Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500). See $\frac{http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/}{complete \ description \ of \ the \ rules \ governing \ curriculum \ \& \ course \ changes.}$

TRIAL	COURSE	OR	NEW	COURSE	PROPOSAL	

	Department of Education	Developme	ntal	Colleg	ge/Schoo	1					CRCL
Prepared by	Kelly Houlton			Phone			(907) 474-752			174-7526	
				Facult	ty Conta	ct				Kelly	Houlton
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2. COURSE 1	DENTIFICATION:	Dept	DE	VM	Course #	0	69F		o. o redit		1.0
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need to master on their own semester-based timeline instead of being required to demonstrate previous knowledge through homework assignments and tests in a traditional class and having to "stay with the class" time-wise throughout the semester. Students will get the support they need - as they need it - as they work only on the material of which they do not already possess mastery. 9. CONTACT HOURS PER WEEK: LECTURE 3 PRACTICUM hours/weeks hours /week hours /week Note: # of credits are based on contact hours. 800 minutes of lecture=1 credit. 2400 minutes of lab in a science course=1 credit. 1600 minutes in non-science lab=1 credit. 2400-4800 minutes of practicum=1 credit. 2400-8000 minutes of internship=1 credit. This must match with the syllabus. See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures- /guidelines-for-computing-/ for more information on number of credits. OTHER HOURS (specify type) 10. COMPLETE CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, cross-listings and/or stacking (50 words or less if possible): Example of a complete description: FISH F487 W, O Fisheries Management 3 Credits Offered Spring Theory and practice of fisheries management, with an emphasis on strategies utilized for the management of freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F211X or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487. (3+0) DEVM F069F Modularized Mastery Math (M-Cubed): Elementary Algebra Module F 1 Credit Offered Fall, Spring This course covers one credit of the DEVM 060 Elementary Algebra course and includes the following topics: factoring polynomials, solving quadratic equations by factoring, simplifying rational expressions, operations with rational expressions, complex fractions, solving rational equations, and applications of quadratic and rational equations. Topics are split into mini-modules and worked until mastery is achieved. Some mini-modules may be skipped if a student already demonstrates mastery of them. Computers will be used within a structured and independent learning setting. Prerequisites: Grade of B or better in DEVM 069E taken within one calendar year; permission of instructor required. (1+0) 11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council to apply S or H classification appropriately; otherwise leave fields blank. H = Humanities S = Social Sciences Will this course be used to fulfill a requirement YES: NO: X for the baccalaureate core? If YES, attach form. IF YES, check which core requirements it could be used to fulfill: O = Oral Intensive, W = Writing Intensive, X = Baccalaureate Format 6 Format 7 11.A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflake" symbol will be added in the printed Catalog, and flagged in Banner. X 12. COURSE REPEATABILITY: Is this course repeatable for YES NO X credit? Justification: Indicate why the course can be repeated (for example, the course follows a different theme each time). How many times may the course be repeated for credit? TIMES If the course can be repeated for credit, what is the maximum CREDITS number of credit hours that may be earned for this course?

individually as they work through their required mini-modules based on finely tuned diagnostic pre- and post-testing. Students will focus individually on what they

	If the course can be repeated with variable credit, what is the maximum number of credit hours that may be earned for this course? CREDITS									
13.	later on constitut		ne. Note: Changing the grading system	for a course						
DWC	LETTER: X TRICTIONS ON ENROLL	PASS/FAIL:								
14.	PREREQUISITES		er in DEVM 069E taken within one calendar year; pe l.	rmission of						
	These will be req	quired before t	he student is allowed to enroll in the	course.						
CON	Permission of instructor required. The Modularized Mastery Math sequence of courses is limited to a total of 18 students at any one time due to the size of our Developmental Math Lab. (DEVM 069D, E, and F, and DEVM 109G, H, and J are all held concurrently and meet at the same time.) Each student will need to be interviewed to determine a) whether they have taken algebra in the past or not; b) what their level of motivation is; c) if they are able to work independently; d) how comfortable they are working with computers; and e) that they understand the structure of modularized mastery learning and what they will be expected to do. Attendance will necessarily be a considerable part of their grade because M-Cubed is designed to help students finish their math sequence as quickly as possible. The only way to insure this is to require that a minimum amount of guided time is devoted to this class each week by the student. Since the course is self-paced and students are not all working on the same assignments at the same time, there is a very real danger of falling behind. Once a student gets behind, it becomes very difficult to catch up.									
16.	PROPOSED COURSE F	915	ough your dean to the Provost for fee	Yes						
			approval? Yes/No							
17.	PREVIOUS HISTORY									
	Has the course been offered as special topics or trial course previously? Yes/No									
	If yes, give semes course #, etc.:	ster, year,	Spring 2014: DEVM F094F Fall 2014: DEVM F094F							
18.	ESTIMATED IMPACT		AVE ON DUDGET FACTURE (CDA)	my pmg						
ſ	WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC. The Department of Developmental Education's Math Lab in Gruening 406 will lose 3 hours per week of									

The Department of Developmental Education's Math Lab in Gruening 406 will lose 3 hours per week of open lab time while class is in session, and there will be a significant increase in lab usage. The class is offered Monday, Wednesday and Friday from 8:00-9:00 AM in order to minimize the loss of 3 hours' worth of open lab time.

19. LIBRARY COLLECTIONS

Have you contacted the library collection development officer (kljensen@alaska.edu, 474-6695) with regard to the adequacy of library/media collections, equipment, and services available for the proposed course? If so, give date of contact and resolution. If not, explain why not.

