OTHER HOURS (specify type)

FORMAT 1

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

See http://www.uaf.edu/uafgov/faculty-senate/curriculum/course-degree-procedures-/ for a complete description of the rules governing curriculum & course changes.

***	-	TRIAL COURS							
BMITTED BY:								_	
Department	Mathematics		cs	College/School		CN	CNSM		
Prepared by	by Latrice Bowman			Phone		47	474-5427		
Email Contact	lnbowman@a	alaska.edu		Faculty	Faculty Contact		Latrice Bowman		
1. ACTION DE	SIRED (CHECK ON	<i>E):</i>	al Cours	se .		1	ew Course	X	
2. COURSE ID	ENTIFICATION:	Dept	М	АТН	Course #	F25 200		of Credits	1
)	/lower division ober of credits:	Course is a from mathematics of		vel course	to be an add	litional hel	p with plac	ement and	core level
3. PROPOSED	COURSE TITLE:				Prep fo	or Calcul	us	 :	
4. To be CROS	S LISTED? YES/NO	N	If y	es, Dept:	·		ourse #		
NOTE: Cross- signatures	listing requires appro i.	oval of both depa	rtments a	ınd deans i	nvolved. A	dd lines at	end of forn	n for addition	onal required
5. To be STACK	ED?	N	lf y	es, Dept.			Course	#	
	YES/NO		<u></u>		<u> </u>				
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4.5 lecture hrs/wk=9hrs =540 min =0.7 cr

10. <u>COMPLETE</u> CATALOG DESCRIPTION including dept., number, title, credits, credit distribution, of stacking (50 words or less if possible):	cross-listings and/or
Example of a <u>complete</u> 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 m freshwater and marine fisheries. Prerequisites: COMM F131X or COMM F141X; ENGL F111X; ENGL F213X; ENGL F414; FISH F425; or permission of instructor. Cross-listed with NRM F487	ENGL F211X or
MATH F200P Prep for Calculus Course number will be F251R (not 1 Credit	"P")
An intensive, individualized review of prerequisite topics needed in Calculus along with spractice of related functions topics. Emphasis will be placed on problem solving and math communication. Also included will be instruction on how to be successful in Calculus. Go Note: Credit may be earned for taking MATH 200P or MATH 200S, but not for both. Preprevious grade below C- or previous W in MATH 200X or placement into MATH 200P or recommendation. $(\sqrt[7]{2} + \sqrt[3]{2})$ $(.7 + 1)$	nematical raded Pass/Fail. erequisites:
11. COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with CLA Curriculum Council	to apply S or H
classification appropriately; otherwise leave fields blank.	то арр., о от т
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, Format 6 W = Writing Intensive, Format 7 X = Bacca	laureate Core
V - Witting intensive, Tormat /	naureate core
11.A Is course content related to northern, arctic or circumpolar studies? If yes, a "snowflak added in the printed Catalog, and flagged in Banner. YES NO X	ke" symbol will be
12. COURSE REPEATABILITY:	
Is this course repeatable for credit? YES NO X	
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 number of credit hours that may be earned for this course?	CREDITS
If the course can be repeated with <u>variable</u> credit, what is the maximum number of credit hours that may be earned for this course?	CREDITS
13. GRADING SYSTEM: Specify only one. Note: Changing the grading system for a course later on Course Change – Format 2 form. LETTER: PASS/FAIL: X	constitutes a Major

6 lab (science) hrs/wk=12hrs=240 min=0.3cr

RESTRICTIONS ON ENROLLMENT (if any)

14. PREREQUISITES

Previous grade below C- or previous W in MATH 200X, or placement into MATH 200P, or departmental recommendation

These will be required before the student is allowed to enroll in the course.

