

**COURSE DESCRIPTION**  
**CALCULUS I**  
**MA 125–8C, 31922**  
**SPRING 2013**

DEPARTMENT OF MATHEMATICS  
UNIVERSITY OF ALABAMA AT BIRMINGHAM

**Course Instructor:** Dr. Carmeliza Navasca  
**E-mail:** cnavasca@uab.edu  
**Office:** CH 475B  
**Phone:** (205) 934-8621  
**Office Hours:** TueThu 2:30–3:30 PM, Wed 3:30–4:30 PM (or by appointment)

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**Course Info**

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**Meeting times:** TueThu, 5:00–6:50 PM

**Meeting location:** CH 443

**Prerequisite:** Grade of C or better in MA 106, MA 107 or equivalent. *Any student who has not fulfilled the prerequisite will be dropped from the class.*

**Credits:** 4 semester hours

**Textbook:** *Essential Calculus — Early Transcendentals, Second Edition* by James Stewart, Thomson-Brooks/Cole, 2013; Topics to be covered: Chapters 1-4.

Below is the link to the personalized website for UAB Calculus where students can purchase their course materials directly from Cengage Learning at a discount. <http://www.cengagebrain.com/micro/5PI-20WN>

- Option #1: Loose leaf bundle (3-ring binder) version of the Stewart textbook packaged together with Enhanced WebAssign access (includes full eBook). MICROSITE PRICE \$120
  - Option #2: eBook only: access to Enhanced WebAssign student will use eBook available within the platform and not purchase a printed textbook. MICROSITE PRICE \$95
  - Option #3: Hardbound bundle: hardbound version of the full textbook packaged together with Enhanced WebAssign access (includes full eBook). MICROSITE PRICE \$156
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**Important Dates**

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**First day of our class:** January 10, 2013

**Last day to drop without paying full tuition:** January 26, 2013

**Martin Luther King Holiday:** January 21, 2013

**Spring Break:** March 17–23, 2013

**Last day to withdraw with a “W”:** March 28, 2013

**Last day of our class:** April 30, 2013.

**Major exams (tests):**  
Test I: Tuesday, January 29, Sections: 1.1–1.6  
Test II: Tuesday, February 26, Sections: 2.1–2.7  
Test III: Thursday, March 28, Sections: 2.8, 4.6, 3.1–3.3, 3.5, 3.7  
Test IV: Thursday, April 25; Sections: 4.1–4.5, 4.7

**Final exam: Saturday**, May 4, 2013, 4:30–7:00 p.m. (Location to be announced.)

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### Course Policies

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- Please make sure that you are able to receive e-mail through your Blazer-ID account. Official course announcements may be sent to that address.
  - If you are contacted by the Early Alert Program, you should consider taking advantage of the services it offers. Various services to assist you are also listed in the *Student Resources* section of the *Blazernet* (<http://uab.edu/blazernet>) website.
  - If you wish to request a disability accommodation please contact DSS at 934-4205 or at [dss@uab.edu](mailto:dss@uab.edu).
  - The two lowest quiz grades and the two lowest homework grades will be dropped to account for any missed assignments due to illness or any other circumstance. If a test is missed due to a serious verifiable circumstance or official university business, the test grade will be replaced with the properly rescaled final exam score. You must contact the instructor of such circumstances before the exam takes place.
  - No books, notes, or calculators will be allowed during any of the tests or quizzes.
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### Objectives of the Course

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Upon successful completion of the course, a student

- (1) understands limits from a numerical, graphical, and analytic point of view;
  - (2) can use limits to define the concepts of continuity and differentiability;
  - (3) can demonstrate a solid understanding of the major results of differential calculus;
  - (4) can apply the rules of differentiation;
  - (5) is able to apply derivatives to problems related to rates of change, linear approximations, optimization, and curve sketching; and
  - (6) knows the concepts of antiderivatives;
  - (7) can handle beginning distance and area problems.
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### Methods of Teaching and Learning

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- Class meetings of 100 minutes consisting of lectures and discussions of examples and homework problems. Time also includes quizzes and four in-class tests.
  - Some time will be devoted to Labs where students work practice problems.
  - Students are expected to undertake at least 10 hours of private study and homework per week.
  - The online homework system WebAssign (<http://www.webassign.net/>) will be used (look for more information below).
  - The online class management system Blackboard (Bb) (<http://www.uab.edu/bblearn/>) will be used to post important handouts, class announcements, practice exams, grades and other pertinent links. Students should log in to Bb at least once a week! Students can also download the Blackboard Mobile Learn App for accessing Bb on-the-go via smartphones and ipads.
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### Assessment Procedures