20. IMPACTS ON PROGRAMS/DEPTS

What programs/departments will be affected by this proposed action? Include information on the Programs/Departments contacted (e.g., email, memo)

Department of Developmental Education; Math Department (Primarily); All other UAF departments and programs that require DEVM 060 or DEVM 105 as a prerequisite or degree/certificate requirement

I met with John Rhodes, the current Math Department Chair, in Spring 2014 to explain how M-Cubed works and how students finishing the last Module (Mod J) will have the equivalent of DEVM 105. He agreed to inform the professors in his department teaching current courses requiring completion of DEVM 105 as a prerequisite for placement to accept students who have successfully completed the last module of M-Cubed. (See attached email.) I also sent a letter via email to all Department Chairs and Program Heads explaining M-Cubed and it's equivalency to DEVM 060 (DEVM 069F) and DEVM 105 (DEVM 109J). It will necessarily take some time for all affected departments and programs to submit catalog changes reflecting acceptance of DEVM 069F and DEVM 109J as alternative prerequisites.

21. POSITIVE AND NEGATIVE IMPACTS

Please specify **positive and negative** impacts on other courses, programs and departments resulting from the proposed action.

Students will learn material to mastery levels and so be better prepared for their subsequent math courses. Students will be able to work as quickly as they are able to complete their developmental math sequence faster than traditional, semester-based courses. Students will only need to take the modules for which they do not already possess mastery instead of having to take and pay for a whole 3-credit course. M-Cubed is a valuable option for students allowing for more flexibility and tailoring to meet each student's individual needs. In Spring 2014 when the course was first offered as a trial course, two students completed all six credits in one semester and another student completed four credits (as she was able to test out of the first two Modules). Most students finished the first three Modules and one student who had placed into DEVM 105 finished the last three Modules. Overall the student response was wonderful: they loved it. I asked for informal feedback twice during the semester and made some changes based on my students' suggestions. I have created a set of DVDs with lectures corresponding to all 54 Mini Modules.

JUSTIFICATION FOR ACTION REQUESTED

The purpose of the department and campus-wide curriculum committees is to scrutinize course change and new course applications to make sure that the quality of UAF education is not lowered as a result of the proposed change. Please address this in your response. This section needs to be self-explanatory. Use as much space as needed to fully justify the proposed course.

Developmental mathematics would like to offer another delivery option for our diverse students. The topics covered in DEVM 060 Elementary Algebra and DEVM 105 Intermediate Algebra have been split up into three individual credits each in order to offer students a more tailor-made, and thus efficient, learning experience. Structure has been built in to insure that students receive the support and focus they need to complete their math sequence in a timely manner. Attendance will necessarily be a considerable part of their grade because M-Cubed is designed to help students finish their math sequence as quickly as possible. The only way to insure this is to require that a minimum amount of guided time is devoted to this class each week by the student. Since the course is self-paced and students are not all working on the same assignments at the same time, there is a very real danger of falling behind. Once a student gets behind, it becomes very difficult to catch up.

This course (together with courses DEVM 069E, 069F, 109G, 109H, and 109J) allows students to complete their developmental math sequence faster since, 1) students only need to complete the Modules for which they do not already exhibit mastery levels, thus saving them money as well, and 2) it is possible for students

to earn up to six credits (DEVM 060 and 105 topics) in one semester.

There are six single-credit modularized mastery math courses being submitted for new courses at this time. In order to distinctly identify and clarify each course, they are each assigned a different letter designator – starting with "D" and progressing up through "J" (note: "I" is skipped since it is problematic; it looks too much like the numeral 1.) Letters A, B, and C are being reserved for possible future development of three single-credit modularized mastery learning math courses covering our DEVM 050 Prealgebra course. The new course sequence consists of DEVM 069D, DEVM 069E, DEVM 069F (together they are equivalent to DEVM 060 Elementary Algebra), DEVM 109G, DEVM 109H, and DEVM 109J (together these last three are equivalent to DEVM 105 Intermediate Algebra).

The progression is as follows:

- 1. Students placing into DEVM 060-level math work a review of pre-test concepts for Module D (DEVM 069D).
- 2. Students then take the pre-test for Module D. If they receive 80% or higher, they already demonstrate mastery of these topics and will work the review of pre-test concepts for the subsequent Module. If the student receives less than 80%, they begin working Mini Modules (Mini Mods) associated with each question/concept they missed on the pre-test. Each Mini Mod covers one or two concepts broken down into smaller parts. Once they reach the required mastery level for each Mini Mod, they again work a review for their current Module, and after achieving the required mastery level on the review, they take the Module post-test. If they receive 80% or higher, they have completed the Module and will begin working the pre-test review for the next Module in the sequence. If they receive less than 80% mastery they begin reworking the associated Mini Mods for each question they missed.
- 3. Students continue working in this cycle until they complete each module in which they have registered.
- 4. Students do not pay for or earn credit for any module in which they already possess mastery. The professor helps manage the necessary paperwork for dropping and adding to insure that each student is registered only for the modules that they need in order to help streamline the process as much as possible for the student.

APPROVALS: Add additional signature lines as needed.
Date 9/23/14
Signature, Chair, Program/Department of: PEV EP
Jak Main Date 9/25/2014
Signature, Chair, College/School Curriculum Council for: CRC CRC CRC CRC CRC CRC CRC C
Pater Prince Date 9/29/14
Signature, Dean, College/School (no
Offerings above the level of approved programs must be approved in advance by the Provost.
Date
Signature of Provost (if above level of approved programs)
ALL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSION TO THE GOVERNANCE OFFICE
Date
Signature, Chair Faculty Senate Review Committee: Curriculum Review GAAC
Core ReviewSADAC
ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking)
Date
Signature, Chair, Program/Department of:
Signature, Chair, College/School
Curriculum Council for:
Signature, Dean, College/School
of:

