

**1. Course Title:**

**Calculus I**  
**MATH 172 – 5 Credits**

EET Program Requirement

Prerequisite: Math 154

This is a Math and Science content course under ABET Criterion 5

**2. Faculty Member Information:**

Instructor: Scott M. Lewis

Office: Room 225 Hertz Hall

Phone: 509-963-3266

E-mail: slewis@cwu.edu

**3. Course Description:**

Theory, techniques, and application of differentiation and integration of elementary functions.

**4. Textbook and other required materials for the course:**

Thomas, et.al, *Thomas' Calculus, Early Transcendentalist, 11<sup>th</sup> Ed.*, Pearson-Addison-Wesley, 2006

**5. Specific Learner and Expressive Outcomes and Assessment Strategies:**

ABET Outcome Criteria #	Learner Outcomes	Assessment
	1. To demonstrate knowledge and understanding of computing limits.	The student will complete homework assignments, a written test.
	2. To demonstrate knowledge and ability to identify continuous and differentiable elementary functions	The student will complete homework assignments, a written test.
	2. To demonstrate knowledge and ability to differentiate a variety of elementary functions	The student will complete homework assignments, a written test.
	3. To demonstrate the ability to apply the techniques of differentiation to several applied problems	The student will complete homework assignments, a written test.

**6. Course Topics and Schedule:**

- Ch. 1: brief review of a library of functions. sections 1.1-1.6 (this will be done rather quickly and mainly on your own. get to me with questions!)
- Ch. 2: limits and continuity. sections 2.1-2.7
- Ch. 3: differentiation. sections 3.1-3.10

- Ch. 4: applications of derivatives. sections 4.1-4.8

## **7. Grading:**

Your grade will be determined by two midterms (30% ea.) and a final examination (40%). the first midterm will take place (and be graded) before the deadline for dropping the class. grades will be assigned on a 90%-80%-70%-60% scale. i do give A-'s, B-'s, and C-'s. occasionally, the lines between A-/B+, etc. are lowered, but **never** raised. in other words, if your average is 90% then you will receive some sort of an 'A.'

I collect selected homework assignments and we will have several unannounced, but straight-forward, quizzes to help you see where you stand regarding the content of the course.

If you have any questions or comments, feel free to come by my office or e-mail me at the address below.

## **8. ADA Statement:**

Students who have special needs or disabilities that may affect their ability to access information and or material presented in this course are encouraged to contact me or Robert Harden, ADA Compliance Officer, Director, ADA Affairs and Students Assistance on campus at 963-2171 for additional disability related educational accommodations.