	9. CONTACT HOURS PER WE		LECTURE hours/weeks	1.0 LAB hours /w	eek l b	RACTICUM ours /week
	Note: # of credits are ba	ased on contact	hours. 800 min	utes of lecture	=1 credit. 2	2400 minutes
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	OTHER HOURS (specify					
	type)				·-··	

PREREQUISITES	An Accuplacer College Math score of at least 70 or placement into MATH 200X Calculus
These will be re	equired before the student is allowed to enroll in the course.
SPECIAL RESTRICT NDITIONS PROPOSED COURSE	FEES \$25
Has a memo bee	en submitted through your dean to the Provost for fee approval? Yes/No
PREVIOUS HISTORY	
Has the course be previously? Yes/No	een offered as special topics or trial course NO
If yes, give seme	ester, year,

WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.

This course will be offered in place of one section of MATH 108, a 3 credit math course. Thus, we have added one credit to the total number of credits DMS must teach each semester, a small addition. However, in the long run, we expect the course to reduce the DMS teaching load by allowing appropriate students to take a single 4-credit course to prepare for MATH 200 Calculus I instead of two courses for a total of 7 credits.

This course will require extensive use of a computer lab. As a result, enrollment in the course will be

JUSTIFICATION FOR ACTION REQUESTED The purpose of the departituent and campus-wide this in your response. This section needs to be self-explanatory. With the pre Sent curriculy repared to take Calculus I will need to pass both MATH 107X Functions for Calculus if 9.0 cereta osphyxambre, Trigonometry (3.0 credits) in order to satisfy the prerequisites for Talculus. Most s idents in this intage that the material o non-trigonometric function * 107A nas gillighte to be used as a terminal core math course for the n wority of enr led students. A recent Is This study found ide requireme than MATH 107X and MATH 108X, explicit as. The majority of outside-of-class work will be tailored to the student's particular w student and shows prinasterfyrological jalofmar i unic oods and weakness in exponetiorar i ut vih pelabit iolsis lister ist in the state of the second o Maria Mala Maria Mar Maria Ma 89 | | | 18

Signature, Chair Faculty Senate Review Committee: Curriculum Review GAAC ADDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking) Date	Faculty Senate Review Committee: Curriculum Review GAAC DITIONAL SIGNATURES: (As needed for cross-listing and/or stacking) Date	Signature, Chair Faculty Senate Review Committee: Curriculum Review GAAC DDITIONAL SIGNATURES: (As needed for cross-listing and/or stacking) Date	<u> </u>		E GOVERNANCE OFFICE
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	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
ι	During the first week of class, instructors will distribute a course syllabus. Although
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73	following information (as applicable to the discipline): 1. 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: Name, office location, office hours, telephone, email address.
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<u> </u>	Course textbook title, author, dedition/publisher.
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	MATH_1918. Propagation for Calculus_Spring_2014
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ī	Syllabus
	Instructor: Jill Faudree Contact Details: Chapman 301D, jrfaudree@alaska.edu, 474-7385 Office Hours: MW 1:00pm-2:00pm, T 12:45pm-1:45pm, and by appointment. Also, you are welcome to drop by.
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properties, and it graphical characterizations. It is also useful for the student to recognize that the structure of this course emphasizes mastery of all of the material, since Calculus I students will need to have facility with need of the students are seened.
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STUDENT LEARNING OUTCOMES:
STUDENT LEARNING OUTCOMES:
In the list below the standard time of function or erroression refers to the list of functions in