ATTACH COMPLETE SYLLABUS (as part of this application). This list is online at: http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/uaf-syllabus-requirements/ The Faculty Senate curriculum committees will review the syllabus to ensure that each of the items listed below are included. If items are missing or unclear, the proposed course (or changes to it) may be denied. SYLLABUS CHECKLIST FOR ALL UAF COURSES During the first week of class, instructors will distribute a course syllabus. Although modifications may be made throughout the semester, this document will contain the following information (as applicable to the discipline): Course information: □Title, □ number, □credits, □prerequisites, □ location, □ meeting time (make sure that contact hours are in line with credits). 2. Instructor (and if applicable, Teaching Assistant) information: \square Name, \square office location, \square office hours, \square telephone, \square email address. 3. Course readings/materials: \square Course textbook title, \square author, \square edition/publisher. □ Supplementary readings (indicate whether □ required or □ recommended) and any supplies required. 4. Course description: Content of the course and how it fits into the broader curriculum; Expected proficiencies required to undertake the course, if applicable. \square Inclusion of catalog description is strongly recommended, and Description in syllabus must be consistent with catalog course description. 5. Course Goals (general), and (see #6) 6. Student Learning Outcomes (more specific) 7. Instructional methods: ☐ Describe the teaching techniques (eg: lecture, case study, small group discussion, private instruction, studio instruction, values clarification, games, journal writing, use of Blackboard, audio/video conferencing, etc.). 8. Course calendar: A schedule of class topics and assignments must be included. Be specific so that it is clear that the instructor has thought this through and will not be making it up on the fly (e.g. it is not adequate to say "lab". Instead, give each lab a title that describes its content). You may call the outline Tentative or Work in Progress to allow for modifications during the semester. 9. Course policies: ☐ Specify course rules, including your policies on attendance, tardiness, class participation, make-up exams, and plagiarism/academic integrity. 10. Evaluation: \square Specify how students will be evaluated, \square what factors will be included, \square their relative value, and \square how they will be tabulated into grades (on a curve, absolute scores, etc.) \square Publicize UAF regulations with regard to the grades of "C" and below as applicable to this course. (Not required in the syllabus, but is a convenient way to publicize this.) Link to PDF summary of grading policy for "C": http://www.uaf.edu/files/uafgov/Info-to-Publicize-C Grading-Policy-UPDATED-May-2013.pdf 11. Support Services: ☐ Describe the student support services such as tutoring (local and/or regional) appropriate for the course. 12. Disabilities Services: Note that the phone# and location have been updated. http://www.uaf.edu/disability/ The Office of Disability Services implements the Americans with Disabilities Act (ADA), and ensures that UAF students have equal access to the campus and course materials. ☐ State that you will work with the Office of Disabilities Services (208 WHITAKER

BLDG, 474-5655) to provide reasonable accommodation to students with disabilities.



DEVM 194

John Rhodes < jarhodes 2@alaska.edu> To: Kelly Houlton < klhoulton@alaska.edu>, Jane Weber < jane.weber@alaska.edu>

Tue, May 6, 2014 at 9:39 AM

As we discussed, I will direct DMS instructors to treat successful completion of the trial course DEVM 194 as on par with DEVM 105 for the purposes of fulfilling prerequisites for entry into MATH and STAT courses.

I also encourage other departments to do the same if they are using placement into math courses as a prerequisite.

John Rhodes DMS chair jarhodes2.vcf

Cc: Kelly Houlton <kihoulton@alaska.edu>, Jane Weber <jane.weber@alaska.edu> To: John Rhodes <jarhodes2@alaska.edu> Jane Weber <jmweber@alaska.edu>

Tue, May 6, 2014 at 9:51 AM

Thank you John!

jane [Quoted text hidden] Kelly Houlton <klhoulton@alaska.edu> To: John Rhodes <jarhodes2@alaska.edu> Thanks, John. I will let you know in the fall what course number has been chosen for DEVM 194J - currently we are looking at DEVM 109J.

Tue, May 6, 2014 at 9:52 AM



Course Informationp.	1
Course Calendarp.	4
ALEKS Informationp.	11
Grading Policyp.	12

SYLLABUS

*** PLEASE TURN OFF YOUR CELL PHONE AND ANY MUSIC DEVICES ***

1. Course information: DEVM 069D Modularized Mastery Math: Elementary Algebra (1 credit)

DEVM 069E (1 credit) DEVM 069F (1 credit)

DEVM 109G Modularized Mastery Math: Intermediate Algebra (1 credit)

DEVM 109H (1 credit) DEVM 109J (1 credit)

Prerequisites: DEVM 069: Grade of C or better in DEVM 050 or ABUS 155 or appropriate ALEKS PPL placement test scores. DEVM 109: Grade of C or better in DEVM 060; or DEVM 069F; or appropriate ALEKS PPL placement test scores. Prerequisite courses and/or placement exams must be taken within one calendar year; permission of instructor required.

Place: Gruening 406 Developmental Math Lab **Time:** Monday/Wednesday/Friday 8:00 – 9:00 AM

2. Instructor: Kelly Houlton, Assistant Professor, Department of Developmental Education

Office: Gruening 508E

Office Hours: Mon/Wed/Fri NOON – 3:00 PM, Tue/Thur 1:30 – 3:00 PM or by appointment

Phone/Email: 474-7526 / klhoulton@alaska.edu

Fax: 474-1118

Emergency: Call Renee Pike, 474-1112, Gruening 508

3. Course readings/materials: Required: Beginning and Intermediate Algebra, Sherri Messersmith, 3rd edition, (McGraw-Hill) on ALEKS (electronic copy of textbook). Required: ALEKS 360 access code to utilize ALEKS on computer. Recommended: Mastering Mathematics: How to be a Great Math Student by Richard Manning Smith (Wadsworth). These books are on reserve at the library on a 2-hour basis. If you do not have your ALEKS 360 access code yet, please see me after class. You will be provided with DVDs for each Module when you begin working the assignments.

