SURVEY OF CALCULUS II

MAC 2234

3 CREDITS

SPRING 2018

INSTRUCTOR: Dr. Kevin Knudson, 365 Little Hall, kknudson@ufl.edu, 294-2397

OFFICE HOURS: TBD in Canvas

COURSE TA OR COORDINATOR: Jason Nowell, jnowell@ufl.edu

OFFICE HOURS: TBD in Canvas

COURSE WEBSITE: http://elearning.ufl.edu

COURSE COMMUNICATIONS: Students are advised to contact the instructor via email to kknudson@ufl.edu for all class issues.

REQUIRED OR RECOMMENDED TEXTBOOKS: Tan, Applied Calculus, 9ed and Tan, Finite Mathematics, 11ed, custom UF edition

MATERIALS AND SUPPLIES FEES: N/A

COURSE DESCRIPTION: Sequences, geometric and Taylor series; systems of linear equations, Gaussian elimination, matrices, determinants and vectors; partial differentiation, multiple integrals; applications to marginal analysis, least-squares and Lagrange multipliers.

PREREQUISITE KNOWLEDGE AND SKILLS: Minimum grade of C in MAC2233. Students should have a solid working knowledge of the concepts of first semester calculus, including the definition of the derivative, calculations of derivatives of elementary functions, applications of the derivative, exponential and logarithmic functions. A thorough grasp of algebra is assumed.

COURSE GOALS AND/OR OBJECTIVES: By the end of this course, students will understand concepts of integral calculus, applications of differential equations, the
calculus of functions of several variables, systems of linear equations, and linear programming problems with a focus on applications in business, accounting, and finance.

**INSTRUCTIONAL METHODS:** Students will learn material via online lectures. These come in two varieties: (i) presentations of the material using prepared slides, and (ii) examples worked by hand by the instructor, captured on video. Students are expected to read the corresponding sections in the text, work practice and homework problems, and successfully complete associated quizzes. Exams will be given online and monitored by ProctorU.

**COURSE POLICIES:**

**ATTENDANCE POLICY:** Students are expected to keep up with the schedule of lectures, homework, and quizzes provided on the course calendar. Should a student need to withdraw from the course, the last day to do so is April 13, 2018. Requirements for class attendance and make-up exams, assignments, and other work in this course are consistent with university policies that can be found at: [https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx](https://catalog.ufl.edu/ugrad/current/regulations/info/attendance.aspx)

**QUIZ/EXAM DATES/POLICIES:** Quizzes are due by 11:59 pm on Sunday nights each week; consult the course calendar for each assignment date. The exams will be given in WebAssign or directly in Canvas—exact instructions will be given well in advance. Students must have a working web camera so that ProctorU may verify secure testing conditions and monitor each exam. The dates of the exams are:

Exam 1: Wednesday, February 7

Exam 2: Wednesday, March 14

Exam 3: Wednesday, April 4

Final Exam: Wednesday, April 25

**MAKE-UP POLICY:** Make-up exams are given only for extreme unforeseen circumstances. In case of illness, documentation will be required. For technological problems, see the Getting Help section below.

**ASSIGNMENT POLICY:** All assignment deadlines will be clearly indicated on the course calendar in Canvas. Late assignments will not be accepted
COURSE TECHNOLOGY: Online homework will be assigned using WebAssign. A link to this will be provided from within Canvas. For technical issues related to Canvas or other UF technology, contact the UFIT Help Desk.

- [http://helpdesk.ufl.edu](http://helpdesk.ufl.edu)
- (352) 392-HELP - select option 2

ONLINE COURSE EVALUATION: Students are expected to provide feedback on the quality of instruction in this course by completing online evaluations at [https://evaluations.ufl.edu](https://evaluations.ufl.edu). Evaluations are typically open during the last two or three weeks of the semester, but students will be given specific times when they are open. Summary results of these assessments are available to students at [https://evaluations.ufl.edu/results](https://evaluations.ufl.edu/results).

UF POLICIES:

UNIVERSITY POLICY ON ACCOMMODATING STUDENTS WITH DISABILITIES: Students with disabilities requesting accommodations should first register with the Disability Resource Center (352-392-8565, [www.dso.ufl.edu/drc](http://www.dso.ufl.edu/drc)) by providing appropriate documentation. Once registered, students will receive an accommodation letter which must be presented to the instructor when requesting accommodation. Students with disabilities should follow this procedure as early as possible in the semester.

