MATH 232 – SECTION 008 – CALCULUS & ANALYTIC GEOMETRY II – SYLLABUS – FALL 2022

INSTRUCTOR: Dr. Ahmed Kaffel	**OFFICE**: EMS 434 **PHONE**: 414-229-9891
CLASS TIMES & LOCATIONS: Class # 16304, section 008, TR-5:30-7:20pm, Physics bdg 151	**EMAIL**: kaffel@uwm.edu **PHONE:** 414-229-9891 **OFFICE HOURS**: Tues 11-12:30 & Thurs 2:45-4, or by appointment.

PRE-REQUISITES:
A grade of C or better in Math 231, or a B or better in Math 213.
Note: Students who do not meet prerequisites according to PAWS will be dropped on Tuesday August 30th. Students who do not attend the first day of class or email their instructor, will be dropped on Friday September 9th.

Catalog Description: Continuation of Math 231. Applications of integration, techniques of integration; infinite sequences and series; parametric equations, conic sections, and polar coordinates.

Textbook: Essential Calculus (2nd Edition), by James Stewart, ISBN 978-1-133-11229-7.

Course materials: Instructor notes and practice problems with solutions will be shared with the students to prepare for all quizzes, homework assignments and exams. These notes should only be used as a supplement and not as an alternative to your personal notes. The instructor will help you to understand the material taught in the lectures and will also help you by doing some review problems before the exams. It is very important that you practice these examples.

IMPORTANT DATES:
Tuesday, Sept 6 – First day of classes.
Monday, Sept 12 – Math Department's last day to add a class.
Monday, Sept 19 – Last day to change among credit/no credit/audit status in PAWS.
Monday, Oct 3 – Last day to drop without a "W" (Withdrawn) on your record.
Thursday, Oct. 20, 5:30-7:20pm, Physics bdg 151 – Exam1
Sunday, Nov 13 – Last day to drop ("W" will be on transcripts). No student may drop after Nov 13 for academic reasons.
Tuesday, Nov. 22, 5:30-7:20pm, Physics bdg 151– Exam 2
Wednesday, Dec 14 – Last day of classes.
Thursday, Dec 15 – Study Day- No classes.
Tuesday, Dec. 20, 5:30-7:30 pm – Final exam

GRADING:
The final grade is based on a total of 500 points earned through taking quizzes (100 pts), two exams (100 pts each), and the comprehensive final exam (200 pts). There will be several quizzes throughout the semester and the lowest 2 quiz scores will be dropped. Your final grade will be based on your total points earned.
All quizzes, the two exams, and the comprehensive final exam are closed book, no notes, no calculator.
No makeups will be given except for exams missed for religious observance, military service, or a documented medical emergency.

Grading Scale:

A	A-	B+	B	B-	C+	C	C-	D+	D	D-
93	90	87	83	80	77	73	70	67	63	60

Grades for assignments and exams will be posted on Canvas. Please check your recorded grades regularly to monitor your progress in the course and to ensure accuracy of the recorded grades.

INCOMPLETES: In order to be given an incomplete, all the following conditions should be met:
   a) You are already passing the course with the work that has been completed.
   b) You have only a "little" work to be finished; and,
   c) You can give substantiation of illness or other unusual non-academic circumstances beyond your control that have prevented you from completing the course on time.

HOMEWORK and classroom policies
Homework is a tool for learning and should be done regularly to help practice the concepts discussed in class. The problems listed on the syllabus comprise the **minimum** amount of homework that should be attempted. Homework will be collected regularly and graded for completeness, work shown, and proper use of mathematical language and notation *(NOT correctness).* The total of your homework grades counts as one quiz grade and cannot be one of the dropped grades. Watching videos is NOT a substitute for working homework problems on paper and correcting and learning from your mistakes.
This class will be meeting face to face on Tuesday and Thursday 5:30-7:20pm**.** All campus members are responsible for following the Panther Community Health and Safety Standards. If you are sick, or have symptoms, please do NOT come to class.
You are expected to come to the class on time, be prepared to participate, ask questions, and be willing to learn Mathematics. Missing class almost always can result in poorer performance on quizzes, homework and exams. If you miss a class, make sure you obtain and learn the material you missed, and arrange to with another student in the class to share notes if lecture capture is not available.
If you miss class, you should strongly consider attending tutoring (live or virtual) to discuss the material in addition to your self-study program.
If we are unable to meet in person, class will be held synchronously, during the scheduled class time, via Zoom accessed through Canvas.