Supplies checklist:	pencil
	eraser
	3-ring binder notebook
	lots of paper
	headphones (for watching math videos during class or lab times)

4. Course Description and Expectations: DEVM 069D, E and F each cover one credit of the DEVM 060 Elementary Algebra course and includes the following topics:

Module D - simplifying algebraic expressions, solving linear equations in one variable, solving linear and compound inequalities in one variable, applications of linear equations, and solving formulas;

Module E - linear equations in two variables, graphing linear equations, finding the slope of linear equations, writing equations of lines, exponent rules, and operations on polynomials;

Module F - factoring polynomials, solving quadratic equations by factoring, simplifying rational expressions, operations with rational expressions, complex fractions, solving rational equations, and applications of quadratic and rational equations.

DEVM 109G, H, and J each cover one credit of the DEVM 105 Intermediate Algebra course and includes the following topics:

Module G - solving systems of equations and applications, simplifying radicals and expressions with rational exponents, performing operations on radical expressions, solving radical equations, and performing operations on complex numbers;

Module H - review of solving quadratic equations by factoring, solving quadratic equations that are not factorable, relations and functions, quadratic functions and their graphs, performing operations on functions, compositions of functions, and applications of quadratic equations and functions;

Module J - solving absolute value equations and inequalities, solving linear and compound linear inequalities, solving quadratic and rational inequalities, inverse functions, exponential functions, logarithmic functions, properties of logarithms, and solving exponential and logarithmic equations.

Topics are split into mini-modules and worked until mastery is achieved. Some mini-modules may be skipped if a student already demonstrates mastery of them. Computers will be used within a structured and independent learning setting. **Prerequisites: DEVM 069 -** Grade of C- or better in DEVM 050 or ABUS 155 or appropriate ALEKS PPL placement test scores. **DEVM 109 -** Grade of C- or better in DEVM 060; or DEVM 069F; or appropriate ALEKS PPL placement test scores. Prerequisite courses and/or placement exams must be taken within one calendar year; permission of instructor required.

The sequence of courses DEVM 069D, 069E, and 069F is intended to prepare students for DEVM 105 Intermediate Algebra or DEVM 106 Intensive Intermediate Algebra. You must be able to perform basic math processes at the C- grade level or above. The sequence of courses DEVM 109G, 109H, and 109J is intended to prepare students for MATH 103, 107 or 161. You must be able to perform beginning algebra at the C- grade level or above.

Each module consists of a Preview (30 problems), Pre-test (30 problems), 9 mini-modules (MINI MODs) consisting of 5 Practice (Prac) problems and 10 Homework (HMWK) problems, Post-Review (30 problems), and a Post-test (30 problems). This class will be taught through videos, one-on-one computer classwork on ALEKS, small-group lectures and one-on-one tutoring. You will only work on the MINI MODs for which you do not already exhibit mastery based on the results of your Module Pre-tests. If you pass the Pre-test with 80% or higher we will transfer you to the next module in your sequence. There is no penalty for not achieving mastery instantly or for reworking MINI MODs or for retaking Module Post-tests. Attendance will be crucial in insuring that students are able to complete at least three, and possibly all six, Modules in one semester.

Here's the Game Plan for each Module:

- 1. Work the 30-problem Preview. Ask questions, but don't spend a lot of time here.
- 2. Schedule a time with me to take the Pre-test.
- 3. If you receive 80% or better you will be transferred to the next module in your sequence.

 If you receive less than 80% you will begin working the MINI MODs for the questions you missed.

- 4. Read the sections in the book associated with your first assigned MINI MOD, then watch the associated MINI MOD video on the DVD.
- 5. Work the MINI MOD Practice problems until you reach the required mastery level, then work the MINI MOD HMWK problems until you reach the required mastery level.
- 6. After reaching mastery levels for each MINI MOD, you will work the Post-Review.

you answered incorrectly. You will continue this cycle until you achieve mastery.

- 7. Schedule a time with me to take the Post-test.
- 8. If you receive 80% or better you have completed the module and earned one credit. You may begin work on the next module for which you have enrolled.

 If you receive less than 80% you will begin working the MINI MODs that correspond to the questions
- **5.** Course goals: The goal of DEVM 069 is for you to demonstrate mastery of prerequisite Elementary Algebra skills required for successful completion of DEVM 105 OR DEVM 109G, H, J OR DEVM 106. The goal of DEVM 109 is for you to demonstrate mastery of prerequisite Intermediate Algebra skills required for successful completion of MATH 103, 107 or 161. These skills include logical reasoning, knowing when and how to use appropriate formulas, communicating mathematical solutions verbally and in writing, critical thinking and problem-solving skills, collaborative learning, and appreciation for the importance and beauty of mathematics.

6. Student Learning Outcomes:

DEVM 069

Module D:

- 1. Simplify and evaluate algebraic expressions
- 2. Solve linear equations in one variable
- 3. Solve and graph linear inequalities in one variable
- 4. Solve applied problems using linear equations in one variable

Module E:

- 5. Solve linear equations in two variables
- 6. Graph and interpret linear equations
- 7. Determine the slope of a line
- 8. Determine equations of lines
- 9. Apply understanding of exponent rules
- 10. Perform operations on polynomials

Module F:

- 11. Factor polynomials
- 12. Solve quadratic equations by factoring
- 13. Simplify and perform operations on rational expressions
- 14. Solve rational equations
- 15. Solve applied quadratic and rational equations problems

DEVM 109

Module G:

- 1. Solve systems of linear equations
- 2. Simplify and perform operations on radical expressions and rational exponents
- 3. Solve radical equations
- 4. Simplify and perform operations on complex numbers
- 5. Solve applied problems using systems of linear equations

Module H:

- 6. Solve quadratic equations that are not factorable
- 7. Graph and interpret linear functions
- 8. Graph and interpret quadratic functions
- 9. Graph and interpret absolute value functions
- 10. Graph and interpret square root functions
- 11. Combine, compose, and evaluate functions
- 12. Solve applied problems with quadratic equations and functions

Module J:

- 13. Solve linear absolute value equations
- 14. Solve linear inequalities in two variables
- 15. Solve quadratic inequalities
- 16. Determine and graph inverse functions
- 17. Graph and interpret exponential functions
- 18. Graph and interpret logarithmic functions
- 19. Solve exponential and logarithmic equations
- 7. Instructional methods: This class will be taught through videos, one-on-one computer classwork on ALEKS, small-group lectures and one-on-one tutoring outside of class following a modularized, mastery learning format. Attendance is very important in order to finish three, or all six, modules in one semester.
- 8. Course calendar: Note since you will be working independently, this schedule will vary. I will check your notebook three times this semester. There are three calendars here: one for completing all six modules this semester (DEVM 069D, E, F and DEVM 109G, H, J); one for completing the first three modules this semester (DEVM 069D, E, F); and one for completing the last three modules this semester (DEVM 109G, H, J). Keep in mind that you may not need to do every module or MINI MOD (based on your Pre-test scores.) You should be working on M-Cubed EVERY DAY!