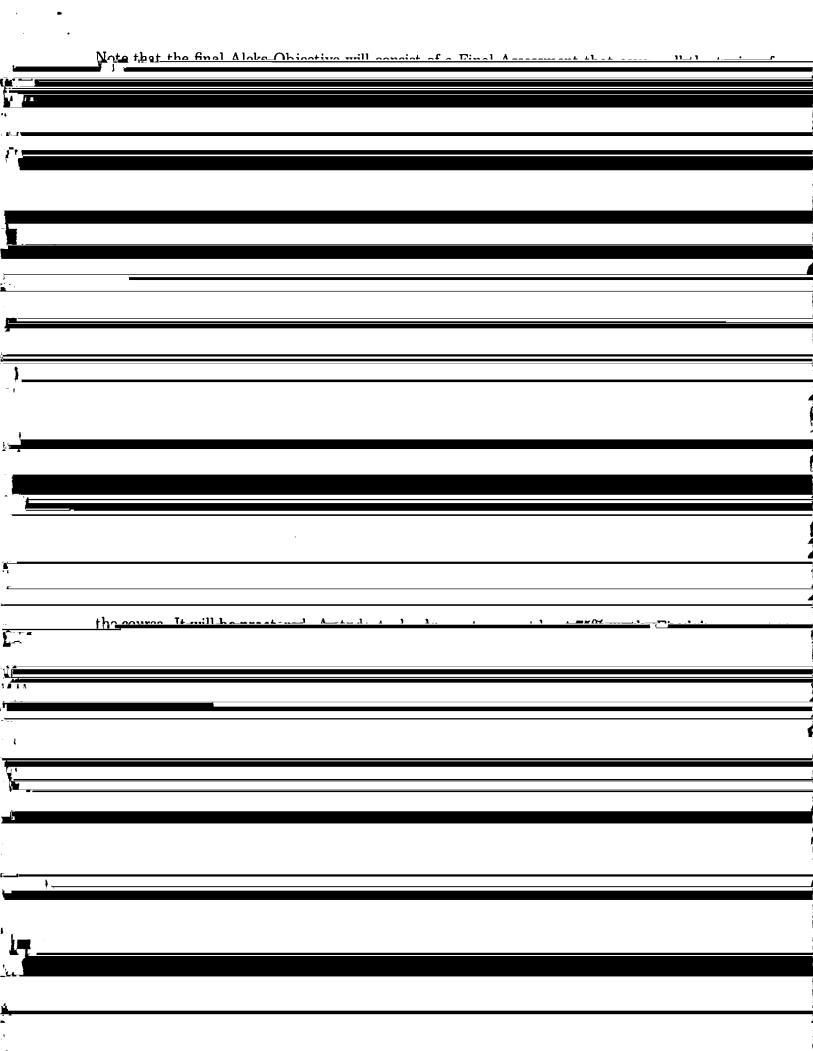
the course description: polynomial, rational, exponential, logarithmic, and trigonometric. After completing this course, students will be able to:

- identify and find solutions to equations and inequalities of the standard set of functions.
- simplify expressions of the standard types.
- graph and interpret graphs of the standard functions.
- understand the basic properties of functions generally.
- apply a variety of techniques to find solutions to given equations.
- move between numerical, algebraic, and graphical representations of the standard set of functions with facility.
- apply both the unit circle definition and the triangle definition to evaluate or graph trigonometric functions.

