

**Instructor:** Mahmud Alam

**Office:** Chapman 302

**Office Phone:** 907-474-5438

**Cell Phone:** 907-388-7874 (Better between 8 AM and 10 PM)

**e-mail:** gmalam@alaska.edu (best way to contact me!)

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**Teaching Assistant:** TBA

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### COURSE LOGISTICS

**Classroom and class meeting times:**

10:00 AM - 11:15 AM, TWRF, Bunnel Building 412

**Office Hours:** TWRF 11:30 AM – 12:30 PM, and by appointment. To make an appointment, just drop me an e-mail. You are also welcome to stop by my office at any time and see if I am free (even without a scheduled appointment); however, there is a possibility that I may be busy/away if you haven't set up an appointment. These office hours are subject to change.

**Prerequisites:** A grade of C or better in MATH F122X (Precalculus for Business & Economics); or MATH F151X (College Algebra for Calculus); or MATH F156X (Precalculus); or appropriate placement score, or permission of the instructor.

**Course description:** This course gives an introduction to single and multi-variable calculus. We will cover the following: limits, including those with indeterminate form; continuity; tangents; derivatives of polynomials, exponentials, and logarithmic functions, including product, quotient, and chain rules; the mean value theorem; applications of derivatives, including graphing functions and rates of change; anti-derivatives, definite and indefinite integrals; methods for substitution in integrals and the Fundamental Rule of Calculus. Applications of integrals, applications applied to business, economics and life sciences, differential equations, partial derivatives and multiple integrals.

**Goals and Student Learning Outcomes:**

- Students will have a basic understanding of limits, derivatives, and integrals
- Students will be able to interpret limits of functions and of graphs
- Students will be able to obtain derivatives using both the definition and the properties of derivatives
- Students will be able to use derivatives to graph functions
- Students will be able to evaluate indefinite and definite integrals

- Students will use integration to solve applied problems

**Required Text:** *Finite Mathematics and Applied Calculus*, by Waner and Costenoble (ISBN-10: 1-337-27594-8; ISBN-13: 978-1-337-27594-1).

**WebAssign Access Code:** You will be doing a portion of your homework online using a program called **WebAssign**. To do this you must have a WebAssign access code. If you purchase your textbook from the UAF bookstore this code will come packaged with your text. If not, you can purchase one on [www.webassign.net](http://www.webassign.net). More instructions on getting into WebAssign can be found below in the section describing homework. You also have access to an eBook on WebAssign.

## INSTRUCTIONAL METHODS

**Lecture:** Class meets for three lecture hours per week. The lecture will be primarily active lectures, supplemented with the occasional in-class worksheet. You are expected to participate in the lecture by asking questions!

**Homework:** Homework will be assigned on a regular basis; it will be posted on Blackboard, and you will be responsible for checking often. Homework assignments will not be announced in class. Written homework will be assigned after lectures, and due following Monday by 4PM. You can hand in them either to me in the class or in the mail box of the TA. No late written homework is accepted.

**Online Homework:** You will be responsible for completing online homework exercises, similar to problems from your textbook, using the program **WebAssign**. These problems are short answer and (except for true/false questions) you get multiple attempts with no penalty and immediate feedback. They are graded right or wrong, no partial credit. This tool is great for practicing routine computational skills. Webassign is assigned daily and due the next class meeting day. If you cannot complete a webassign on time you can request an automatic extension for unfinished problems.

We are going to access WebAssign directly from Blackboard. To do so your browser must be configured to accept third-party cookies. If you are having technical troubles contact OIT (<https://www.alaska.edu/oit/>) or

WebAssign directly (<https://webassign.com/support/student-support/>).

Here are the steps to access WebAssign from Blackboard.

- Log in to Blackboard.
- Click on the **Courses** tab.
- Click on our course, Math 230X.
- In the course menu, click Tools.
- Click Access WebAssign.

The first time you access WebAssign from Blackboard, a new linked WebAssign account is automatically created for you. If you already have an account you may have to contact WebAssign's student tech support to link your accounts. If you are having trouble with WebAssign, please let your instructor know **and** contact WebAssign's student tech support. (<https://webassign.com/support/student-support/>)

You will always log into WebAssign by going through Blackboard. I realize that this is annoying, but it is a consequence of making Blackboard and WebAssign talk to each other and there's really no way to change this.

WebAssign gives you free access for two week after the start of class. To continue using WebAssign after that either enter an access code or purchase access online. Failure to purchase a WebAssign code in a timely fashion is not a reason for a full credit extension on your homework. Buy your codes right away!

**Quizzes:** There will be four 30 minute quizzes. These quizzes will look a lot like your online homework problems. I will drop your lowest quiz score.

**Exams:** There will be two in-class mid term exams, tentatively scheduled for Tuesday, June 12 and Tuesday, July 17. There will be one final exam, scheduled for 01 - 03 PM, Tuesday, August 10.

### COURSE POLICIES

**e-mail:** *You are responsible for checking your alaska.edu e-mail account every day before class.* This is the e-mail address I have access to, and this is what I will use to get in touch with you. If you don't typically check it, then set it up to forward to your main account.

**Absences and make-ups:** You are expected to attend every class. Missing classes will have an adverse effect on your course grade. *If you miss more than six classes, or if you do not show up to take an exam without prior notice, I may withdraw you from the course.*

If you must miss class, you are responsible for notifying me ahead of time to make appropriate arrangements. Except in unusual circumstances, make-up quizzes and exams will not be given.

If something goes wrong for you and you miss a quiz or an exam for any reason, please let me know AS SOON AS POSSIBLE. Do not wait until the next morning, for example.