15. SPECIAL RESTRICTIONS, CON	IDITIONS	Students who previously earned a grade below a C- or who previously withdrew from MATH 200X or students with low placement into MATH 200X, are required to pass this course prior to re-enrollment in MATH 200X OR they must take MATH 200S concurrently with MATH 200X.		
16. PROPOSED COURSE FEES	\$0			
Has a memo l	een submitte	ed through your dean to the Provost for f	ee approval? Yes/No	
17. PREVIOUS HISTORY				
Has the course been offered as Yes/No	special topic	cs or trial course previously?	Y	
If yes, give semester, year, cou	rse #, etc.:	MATH 193A Spring 2015, MATH 195P Summer 2011		

18. ESTIMATED IMPACT

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

This course will require the use of a computer lab for the two weeks that this course meets. It will also require a Blackboard course shell. All other resources will come out of the current DMS Math Bridge budget.

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.

				 	 1	
-	No	X	Yes			
L		<u></u>]	 l		

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 mostly impact DMS, but peripherally it will impact any program that requires core mathematics.

21. POSITIVE AND NEGATIVE IMPACTS

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

Positive-

Students will gain the knowledge and skills needed to succeed in mathematics;

Students will be less likely to repeat a single math course more than once;

Students will be able to move to their program work more prepared;

Negative-

Problematic for other departments in registering their students for core math courses;

This will require more diligent advising;

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.

Many core MATH courses have low pass rate and many of the students who fail to do well in these courses have poor study habits. These courses tend to be gateway courses for BS students. MATH 200P is designed (based on the current Math Bridge Program) to help students who have previously failed MATH 200X or students who have low placement into MATH 200X gain better study habits as well as guide them in success strategies for completing college level mathematics courses.

John G Tilbh	Date 16/30/2014
ignature, Chair, Program/Department of: Mallendis +	
	Date
Signature, Chair, College/School Curriculum Council for:	CNSM
- (Ach	Date 11-13-1
Signature Dean College/School of:	M
Offerings above the level of approved programs must be appro	ved in advance by the Provost.
Kamlistan	Date 11/13/14
Signature of Provost (if above level of approved programs)	Date 1911
LL SIGNATURES MUST BE OBTAINED PRIOR TO SUBMISSIO	
	Date
Signature, Chair	
Signature, Chair	Date
Signature, Chair Faculty Senate Review Committee:Curriculum Review	Date
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Signature, Chair Faculty Senate Review Committee:Curriculum ReviewCore ReviewSADAC	Date _GAAC stacking)
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Due to Math Alignment Project, course number will be F251R.

Spring 2015

Math 200P: Prep for Calculus

1 credit

Instructor: Latrice Bowman

Email: lnbowman@alaska.edu Office: Chapman 301E Office Phone: (907) 474-5427

Office Hours: TBA. You may also set up an appointment.

Class Times: (EXAMPLE) Jan 5-Jan 9, Jan 12-14, 10am-12pm and 1pm-2pm

Prerequisites: Previous grade below C- or previous W MATH 200X or placement into MATH 200P or departmental recommendation.

Materials: In addition to the ALEKS access (provided) students will also need Internet access, a Blackboard account, a UAF email, and paper and pencil. There is no text needed for this course. In addition to the above, each student will need to complete the MATH 200P Contract.

Course Description:

An intensive, individualized review of mathematics needed for Calculus, along with small group practice of related math topics. Emphasis will be placed on problem solving. Also included will be instruction on how to be successful in college-level mathematics courses.

Course Goals:

The main purpose of this course is to help students form good study habits and understand how to develop mathematical understanding. We will cover background material needed to learn and understand Calculus. Students will receive an individualized review of concepts needed going into Calculus. Students will study different classifications of functions and for each classification we will look at definitions, algebraic formulation, numerical properties and graphical characterizations. Students will also study basic concepts in trigonometry using both the unit circle and the triangle approach. Students will also study mathematical notation, methods for solving equations, and problem-solving of real-world applications. Students will recognize that the structure of this course emphasizes mastery of all course material.

