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 CO	<u> </u>	OKI				JSAL				
BMITTED BY:												
Department	Mathematic	s and Sta	n			College/School			CNSM			
Prepared by	Latrice Bow	man						474-5427				
Email Contact	Inbowman@	alaska.ec				Faculty Contact		Latrice Bowman				
1. ACTION DESIRED			Trial	Course	<u></u>				New Course		х	
(CHECK ONE):									F151R			
2. COURSE ID	ENTIFICATION:	Do	ept	MA	ATH	Course #	L	107KR	No. of	Credits	1	
	lower division ber of credits:	Course i			vel course	to be an ad	dition	nal help with	h placeme	ent and co	ore level	
B. PROPOSED	COURSE TITLE:				Prep	for Fund	ction	s for Cal	culus			
4. To be CROSS			N	If ye	es, Dept:			Cours	e#]	
NOTE: Cross- signatures	YES/NO isting requires app	roval of both	depart	ments a	nd deans i	involved. A	dd lii	nes at end o	of form fo	r addition] nal require	
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4.5 lecture hrs/wk=9hrs =540 min =0.7 cr

OTHER HOURS (specify type)

Governance 1/14/14 TVP

<u>COMPLETE</u> CATALOG DESCRIPTION including dept., number, title, c stacking (50 words or less if possible):	redits, credit o	listribution,	cross-listings	s and/
mple of a <u>complete</u> description:				
H F487 W, O Fisheries Management 3 Credits Offered Spring Theory and practice of fisheries management, with an emphasis on s freshwater and marine fisheries. Prerequisites: COMM F131X or CO ENGL F213X; ENGL F414; FISH F425; or permission of instructor.	MM F141X; E Cross-listed wi	NGL F111X, th NRM F48	; ENĞL F211. 37. (3+0)	
MATH F167% Prep for Functions for Calculus Use F151R 1 Credit An intensive, individualized review of prerequisite topics needed small group practice of related functions topics. Emphasis will be mathematical communication. Also included will be instruction Calculus. Graded Pass/Fail. Note: Credit may be earned for tak not for both. Prerequisites: previous grade below C- or previous	e placed on p on how to be ting MATH 1	for Calcul roblem solv successful 07P or MA	us along wit ving and in Functions ATH 107S, b	s for ut
MATH 107P or departmental recommendation. (374.3): $(.7+1)$				
COURSE CLASSIFICATIONS: Undergraduate courses only. Consult with classification appropriately; otherwise leave fields blank. H = Humanities S = So	th CLA Curricu	Ilum Counc	il to apply S c	or H
Will this course be used to fulfill a requirement for the baccalaureate core? If YES, attach form.		YES:	NO:	X
IF YES, check which core requirements it could be used to fulfill:	nat 7	X = Bacc	calaureate Core	
O = Oral Intensive, Format 6 W = Writing Intensive, Form		"snowfla	ike" symbol v	vill be
A Is course content related to northern, arctic or circumpolar studies? led in the printed Catalog, and flagged in Banner.	If yes, a			
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A Is course content related to northern, arctic or circumpolar studies? Red in the printed Catalog, and flagged in Banner. YES COURSE REPEATABILITY: Is this course repeatable for 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? If the course can be repeated for credit, what is the maximum number.	NO X NO er of credit ho	urs that	CRE	

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 107X or placement into MATH 107P or departmental recommendation

MATH 193A Spring 2015, MATH 195P Summer 2011

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

15. SPECIAL RESTRICTIONS, CONDITIONS			Students who previously earned a grade below a C- or who previously withdrew from MATH 107X or students with low placement into MATH 107X, are required to pass this course prior to re-enrollment in MATH 107X OR they must take MATH 107Q concurrently with MATH 107X.					
16. PROPOSED COURSE FEES	16. PROPOSED COURSE FEES \$0							
Has a memo l	oeen submitte	ed thro	ugh your dean to the Provost for fe	ee approval Yes/N				
17. PREVIOUS HISTORY								
Has the course been offered as special topic Yes/No			ial course previously?	Y				

18. ESTIMATED IMPACT

If yes, give semester, year, course #, etc.:

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.

			/ · ·
	l Vac		
No			

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;

IUSTIFICATION FOR ACTION REOUESTED

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 107P is designed (based on the current Math Bridge Program) to help students who have previously failed MATH 107X or students who have low placement into MATH 107X gain better study habits as well as guide them in success strategies for completing college level mathematics courses.

John a Kloch	Date	10/30/2014
Signature, Chair, Program/Department of: Mathemat	ies + Statistics	
- Cuh	Date	11-13-14
Signature, Charr, College/School Curriculum Council for:	CNSM	
faulle Jay	Date	11/13/14
Signature, Dean, College/School of:	CNSM	
Offerings above the level of approved programs must be	approved in advance l	by the Provost.
Signature of Provost (if above level of approved programs)	Date	
Agriculture of Frovost (if above level of approved programs)		
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Signature, Chair Faculty Senate Review Committee:Curriculum ReviewCore ReviewSADAC	Date vGAAC	ERNANCE OFFICE
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Course number will be F151R (not "P") due to Math Alignment.

Spring 2015

Math 107P: Prep for Functions for Calculus

1 credit

Instructor: Latrice Bowman

Email: Inbowman@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 in MATH 107X or placement into MATH 107P 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 107P Contract.

Course Description:

An intensive, individualized review of mathematics needed for Functions 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 Functions for Calculus. Students will receive an individualized review of concepts needed going into Functions for 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 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:

- Solve linear, quadratic, rational, radical, absolute value, and polynomial equations
- Solve various inequalities
- · Perform basic operations on rational and polynomial expressions, including factoring
- Find and graph solutions to one variable equations and inequalities
- Translate between numerical, graphical and algebraic representations of functions
- 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 107X course. In MATH 107P 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

dy Skill Topics
ro, Seeking assistance, Math Resources
Day
Syllabus, Your Grade, Math Tests
Day
ss Attendance, the Learning Cycle, Studying and Time Management
Day
dy Habits, Practice, Success in Mathematics
Day and Final
ss o [

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 107P Pre-Semester Prep Course Contract

Prep for Functions for Calculus is a 1-credit pass/fail course designed to help students succeed in Math 107X. This course will help students master prerequisite skills, improve study habits and enable students to do well in their core math course.

Name	UAF Student ID
Day Phone	Email
Courses:	XXXXX MATH F107P-F01 Prep for Functions for Calculus 1 Credit
	XXXXX MATH F107x-FXX Functions for Calculus 4 Credits

I comprehend that I will be pre-registered in Math 107X and this registration is conditional upon my passing of MATH 107P.

I acknowledge that in order to pass MATH 107P, I must

- 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

I understand that if I miss more than three of the required hours or do not actively participate in the course I may be withdrawn from the class. I understand that I will lose the tuition I paid for MATH 107P, as outlined in the current school catalog. I understand that if I am on financial aid or have a scholarship, being withdrawn may negatively affect my status relative to any financial aid or scholarships and may make me ineligible for current or future awards. Financial aid recipients must maintain satisfactory academic progress as outlined in the Satisfactory Academic Progress Statement.

I am aware that the UAF Math Department has recognized electronic mail as the official means of communication, and that I may receive messages from my Math 107X instructor, my MATH 107P instructor or my MATH 107P leader via my UAF e-mail account. It is my responsibility to retrieve these messages from my official UAF e-mail account and to respond to them accordingly.

Finally, I understand that if I am withdrawn or fail to pass this course then I will be required to take MATH 107S concurrently with MATH 107X.