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Western Kentucky University

DEPARTMENT OF MATHEMATICS

MATH 137: CALCULUS II (Section A01)

Summer 2019

Syllabus date: May 16, 2019

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INSTRUCTOR:	Dr. Mikhail Khenner
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OFFICE HOURS:	MTWThF after the class, or by appointment

Course Description: Math 137 (4 hours) A second course in one-variable calculus including topics from analytic geometry. Methods of integration, sequences and series, polar and parametric functions. Includes lecture and recitation.

   Learning Outcomes:

1. Master analytical and simple computational techniques for calculation and approximation of proper and improper integrals

2. Determine when computational techniques are needed

3. Use the techniques to solve applications, such as areas, volumes, arc lengths, etc.

4. Learn and master techniques for convergence analysis of the infinite series, including power series and Taylor and Maclaurin series

5. Learn representations of functions by Taylor and Maclaurin series

6. Learn about parametic equations and polar coordinates, and learn/master how to use them for finding lengths, areas and volumes

Information, Announcements: Blackboard (BB); course site: CALCULUS II MATH 137 A01
Homework: Online, at webassign.net
Prerequisites: MATH 136 the with grade of C or better.
Course outline: Chapters 7-10 of the textbook.
Textbook: Calculus of a Single Variable: Early Transcendental Functions (with Webassign Access), 7th Edition, by Larson; ISBN for optional low-cost looseleaf copy: 281000002783B.
This course participates in The WKU Stores Day One Access program. This program is designed to provide immediate access to required materials for all students at prices cheaper than any other option. Required materials will be delivered to you automatically by enrolling in this course unless you choose to opt-out. By participating in this program, The WKU Store will bill your Student Billing account, and you will see a charge appear under this Term along with Tuition and Fees (Account Summary by Term under the Student Services tab) labelled as either The WKU Store Purchases or Day One Access after the Add/Drop period. For more information on this program or to opt-out of participation, go to our information page, www.wkustore.com/t-day-one-access.aspx or call (800) 444-5155. The cost of the e-book and Webassign is $25.50 and it will be placed on your student bill on Thursday, June 6. Students who stay enrolled in Day One Access are also eligible to purchase an optional low-cost looseleaf copy of the textbook for only $27.00. (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 Wednesday, June 5. 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 shrinkwrap.

WA Quick Start Guide is at webassign.net, go to Students, then Get Started. First, you'll need a class key, which enables you to create WA account and gives FREE access to online WA homework until June 16. This is called the grace period. After the grace period you'll need a paid-for access code to continue doing your homework. (This will be delivered automatically (with your ebook) on the 1st day of the course if you participate in Day One Access program.) The class key is:

wku 0464 6003

Using the key, you will create an account or log into your existing account and complete the process of self-enrollment into your WA section. Notice that after logging in with class key, you will not see your class until its start date on June 2.

- **POLICIES:**

  Scores and information about the current class standing: WA gradebook; all scores will be there in the raw and weighted forms and you'll see your current % and letter grade at all times. If you are uncertain about your class standing, you should pay a visit to my office and ask in person. I can't email or otherwise inform you of your standing due to Federal/State privacy laws. Also, I am NOT ANSWERING questions of the kind: "How many points do I need on future exam(s) or homework(s) to get C (or B, or A) in the class ?" It is YOUR responsibility to figure this out using the gradebook and weights (read on).

  Attendance will be checked at every lecture or recitation class.
  ≤ 5 absences from lectures: nothing is subtracted from your class total %-score;
  > 5 absences from lectures: a fraction of 5% that corresponds to the actual number of missed classes is subtracted from your class total %-score. Example: you missed exactly half of all classes; then 2.5% (1/2 of 5%) is subtracted.
  It is the responsibility of the student to find out what work and announcements he or she missed during an absence (ask the Instructor and check the Blackboard).