CALENDAR FOR FINISHING ALL 6 MODULES:

Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
#:							
	8-31-14	9-1-14	9-2-14	9-3-14	9-4-14	9-5-14	9-6-14
1						Mod D	
						Preview	
					1 st day of	1st day of M-	
					classes	Cubed class	
	9-7-14	9-8-14	9-9-14	9-10-14	9-11-14	9-12-14	9-13-14
2							
		Mod D Pre-test		28 Prac		31 Prac	
				28 HMWK		31 HMWK	
27				29 Prac		32 Prac	
				29 HMWK		32 HMWK	
				30 Prac		33 Prac	
				30 HMWK			
	9-14-14	9-15-14	9-16-14	9-17-14	9-18-14	9-19-14	9-20-14
3							
		33 HMWK		35 HMWK		Mod D Post-	!
		34 Prac		36 Prac		test	
		34 HMWK		36 HMWK		Mod E	
		35 Prac		Mod D Post-		Preview	
				Review			
		Lab Sheet Due				<u> </u>	

	9-21-14	9-22-14	9-23-14	9-24-14	9-25-14	9-26-14	9-27-14
4	9-21-14	9-22-14	9-23-14	9-24-14	9-23-14	9-20-14	9-27-14
4		Mod E Pre-test		38 Prac		41 Prac	
		37 Prac		38 HMWK		41 HMWK	
		37 HMWK		39 Prac		42 Prac	
		3 / FLIVI W K		39 HMWK		I	
						42 HMWK	
		I als Classes Days		40 Prac 40 HMWK		43 Prac	
	9-28-14	Lab Sheet Due 9-29-14	0.20.14		10 2 14	43 HMWK	10-4-14
5	9-28-14	9-29-14	9-30-14	10-1-14	10-2-14	10-3-14	10-4-14
3		44 Prac		Mod E Post-		Mod F	
		44 HMWK		Review		Preview	
		45 Prac		Mod E Post-		Mod F Pre-	
		45 HMWK		test			
		Lab Sheet Due		lest		test	
6	10-5-14	10-6-14	10-7-14	10-8-14	10-9-14	10-10-14	10-11-14
6	10-3-14	46 Prac	10-7-14	10-8-14	10-9-14	10-10-14	10-11-14
		46 HMWK		48 HMWK		51 Prac	
		47 Prac		49 Prac		51 Prac 51 HMWK	
	- 11	47 HMWK		49 Frac 49 HMWK		51 HIVIWK	
		48 Prac		50 Prac		52 Prac 52 HMWK	
		Lab Sheet Due		50 Prac 50 HMWK		JZ FIIVI W K	
	10-12-14	10-13-14	10-14-14	10-15-14	10-16-14	10-17-14	10-18-14
7	10-12-14	10-13-14	10-14-14	10-13-14	10-10-14	10-17-14	10-16-14
/		53 Prac		Mod F Post-		Final Exam	
		53 HMWK		Review		Review	
		54 Prac		Mod F Post-		Review	
		54 HMWK		test		DEVM 060	
		34 IIIVI WIK		tost		written final	
		Lab Sheet Due				exam	
	10-19-14	10-20-14	10-21-14	10-22-14	10-23-14	10-24-14	10-25-14
8	10 17 11	10 20 11	102111	10 22 11	10 25 11	102111	10 25 11
		Mod G		55 Prac		57 Prac	
		Preview		55 HMWK		57 HMWK	
	ł	Mod G Pre-test		56 Prac	_	58 Prac	
		Lab Sheet Due		56 HMWK		58 HMWK	
	10-26-14	10-27-14	10-28-14	10-29-14	10-30-14	10-31-14	11-1-14
9							
		59 Prac		61 HMWK		Mod G Post-	
		59 HMWK		62 Prac		Review	
		60 Prac		62 HMWK		Mod G Post-	
		60 HMWK		63 Prac		test]
		61 Prac		63 HMWK			
		Lab Sheet Due					
	11-2-14	11-3-14	11-4-14	11-5-14	11-6-14	11-7-14	11-8-14
10		-					
		Mod H		64 Prac		67 Prac	
		Preview		64 HMWK		67 HMWK	
		Mod H Pre-test		65 Prac		68 Prac	
				65 HMWK		68 HMWK	
				66 Prac			
				66 HMWK			
		Lab Sheet Due		Last day to			
				add a Module			
			1			·	1

	11-9-14	11-10-14	11-11-14	11-12-14	11-13-14	11-14-14	11-15-14
11							
		69 Prac		71 Prac		Mod H Post-	
		69 HMWK		71 HMWK		Review	
		70 Prac 70 HMWK		72 Prac 72 HMWK		Mod H Post-	
		70 FIIVI W K		12 HIVI W K		test	
		Lab Sheet Due					
	11-16-14	11-17-14	11-18-14	11-19-14	11-20-14	11-21-14	11-22-14
12		MALTE		72 D		75.5	
		Mod J Preview		73 Prac		75 Prac	
		Mod J Pre-test		73 HMWK		75 HMWK	
				74 Prac		76 Prac	
		I als Classes Davis		74 HMWK		76 HMWK	
	11-23-14	Lab Sheet Due	11 25 14	11.06.14	11 07 14	11 00 14	11 00 14
13	11-23-14	11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14
13		77 Prac		79 Prac			
		77 HMWK		79 HMWK	No	No classes	
		78 Prac		80 Prac	classes	INO Classes	
		78 HMWK		80 HMWK	Classes		
		Lab Sheet Due		80 IIIVI W K			
	11-30-14	12-1-14	12-2-14	12-3-14	12-4-14	12-5-14	12-6-14
14							
		81 Prac		Mod J Post-		DEVM 105	
		81 HMWK		test		written final	
		Mod J Post-				exam	
		Review		Final Exam			
	!			Review	1	Last day of	
		Lab Sheet Due				M-Cubed	

