

**MA 241-012: Calculus II**  
**Spring 2016, TR 6:00-7:50p, SAS 2235**

**Instructor:** Michael Weselcouch

*Office:* LAU #202

*Office Hours:* R 3:30-4:30p, F 1:45-2:45p and by appointment

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**Course Description.** MA 241 Calculus II is the second of three semesters in a calculus sequence for science and engineering majors. The primary goals of the course are to give students familiarity and facility with the techniques and applications of integration, elementary differential equations, sequences, series, power series, and Taylor's Theorem. Students will also use computational tools.

**Required Materials.**

- (1) *WebAssign access code:* You must purchase access to homework assignments and study materials via WebAssign at <http://www.webassign.net/ncsu/>.
- (2) *Textbook:* The textbook is available for download on WebAssign.
- (3) *Five small blue "Examination" booklets:* Available for purchase at campus bookstore.

Submit *blank* books to instructor before the first exam: do not write anything on the books.

A scientific calculator is recommended but not required. Graphing calculators will **not** be allowed.

**Structure and Grading.** Letter grading follows the +/- 10 point scale below left. All other grading in accordance with University policy. Grades will be determined as shown below right.

| Grading Scale |    |          |   |          |    | Component           | Weight |
|---------------|----|----------|---|----------|----|---------------------|--------|
| 98-100        | A+ | 93-97.99 | A | 90-92.99 | A- | WebAssign           | 13%    |
| 87-89.99      | B+ | 83-86.99 | B | 80-82.99 | B- | 5 Maple Assignments | 7%     |
| 77-79.99      | C+ | 73-76.99 | C | 70-72.99 | C- | 4 In-class Tests    | 56%    |
| 67-69.99      | D+ | 63-66.99 | D | 60-62.99 | D- | Final Exam          | 24%    |

**WebAssign.** WebAssign homework assignments are obtained, submitted, and graded online at <http://www.webassign.net/ncsu/>. With the exception of the introductory assignments, WA homework are due at **11pm** on the night before the associated in-class exam. It is very important to keep up with this work and not save it for the last minute: WebAssign composes a large portion of your final grade and no make-up work is available for missed assignments. While assignments are not due until the night before an exam, **I highly recommend you start work on homework as soon as we cover the material in class.** I also recommend that you print each assignment and work it with pencil and paper before submitting: you will be required to show all work on exams, and homework is great practice!

**Maple.** Maple is a powerful mathematical software program that we will use to complement our paper-and-pencil computation. Assignments #1-5 are obtained, submitted, and graded online at <http://emarker.math.ncsu.edu/CalculusWithMaple/>, where help files can also be found. For more assistance, go to the MMC in SAS #2103/2105. The software is available for FREE to registered NCSU students on all campus computers, and online via the Virtual Computing Lab.

**Tests.** The 4 in-class tests are closed-book, closed-note, with no graphing calculators permitted.

**Test #1:** Tuesday, February 2, covering Sections 0-1.3

**Test #2:** Thursday, February 25, covering Sections 2.1-3.1

**Test #3:** Thursday, March 24, covering Sections 3.2-4.2

**Test #4:** Tuesday, April 19, covering Sections 4.3-4.8

**Final:** Thursday April 28, 6:00-9:00 pm

**Test Make-up Policy.** Test make-ups are administered in accordance with University policy. Anticipated, excused absences (such as NCSU obligations, required court attendance, and religious observance) must be reported to the instructor with appropriate certification *well before* the scheduled test date. Legitimate emergency absences must be reported with appropriate documentation within one week of returning to class. No other make-ups will be given.

**Corrections to Grading.** If you think an error may have been made in the grading of your test, carefully review the answer key posted on Moodle and then contact the instructor **within 1 week of the test's return** with your question. **Do NOT alter the original work.**

**Final Exam.** The final exam date is scheduled by the University for **April 28, 6-9** in SAS 2235 and is non-negotiable unless you have 3 exams within 24 hours. Determine as early as possible if that is the case, as you must go through the registrar and math department to reschedule. The final is CUMULATIVE: it will cover all material from Tests #1-4 as well as Section 4.9.

**Attendance Policy.** Attendance will be taken at all classes per NCSU policy but does not count towards the course grade. Periodically I may give a worksheet or group activity in class. These will be assigned at the instructor's discretion and not be announced in advance, but will only affect your grade positively- there is no penalty for missing the assignment. In addition, **if you have 3 or fewer total absences (excused/unexcused) and attend all tests, you may replace your lowest in-class test score with your score on the final exam.**

**Accommodations.** Reasonable accommodations will be made for students with verifiable disabilities. To take advantage of available accommodations, students must register with Disability Services for Students at <http://www.ncsu.edu/dso/> and then **meet with the instructor.**

**Code of Student Conduct.** All students are expected to adhere to the University's regulations on academic integrity. Documentation of violations will be submitted to the Office of Student Conduct. [http://www2.ncsu.edu/ncsu/stud\\_affairs/policies/code95.html](http://www2.ncsu.edu/ncsu/stud_affairs/policies/code95.html).

**Resources for Assistance.** Each of you is starting this course as an A student and can absolutely succeed as long as you take responsibility for seeking help as soon as you need it. Study groups are highly recommended: your peers are excellent resources. In addition, instructor office hours exist for the sole purpose of helping students! Effectiveness is maximized if you arrive with specific questions in hand. For virtual assistance, a class Moodle site will be maintained with course announcements, lecture materials, and a discussion forum. **If emailing the instructor directly, please include MA 241 in the subject line and your full name in the message.** Free drop-in tutoring and Maple help is available at the MMC in SAS 2103/2105 weekdays 8a-5p.

**Tentative Course Schedule.** Subject to change: **up-to-date schedule kept on Moodle.** In the due dates below, Maple assignments are abbreviated as HW and WebAssign assignments are abbreviated as WA.

| WEEK OF    | LECTURE MATERIAL                     | DUE DATES |
|------------|--------------------------------------|-----------|
| Thu Jan 7  | §0                                   |           |
| Tue Jan 12 | §1.1-1.2                             |           |
| Tue Jan 19 | §1.3                                 |           |
| Tue Jan 26 | §1.3, Review                         |           |
| Tue Feb 2  | <b>Test #1 (Tue Feb 2), §2.1-2.2</b> |           |
| Tue Feb 9  | §2.3 - 2.5                           |           |
| Tue Feb 16 | §2.5 - 2.6                           |           |
| Tue Feb 23 | <b>Test #2 (Thu Feb 25), §3.1</b>    |           |
| Tue Mar 1  | §3.3-3.4                             |           |
| Tue Mar 15 | 3.5-4.1                              |           |
| Tue Mar 22 | §4.2 <b>Test #3 (Thu Mar 24)</b>     |           |
| Tue Mar 29 | §4.3-4.4                             |           |
| Tue Apr 5  | §4.5-4.6                             |           |
| Tue Apr 12 | §4.7-4.8                             |           |
| Tue Nov 24 | <b>Test #4 (Tue Apr 19)</b>          |           |
| Tue Dec 1  | §4.9                                 |           |
| Thu Apr 28 | <b>Final Exam Thu Apr 26, 6-9p</b>   |           |