

Calculus: Math 132-03, Christine Cumming (Strunk)**I. Contact Information****Professor:** Dr. Christine Cumming (Strunk)**Email:** cumming@ulm.edu (preferred)**Phone:** 318-342-1923**Webpage:** www.ulm.edu/~cumming**Office:** Airway 353**Office Hours:** (also by 24 hour appointment)*In the MRC*, TTh 11:30-12:30pm, and Th 2-3pm**In Airway 353, MW 9-10am***Math Resource Center (MRC*):** It is located in Airway 211. The expected hours are Monday through Thursday from 7am-7pm and Friday from 8-11:30am. [While you are in the MRC, you must be only doing work for a math class. Not all the instructors will be able to help you with *Maple*.]**II. Course Prerequisites**

A grade of C or better in MATH 131.

III. Course Description

This course covers techniques of integration, applications of the integral, sequences, and series.

IV. Course Objectives and Outcomes

Students finishing this course will have a working knowledge of techniques used to solve definite and indefinite integrals, approximate indefinite integrals, find volumes of revolutions, approximate summations, determine when a summation converges, and represent differentiable functions as power series.

V. Course Topics

We will cover additional techniques of integrations such as: differentiation by parts, partial fractions, trigonometric substitution. We will study the area between two curves and the disk methods for determining volumes of revolution. The course will finish with a study of tests of convergence for series and approximation of a function by Taylor and MaLauren series.

VI. Instructional Methods and Activities

This course will consist of daily lectures, regular quizzes, collected homework, Maple assignments collected periodically, 3 exams, and a final exam.

VII. Evaluation and Grade Assignment**Student Evaluation:**

Homework, Calculus I Review, and <i>Maple</i> assignments*	100 points
Quizzes*	100 points
Exams (3 exams each 100 points)**	300 points
Final Exam	200 points
Total	700 points

Two quizzes and homework assignments will be dropped, and nothing else will be dropped.**Exams will be kept by the instructor. You may make an appointment to review your exam, but you may not copy **OR** take pictures of your exam.***Grading Scale:**

A	630-700 points
B	560-629 points
C	490-559 points
D	420-489 points
F	0-419 points

Undergraduate mid-term grades will be posted on-line for students to view via Arrow. Mid-term grades indicate a student's status at mid-semester only and do not indicate the final performance outcome of a student.

VIII. Class Policies and Procedures

At a minimum, all policies stated in the current ULM *Student Policy Manual & Organizational Handbook* should be followed (see <http://www.ulm.edu/studentpolicy/>). Additional class policies include:

A. Textbook and Materials:

- Textbook: *Single Variable Calculus: Concepts & Contexts 3rd Edition* by J. Stewart
- Calculator: A scientific calculator should be enough, but I highly recommend a graphing calculator (such as TI-83, TI-83+, or TI-84+).
 - Graphing calculators will be allowed on some quizzes and exams. You will be given at least one class period notice if you are not allowed on a specific quiz or exam.
 - *Calculator sharing and cell phone calculators will be not permitted during exams.*
 - You must obtain permission for any programs in your calculator. *Programs that have not been granted permission will be treated as an attempt to cheat and will result in **getting a zero for the exam.***

B. Attendance Policy: Attendance is mandatory and will be taken each period. It is the student's responsibility to ensure that his/her attendance is recorded. If you miss any class (excused or unexcused), you are responsible for finding out what was covered and learning it on your own.

- The guidelines for excused absences may be found in the current ULM catalog (on page 57). **YOU MUST PROVIDE A COPY OF DOCUMENTATION** (doctor's excuse, etc.) **FOR ANY EXCUSED ABSENCE**. It must be presented **FOR THE PROFESSOR'S RECORDS**, and you must show the original when presenting the copy. Questionable documentation will not be accepted.

C. Make-up Policy:

- There are no make-up quizzes. Late homework and *Maple* assignments will not be accepted. Two scores from the quiz and homework categories will be dropped to allow for excused absences. The Calculus I Review will not be accepted late for any reason.
- If you miss an exam due to an unexcused absence, zero points will be recorded for that exam.
- If you miss an exam due to an excused absence and you can provide documentation as soon as you return to class (or **if possible before the exam**), I will use your final exam score to assign you a grade for that exam.
- Do not miss the final exam for any reason. You must provide at least one month notice if there is even the possibility that you may miss the final exam.

D. Academic Integrity: Faculty and students must observe the ULM published policy on Academic Dishonesty (see Page 4 in ULM *Student Policy Manual* -- <http://www.ulm.edu/studentpolicy/>).

E. Course Evaluation Policy: At a minimum, students are expected to complete the on-line course evaluation.

F. Student Services: Information about ULM student services, such as

- Student Success Center (<http://www.ulm.edu/cass/>),
- Counseling Center (<http://www.ulm.edu/counselingcenter/>),
- Special Needs (<http://www.ulm.edu/counselingcenter/special.htm>), and
- Student Health Services (under the Student Services web site) <http://www.ulm.edu/studentaffairs/>.

G. Emergency Procedures: Contact me as soon as possible.

H. Classroom Behavior: *Please be respectful of your fellow students.*

Cell phones and other electronic devices are to be set to the "off" mode. All such devices should be placed out of sight during exams. If these devices become disruptive, further rules will follow.

I. Email Policy: Poor email etiquette reflects poorly on you. Treat emails like you would a business letter that you would send through the mail. Make sure your emails include (1) A subject line including "Math 132" and your request, (2) "Dear Dr. Cumming" (no Mrs. Cummings...), (3) a polite request (no demands), and (4) your name FIRST and LAST every time. If I receive several "bad" emails, further rules will follow.