CALENDAR FOR FINISHING MODULES D, E AND F:

Week	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
#:	8-31-14	9-1-14	9-2-14	9-3-14	9-4-14	9-5-14	9-6-14
1	0-31-14	3-1-14	9-2-14	7-3-14	7-4-14	9-3-14	9-0-14
						Mod D	
						Preview	
					(classes	(start)	
					start)	1 st day of M-	
					Jun 17	Cubed class	
	9-7-14	9-8-14	9-9-14	9-10-14	9-11-14	9-12-14	9-13-14
2		Mod D		Mod D Pre-		28 Prac	
		Preview (fin.)		test		28 HMWK	
		, ,				29 Prac	
						29 HMWK	
3	9-14-14	9-15-14	9-16-14	9-17-14	9-18-14	9-19-14	9-20-14
3		30 Prac		31 Prac		32 Prac	
		30 HMWK		31 HMWK		32 HMWK	
		Lab Sheet Due					

	9-21-14	9-22-14	9-23-14	9-24-14	9-25-14	9-26-14	9-27-14
4		22 Dec -		24 D		26 Days	
		33 Prac 33 HMWK		34 Prac 34 HMWK		35 Prac 35 HMWK	
				STIMTWIK		33 1HVI VVIL	
		Lab Sheet Due					
5	9-28-14	9-29-14	9-30-14	10-1-14	10-2-14	10-3-14	10-4-14
		36 Prac		Mod D Post-		Mod D Post-	
		36 HMWK		Review		test	
		Lab Sheet Due					
6	10-5-14	10-6-14	10-7-14	10-8-14	10-9-14	10-10-14	10-11-14
		Mod E Preview (start)		Mod E		Mod E Pre-	
		Lab Sheet Due		Preview (fin.)		test	
	10-12-14	10-13-14	10-14-14	10-15-14	10-16-14	10-17-14	10-18-14
7	1	37 Prac		38 Prac		20 D	
		37 HMWK		38 HMWK		39 Prac 39 HMWK	
		Lab Sheet Due					
	10-19-14	10-20-14	10-21-14	10-22-14	10-23-14	10-24-14	10-25-14
8		40 Prac		41 Prac		42 Prac	
		40 HMWK		41 HMWK		42 HMWK	
						43 Prac	
	10-26-14	Lab Sheet Due	10-28-14	10-29-14	10-30-14	43 HMWK 10-31-14	11-1-14
9	10-20-14	10-27-14	10-20-14	10-29-14	10-30-14	10-31-14	11-1-14
		44 Prac		45 Prac		Mod E Post-	
		44 HMWK		45 HMWK		Review	
		Lab Sheet Due					
	11-2-14	11-3-14	11-4-14	11-5-14	11-6-14	11-7-14	11-8-14
10		Mod E Post-		Mod F		Mod F Pre-	
		test		Preview		test	
				Last day to			
	11-9-14	Lab Sheet Due	11-11-14	add a Module	11-13-14	11-14-14	11-15-14
11	11-7-14	11-10-14	11-11-14	11-12-14	11-13-14	11-14-14	11-13-14
		46 Prac		47 HMWK		48 HMWK	
		46 HMWK		48 Prac		49 Prac	
		47 Prac Lab Sheet Due				49 HMWK	
	11-16-14	11-17-14	11-18-14	11-19-14	11-20-14	11-21-14	11-22-14
12		50 P		51 D		60 ID (1377)	
		50 Prac 50 HMWK		51 Prac 51 HMWK		52 HMWK 53 Prac	
		Lab Sheet Due		52 Prac		53 HMWK	
4.5	11-23-14	11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14
13		54 Prac		Mod F Post-			
		54 HMWK		Review	No		
		Lab Sheet Due			classes	No classes	

	11-30-14	12-1-14	12-2-14	12-3-14	12-4-14	12-5-14	12-6-14
14							
		Mod F Post-	STUDY	STUDY	STUDY	DEVM 060	
		test				written final	
						exam	
		Final Exam					
		Review				Last day of	
			1			M-Cubed	
		Lab Sheet Due					

CALENDAR FOR COMPLETING MODULES G, H, AND J:

