Submit original with signatures + 1 copy + electronic copy to Faculty Senate (Box 7500).

See http://www.uaf.edu/uaigov/faculty-senate/curriculum/course-degree-procedures-/ for a complete **Resport of the procedures** for a complete **Resport of the procedures** for a complete **Resport of the procedures** for a complete **Respond of the procedures** for a complete **R**

TRIAL COURSE OR NEW COURSE PROPOSAL (Attach copy of syllabus)

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6. FREQUENCY OF OFFERING:	Fall/Spring/Summer (offered in Wintermester, Maymaster and Summer)

7. SEMESTER & YEAR O AY2015-16 if approved AY2016-17)					Fall	2017		
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Example of a <u>complete</u> description:	tion, cross-listings
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3 Credits Offered Spring Thomas and provides of fishering management with an application of the street of the stre	. 41
Theory and practice of fisheries management, with an emphasis on strategies utilized for freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F or ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with N	7111X: ENGL F211X
MATH F230R Prep for Essential Calculus with Applications	
1 Credit	
An intensive, individualized review of prerequisite topics needed in	Essential
Calculus with Applications along with small group practice of relate	d topics.
Emphasis will be placed on problem solving and mathematical comm	nunication.
Also included will be instruction on how to be successful in calculus	
may be earned for taking MATH F230R or MATH F230S, but not for b	
Prerequisites: Previous W or grade below C- in MATH F230X; or place	cement into
MATH F230 or departmental recommendation.	
Lecture + Lab + Other: 0.7 + 1 + 0	.][
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Major Course Change LETTER:	- Format 2 form	Note: Changing the grading system for a co	urse later on constitutes	a
<u> </u>	ASS/FAIL: X			
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RESTRICTIONS ON ENROLL 14. PREREQUISITES	Previous '	W or grade below C- in <u>MATH F2</u> I F230 X ; or departmental recom	30X; or placemen	- t
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18. ESTIMATED IMPACT
WHAT IMPACT, IF ANY, WILL THIS HAVE ON BUDGET, FACILITIES/SPACE, FACULTY, ETC.
The course requires use of a computer lab for the two weeks that the course meeting. It will also require a course blackboard shell. All other resources will come out of the current DMS math bridge program.
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. No Yes
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)
This will primarily impact DMS but peripherally will impact any program that requires core math (in particular, biology and School of Management)
21. POSITIVÉ AND NEGATIVE IMPACTS
Please specify positive and negative impacts on other courses, programs and departments resulting from the proposed action.
Positive: -Students will gain knowledge and skills needed to succeed in mathematics; -Students will be less likely to repeat this math class more than once -students will be more prepared for quantitative work in their program Negative: -more complicated advising; -harder for students to register for their core math course if they've failed it once.

The purpose of the department and campus-wide curricul course applications to make sure that the quality of UAF e change. Please address this in your response. This section needed to fully justify the proposed course.	ducation is not lowered as a result of the pro	posed
We thought we were offering this Prep course along we Math 151R, Math 156R, Math 251R) but apparently in	The state of the second	22R,
APPROVALS: Add additional signature lines as neede		
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Signature, Dean, College/School of:		
Offerings above the level of approved programs mu	st be approved in advance by the Provos	t.
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Signature of Provost (if above level of approved progra	ms)	
ALL SIGNATURES MUST BE OBTAINED PRIOR TO S	UBMISSION TO THE GOVERNANCE OF	FICE
	Date	

Signature, Chair Faculty Senate Review Committee:Curriculum Review	GAAC	:
Core ReviewSADAC		
ADDITIONAL SIGNATURES: (As needed for cross-listing an	d/or stacking)	
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Signature, Chair, College/School Curriculum Council for:		
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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 <u>denied</u>.

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):

1. Course information:

 θ Title, θ number, θ credits, θ prerequisites, θ location, θ meeting time (make sure that contact hours are in line with credits).

- 2. Instructor (and if applicable, Teaching Assistant) information:
 - θ Name, θ office location, θ office hours, θ telephone, θ email address.
- 3. Course readings/materials:
 - θ Course textbook title, θ author, θ edition/publisher.
 - θ Supplementary readings (indicate whether θ required or θ recommended) and

MATH F230R Section FQ1: Prep for Essential Calculus Maymester 2016 MTWRF 10:00am-12:00pm Chapman 106

Instructors:

Latrice Bowman lnbowman@alaska.edu

Samantha Warren scwarren@alaska.edu

email office phone

Chapman 301E (907)474-5427

Eielson 302C (907)474-2452

CLASS MEETINGS: This class meets from 10am-12pm in Chapman 106 M-F from May 9 2016 to May 20, 2016.

