See <u>http://www</u>	w.uaf.edu/uafgov/	faculty-senate/cu	ırriculum/co	ourse-degree-	proce			nate (Bo	
		rules governi			`	,			
		RIAL COURSE	OK NEW	COURSE P	KOP	OSAL			
BMITTED BY:					 				
Department	Mathematics	and Statistics	Col	College/School		CNSM			
Prepared by Latrice Bowman			Phone		474-5427				
Email Contact	<u>lnbowman@a</u>	laska.edu	Fac	culty Contact	t	Latrice Bo	owman		
1. ACTION DE	SIRED (CHECK ON		Course			New Cours	e X		
2. COURSE IDI	ENTIFICATION:	Dept	MATH	Course	#	110P R No	. of Credits	;	1
	/lower division hber of credits:	Course is a fresh mathematics cou		ırse to be an a	ddition	nal help with plac	cement and	core leve	el
3. PROPOSED	COURSE TITLE:		· · · · · · · · · · · · · · · · · · ·	Prep fo	or Pr	ecalculus		·	
1. To be CROSS	S LISTED? YES/NO	N	If yes, De	ept:		Course #		7	
NOTE: Cross-l signatures	listing requires appro	oval of both departr	ments and dea	ans involved.	Add li	nes at end of for	m for additi	onal req	uired
S. To be STACKED? YES/NO		N	If yes, De	ept.		Course	#		
	e two course level ill each be taught		te						
Advising Committ of what are suppo i.e. is there under peing undertaxed committee has qu	pplications are review tee. Creating two differences to be two differences of the two differences of two difference	ferent syllabi—undent courses. The courses. The course level content be committees are low More info online—	ergraduate an mmittees will eing offered); a oking out for see URL at to	nd graduate ve determine: 1) 2) are undergr the interests o op of this page	rsions- wheth aduate f the si	 will help emph ner the two versions as being overtaxe 	nasize the di ons are suffi ed?; 3) are g e course. Ty	ifferent of ciently of raduate s pically,	qualities different students if either
		Fall, Spring,	Summer (Ever	ry, or Even-nu	mbere	d Years, or Odd- Varrants	number (湮 W	ED
	YEAR OF FIRST O	D FFERING (AY20		Summer 2		· arrants		302	
upproved by s	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			— Fall				n's Off	
COURSE FOR	ΜΔΤ.					College	of Natural	Science	e & Mathei
NOTE: Course ho must be approved	ours may not be com d by the college or so d by the Core Reviev	chool's curriculum	than three da council. Furtl	ys per credit. hermore, any	Any co	ourse compresse	d into fewer	than six	c weeks
COURSE FOR (check all that a	RMAT:	1 X	2]3	4	5	1 l	eeks to ester	full
OTHER FORM	AAT (specify)		·-						
Mode of deliv	very (specify	Lectures with	group worl	k and discu	ssion	s		· · ·	

LECTURE LAB **PRACTICUM** 9. CONTACT HOURS PER WEEK: 6 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-/guidelinesfor-computing-/ for more information on number of credits.

OTHER HOURS (specify type) 4.5 lecture hrs/wk=9hrs =540 min =0.7 cr

6 lab (so	cience) hrs/wk=	12hrs=240 ı	nin=0.3cr	*****	
OMPLETE CATALOG DESCRIPTION inc stacking (50 words or less if possible):	cluding dept., nur	nber, title, c	redits, credit	distribution,	. cross-listings a
ole of a <u>complete</u> description:					
F487 W, O Fisheries Management					
3 Credits Offered Spring Theory and practice of fisheries manage freshwater and marine fisheries. <i>Prereq ENGL F213X; ENGL F414; FISH F425;</i>	uisites: COMM F	131X or CO	MM F141X;	ENGL F111X	; ENGL F211X (
MATH F110P Prep for Precalculus Credit		-		F110R (not	
n intensive, individualized review of tractice of related functions topics. E ommunication. Also included will be ass/Fail. Note: Credit may be earned rerequisites: previous grade below Commendation. (mphasis will be instruction on d for taking MAC- or previous W	placed on p how to be s TH 110P or	oroblem soluccessful in MATH 11	ving and ma Precalculus OS, but not	nthematical s. Graded for both.
classification appropriately; otherwise le H = Humanities Will this course be used to fulfill a re	eave fields blank.		cial Sciences	YES:	NO:
for the baccalaureate core? If YES, at			······································	11.3.	110.
IF YES, check which core requirement O = Oral Intensive, Format 6	s it could be used W = Writing Ir		at 7	Y – Race	calaureate Core
U = Oral Intensive, Format 6	vv = vvriung ii	itensive, Form	at /	X - Dac	calauleate Cole [
Is course content related to northern, and in the printed Catalog, and flagged in L YES			If yes, a	"snowfla	ake" symbol wil
COURSE REPEATABILITY:) vrc		NO [V	
Is this course repeatable for credit? Justification: Indicate why the course	YES can be repeated (NO [X	
example, the course follows a different	t theme each time	e).			
How many times may the course be re If the course can be repeated for credit may be earned for this course?	epeated for credit t, what is the max	? :imum numb	er of credit h	ours that	TIMES
If the course can be repeated with vari hours that may be earned for this cour	iable credit, what se?	is the maxin	num number	of credit	CRED
Justification: Indicate why the course of example, the course follows a different How many times may the course be realf the course can be repeated for credit may be earned for this course? If the course can be repeated with vari	can be repeated (t theme each time epeated for credit t, what is the max iable credit, what se? Note: Changing to	for e). ? cimum numb	er of credit h	ours that	CRE