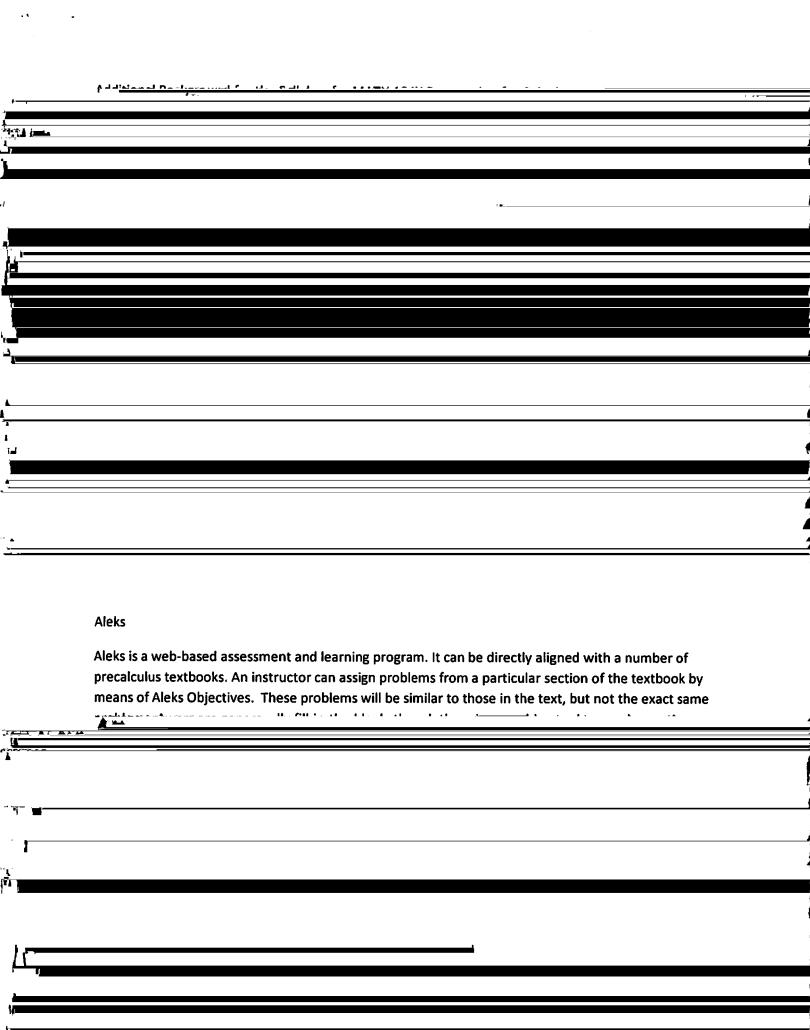
INSTRUCTIONAL METHODS:

This is a "hands-on" mathematics class. The four designated lecture hours will consist of short over-view lectures followed by in-class work including quizzes. There is also a one-hour lab session

	 (week 5) Polynomial Functions: quadratics, higher-order polynomials, division of polynomials, zeros of polynomials. 3.1-3.4
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	on Chapters 1,2, and 3.
	7. (week 7) Exponential and Logarithmic Functions, Part I: definitions and basic properties of exponential and logarithmic functions. 4.1-4.4
	8. (week 8) Exponential and Logarithmic Functions, Part II: equations containing exponential and logarithmic expressions, modeling with exponential and logarithmic functions, 4.5-4.6
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to: missing an exam, repeatedly failing to take quizzes or to complete Aleks objectives, or having a failing average (below 70%) at the withdrawal date.



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	this to the attention of the student and attempt to remedy any problems. If we see a student spent 45
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	minutes on one particular topic, the TA can address this topic with this student directly in the lab.
	The Lab Hour will be mandatory for all students. Students will be allowed two excused absences during
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Math 194X Preparation for Calculus Spring 2014

Quiz 1: Sections 2.5 and 2.6

Friday 1 February 2014	NAME:

No calculators, notes, books, or aids of any kind. You must show your work to receive full-credit. This quiz has two questions is worth 20 points.

(a) (5 points) Express the function in standard form.

(b) (5 points) Find its vertex and any x- or y-intercepts.

Math 194 Preparation for Calculus Spring 2014 Worksheet: Combining Functions

Let $f(x) = \sqrt{x-1}$ and let $g(x) = x^3 + 2$.

(a) f(g(0))

(b) g(f(0))

(c) g(f(9))

(d) (g+f)(10)



Tom Green <tkgreen@alaska.edu>

Math 194X Trial Course

Jill Faudree < jrfaudree@alaska.edu>

Wed, Sep 25, 2013 at 6:14 AM

To: Tom Green <tkgreen@alaska.edu>

Cc: Jessica Larsen <jflarsen@alaska.edu>, Channon Price <cpprice@alaska.edu>

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Dr. Jill Faudree **Associate Professor of Mathematics Department of Mathematics and Statistics** University of Alaska Fairbanks

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