Spring 2015
MATH 193P: Pre-Semester Prep for Mathematics
1 credit

Instructor: Latrice Bowman
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Office Hours: TBA. You may also set up an appointment.
Class Times: Jan 5 -14 M-F, 10am-1pm
Class Meets in Chapman 106
Prerequisite: Department Approval
Materials: In addition to the ALEKS access (provided) students will also need a computer/laptop, Internet access, a Blackboard account, a UAF email, and paper and pencil. There is no text needed for this course.

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 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:
• 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
• Move 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:
• Must attend at least 18 of the 21 required class hours
• Must actively participate in the class (contributing to discussions, completing assigned work, contributing to group activities)
• Must complete ALEKS pie chart to at least 85%
• Must pass final assessment with a minimum 75%

Instructional Methods:
This course is designed to help students succeed in their core MATH 107X course. In MATH 193A, students will spend the three 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 peer-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

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<thead>
<tr>
<th>Date</th>
<th>Study Skill Topics</th>
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<tbody>
<tr>
<td>Day 1</td>
<td>Intro, Seeking assistance, Math Resources</td>
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<tr>
<td>Day 2</td>
<td>Lab Day</td>
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<td>Day 3</td>
<td>The Syllabus, Your Grade, Math Tests</td>
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<td>Day 4</td>
<td>Lab Day</td>
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<tr>
<td>Day 5</td>
<td>Class Attendance, the Learning Cycle, Studying and Time Management</td>
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<td>Day 6</td>
<td>Lab Day</td>
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<tr>
<td>Day 7</td>
<td>Study Habits, Practice, Success in Mathematics</td>
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<td>Day 8</td>
<td>Lab Day and Final</td>
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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 upper-division 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.