Week #:	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	8-31-14	9-1-14	9-2-14	9-3-14	9-4-14	9-5-14	9-6-14
						Mod G	
						Preview	
						(start)	
					1st day of	1st day of M-	
					classes	Cubed class	
•	9-7-14	9-8-14	9-9-14	9-10-14	9-11-14	9-12-14	9-13-14
2		Made		Mad C Dua		65 D	
		Mod G Preview (fin.)		Mod G Pre-		55 Prac 55 HMWK	
		Fieview (IIII.)		test		56 Prac	
	9-14-14	9-15-14	9-16-14	9-17-14	9-18-14	9-19-14	9-20-14
3							2011
		56 HMWK		57 HMWK		59 Prac	
		57 Prac		58 Prac		59 HMWK	
		Lab Sheet Due		58 HMWK			
	9-21-14	9-22-14	9-23-14	9-24-14	9-25-14	9-26-14	9-27-14
4		60 D					
		60 Prac		61 Prac		62 Prac	
		60 HMWK Lab Sheet Due		61 HMWK		62 HMWK	
	9-28-14	9-29-14	9-30-14	10-1-14	10-2-14	10-3-14	10-4-14
5	7-20-14	9-29-14	9-30-14	10-1-14	10-2-14	10-5-14	10-4-14
		63 Prac		Mod G Post-		Mod G Post-	
		63 HMWK		Review		test	
		Lab Sheet Due					
6	10-5-14	10-6-14	10-7-14	10-8-14	10-9-14	10-10-14	10-11-14
		Mod H		Mod H Pre-		64 Prac	
		Preview Lab Sheet Due		test		64 HMWK	
	10-12-14	10-13-14	10-14-14	10-15-14	10-16-14	10-17-14	10-18-14
7	10-12-14	10-13-14	10-14-14	10-13-14	10-10-14	10-17-14	10-10-14
,		65 Prac		66 Prac		67 Prac	
		65 HMWK		66 HMWK		67 HMWK	
		Lab Sheet Due					
8	10-19-14	10-20-14	10-21-14	10-22-14	10-23-14	10-24-14	10-25-14
		68 Prac					
		68 HMWK		69 Prac		70 Prac	
	L	Lab Sheet Due		69 HMWK		70 HMWK	

	10-26-14	10-27-14	10-28-14	10-29-14	10-30-14	10-31-14	11-1-14
9		71 D	i	50 D		3.6 177.5	
		71 Prac	;	72 Prac		Mod H Post-	
		71 HMWK		72 HMWK		Review	
	11-2-14	Lab Sheet Due	11-4-14	11-5-14	11-6-14	11-7-14	11-8-14
10	11-2-14	11-3-14	11-4-14	11-5-14	11-0-14	11-/-14	11-8-14
10		Mod H Post-		Mod J		Mod J Pre-	
		test		Preview		test	
				Last day to		**	
		Lab Sheet Due		add a Module			
	11-9-14	11-10-14	11-11-14	11-12-14	11-13-14	11-14-14	11-15-14
11							ļ
		73 Prac		74 Prac	9	75 HMWK	
		73 HMWK		74 HMWK		76 Prac	
		Lab Sheet Due		75 Prac		76 HMWK	
1.0	11-16-14	11-17-14	11-18-14	11-19-14	11-20-14	11-21-14	11-22-14
12		77 D		70 11 43 177		70 113 43377	
		77 Prac 77 HMWK		78 HMWK 79 Prac		79 HMWK 80 Prac	
		78 Prac		/9 Prac		80 Prac 80 HMWK	
		/6 F1ac				OU TIVI W K	ŀ
		Lab Sheet Due					
	11-23-14	11-24-14	11-25-14	11-26-14	11-27-14	11-28-14	11-29-14
13							
		81 Prac		Mod J Post-			
		81 HMWK	307	Review	No	_	
	11.00.11	Lab Sheet Due	10011	10.0.11	classes	No classes	10 () (
1.4	11-30-14	12-1-14	12-2-14	12-3-14	12-4-14	12-5-14	12-6-14
14		MadiDadaad	CTUDY	CTLIDY	OTHER	DEVIA 105	
		Mod J Post-test	STUDY	STUDY	STUDY	DEVM 105 written final	
		Final Exam				exam	
		Review				Last day of	
		Lab Sheet Due				M-Cubed	

9. Course policies: In addition to attending class (3 hours per week at 2 points per class = 6 pts), you are required to spend 2 hours every week in our Math Lab in Gruening 406 or CTC 120 (1 pt per lab hour = 2 pts, for a total weekly score of 8 pts). You will need to keep track of your lab hours on your Lab Sheet and have the lab tutor sign for each session. Your completed Lab Sheet is due each Monday, starting 9-15-14. Since each person is working at their own pace on varying assignments, there is a very real danger of lagging behind. Attendance in class and acquiring the necessary lab time every week will be crucial. Once you fall behind it is very difficult to get caught up – particularly in math classes!

You will need lots of paper and a 3-ring binder notebook that allows for good organization. You will also need daily computer access with reliable internet connection to work on your ALEKS assignments outside of class. Since you will need to watch videos during class and lab times, you will need a set of headphones that plug into the computer.

Your responsibilities include:

- attending every class on time
- attending Math Lab for at least 2 required hours per week
 - being prepared with pencil, eraser, and notebook for every class

- taking complete notes during class, while watching videos and while working on ALEKS
- organizing your notebook
- achieving required levels of mastery on your ALEKS assignments
 - seeking extra help whenever you have questions
 - helping your fellow classmates during class time and in the Math Lab
 - improving and refining your study skills

Classroom Rules: Attendance is mandatory. You are expected to be on time for each class, prepared to take notes, and ready to work. If you have to be late, please take a seat *quietly* without disrupting class. If you are more than 15 minutes late, you will be counted absent. Please note that sleeping is the same as being absent. You will be asked to leave class if your cell phone rings or you are texting during class. Cheating is not tolerated and will result in a failing grade. All of your work on ALEKS must be done by you. Be honest in all your work and show the highest integrity in how you conduct yourself during your academic career. Please let me know if anything distracts you during class so I can deal with it promptly. Our classroom is a safe place where we are each accepted and respected, and we will all work together to ensure that each of us has a successful semester.

Attendance/Participation Policy: This class requires your attendance for 5 hours each week. This is a MINIMUM. It is easy to fall behind when working at your own pace. The only way to master the material is to spend the necessary amount of time in learning it. We will meet 3 hours per week during our scheduled class time (2 points per class = 6 pts), and you will spend an additional 2 hours per week in our Math Labs in Gruening 406 or CTC 120 (1 pt. per lab hour = 2 pts, for a total weekly score of 8 pts). You may schedule these 2 additional hours at any time that fits your schedule – just see the lab schedule for days and times. Keep track of your hours on your Lab Sheet, making sure to get the lab tutor's signature before you leave the lab each time. You are also encouraged to work at home on your ALEKS assignments as much as possible. You are not required to keep a log of the time you spend working outside of the lab.