  Graphing calculators (TI-83 or 84) are allowed, unless they're advanced versions like TI-84Plus Silver Edition that are Calculus-capable. The TI-89, TI-92, and TI-Nspire (unless you have the 84 faceplate) are not allowed. **You are required to show supporting work for any partial credit on an exam. Answers alone (unless a question is multiple choice) are NOT sufficient for receiving partial credit.**

  Smartphones are absolutely disallowed on exams. During lectures it is up to you - I don't have patience to police the class every lecture. I will lecture the same way I always do even if there is only one student in the class who is listening. Same goes for laptops and other electronic devices.

  WA Homework: Homework accounts for **40%** of the total score (regular section). All homeworks are weighted equally; expect around 25 homeworks.
  Homework extensions (read carefully !): In WA, you can request one automatic extension per assignment *during 3 days after* the assignment's original due date. Automatic means that the instructor is not involved in granting an extension, WA grants it at your request. The original due date + 3 days is also the final cutoff to submit work with an automatic extension, even if the length of the extension would otherwise extend past this date and time. At any time you can request a manual extension (an email to the instructor will be sent, who will decide whether to grant extension or not). For each extension, automatic or manual, you loose 10% of the score for the part of the assignment completed after the original due date.

  Exams: There will be four traditional exams (on paper, partial credit given), including the final non-comprehensive exam. Each exam accounts for **15%** of the total. A notecard with formulas/notes (size: standard paper sheet, one side may be written on) and a TI 83/84 calculator are allowed on all exams. **The tentative dates for the first three exams are June 14, June 27, July 10**; instead of lecture classroom, these exams may be given in the Math Testing Center on the 2nd floor of COHH. In this case they can be taken within 2 days period around these dates. **Final exam date and time:** July 19, 8am-9:35am in the lecture classroom.

  Missing an exam: If you miss an exam for reason other than illness, emergency or athletics, your score for that missed exam will be zero, and you WILL NOT be allowed a makeup. Missed final exam automatically results in the grade of F, unless the instructor is notified in advance and allowed a make-up.

- **Grading Scale:**

$>= 90\%$	A
$>= 80\%$ and $< 90\%$	B
$>= 70\%$ and $< 80\%$	C
$>= 60\%$ and $< 70\%$	D
$< 60\%$	F

  Academic dishonesty (cheating, etc.) will not be tolerated; the instructor will not hesitate to take appropriate measures in order to penalize cheaters (like taking off points and even reporting a cheating student to an office).

- **Suggestions on how to survive a calculus class and succeed:**

  1. Do not allow yourself any slack in learning/working starting from the first day. Do not hope that if you lagged behind you'll catch up later - 9 out of 10 students do not catch up.
  2. Immediately clear out all questions you have with the instructor or the TA. This is what the office hours are for.
  3. Mastery of algebra is of paramount importance. It is not an overstatement to say that your survival in a calculus class hinges 90% on algebra, since solving any calculus problem involves algebraic and trigonometric identities and manipulations. I will try my best to answer your qustions on algebra, as patiently as I am capable of (with the latter I may fail or partially fail, and I apologize in advance for all such instances) but I can't TEACH algebra in any consistent way due to time limitations and other constraints. You may find better luck with such questions with your TA, or with student staffers in the Math help center. What is absolutely certain is this: to get a passing grade of C, your skills in algebra must be good enough, that you generally make an algebraic error in the SECOND half of any assigned problem.

Title IX Misconduct/Assault Statement:

Western Kentucky University (WKU) is committed to supporting faculty, staff and students by upholding WKUs Title IX Sexual Misconduct/Assault Policy (#0.2070) at wku.edu/eoo/documents/titleix/wkutitleixpolicyandgrievanceprocedure.pdf and Discrimination and Harassment Policy (#0.2040) at wku.edu/policies/hrpolicies/2040discriminationharassmentpolicy.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 WKUs 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 WKUs Counseling and Testing Center at 270-745-3159.

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, room 1074 of the Student Success Center. The phone number is 270.745.5004, or email at sarc.connect@wku.edu. Please do not request accommodations directly from the professor or instructor without a letter of accommodation from The Student Accessibility Resource Center.

The schedule, policies, and assignments in this course are subject to change in the event of extenuating circumstances or by mutual agreement between the instructor and the students.