Welcome to Calculus II! This is the second course in the fundamental sequence for the math major. It is a continuation of Math 136. Calculus is needed in many scientific and business fields. We will also study a few numerical applications in this course. The best way to succeed here is to keep up! Do the homework every night and make use of my office hours and those of the recitation instructor. I am always glad to see you. If I did not like talking to students, I would not have chosen teaching as a profession. Office hours are your time rather than mine. If my office hours conflict with your classes, we can occasionally make appointments. Also feel free to call or email me.

Online homework will be assigned daily. We will be using WebAssign which includes the ebook for the course. The following paragraphs describe the procedures followed by the mathematics department and the WKU bookstore for billing and the Day One Access program which is also sometimes called Automatic Delivery.

Important Textbook Information:

(Please read before purchasing anything for this course.)

This class participates in The WKU Store’s “Day One Access” program. As part of this program, the e-book version of the required textbook along with access to Webassign will be provided for you automatically. For the exact method of delivery, please wait to hear from your instructor.

The cost of the e-book and Webassign is $25.50 and it will be placed on your student bill on Tuesday, 8/29/17. Students who stay enrolled in Day One Access are also eligible to purchase an optional low-cost looseleaf copy of the textbook for only $25.00. (Students who opt-out of Day One Access are not eligible to purchase this low-cost looseleaf version of the book.)
Students who wish to opt-out of this program may do so. The deadline to opt-out is Monday, 8/28/17. By opting out you agree to have your e-book and WebAssign access terminated and you will be responsible to obtaining the required materials on your own. If you have purchased the optional low-cost looseleaf book from The WKU Store, you must return it before the opt-out deadline in order complete the opt-out process. It must also be in its original shrink wrap.

For more information about this program and for information on how to opt-out, please visit the link below:

https://www.wkustore.com/t-day-one-access.aspx


ISBN for optional low-cost looseleaf copy: 9781337089760

The class key that you will need to be able to self-enroll in the WebAssign section is wkus 8525 9360. This section cannot be accessed until Aug. 14, but you should self-enroll as quickly as possible after that date since you will have homework assigned the very first day of class. You will also probably have a few computer assignments and there will be a few special honors problems on the exams and possibly a few special honors assignments. During recitation except on exam days you will have a chance to ask questions and see homework problems worked. This should be helpful to you since there may not be enough time to answer all of your questions during the MWF lecture sessions. Don’t hesitate to ask questions at any time, however. If I am notified ahead of time, I can arrange for a student to take an exam early but seldom late. Always call me if you know that you will be absent. Attendance is your responsibility and you cannot succeed in a fast-paced course like this one if you miss class. The last day to withdraw or change to audit is October 11.

The prerequisite for the course is a grade of C or above in math 136. That is a departmental requirement and I cannot waive it. You will also need a graphing calculator. I will be using the TI 84 plus CE in the classroom and that is the calculator that I would recommend for you. The TI Nspire with CAS is not allowed for this class and the other versions of the TI Nspire must be set to "Press to Test" mode when taking exams. We may also use the computer lab for a few days.

Learning Outcomes:

Upon completion of Math 137 a student will be expected to:

- Perform a number of sophisticated integration techniques.
- Apply integration techniques to certain real world problems.
• Handle improper integrals efficiently.

• Understand concepts involving sequences and series and be able to determine whether sequences and series converge.

• Have a basic knowledge of conics.

There will be four exams and a comprehensive final. The dates are below.

Exam I Thursday, Sept. 14
Exam II Tuesday, Oct. 10
Exam III Thursday, Oct. 26
Exam IV Thursday, Nov. 16
Final Monday, Dec. 4 8:00 – 10:00

Your grade will be determined as follows: Exams 60%, Homework 20%, Final Exam 20%.

Syllabus


(This text is included as an ebook in WebAssign, but you have the option of purchasing a loose-leaf version as well if you wish. The electronic version is the only format for the text that is required for the course.)

Math 137 requires at least 4 assignments that utilize technology such as Mathematica™.

Chapter 5: Integration 2 days
(Sections 5.8-5.9)

Chapter 7: Applications of Integration 7 days
(Sections 7.1-7.7)

Chapter 8: Integration Techniques, L’Hopital’s Rule, and Improper Integrals 8 days
(Use Mathematica™ for Section 8.6)

Chapter 9: Infinite Series 11 days

Chapter 10: Conics, Parametric Equations, Polar Coordinates 6 days

Technology: 2 days

Tests: 3-4 days

• The Learning Center (TLC) Should you require academic assistance with your WKU courses, The Learning Center (located in the Downing Student Union, 2141) provides free supplemental education programs for all currently enrolled WKU students. The Learning Center at Downing Student Union offers certified, one-on-one tutoring in over 200 subjects and eight academic skill areas by appointment or walk in. Online tutoring is offered to distance learners. TLC is also a quiet study area (with side rooms designated for
peer-to-peer tutoring) and a computer lab to complete academic coursework. Please call TLC in the Downing Student Union at (270) 745-5065 for more information or to schedule a tutoring appointment. www.wku.edu/tlc

Libraries:

1. WKU Libraries has subject specialist faculty members who work with every department and program on campus.

2. Students can make an appointment with the subject specialist faculty librarian any time they have a paper or project.

3. As your own personal librarian, the subject specialist library faculty member sit down with students and helps them get started with their research, makes sure the students know how to use the online resources, etc.

ADA Accommodation Statement

In compliance with University policy, students with disabilities who require academic and/or auxiliary accommodations for this course must contact the Student Accessibility Resource Center located in Downing Student Union, 1074. SARC can be reached by phone number at 270-745-5004 [270-745-3030 TTY] or via email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a faculty notification letter (FNL) from The Student Accessibility Resource Center.

Title IX Misconduct/Assault Statement

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKU’s Title IX Sexual Misconduct/Assault Policy (#0.2070) at https://wku.edu/eo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf and Discrimination and Harassment Policy (#0.2040) at https://wku.edu/policies/hr_policies/2040_discrimination_harassment_policy.pdf.

Under these policies, discrimination, harassment and/or sexual misconduct based on sex/gender are prohibited. If you experience an incident of sex/gender-based discrimination, harassment and/or sexual misconduct, you are encouraged to report it to the Title IX Coordinator, Andrea Anderson, 270-745-5398 or Title IX Investigators, Michael Crowe, 270-745-5429 or Joshua Hayes, 270-745-5121.

Please note that while you may report an incident of sex/gender based discrimination, harassment and/or sexual misconduct to a faculty member, WKU faculty are “Responsible Employees” of the University and MUST report what
you share to WKU’s Title IX Coordinator or Title IX Investigator. If you
would like to speak with someone who may be able to afford you
confidentiality, you may contact WKU’s Counseling and Testing Center at 270-
745-3159.