Syllabus for MAT 124 Calculus I, Fall 2018
Time: MTWRF 2:22pm-3:12pm
Place: MCHS Rm 729
Professor: Mr. Bryson Loudermilk
Office: Rm 729
Office Hours: Before School 8:00 – 8:15, After School 3:12 – 3:45
Email: bryson.loudermilk@mccreary.kyschools.us

Catalogue Description: MAT 114 with minimum grade of "C" or a minimum score of 25 on the mathematics portion of the ACT or a minimum score of 590 on the math portion of the SAT.

Attendance Policy: Students are expected to attend every class meeting and will be held responsible for everything said in class.

Recommended Text: Essential Calculus; Early Transcendentals, Second Edition by James Stewart.
General Education Goals: Students will be able to:

1. Use appropriate methods of critical thinking and quantitative reasoning to examine issues and to identify solutions. (Goal two)

2. Distinguish the methods that underlie the search for knowledge in the arts, humanities, natural sciences, history, and social and behavioral sciences. (Goal seven)

3. Integrate knowledge that will deepen their understanding of, and will inform their own choices about, issues of personal and public importance. (Goal eight)

General Education Objectives: Students will be able to:

1. Use mathematical methods to state and solve quantitative problems, including those stated in verbal form.

2. Use numerical and graphical data to make reasonable and valid conclusions.

3. Apply mathematical methods to real-life problems.
Student Learning Outcomes: Students who successfully complete MAT 124 will demonstrate the ability to:

1. Understand and use the concept of a function, whether the function is represented by tabulated data, graphs, or formulas.

2. Use calculus to formulate and solve problems.

3. Understand the derivative as a rate of change, including its connections to tangent lines, linear approximations, extrema, and instantaneous velocity.

4. Understand the definite integral as a measurement of area, as a limit, and as an inverse of differentiation.

5. Use technology to help solve problems.

6. Compute limits, derivatives, and antiderivatives.

7. Determine the continuity of a function and understand its significance.

8. Effectively communicate solutions to problems using correct mathematical terminology.

Homework: Individual homework assignments are made every day. Students will solve homework assignments and those assignments will be reviewed for the first 15 minutes of class. Homework will be assigned at the completion of each section and each homework assignment and will be due the following day.

No time extensions will be given for these problems. Therefore, it is in your best interest to finish the assignment well before the due date. Time extensions for homework **will not** be given for any circumstances, happenings, or individual student situations.

Tests: There will be five tests and a final exam. The tests are tentatively scheduled for Friday, January 17th, Friday, February 7th, Tuesday, February 24th, Wednesday, March 13th, and Wednesday, March 27th. The final exam is scheduled for the week of May 5th – 9th. **Students who miss a test will be allowed to make up the test only if the absence is excused.** An acceptable excuse is a doctor's excuse, a university excuse, or a catastrophic emergency resulting in unavoidable absence. Arrangements to make up the test must be within one week; otherwise, a zero will be recorded.

Calculators: Calculators will be allowed on certain quizzes and tests, and the final. A TI-83 or TI-84 is the recommended calculator for this course. The use of a TI-89 on a quiz or test is not allowed. Cell phones, PDAs, tablets, or any other wireless communication device cannot be used as calculators during a quiz or test.

Grade Breakdown: Each test will be worth 100 points and the final will be worth 200 points, for a total of 700 points. The lower bounds for letter grades, in points, will be
A 630 **B** 560 **C** 490 **D** 420
There will be **no** extra credit. Midterm grades will be viewable online Sunday, March 9th.

Disabilities: If you are registered with the Office of Services for Individuals with Disabilities, please obtain your accommodation letters from the OSID and present them to the course instructor to discuss any academic accommodations you need. If you believe you need accommodation and are not registered with the OSID, please contact the Office in the Student Services Building, Room 361, by email at disserv@eku.edu, or by telephone at (859) 622-2933 V/TDD. Upon individual request, this syllabus can be made available in an alternative format.

Department Policies:

1. During class, cell phones and pagers must be turned off or set to a silent mode.

2. During resource-limited activities, such as in-class exams, students may not use the calculator function of a wireless communication device such as a cell phone or PDA.

3. Any student enrolling in a multiple section course for which s/he has already received a grade of "D", "F", or "W" from the instructor who is teaching the section may change to a section taught by a different instructor by seeing the Chair of the Department of Mathematics and Statistics. This change must be completed by the end of the drop/add period.

Academic Honesty and Responsibility:

1. Anyone violating the usual standards for academic honesty, for example, anyone attempting to obtain or exchange information regarding any quiz or test, or anyone using a fraudulent excuse to qualify for a make-up, may receive a course grade of 'F'.

2. Anyone behaving in a disruptive manner or refusing to follow the usual standards for academic behavior may be barred from attending class and may receive a course grade of 'F'.

3. Students are advised that EKU's Academic Integrity policy will be strictly enforced in this course. The Academic Integrity policy is available at www.academicintegrity.eku.edu. Questions regarding the policy may be directed to the Office of Academic Integrity.

Tentative Schedule: Schedule is subject to change.

	Mon	Tues	Wed	Thurs	Friday
Week 1 Aug 18 -22	1.1	1.2	1.2	1.3	1.3, 1.4
Week 2 Aug 25-29	1.4	1.5	1.5	1.6	**Exam 1**
Week 3 Sep 1-5	***Labor Day***	2.1	2.1, 2.2	2.2, 2.3	2.3
Week 4 Sep 8-12	2.4	2.5	2.5	2.6	2.6
Week 5 Sep 15-19	2.7	2.7	2.8	2.8	**Exam 2**
Week 6 Sep 22-26	3.1	3.2	3.2	3.3	3.3
Week 7 Sep 29-Oct 3	3.4	3.4	3.5	3.6	3.7
Week 8 Oct 6-8	3.7	**Exam 3**	4.1	4.2	4.3
Week 9 Oct 13-17	4.3	4.4	4.4	***Fall Brk***	***Fall Brk***
Week 10 Oct 20-24	***Fall Brk***	4.5	4.7	**Exam 4**	5.1
Week 11 Oct 27-31	5.2	5.3	5.3	5.4	5.4
Week 12 Nov 3-7	5.5	5.5	**Exam 5**	6.1	6.1
Week 13 Nov 10-14	6.2	***Election Day***	6.2	6.3	6.3
Week 14 Nov 17-21	6.4	6.4	6.5	6.5	6.6
Week 15 Dec 1-5	7.1	7.1	7.2	7.2	7.2
Finals Week Dec 8-12	REVIEW For FINAL			REVIEW For FINAL	