Class Times: Monday, Wednesday, and Friday 11:30 a.m. - 12:45 p.m.
Classroom: ESH 202
Instructor: Dr. Mark Fitch

Blackboard: All class materials can be found on Blackboard at http://blackboard.uaa.alaska.edu/. If Blackboard is not accessible the materials may also be found at http://www.math.uaa.alaska.edu/~afmaf/classes/.

Office Hours: Monday, Wednesday, Friday 1:00-2:15 p.m. See http://www.math.uaa.alaska.edu/~afmaf/classes for additional available times.

Email: mafitch@uaa.alaska.edu
Phone: 786-1656
Office: SSB 154D
Tutors: Tutoring is available in the Math Tutoring Lab in SSB 170.

Textbook: Calculus Early Transcendentals 7th edition by James Stewart (required)

Prerequisites: You need to be able to use algebra and trigonometric techniques easily.

Topics: The course covers three fundamental concepts of analysis: the limit, the derivative, and the integral. The definitions, basic methods of calculating and manipulating will be presented. This material is covered in chapters 2-5 of the text with supplemental material.

Goals: By the end of the appropriate section you should be able
- to evaluate limits,
- to differentiate functions,
- to solve elementary integrals, and
- to apply differentiation techniques to applied problems.
Purpose: The lesson is the presentation of new material. By completing the lesson you will learn new topics.

Assignment: Complete the lesson found online on Blackboard or at http://www.math.uaa.alaska.edu/~afmaf/classes/math200/schedule.html. Note you may work with other students and ask questions of the instructor when working on the lesson.

Due: Lessons must be completed before the class in which they are due. A single copy from each group will be collected before the end of class.

Feedback: Questions on the lesson will be addressed during class.

Grading: Your work will be graded for completeness. At the end of the semester an allowance will be made for missed lessons.

Class Time

Purpose: During class you will ask questions about the lesson, work on the homework, and ask questions as needed while working on the homework. Class time will ensure that you have the opportunity to understand each topic.

Assignment: You will work with the group to which you are assigned to develop understanding of the topics.

Lesson Summary

Purpose: You summaries inform the instructor about whether additional instruction is required and provide you with a study guide for the exams.

Assignment: After the class in which the lesson is discussed write a brief summary of the material you learned in the lesson. You should answer the three questions below in each summary. Enter this summary in your Blackboard Journal for this course.

- What question if any do you still have?
- What did you learn?
- Was anything from this lesson interesting?

Due: Summaries will be written after the class in which the lesson is discussed and must be submitted before the next class.

Feedback: Questions on the lesson will be addressed by the instructor during future classes.

Grading: Your work will be graded for completeness. At the end of the semester an allowance will be made for missed lessons.

Homework

Purpose: Text book problems provide an opportunity to realize questions, ask them, and develop skills at procedures. Be aware that most text book problems emphasize mechanical skills rather than understanding. As such they are not representative of test questions.

Assignment: Complete the problems from the textbook found online on Blackboard or at http://www.math.uaa.alaska.edu/~afmaf/classes/math200/schedule.html. The problems may also be completed using WebAssign which will provide feedback on correctness of the result.

Feedback: Questions will be answered in class or in writing. If you wish to have a problem checked for inclusion in the portfolio, submit it with a request for feedback. Possible improvements will be noted.

Daily Quiz

Purpose: Quizzes test your grasp of the material and therefore provide you with feedback on your progress. They typically require recognition of patterns,
not necessarily identical in appearance to homework problems. They may also point out nuances.

**Assignment**
At the beginning of class a short (approximately 5 minute) quiz over recent material will be given.

**Feedback**
If incorrect, the first, major wrong step in a problem will be noted with a note about the correct step if possible. Grading symbols, explained online, will be used to identify error types.

**Grading**
Your work will be graded for accuracy and presentation. At the end of the semester an allowance will be made for missed quizzes.

### Exams

**Purpose**
Exams provide you with an opportunity to demonstrate your mastery of mechanical skills and your understanding of the concepts. The latter are weighted more heavily in the grading.

**Assignment**
Exams will be given on the dates specified on Blackboard or at [http://www.math.uaa.alaska.edu/~afmaf/classes/math200/schedule.html](http://www.math.uaa.alaska.edu/~afmaf/classes/math200/schedule.html).

**Feedback**
If incorrect, the first, major wrong step in a problem will be noted with a note about the correct step if possible. Grading symbols, explained online, will be used to identify error types. Full solutions will be provided in a posted answer key.

**Grading**
Your work will be graded for accuracy and presentation.

### Projects

**Purpose**
Projects require using learned skills to solve large problems. They often require extrapolating from what you know to discover something new. This mimics actual use of mathematics in life and therefore meets the goals of the course.

**Assignment**
The projects can be found on Blackboard or at [http://www.math.uaa.alaska.edu/~afmaf/classes/math200/schedule.html](http://www.math.uaa.alaska.edu/~afmaf/classes/math200/schedule.html).