UNIVERSITY POLICY ON ACADEMIC CONDUCT: UF students are bound by The Honor Pledge which states, “We, the members of the University of Florida community, pledge to hold ourselves and our peers to the highest standards of honesty and integrity by abiding by the Honor Code. On all work submitted for credit by students at the University of Florida, the following pledge is either required or implied: "On my honor, I have neither given nor received unauthorized aid in doing this assignment." The Honor Code ([http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/](http://www.dso.ufl.edu/sccr/process/student-conduct-honor-code/)) specifies a number of behaviors that are in violation of this code and the possible sanctions. Furthermore, you are obligated to report any condition that facilitates academic misconduct to appropriate personnel. If you have any questions or concerns, please consult with the instructor or TAs in this class.

CLASS DEMEANOR OR NETIQUETTE: All members of the class are expected to follow rules of common courtesy in all email messages, threaded discussions and chats. A
guide to online etiquette is available at http://teach.ufl.edu/wp-content/uploads/2012/08/NetiquetteGuideforOnlineCourses.pdf

GETTING HELP:

For issues with technical difficulties for Canvas, please contact the UF Help Desk at:

- http://helpdesk.ufl.edu
- (352) 392-HELP (4357)
- Walk-in: HUB 132

Any requests for make-ups due to technical issues MUST be accompanied by the ticket number received from the Help Desk when the problem was reported to them. The ticket number will document the time and date of the problem. You MUST e-mail your instructor within 24 hours of the technical difficulty if you wish to request a make-up.

Other resources are available at http://www.distance.ufl.edu/getting-help for:

- Counseling and Wellness resources
- Disability resources
- Resources for handling student concerns and complaints
- Library Help Desk support

Should you have any complaints with your experience in this course please visit http://www.distance.ufl.edu/student-complaints to submit a complaint.

GRADING POLICIES:

METHODS BY WHICH STUDENTS WILL BE EVALUATED AND THEIR GRADE DETERMINED

INFORMATION ON CURRENT UF GRADING POLICIES FOR ASSIGNING GRADE POINTS:

- General information about UF grading policies may be found at https://catalog.ufl.edu/ugrad/current/regulations/info/grades.aspx
<table>
<thead>
<tr>
<th>Assignment</th>
<th>Points or percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Online Homework (WebAssign)</td>
<td>40</td>
</tr>
<tr>
<td>Weekly Quizzes (drop lowest three)</td>
<td>60</td>
</tr>
<tr>
<td>Lecture Quizzes (drop lowest ten)</td>
<td>40</td>
</tr>
<tr>
<td>Exams (x3)</td>
<td>240</td>
</tr>
<tr>
<td>Final Exam</td>
<td>120</td>
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<tr>
<td><strong>Total</strong></td>
<td>500</td>
</tr>
</tbody>
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**GRADING SCALE:** The WebAssign homework assignments are worth 4 points each. There are 13 of them, but homework counts only 40 points in your total grade. During each week you will take several short lecture quizzes and one weekly quiz. Lecture quizzes are worth 2 points each; the lowest 10 scores will be dropped. Weekly quizzes are worth 6 points each; the lowest three scores are dropped. There are three exams worth 80 points each and a final exam worth 120 points. IF IT HELPS, you may substitute your final exam score for the lowest exam score (rescaled appropriately, of course, to compensate for the disparity in point values). Your grade is then determined by the total number of points out of 500 according to the following chart.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Points Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>450 – 500 points</td>
</tr>
<tr>
<td>A-</td>
<td>435 – 449 points</td>
</tr>
<tr>
<td>B+</td>
<td>420 – 434 points</td>
</tr>
<tr>
<td>B</td>
<td>400 – 419 points</td>
</tr>
<tr>
<td>B-</td>
<td>385 – 399 points</td>
</tr>
<tr>
<td>C</td>
<td>335 – 369 points</td>
</tr>
<tr>
<td>C-</td>
<td>320 – 334 points</td>
</tr>
<tr>
<td>D+</td>
<td>300 – 319 points</td>
</tr>
<tr>
<td>D</td>
<td>285 – 299 points</td>
</tr>
<tr>
<td>D-</td>
<td>270 – 284 points</td>
</tr>
</tbody>
</table>
C+ | 370 – 384 points | E | 0 – 269 points

**NOTE:** A grade of C- is not considered a passing grade for the purposes of degree completion or meeting prerequisites.

If you have a concern about a particular assignment grade, you must discuss it with the instructor or TA within one week from the posting of the grade. Disputed points will not be reviewed at the end of the term.

**COURSE SCHEDULE:**

**CRITICAL DATES:** Consult calendar in Canvas for exam dates.

**A WEEKLY SCHEDULE OF TOPICS AND ASSIGNMENTS (REQUIRED):**

See the online calendar in Canvas for a complete schedule of assignments.

**Disclaimer:** This syllabus represents my current plans and objectives. As we go through the semester, those plans may need to change to enhance the class learning opportunity. Such changes, communicated clearly, are not unusual and should be expected.