90% of the final exam.
  You may not be excused from the final.

• ACADEMIC MISCONDUCT
  includes (but is not limited to) giving or receiving assistance on a test or quiz
  for which such assistance is not permitted, falsifying a document to obtain an
  excusal from a test, and using unauthorized notes on a test or quiz.
  A more complete definition of Academic Misconduct is given on pp.120-121 of
  the Student Handbook.
  Penalties for Academic Misconduct range from an F in the course to expulsion
  from the university.
EXERCISES

0.1 1 - 17 odd, 19 - 22 all, 27, 29, 31
0.2 1 - 11 odd, 31 - 39 odd, 53, 55, 61, 63, 71, 72
0.3 1, 2, 4, 9, 11, 31, 33
0.4 1, 10 - 14 all, 17 - 19 all, 22, 35 - 41 odd, 25*, 26*, 29*
0.5 1, 5, 9, 11 - 29 odd, 32, 42*, 50, 57, 58

1.1 1 - 9 odd, 17 - 20 all, 23 - 29 odd
1.2 1 - 31 odd, 33 - 36 all, 37, 39, 40, 43*
1.3 1 - 5 odd, 9 - 31 odd, 50*, 52*
1.4 1, 3, 19, 20, 29*, 31*, 33*
1.5 1 - 5 all, 7, 11 - 31 odd, 33 - 35 all, 44*, 47, 48*, 56*
1.6 1 - 11 odd, 17 - 29 odd, 30, 32, 40, 43, 46, 49 - 52 all

2.1 1 - 8 all, 11 - 19 odd, 23 - 27 odd
2.2 1 - 17 odd, 23, 25, 26, 27 - 30 all, 33, 41, 42, 47*, 49*
2.3 1 - 23 odd, 33 - 36 all, 37, 39, 40, 43*
2.4 1 - 17 odd, 25 - 33 odd, 35*, 37, 38*, 39 - 42 all
2.5 1 - 15 odd, 21, 25, 27a, 31, 32, 35 - 38 all, 39, 44*
2.6 1 - 21 odd, 27 - 33 odd, 43, 46, 61, 63, 64, 67, 80*, 83*

3.1 1 - 13 odd, 19, 25, 27, 33*
3.2 1 - 27 odd, 31, 35 - 41 odd, 45*, 47*
3.3 15 - 49 odd, 67*, 69*, 71, 72, 77, 79
3.4 5, 7, 8, 12, 13, 17 - 20 all, 24, 29, 32, 45*
3.5 1-9 odd, 23, 27, 29, 34, 51, 55, 63, 67
3.6 1, 3, 4, 7 - 43 odd, 57, 58*

4.1 1 - 7 all, 11 - 14 all, 15 - 27 odd, 39, 40, 57*, 63-66
4.2 1 - 9 odd, 15, 16, 19, 21, 24, 25, 37 - 47 odd, 51 - 59 odd
4.3 1 - 5 odd, 9, 11, 19, 25, 27-30, 31-35 odd, 39, 45-55 odd
4.4 1 - 6 all, 7 - 13 odd, 17 - 20 all, 21 - 27 odd, 43, 53*, 54*, 55*
4.5 1 - 27 odd, 43, 50*, 53*
4.8 1 - 7 odd, 15, 16, 19, 21, 27*, 29*, 30*, 31*, 35*, 36*

5.2 1, 11 - 25 odd, 33, 43, 45, 53
5.3 1 - 5 odd, 15-59 odd, 71, 77, 78*
10.1 3 - 17 odd, 23, 41, 42, 43*, 45 - 53 odd, 62

Starred problems are more challenging, or more theoretical.

Solution Manual available at:
http://mathstat.fiu.edu/useful-information/math-resources/calculus-ii