J. Special Note: *Any athletes or anyone else needing special assistance (as addressed by the Americans with Disabilities Act) please notify the instructor immediately.*

IX. Tentative Course Schedule

A. Contact Information: Professor: Dr. Christine Cumming (Strunk)

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Email: cumming@ulm.edu (preferred)

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In Airway 353, MW 9-10am

B. Tentative Schedule:

- This schedule shows the approximate dates that we will cover specific sections.
- Ask the instructor or see Moodle for due dates.
- The instructor reserves the right to adjust the schedule as needed.

Monday		Tuesday		Wednesday		Thursday	
Aug 24	5.5	25*	5.5	26	5.6	27	5.6
31	Maple 1/2	Sept 1	5.7A	2	5.7B	3	5.7B
7	No Classes	8	5.7C	9	5.7C	10	5.7D
14	Extra	15	5.9	16	5.10	17	5.10
21	Maple 3a	22	6.1	23	Review	24**	<u>Exam 1</u>
28	6.1	29	6.2	30	6.2	Oct 1	6.3
5	6.3	6	6.4	7	6.5	8	6.5
12	6.6	13	Extra	14	Review	15	<u>Exam 2</u>
19	Maple 3b	20	8.1	21	8.2	22	8.2
26	No Classes	27	Maple 4	28	8.3	29	8.3
Nov 2	8.4	3	8.4	4	Extra	5	Maple 5
9	8.5	10	8.5	11	8.6	12	8.6
16	8.7	17	8.7	18	8.7	19	Maple 6
23	8.8	24	8.9	25	8.9	26	No Classes
30	Review	Dec 1	<u>Exam 3</u>	2	Review	3	Review
7	(Finals Week)	8	(Finals Week)	9	(Finals Week)	10	<u>8am Final</u>

Notes: The last day to add or drop a course without “W” is Aug. 25*. The last day to drop a course and/or resign from the university with a grade of “W” is Sept. 24**.

C. Homework Problems:

	<u>Problems suggested</u>	<u>Problems due</u>
Ch. 5		
5.5	4, 5, 14, 18, 21, 27, 30, 38, 45, 47, 53	14, 21, 27, 37, 45, 53
5.6	2, 4, 9, 14, 18, 21, 23, 25, 34, 37, 41, 44, 46	2, 4, 9, 14, 23, 25, 44abd
5.7A	<i>Trigonometric Integrals Handout (on Moodle)</i>	
	1, 10, 11, 15, 23, 26, 29, 38, 41	1, 10, 15, 29, 38
5.7B	<i>Trigonometric Substitution Handout (on Moodle)</i>	
	1, 5, 6, 7, 11, 17, 21, 27, 30	1, 7, 11, 27, 30
5.7C	<i>Partial Fraction (Appendix G in the book)</i>	
	1a, 5, 6b, 8, 9, 15, 19, 29, 35	1a, 8, 9, 15, 35
5.7D	<i>Strategies for Integration Handout (on Moodle)</i>	
	1, 5, 7, 8, 11-13, 15-19, 21, 22, 25, 27, 37, 42, 43	1, 8, 11, 13, 15, 17
5.9	1, 7, 13, 18, 20, 21, 27, 29, 31, 37, 38, 39	1, 7, 13, 18, 27, 38
5.10	1, 3, 8, 14, 17, 25, 29, 43, 44, 46, 47, 53, 57, 62	1, 8, 14, 25, 44, 47, 53
Ch. 6		
6.1	1, 3, 8, 11, 14, 16, 21, 22, 25, 39	1, 3, 8, 14, 21, 22
6.2	2, 7, 11, 21, 22, 23, 24, 27, 29, 32, 39, 42, 49	2, 7, 11, 22, 23, 27, 29, 32
6.3	1, 6, 8, 9, 12, 19, 23, 25, 26	1, 6, 9, 19, 23
6.4	1, 4, 8, 11, 13, 15, 18	1, 8, 11, 13, 15
6.5	2, 3, 6, 11, 16, 19, 21, 23, 30, 37	2, 3, 6, 16, 21
6.6	2, 5, 8, 12, 13, 16	2, 8, 13, 16
Ch. 8		
8.1	1, 2, 5, 11, 21, 28, 33, 35, 37, 39, 44, 46, 47	1, 2, 5, 21, 28, 33, 44, 47
8.2	1, 2, 4, 6, 9, 18, 24, 27, 30, 33, 36, 42, 44, 49, 55	1, 2, 4, 9, 18, 27, 33, 36, 44, 55
8.3	1, 3, 4, 5, 9, 13, 16, 17, 18, 21, 22, 25, 27, 28, 32, 34	1, 3, 4, 13, 17, 21, 28, 32, 34
8.4	1, 2, 3, 6, 8, 10, 11, 16, 18, 19, 22, 25, 31, 33	<i>All the suggested problems</i>
8.5	1, 2, 7, 8, 9, 10, 18, 20, 22, 23, 25, 27	1, 2, 7, 8, 10, 18, 20, 22, 25
8.6	1, 4, 7, 8, 12, 18, 22, 24, 28, 30, 33, 36	1, 4, 8, 12, 18, 22, 33a
8.7	2, 6, 7, 8, 12, 15, 22, 26, 27, 33, 37, 42, 44, 54	2, 7, 15, 22, 27, 33, 42
8.8	2, 4, 6, 8, 10, 13	2, 8, 13
8.9	1, 5, 8, 15, 16, 17, 19, 21, 25, 27, 29	1, 8, 15, 16, 17, 21, 25, 27

Any suggestions to make this class more productive or enjoyable are welcome. Please do not hesitate to contact me any time during the semester to get help on your work or to discuss your grade in the course.