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- Student achievement will be assessed by the following measures:

- **Regular online homework.** Homework will be due on most Wednesdays. There will be no extension of deadlines for any reason (however, the lowest two grades will be dropped). Feedback is provided when wrong answers are given. Students are encouraged to retake the homework problems (with randomly changed parameters) until they obtain correct answers. A limited number (at most 3) of takes is allowed during the week in which the set is available. Homework contributes 10% to the course average. Problems on tests are modeled after homework problems. Staying on top of homework is therefore extremely important.
- **Unannounced/announced quizzes.** Quiz problems are similar to the homework problem sets. This allows students to gauge whether they are ready to work problems in a test situation. Quizzes contribute 10% to the course average. Lowest two quiz grades will be dropped.
- **Four in-class tests** including short questions for which either full credit or no credit is awarded (Part I) as well as problems requiring in depth understanding (including word-problems) for which partial credit is awarded where appropriate. Each test contributes 10% to the course average.
- **A 150-minute comprehensive final examination** including Part I and Part II type problems. The final contributes 40% to the course average.

Grading Scheme: 10% homework, 10% quiz, 10% test 1, 10% test 2, 10% test 3, 10% test 4, 40% final exam

- Your course performance is your course average (including the final exam score). This is a number between 0 and 100.
- Your final grade is determined according to the following table:
 

Course performance:	88-100	75-87	62-74	50-61	below 50
Final Grade:	A	B	C	D	F
- In addition your grade maybe raised by a strong performance on the final exam (normally at most one letter grade).

### Tips

- Help is available in the Math Learning Lab (HH 202); M–Th 9–8, F 9–5. Here’s a direct link to the Math Learning Lab Schedule (<http://www.uab.edu/mathematics/ml1/math-learning-lab-schedule>) and to the Calculus Tutoring Schedule (<http://www.uab.edu/mathematics/ml1/tutoring-schedule>). Note that all tutors in the room HH 202 are capable of answering Calculus problems.
- By working steadily and regularly, you will increase your chances to succeed in this course.
- Remember, being a full-time student is a full-time job.

### How to get started on Enhanced WebAssign

- (1) Go to <http://www.webassign.net> and click on *I HAVE A CLASS KEY* in the *signin* link.
- (2) Enter the following course key:

**uab 1970 2747**

and proceed. (If prompted for your institution, enter *uab*)

- (3) When prompted to purchase an access code, select “... **trial period**” (Do not purchase an access code at this time. However, you must purchase an access code within two weeks for

you to continue using the system beyond the two-week trial period. The system will prompt you to enter your access code when the deadline approaches. Your book may have an access code bundled with it. You must use it.)

- (4) After your first registration, you can sign in as returning user.
- (5) Should you run into technical problems Enhanced WebAssign provides technical support online and/or by phone.

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### Sections to be Covered

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*Essential Calculus — Early Transcendentals*, Second Edition, by James Stewart, Thomson-Brooks/Cole, 2013.

- Chapter 1: 1.1 – 1.6.
- Chapter 2: 2.1 – 2.8.
- Chapter 3: 3.1 – 3.3, 3.5, 3.7.
- Chapter 4: 4.1 – 4.7.

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### Academic Misconduct

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UAB Faculty expects all members of its academic community to function according to the highest ethical and professional standards. Academic dishonesty and misconduct includes, but is not limited to, acts of abetting, cheating, plagiarism, fabrication, and misrepresentation. Candidates are expected to honor the UAB Academic Code of Conduct as detailed in the most current UAB Student Catalog. Please consult this resource for additional information regarding the specific procedures to be undertaken when a student violates the UAB Academic Code of Conduct. See <http://main.uab.edu/Sites/undergraduate-programs/general-studies/academic-success/67537/>

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### Non-harassment, Hostile Work/Class Environment

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The UAB College of Arts and Sciences expects students to treat fellow students, their Course Instructors, other UAB faculty, and staff as adults and with respect. No form of hostile environment or harassment will be tolerated by any student or employee.

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