Course Outline (Subject to change)

Week	Textbook sections
Sept. 6, 8	Sections 7.1-7.2
Sept 13, 15	Sections 7.3, 6.1
Sept 20, 22	Sections 6.2
Sept 27, 29	Sections 5.8, 6.3
Oct 4, 6	Sections 6.6, 7.4
Oct 11, 13	Sections 7.6, 7.7
Oct 18, 20	Review, Exam1, *Oct 20,* 5:30-7:20pm, Physics bdg 151
Oct 25, 27	Sections 8.1-8.2
Nov 1, 3	Sections 8.3, 8.4
Nov 8, 10	Sections 8.5- 8.6
Nov 15, 17	Sections 8.7, Review Exam 2
Nov 22	Exam 2, Nov. 22, 5:30-7:20pm, Physics bdg 151
Nov 29, Dec 1	Sections 9.1-9.2
Dec 6, 8	Sections 9.3-9.4
Dec 13	Review for the Final exam
Dec 16	Final Exam Tuesday Dec. 20,2022, 5:30-7:30 pm

Suggested (Minimum) Homework Problems

5.8	1-37odd, 41-43all	Rev	CC 1-5; Ex 1-14, 17-20, 25-28; 43-46
Rev	CC 8; TF 16; Ex 61-76 all	8.1	1, 2, 3-31odd, 33-39odd, 41, 43
6.1	1-29odd, 33, 35, 41-45odd	8.2	1, 2, 3-27odd, 35-45odd, 57
6.2	1-35odd, 39-59odd	8.3	1-8all, 11-32 all (not 21,23,25,27,28)
6.3	1-33odd, 35-43odd	8.4	1-6all, 18, 19-39odd, 41, 43
6.5	1, 2, 7-16 any 3	8.5	1, 2, 3-21odd, 23, 25, 29a
6.6	1,2,5-31odd,33,41-47o, 48, 49, 53, 55	8.6	1, 2, 3-19odd, 25, 27, 35, 37
Rev	CC 1-4,6-8; TF 1-7, 10-14; Ex 1-49 odd	8.7	1-17odd, 27-35odd, 43, 45
7.1	1-19odd, 21	Rev	CC 1-11; TF 1-22; Ex 1-29, 36-51
7.2	1-21odd, 27, 28, 47	9.1	1-21odd, 22, 25, 27, 31
7.3	1-25odd, 29-32all, 33-41odd	9.2	1-15odd, 23-29odd, 33-43odd, 47
7.4	1-17odd	9.3	1-6 all, 7-21odd, 23-39odd, 46, 47-53odd
7.6	1, 2, 3, 9-17odd, 25-33odd	9.4	1-11odd, 15-25odd, 28, 29-35odd
7.7	1-15all, 33, 35, 39	Rev	CC 1-5; TF 1-7; Ex 1-40

Other pertinent information:
1. If a class must be cancelled, an announcement will be made in Canvas and posted outside the classroom door on Math Department letterhead.
2. Students with disabilities or who have an Eligibility Letter/Student Accommodation Plan should contact me early in the semester to discuss the assistance they may need.
3. Texting is not permitted during class time. Cell phones and smart watches should be turned off. Please give your FULL attention to the class for the duration of the class.
4. The minimum amount of time that an average student should expect to invest to successfully complete this course includes: 50 hours in class; 8 hours taking quizzes, tests and exams; 100 hours completing homework assignments; 35 hours studying for assessments. Total: 193 hours.
5. Drop-in tutoring is available via Collaborate Ultra through the Student Success Center (formerly PASS) in Bolton 180. Hours are posted here: https://uwm.edu/studentsuccess/
6. Academic Misconduct: The University has a responsibility to promote academic honesty and integrity and to develop procedures to deal effectively with instances of academic dishonesty. Students are responsible for the honest completion and representation of their work, for the appropriate citation of sources, and for respect of others' academic endeavors. Further information can be found at:
   http://uwm.edu/academicaffairs/facultystaff/policies/academic-misconduct/
7. If questions arise about the validity/source of work submitted on an exam, students may be asked to support and explain the solutions in a private meeting with the instructor.
8. Other important university policies can be found here:
   http://uwm.edu/secu/wp-content/uploads/sites/122/2016/12/Syllabus-Links.pdf
9. If you need assistance for any reason, please contact the Dean of Students Office (dos@uwm.edu)

Communication Plan (if we switch to online delivery)
- All course materials will be delivered through Canvas.
  See https://uwm.edu/canvas/students/
- All student work will be uploaded and submitted through Canvas.
- All formal communication will be through official UWM email only.
- We will have a synchronous (all at the same time) meeting through Canvas using Zoom at each of the scheduled class times. These sessions will be recorded and posted onto Canvas. Attendance is strongly encouraged. Students who are unable to attend a session should contact the instructor to explain their absence.
- Our class sessions will be audio-visually recorded for students who are unable to attend at the scheduled time. Students who participate with their camera engaged or who utilize a profile image are agreeing to have their audio/video or image recorded. Likewise, students who un-mute during class and participate orally are agreeing to have their voices recorded.
- All class video recordings will be hosted via Canvas only, and may NOT be shared, edited, or reposted to any form of social media or video repository.

Assessment Plan (if we switch to online delivery)
- Most of the Quizzes and all the Exams will occur during the scheduled, synchronous class time. Students will receive an electronic copy of the assessment via Canvas and expected to post their solutions at the end of the time allowed.
- Students should have a working webcam, show their UWM student ID, make a scan of their workspace, and stay logged in to Canvas for the entire exam time to allow for proctoring via a recording in Zoom.
- Based on student interest, we will try to find an option for on-campus, in-person testing for the three major exams. This testing option is NOT mandatory if we switch to online classes.

Disclaimer: This syllabus is tentative and should not be considered definitive. The instructor reserves the right to modify it (including the dates of the tests) instructor to accommodate instructional and/or student needs. Such change will be announced to the class at the appropriate time. It is the student responsibility to attend class regularly and to make note of any change.