MATERIALS: In addition to the ALEKS access (provided) students will also need a computer/laptop, internet access, a UAF email address, a bound notebook for writing math and pencil. There is no text needed for this course.

PREREQUISITES: Previous W or grade below C- in MATH F230; or departmental recommendation.

COURSE DESCRIPTION: An intensive, individualized review of prerequisite topics needed in calculus along with small group practice of related mathematical topics. Emphasis will be placed on problem solving and mathematical communication. Also included will be instruction on how to be successful in calculus.

Course Goals: The principal goal of this course is to prepare students to be successful in MATH 230 Essential Calculus. This preparation has two distinct components: mathematical knowledge base and practical study skills. The mathematical component will focus on mastery of prerequisite material. The study skills portion covers a variety of techniques for understanding and retaining mathematical ideas.

STUDENT LEARNING OUTCOMES:

- Apply a variety of techniques to solve linear, polynomial, exponential, logarithmic.
- Simplify algebraic expressions.
- Graph functions and interpret those graphs.
- Understand the basic properties of functions.
- Move between numerical, graphical and algebraic representations of functions.
- Use mathematical modeling to solve applied problems in the areas of business, economics, life and social sciences.
- Understand the characteristics of students who are successful in college mathematics courses.
- Develop personalized techniques for absorbing and mastering new mathematical concepts and skills, and for managing the workload of a college math course.

EVALUATION:

This course is graded Pass/Fail. In order to earn a passing grade, a student must satisfy all of the requirements below:

- Attend all 24 of the assigned class hours with at most one absence and only if it is excused.
- Actively participate in the class. This includes contributing to class discussions, working on ALEKS, and reading and completing all study skills assignments.
- Complete a minimum of 3 hours per day on ALEKS from May 9 to May 19 (including Saturday and Sunday).
- Complete at least 90% of the entire ALEKS pie chart.
- Complete at least 90% of each section of your ALEKS pie chart.
- Complete all of the study skills assignments and turn them in on the day that they are due.
- Earn a score of at least 80% on your Final Assessment (May 19 or May 20). You will be allowed 2 attempts.

COURSE MECHANICS:

A portion of each class day will be spent discussing some study skill and a portion of each class will be spent working on ALEKS. At the end of each day you will be given a short homework assignment to complete the next day. In addition, you will need to work on you own on ALEKS every day. It is important to understand why we have you work on ALEKS in class. The reason is that students tend to get stuck on certain topics or types of problems. In-class time is for getting help and asking questions. You should come to class prepared to ask questions.

TENTATIVE COURSE SCHEDULE:

date	day	topic
05/09	Monday	introduction to course, initial assessment on ALEKS; hmwk: ALEKS Plan
05/10	Tuesday	time management
05/11	Wednesday	getting help and asking questions
05/12	Thursday	class attendance
05/13	Friday	completing assignments
05/16	Monday	syllabi and grade calculations
05/17	Tuesday	tests (and other in-class assessments): beginning, middle, end
05/18	Wednesday	portrait of a solid student
05/19	Thursday	commit to a plan for Spring semester
05/20	Friday	final assessment

SUPPORT SERVICES:

DMS Math and Stat Lab: If you need extra help, there is free tutoring available. The Math and Stat Lab is located in CHAP 305 and is staffed by Math Graduate students, upper-division Math students and Math faculty. This lab operates on a walk-in basis and is open this summer Monday - Friday 9am-7pm and Saturday 12pm-5pm.

SSS (Student Support Services) provides one-on-one tutoring to students who satisfy the requirements of the program. In addition to math tutoring SSS provides, advising, all core subject tutoring, laptop rentals and some other services.

The Office of Disability Services implements the Americans with Disabilities Act (ADA), and insures that UAF students have equal access to the campus and course materials. Your instructor(s) will work with the Office of Disabilities Services (208 WHIT, 474-5655) to provide reasonable accommodation to students with disabilities.