

**MATH1402 CALCULUS I**  
**KENTUCKY WESLEYAN COLLEGE**  
**SPRING 2016**

**Professor:** Kyle Besing

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**Office Hours:** Monday, Wednesday, and Friday 9:00 – 10:50 am  
Tuesday and Thursday 8:00 – 10:00 am  
or by appointment

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**Course Description:** Differential and integral calculus with applications, including an introduction to differential equations.

**Meeting times:** Monday, Wednesday, and Friday 1:00 – 1:50 pm  
Tuesday 1:00 – 2:15 pm

**Meeting location:** Administration Building Room 210

**Credits:** 4 semester hours

**Textbook:** *Calculus for Scientists and Engineers Early Transcendentals, Books a la Carte Edition plus MyMathLab* by Briggs, Cochran, and Gillett. (ISBN: 9780321785374)

**Material Covered:** Selected Sections from Chapters 1–7.

**MyMathLab:** This course requires an access code to MyMathLab. Included with that access code is an electronic version of the textbook. A physical copy of the book is not required.

**Course ID:** The Course ID needed to register for this class in MyMathLab is **besing05538**. Go to <http://www.mymathlab.com> and sign up for the course using this Course ID and your access code.

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**Attendance:** Attendance is an integral component of learning, successful completion of courses and the professional work ethic. Excessive absences in classes can result in lowered grades and reduction or loss of financial aid. Attendance is reported each class period to the Wesleyan CARES TEAM.

**Homework:** Homework will be assigned regularly through MyMathLab. Questions about homework should be discussed with the professor either during class or office hours.

**Tests:** There will be three one hour tests as well as a comprehensive final exam.

**Exam Schedule (Tentative):** Note these dates are subject to change.

- Test 1 Tuesday, February 16
- Test 2 Wednesday, March 16
- Test 3 Monday, April 18

**Final Exam:** Friday, April 29 from 8:00–10:00 am

**Grading:** Regular tests are worth 150 points and the final exam will be worth 300 points. Homework will count for an additional 250 points for a total of 1000 total points possible. The course grade will be determined by the percentage of total points earned throughout the semester.

**Grading Scale:** The following percentages will guarantee at least the associated letter grade. A 90%, B 80%, C 70%, and D 60%. Earning less than 60% of the possible points can result in a grade of F.

**Course Policies:** The goal of class meetings is to learn. You should always act in a way that does not inhibit your learning or the learning of your classmates. Specifically,

- Cell phones are prohibited in the classroom, unless they are turned off and inside a container, like a backpack.
- Headphones connected to listening devices are forbidden in the classroom.
- Excessive talking with other students is disruptive to instruction and will not be tolerated.
- A respectful conduct towards fellow students and your instructor is expected at all times.
- Excused absences will need to be arranged at least 24 hours in advance. Medical emergencies are an exception, but written documentation will need to be produced in this case. Assignments will not be made up for unexcused absences.
- Anyone in violation of course policies will be warned once, then asked to leave the classroom.

**Academic Misconduct Policy:** Kentucky Wesleyan College expects its students to adhere to the highest standards of academic honesty. Any student who, beyond a reasonable doubt, violates these standards is subject to disciplinary action by the faculty member in whose class the academic dishonesty has occurred and by proper college authorities. Examples of acts constituting academic dishonesty include (but are not limited to) the following:

- (1) Knowingly participating in fraudulent activities relating to examinations, assignments or projects: e.g.
  - (a) Plagiarism - claiming or implying that the ideas or works of others are one's own original thoughts (includes making use of reports, term papers, films or other writing advertised for sale).
  - (b) Writing reports, etc., or completing projects for others to submit for evaluation.
  - (c) Submitting work that has been submitted in another class (unless there is written permission and it is acceptable to the instructor).
  - (d) Taking examinations for another student.
  - (e) Any form of cheating during the administration of an examination.
  - (f) Intentionally missing examinations to obtain information from class members for illegitimate make-up of examinations.
  - (g) Providing material or information to another person with knowledge that these materials or information would be used improperly.
- (2) Theft of examinations, projects, grade books, etc. Alteration of grades or scores on examinations, reports or in grade books. Procedures and penalties: A faculty member who finds beyond a reasonable doubt that a student has committed an act of academic dishonesty shall have the option after consultation with the academic dean of imposing one of the following penalties:
  - (a) Substitute examination or assignment.
  - (b) A grade of "F" for examination or assignment.

- (c) Expulsion from the class with a grade of “F” for the course.
- (d) Recommendations to the academic dean that the student be expelled from the college.

In addition to being honest, Kentucky Wesleyan students are expected to be civil and respectful to their instructors and fellow students. The faculty member may handle first-time, relatively minor offenses by himself or herself. The faculty member should include the Vice President of Academic Affairs in more serious cases. The Vice President of Academic Affairs may withdraw the student from the class and/or file disciplinary charges to the Vice President of Student Services. See “Student Code of Conduct,” standard #4, in the KWC Student Handbook.

Procedures for review or appeal of penalties may be found in the Kentucky Wesleyan College Student Handbook.

**Disability Support Statement:** *“Kentucky Wesleyan College is committed to providing access to programs and services for qualified students with disabilities. If you are a student with a disability and require accommodations to participate and complete requirements for this class, notify me immediately and contact Dr. Leah Hoover at the Office of Disability Services (FOB #15 or 270-852-3212) for verification of eligibility and determination of specific accommodations.”*

**Tentative Schedule:** The following is a tentative schedule which is subject to change as the semester progresses.

- Test 1 - Tuesday, February 16
  - Sections 2.1, 2.2, 2.3, 2.4, 2.5, 2.6, 3.1, 3.2, 3.3, 3.4, 3.6, 3.7
- Test 2 - Wednesday, March 16
  - Sections 3.8, 3.9, 3.10, 4.1, 4.2, 4.4, 4.6
- Test 3 - Monday, April 18
  - Sections 4.9, 5.1, 5.2, 5.3, 5.5, 6.2, 6.3, 6.4

Section 7.2 will be included on the Final Exam. Further, sections may be skipped or new sections added as time permits.

**Student Learning Objectives:** Following this course, students should have met the following Program Goals:

- **Program Goal #1** Perform calculations efficiently and correctly.
  - 1A - Derivatives and Integrals
- **Program Goal #3** Apply Mathematics to other disciplines.
  - 3A - Mathematical Modeling

**Course Learning Outcomes:** Following this course, students should have met the following course learning outcomes.:

- **Course Learning Outcome 1** Students will be able to calculate limits, derivatives, integrals, stating, using and applying relevant theorems( MVT, FTC).
- **Course Learning Outcome 2** Students will analyze mathematical statements for their validity and justify their conclusions.
- **Course Learning Outcome 3** Students will utilize their algebra, geometry, and trigonometry knowledge to solve application problems.
- **Course Learning Outcome 4** Students will work application problems using derivatives, integrals, and series. For example, this can include applications to physics, optimization, approximation.

**Disclaimer Statement:** The professor reserves the right to make changes to the syllabus, including project due dates and test dates (excluding the officially scheduled final examination), when unforeseen circumstances occur. These changes will be announced as early as possible so that students can adjust their schedules.