



## calculus ii

math 173  
5 credits  
bu 102  
mtwhf - 10:00am  
mtwhf - 12:00noon

### text:

(2011). hughes-hallett, calculus, 5th ed. hoboken, n.j.: john wiley and sons, inc.

### description:

the ideas behind the calculus are among some of the great thoughts ever created in the history of humankind- everyone with a college degree should have a semester or two. i say this not simply because i am a mathematician; everyone should have a semester or two of shakespeare, as well :)

there are two basic geometric questions behind it all: how does one find the slope of a tangent line to a given curve at a given point, and how does one find the area of a region that is bounded on one side by a curve? sounds simple, doesn't it? the answers to these questions are suprisingly related. the consequences that follow from the answers to these questions are breathtakingly useful. but some of us prefer to simply stand in awe of the beauty ...

there are some links in the left sidebar of this page. take the time to explore what some people in other universities are interested in. there are other possibly useful links back at my [home page](#).

this quarter we will cover most of the following in our text:

- o ch. 5: the definite integral
- o ch. 6: constructing anti-derivatives
- o ch. 7: integration
- o ch. 8: using the definite integral

check out the [winter 2012 class calendar](#).

### evaluation:

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 recieve 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.

### student learner outcomes

the most important things you learn in school are not going to be measurable, sorry. in fact, the absolute best service a list of 'student learner outcomes' could possibly provide is as a random sample of behavioral objectives. that said, at the end of this course, you will have a reasonable facility (as measured by the evaluation procedures described above) in computing antiderivatives, applying antiderivatives to real life situations, and manipulating transcendental functions in the context of the definite and indefinite integral. By the way, the phrase *elementary functions* refers to polynomial, exponential, logarithmic, and trigonometric functions. the word 'elementary' should not be confused with the word 'simple.'

### note

students with disabilities who wish to set up academic adjustments in this class should give me a copy of their *confirmation of eligibility for*

scott m. lewis  
hertz 225  
phone: 963-1803  
fax: 963-3226  
hours:  
11:00am mwf  
else, by appointment,  
gleefully accepted

### links:

- [wikipedia entry](#) - all the news that's fit to print about sir isaac.
- [history of mathematics web resources](#)
- [where is your birthday in pi?](#)
- [yoga and meditation techniques](#) - you may need it by the time we're done.
- [short course in trigonometry](#) - you may this this one before it's all over, too.
- [UniVirtual Slide Rule Emulator](#) - fruit from the tree of worthless information.

*academic adjustments* from the disability support services office so that we can meet in order to discuss how the approved adjustments will be implemented in this class. students with disabilities without this form should contact the disability support services office, bouillon 205 or [dssrecept@cwu.edu](mailto:dssrecept@cwu.edu) or 963-2171 as soon as possible.

**no, no, no!**

no late assignments, no early tests, no late tests, no make-up tests (including finals ... be there).



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| post no bills |

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winter 2012.

[scott m. lewis, slewis@fulbrightmail.org](mailto:scott.m.lewis@fulbrightmail.org)

*there's no place like [home](#).*