**Due**
Projects will be collected initially on the dates specified online. Resubmissions of projects can be submitted with homework during any class prior to the beginning of exams.

**Feedback**
Incorrect problems will be explained as on homework. Essays will be returned with verbal comments on how to improve the writing and on any misconceptions.

**Grading**
Your work will be graded for accuracy and presentation. Writing project criteria are posted online ([http://www.math.uaa.alaska.edu/~afmaf/classes/writing_criteria.html](http://www.math.uaa.alaska.edu/~afmaf/classes/writing_criteria.html)). Projects may be resubmitted. The total percentage available will be 100% for the first submission, 90% for the second submission, and 80% for the third submission.

### Class Portfolio

**Purpose**
The portfolio will be your demonstration of the level of your understanding. It will consist of one example of your best work for each major topic area: limits, derivatives, integrals, and one other topic.

**Assignment**
After each topic is completed select an example of your best work to include in your portfolio. This may be problems from homework, quizzes, or exams. You can also select problems from other classes if they demonstrate the topic. You may submit them in their original form or revised. Also you must submit a brief description of why you chose this example.

**Due**
The portfolio is submitted on the last day of class (before the final exam).
Grading

The written problems will be graded based on accuracy, presentation, and level of understanding.

Grading

Your grades will reflect your ability to perform the tasks outlined in the goals and to clearly explain how you accomplished the tasks. Because understanding is more important than producing results, steps in a solution are more important than the result. Specific criteria are provided above and with individual assignments as required.

Assessments

Lessons, Quizzes, Summaries 5%
Portfolio 5%
Projects 10%
Exams 15% x 4
Final Exam 20%

The final exam will be on May 1st from 10:00 a.m. - 12:45 p.m.

DSS

If you have a certified learning disability, please inform the instructor so that the university sanctioned assistance can be provided.

Scale

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90-100</td>
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<tr>
<td>B</td>
<td>80-89</td>
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<tr>
<td>C</td>
<td>70-79</td>
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<tr>
<td>D</td>
<td>60-69</td>
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<tr>
<td>F</td>
<td>0-59</td>
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Grades of C or higher indicate preparedness to progress to courses for which this is a prerequisite. A grade of B or higher indicates an ability to explain procedures. A grade of A indicates the ability to extrapolate from these skills to solve related problems.

Academic Expectations

Lessons: If you do not understand any part of a lesson or an assignment, ask for assistance before the assignment is due. You will need to provide a specific description of the difficulty: instructors cannot read your mind.

Instructions: If you do not understand any instruction or a question, ask before the work is due. An assignment may be submitted only once, except for projects.

Corrections: If you discover a mistake in any graded work, please bring it to the attention of the instructor as soon as possible.

Incomplete assignments: Lessons, homework, and quizzes not turned in on time receive no credit.

Please arrange excused absences for exams before the exam if at all possible. If you cannot make arrangements before the exam, then the final exam grade will replace that exam score. If the university is closed for an emergency on an exam day, the exam will be given the next class session.

Projects submitted late are treated as a resubmission.
### Attendance
Regular attendance and active participation is expected in all classes. You are responsible for class work even if there are legitimate reasons for your absence. In particular, class attendance is vital to success in this course. Some of the material covered in this course is not included in the textbook nor is it online. If you miss class for university business or civic duty, please inform your instructor as early as possible prior to your absence. More than four unexcused absences may result in a “faculty initiated drop.”

Should the last date of your class attendance be required, it will be determined by the last date of any material submitted by you for recording in the class grade record. If you have evidence that your date of last attendance is otherwise, you must inform your instructor of such prior to the assignment of your final grade. The date of last attendance may impact financial aid.

Most graded assignments are returned at the beginning of class. If you miss this, you will need to come to the instructor’s office to obtain the assignment. All assignments not collected by the final exam will be destroyed as required by FERPA.

### Academic Honesty
Use of any communication device during an assessment is prohibited. The instructor will note when accessing the internet is needed for class. Audio devices may not be worn during any assessment.

### Non-Academic Assistance
The mission of the UAA CARE Team is to promote a safe and productive learning, living and working environment by addressing the needs of students. If you, or someone you know, needs support, is distressed, or exhibits concerning behavior help by making a referral to the CARE Team. Contact the CARE Team by: filling out a referral on http://www.uaa.alaska.edu/CareTeam; E-mail your concern to Care@uaa.alaska.edu; or call the Care Team phone number: 786-6065; if an emergency—call UPD or 911.

### Courtesy
Entering a classroom late may disturb other students. Please be prompt.

If you need to leave class early, please inform the instructor before class.

Lack of attention to the material of the class reduces learning. Use of any communication device or method not requested by the instructor is not permitted. Music playing devices, hands-off phones, and other headset type devices may not be worn during class. Use of any device during a quiz or test will result in a grade of zero and possible charges of cheating.

Students required to be on call must notify the instructor ahead of time and use a silent notification method.