**Illness:** Please do not come to class if you are possibly contagious. If you are too sick to come to class, **please e-mail me BEFORE CLASS.** Except under extreme circumstances, if you do not e-mail me before class I may not be able to arrange for make-up quizzes, etc.

**Announcements:** From time to time, announcements and comments will be sent out via e-mail. **It is your responsibility to check your alaska.edu e-mail account to receive this information.**

#### Course Evaluation:

WebAssign Homework	10%
Home Work	15%
In Class Quizzes	20%
Mid Term Exam 1	15%
Mid Term Exam 2	15%
Final Exam	25%

**Course Grading:** The grading scale used will be the plus/minus letter grades

% Range	Letter grade	% Range	Letter grade	% Range	letter grade
00.00 - 59.00	F	80.00 - 83.00	B-	90.00 - 93.00	A-
60.00 - 69.00	D	84.00 - 86.00	B	93.00 - 95.00	A
70.00 - 79.00	C	87.00 - 89.00	B+	95.00 - 100.00	A+

#### ADDITIONAL SUPPORTS

I am here to help you succeed, however if you do not ask questions and do not seek assistance you will not do well in this course. Students can contact me through Blackboard, through email, through the WebAssign's Ask My Teacher feature, or by attending office hours.

**DMS Math and Stat Lab:** The Math and Stat Lab is located in CHAP 305. This lab operates on a walk-in basis and schedules are posted that provide tutor times. The lab is staffed by upper-division/Graduate students from Mathematics, Statistics, Engineering and Physics. Tutors are available for help in all core math and stat courses.

**Office of Disability Services:** This office implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. State that you will work with the Office of Disabilities Services (208 WHIT, 474-5655) to provide reasonable accommodation to students with disabilities. Please provide current accommodation paperwork to your instructor by June 13.

**Academic Integrity:** All students are expected to review the Student Code of Conduct. Any form of academic dishonesty which includes plagiarizing published documents will result in a zero on the assignment for the first occurrence and a failure in the course on the second occurrence.

#### DMS ACADEMIC POLICIES

- (1) *Incomplete Grade:* Incomplete (I) will only be given in Mathematics or Statistics courses in cases where the student has completed the majority (normally all but the last three weeks) of a course with a grade of C or better, but for personal reasons beyond his/her control has been unable to complete the course during the regular term. Negligence or indifference are not acceptable reasons for the granting of an incomplete grade.
- (2) *Late Withdrawals:* A withdrawal after the deadline (currently 9 weeks into the semester) from a DMS course will normally be granted only in cases where the student is performing satisfactorily (i.e., C or better) in a course, but has exceptional reasons, beyond his/her control, for being unable to complete the course. These exceptional reasons should be detailed in writing to the instructor, department head and dean.
- (3) *No Early Final Examinations:* Final examinations for DMS courses shall not be held earlier than the date and time published in the official term schedule. Normally, a student will not be allowed to take a final exam early. Exceptions can be made by individual instructors, but should only be allowed in exceptional circumstances and in a manner which doesn't endanger the security of the exam.

## MATH F230X TENTATIVE SUMMER 2018 SCHEDULE (SUBJECT TO CHANGE)

Class Date	Reading & Practice	WebAssign Due	Lesson #	Other Information
T May 22	Introduction, Sect 10.1			
W May 23	Finish Sect 10.1	Introduction		
R May 24	Sect 10.2	WA 10.1		
F May 25	Sect 10.3	WA 10.2		
T May 29	Sect 10.4	WA 10.3	Lesson 1	
W May 30	Sect 10.5	WA 10.4		
R May 31	Start Sect 10.6	WA 10.5		QUIZ-1
F June 1	Finish Sect 10.6		Lesson 2	
T June 5	Sect 11.1	WA 10.6		
W June 6	Sect 11.2	WA 10 Review		
R June 7	Sect 11.3	WA 11.1		
F June 8	Review for mid term	WA 11.2		
T June 12				Mid Term -1
W June 13	Sect 11.4	WA 11.3	Lesson 3	
R June 14	Sect 11.5	WA 11.4		
F June 15	Sect 11.6	WA 11.5		
T June 19	Sect 12.1	WA 11.6	Lesson 4	
W June 20	Sect 12.2A	WA 11 Review		
R June 21	Start Sect 12.2B	WA 12.1		QUIZ-2
F June 22	Finish Sect 12.2B			
T June 26	Sect 12.3	WA 12.2	Lesson 5	
W June 27	Sect 12.4A	WA 12.3		
R June 28	Sect 12.4B			
F June 29	Sect 12.5	WA 12.4	Lesson 6	
T July 03	Start Sect 12.6	WA 12.5		QUIZ-3
F July 06	Finish Sect 12.6	WA 12.6		
T July 10	Sect 13.1	WA 12 Review	Lesson 7	
W July 11	Sect 13.2A	WA 13.1		
R July 12	Sect 13.2B			
F July 13	Review for mid term			
T July 17				Mid Term 2
W July 18	Sect 13.3	WA 13.2		
R July 19	Sect 13.4A	WA 13.3		
F July 20	Sect 13.4B		Lesson 8	
T July 24	Sect 14.1	WA 13.4		
W July 25	Sect 14.2	WA 13 Review		
R July 26	Sect 14.3	WA 14.1	Lesson 9	
F July 27	Start Sect 14.4A	WA 14.2		QUIZ-4
T July 31	Finish Sect 14.4A	WA 14.3		
W August 01	Sect 14.4B		Lesson 10	
R August 02	Review	WA 14.4		
F August 03	Review	WA 14 Review	Lesson 11	
T August 07	Review			
W August 08	Review			
R August 09	Review			
F August 10	Final Exam			01 PM - 03 PM