Student Learning Outcomes:

- Identify and find all solutions to equations and inequalities
- Simplify algebraic expressions
- Graph functions and interpret graphs
- Understand the basic properties of functions
- Apply a variety of techniques to find solutions to equations
- Translate between numerical, graphical and algebraic representations of functions
- Understand the basic trigonometric functions and use them to find values
- Graph and interpret trigonometric functions
- Apply trigonometric formulas to find solutions to equations
- Use mathematical concepts to solve applications

• Formulate methods for studying and reviewing mathematics

Evaluation/Grading:

This course is graded Pass/Fail. To receive a passing grade a student must satisfy the following:

- attend at least 18 of the 21 hours that this course meets
- actively participate in the course by completing assignments and contributing to discussions
- complete at least 85% of my course pie chart
- score at least 75% on the final assessment in ALEKS
- score at least 75% on the written final exam

Instructional Methods:

This course is designed to help students succeed in their core MATH 200X course. In MATH 200P students will spend the four hours working on study skills and student success strategies for mathematics. These sessions will be both discussion based and hands-on activities. The remaining class hours will be spent on tutor-assisted ALEKS work. All homework (outside of ALEKS) will be available on Blackboard and students will be able to view course completion progress on Blackboard.

Tentative Course Schedule:

Note: Lab days will consist of individual and group work

Study Skill Topics
Intro, Seeking assistance, Math Resources
Lab Day
The Syllabus, Your Grade, Math Tests
Lab Day
Class Attendance, the Learning Cycle, Studying and Time Management
Lab Day
Study Habits, Practice, Success in Mathematics
Lab Day and Final

Course Policies:

Students are required to attend class and participate daily. Students must arrive on time and be prepared to work. Students are allowed to have at most 3 hours of absences with the understanding that they are required to complete all coursework. Students will need to be able to work in groups and are strongly encouraged to ask questions. Students should be prepared to participate in class discussions.

Support Services:

The Math and Stat Lab is located in CHAP 305 and is staffed by Math Graduate students and upperdivision Math students. This lab operates on a walk-in basis and schedules are posted that provide tutor times. There are four computers in the lab that have the ALEKS plug-in installed. Computers are available on a first come basis. The Math and Stat Lab also offers one-on-one tutoring by appointment. Students will be asked to set up appointments at least 48 hours in advance to meet with a tutor. 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.

Department of Mathematics and Statistics

MATH 200P Pre-Semester Prep Course Contract

Prep for Calculus I is a 1-credit pass/fail course designed to help students succeed in Math 200X. This course will help students master prerequisite skills, improve study habits and enable students to do well in their core math course.

Name	UAF	UAF Student ID		
Day Phone	Ema	Email		
Courses:	XXXXX MATH F200P-F01 Prep for Ca	culus I 1 Credit		
	XXXXX MATH F200X-FXX Calculus I 4	Credits		
I comprehend passing of MA	• -	00X and this registration is conditional upon my		
I acknowledge	e that in order to pass MATH 200P, I m	ıst		
activecompscore	nd at least 18 of the 21 hours that this conditions of the course by complete of the at least 85% of my course pie charge at least 75% on the final assessment in the at least 75% on the written final examples.	ing assignments and contributing to discussions		
course I may I as outlined in being withdra make me ineli	be withdrawn from the class. I underst the current school catalog. I understa awn may negatively affect my status rel	juired hours or do not actively participate in the and that I will lose the tuition I paid for MATH 200P, and that if I am on financial aid or have a scholarship, ative to any financial aid or scholarships and may ancial aid recipients must maintain satisfactory ademic Progress Statement.		
communication instructor or r	on, and that I may receive messages fro	gnized electronic mail as the official means of m my Math 200X instructor, my MATH 200P all account. It is my responsibility to retrieve these o respond to them accordingly.		
• •	erstand that if I am withdrawn or fail to concurrently with MATH 200X.	pass this course then I will be required to take		

Date_____

Student Signature_____