RESTRICTIONS ON ENROLLMENT (if any)

14. PREREQUISITES

Previous grade below C- or previous W in MATH 110X or placement into MATH 110P 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, CON	DITIONS	Students who previously earned a grade below a C- or who previously withdrew from MATH 110X or students with low placement into MATH 110X, are required to pass this course prior to re-enrollment in MATH 110X OR they must take MATH 110S concurrently with MATH 110X.					
16. PROPOSED COURSE FEES	\$0	·					
Has a memo b	een submitte	ed through your dean to the Provost for fee approval? Yes/No					
17. PREVIOUS HISTORY							
Has the course been offered as Yes/No	special topie	cs or trial course previously?					

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.

No X 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 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 110P is designed (based on the current Math Bridge Program) to help students who have previously failed MATH 110X or students who have low placement into MATH 110X gain better study habits as well as guide them in success strategies for completing college level mathematics courses.

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Signature, Chair, Program/Department of: Malhus	+ Statistas	
Signature, Chair, College/School Curriculum Council for:	CNSM	
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JW .	Date	11-13-14
Signature Dean, Jollege/School of:	NSM	
Offerings above the level of approved programs must be appro-	ved in advance h	v the Provost
Оператор при при при при при при при при при пр		/ -///
Taul Jay	Date	11/13/19
Signature of Provost (if above level of approved programs)		79
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Signature, Chair		
	Date _GAAC	
Faculty Senate Review Committee:Curriculum Review		
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Spring 2015

Math 110P: Prep for Precalculus

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 110X or placement into MATH 110P 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 110P Contract.

Course Description:

An intensive, individualized review of mathematics needed for Precalculus, 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 Precalculus. Students will receive an individualized review of concepts needed going into Precalculus. 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 review concepts about the unit circle and right triangles that are needed in Trigonometry. 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
- Understand geometric formulas
- 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 110X course. In MATH 110P 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

Date	Study Skill Topics
Day 1	Intro, Seeking assistance, Math Resources
Day 2	Lab Day
Day 3	The Syllabus, Your Grade, Math Tests
Day 4	Lab Day
Day 5	Class Attendance, the Learning Cycle, Studying and Time Management
Day 6	Lab Day
Day 7	Study Habits, Practice, Success in Mathematics
Day 8	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 110P Pre-Semester Prep Course Contract

Prep for Precalculus is a 1-credit pass/fail course designed to help students succeed in Math 110X. 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 F110P-F01 Prep for Precalculus 1 Credit					
	XXXXX MATH F110X-FXX Precalculus 4 Credits					
I comprehend t passing of MAT	that I will be pre-registered in Math 110X and this registration is conditional upon my TH 110P.					
l acknowledge	that in order to pass MATH 110P, I must					
activelycomplescore a	at least 18 of the 21 hours that this course meets y participate in the course by completing assignments and contributing to discussions ete at least 85% of my course pie chart it least 75% on the final assessment in ALEKS it least 75% on the written final exam					
course I may be as outlined in t being withdraw make me inelig	nat if I miss more than three of the required hours or do not actively participate in the e withdrawn from the class. I understand that I will lose the tuition I paid for MATH 110P, he current school catalog. I understand that if I am on financial aid or have a scholarship, on may negatively affect my status relative to any financial aid or scholarships and may gible for current or future awards. Financial aid recipients must maintain satisfactory ress as outlined in the Satisfactory Academic Progress Statement.					
communicatior instructor or m	t the UAF Math Department has recognized electronic mail as the official means of m, and that I may receive messages from my Math 110X instructor, my MATH 110P my MATH 110P leader via my UAF e-mail account. It is my responsibility to retrieve these my official UAF e-mail account and to respond to them accordingly.					
• -	stand that if I am withdrawn or fail to pass this course then I will be required to take ncurrently with MATH 110X.					

Student Signature_____

Date_____