If you have to miss a class, send me an email explaining why and make up an extra 2 hours in the Math Lab. If you are really sick or traveling, send me an email informing me of the expected days of class you will miss. Upon returning you will simply pick up from where you left off, but you must inform me of your expected absences.

You will need to come to class in time to get logged in on a computer before class starts. If you are more than 15 minutes late you will be marked absent and will need to work an extra 2 hours in the Math Lab.

Students not acquiring enough lab hours each week will be withdrawn from the class. Please keep in mind that attendance and participation are very important and will be 30% of your overall grade for Modules D, E, G and H. Attendance and participation will be 20% of your overall grade for Modules F and J, and a written final exam will be 10% of your overall grade for these two modules.

Your **notebook** will be graded three times this semester (possible 10 pts for each check). These are the six parts you will be graded on:

- 1. Syllabus this should be in your notebook at all times (+1 pt).
- 2. Module Pre- and Post-tests Master Sheets keep these lists readily handy (+1 pt).
- 3. MINI MOD Checklist keep track of the dates you attain mastery of each assignment (+1pt).
- 4. Notes from mini-lectures during class, from your ALEKS eBook readings, from watching math videos, from working with me or the lab tutors (+2 pts).
- 5. Work write down each problem from the Practices, HMWKs, Previews and Post-Reviews and show all your work (+2 pts). NOTE: you may combine your notes and work together for 4 pts.
- 6. Vocabulary Sheet this must be completed as soon as possible (+3 pts).

Assignments on ALEKS:

ALEKS is a web-based, artificially intelligent assessment and learning system that provides the advantages of one-on-one instruction, 24/7, from virtually any web-based computer for a fraction of the cost of a human tutor.

<u>How ALEKS will be graded in this class</u>: MINI MODs, Reviews and Post-tests (all work must be your own – be honest.)

• You will need to buy an ALEKS 360 access code. You can purchase ALEKS at the UAF Bookstore or directly from the website:

To buy ALEKS 360 online:

- 1. Go to www.aleks.com and click on "sign up now"
- 2. Enter the course code (see above) and click "continue"
- 3. Confirm that it is the correct class and click "continue"
- 4. Click "purchase an access code online" and select "Higher Ed 1-semester (18 weeks)"
- 5. Follow the on-screen instructions
 - Go to www.aleks.com and click on "sign up now", choose the option for using ALEKS 360 with a class, and enter the course code TCGNQ VPJTF You will then be asked to input your student code which came with your ALEKS 360 access code or was purchased on the website. This will put you into the correct course. Here is a financial aid code you can use to access ALEKS for two weeks:

F32B5 - B9005 - F148B - 5B2FE

- After you establish your account on ALEKS, you will be asked to take an interactive tutorial that explains how to
 enter answers on ALEKS. Once you've taken the tutorial you will take an initial assessment which includes about
 25 to 30 questions. YOU CAN SKIP THIS INITIAL ASSESSMENT BY QUICKLY TYPING IN ANY
 NUMBER FOR EACH QUESTION.
- NOTE: If you do not have internet access there are several labs on campus which are ALEKS-ready including the DEVM lab in Gruening 406, the library, the Bunnell computer lab, and CTC 120.
- We will be using ALEKS for Practice, Homework, Reviews, and Previews and Post-tests. All of our ALEKS work will be listed under the "Assignments" tab. Write each problem down on paper along with the problem number and then work it out carefully. You can recheck your answers before you submit your answers. Organize all your work in your notebook.
- Once you have checked your answers you can "submit" your work. It will be graded instantly and you can go back and look at any problems you may have missed to see the correct answer and an explanation. You can redo the Practice, Homework, and Reviews as many times as is necessary to achieve the required level of mastery. You will only need to rework the problems you missed. ALEKS will automatically record your best score. Preview and Post-test problems can only be worked one time.
- If ALEKS ever seems to freeze up, it usually means that you must take an assessment. This is connected to the ALEKS Pie which we are not using for this class.
- How to find answers in the "back" of the eBook for odd-numbered problems:
- 1. Click on "eBook"
- 2. Click on "Book Contents" (top middle of the new window that pops up)
- 3. Click on "End Matter" (bottom on the right)
- 4. Click on "End Matter Sections" (on the right, down a little bit)
- 5. "Answers to Exercises" with a list of the chapters will be all in blue text, so click on the chapter you want, and then scroll to find the section you want.

Note: If you are texting during class or listening to music with headphones, you are not participating in class or contributing to the learning environment. I will ask you to leave if your cell phone rings or you are texting during class. Your full participation is required.

10. Evaluation: Your grade will be based on your MINI MOD and Review scores (averaged together), your attendance/participation (which includes your notebook), and your Module Post-test. Attendance will count 2 points per class hour and one point per lab hour with a total of 8 points possible per week. Your notebook is worth 10 points per check (I will check it 3 times during the semester) for a possible total of 30 points.

Grading Policy:

% of Grade:

Grading Scale (no curve):

40% MINI MODs and Reviews

(20% for MODs F and J)

90 - 100% A

30% Attendance/Participation (MODs D, E, G, H) 80 – 89% B

79% and lower, Incomplete

30% Module Post-test

10% Written Final Exam (MODs F and J only)

- NOTE: Students who are not attending or making significant progress (70%) will be withdrawn from the class.
- 11. Support Services: Free tutoring is available in our Math Labs in Gruening 406 and CTC 120. Please see lab schedule for days and times. There are computers in each lab that you can use to work on ALEKS assignments.
- **12. Disabilities Services:** The Office of Disability Services located in the Center for Health and Counseling (474-5655, 208 WHIT) implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal and reasonable access to the campus and course materials. Please let me know as soon as possible if you have a letter of accommodation. I will work with the Office of Disabilities Services to provide reasonable accommodation to students with disabilities.