Math 108: Intermediate Algebra Summer 2017 --- 7-Weeks

Course Description
MATH 108 INTERMEDIATE ALGEBRA (3-0-3). Radicals, negative and rational exponents, completing the square, quadratic formula. Linear and quadratic inequalities (including absolute value); simple systems of equations and inequalities. Multiplication of polynomials; basic factorization techniques. Manipulation of rational expressions, compound fractions, rationalization of denominator (or numerator). Introduction to the concept of function, graphs of functions and equations. Introduction to exponential and logarithmic expressions. Math 108 is NOT a DLM course, and cannot be taken for credit after any MATH course numbered MATH 143 or higher. PREREQ: MATH 25 or satisfactory placement score.

Instructor
Your instructor will email you with his or her contact information.
If you have further questions, then please contact:
Janine Balfour, Assistant Director of the Math Learning Center: janinebalfour@boisestate.edu
Dr. Gary Hagerty, Director of the Math Learning Center: garyhagerty@boisestate.edu

Textbook
ALEKS (One semester 11-week stand-alone access code). This is available at the BSU bookstore and also online. The course is based on the following text but it is an optional purchase. Intermediate Algebra, Second Edition; Miller, O'Neill and Hyde.

Calculators
Calculators are allowed in this course and will be helpful. Since this is optional, we only recommend that if you are buying a calculator and you are planning to enroll in Math 143 or 144, that you purchase a TI-84 as this is required in Math 143 and math 144.

Tutoring
Free tutoring is available in the Math Learning Center. For hours of operation visit:
https://math.boisestate.edu/math-learning-center/hours/

Grading Scheme
Weekly Topic Goal 18% of total grade
Weekly Time Goal 8% of total grade
Attendance and Group Work 7% of total grade
In-Class Exams (two at 31.5% of total grade each) 63% of total grade
Notebooks 4% of total grade

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A+</td>
<td>98%</td>
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<tr>
<td>A</td>
<td>92%</td>
</tr>
<tr>
<td>A-</td>
<td>90%</td>
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<tr>
<td>B+</td>
<td>88%</td>
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<tr>
<td>B</td>
<td>82%</td>
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<tr>
<td>B-</td>
<td>80%</td>
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<tr>
<td>C+</td>
<td>78%</td>
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<td>C</td>
<td>72%</td>
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<tr>
<td>C-</td>
<td>70%</td>
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<td>D+</td>
<td>68%</td>
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<tr>
<td>D</td>
<td>62%</td>
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<tr>
<td>D-</td>
<td>60%</td>
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Any final grade lower than 60% will be recorded as an F. To use Math 108 to meet a prerequisite in another course, the student must earn a grade of C or better to move to the next course. The MLC staff members have access to all students’ ALEKS and Blackboard account information. The MLC staff members are here to promote student success. If you are struggling, then it is likely that MLC staff will reach out to you, and you are encouraged to seek help with all concerns regarding your course.
Weekly Topic and Time Goals (Homework)
Homework will be completed using ALEKS. This is a software based approached. You will be asked to complete virtually the same set of problems as if you were assigned problems out of a textbook. The advantages to ALEKS as an online homework system include:

1) Improved assistance when you need it.
2) The opportunity to work at your pace and complete the work necessary for you to be successful.
3) An opportunity to develop a complete understanding before moving ahead. This means that you will not be asked to perform work for which you are not ready (as would happen in a traditional environment where everybody does the same thing).

Grading of Homework is based on your commitment to success. It has been found that once a student has been properly placed in a curriculum, their success is based on their willingness to put forth time and effort into the class. The grading of the homework will be based on time and effort as follows:

1) **Time:** You are expected to spend 14 hours on ALEKS, learning math, each week. Your weekly time grade will be computed by dividing the amount of time spent on ALEKS by 14 hours (for example: If you spend 7 hours on ALEKS, then you would receive a 50% on that weekly assignment). Your instructor may use data available in the ALEKS software to verify that the time recorded was actually spent working on math. If it appears the time has been padded, your instructor may lower the weekly time grade accordingly. This change will be done at the time the grade is recorded.
2) **Topics:** You are expected to complete the number of topics necessary each week in order to complete all of the topics by the end of the semester. Each week (including the first week) your instructor will compute a weekly topic goal (this will be computed for each student on an individual basis) and will post it to BlackBoard no later than Tues night. This process will be explained frequently throughout the course.

The lowest weekly time score and the lowest weekly topic score will be dropped from these categories in the weighted grade column on BlackBoard at the end of the semester.

Attendance and Group Activities
Class attendance will be taken daily and computed into your grade. Attendance has the strongest correlation of any indicator when considering student success. Thus, we have placed attendance at a high level of importance in this class. One or two meetings per week will be focused on Group Activities found on the MLC web page. You will be responsible for printing each day’s activity and bringing it to class. These will be counted as part of your attendance score for the day. The lowest weekly attendance score will be dropped from this category in the weighted grade column on BlackBoard at the end of the semester. Class attendance is earned by being in class and appropriately participating (see attendance policy below).

Attendance Policy
Attendance points are earned at the discretion of the instructor. Students receiving full attendance points are attending class for the full amount of time and remaining on task during that time. The instructor has the right to deny attendance points to any student who does not attend the full amount of time or to a student who does not participate. Using technology in an inappropriate form is considered non-participation. If you have any concerns with this policy, then please discuss your concerns with Dr. Hagerty, Director of the Math Learning Center.
Exams
There will be two in-class exams a midterm during week 4 and a final during week 7. You may be required to present valid BSU ID at each exam. The Final exam will be comprehensive. Make sure you obtain the exact location, date, and time from your instructor.

Partial Credit
You will be given scratch paper for your test. The only way to earn partial credit on a test for answers you wish to challenge is to have the work supporting your answers on your scratch paper neat and organized, based on mathematically approached standards. Your notebooks should reflect these standards as well.

Notebooks
Success in math (as well as all other endeavors) is greatly improved by following steps prescribed by the instructor. This implies keeping careful notes and writing step-by-step solutions. We are asking that you keep these notes and the problems you work in a notebook, using correct mathematical notation. You will find that this greatly enhances your ALEKS experience and your success in future courses. This notebook will be graded based on organization and completion/content. There is a rubric to help you included at end of this syllabus. If you need additional help setting up your notebook, then talk to your instructor.

Assessments
The ALEKS program prepares students for the next course by periodically assessing a student’s retention. Assessments take the place of a traditional in class quiz. It is the student’s responsibility to take the assessment like it is a test. There should be no help from notes, friends, tutors, internet websites, cell phones, etc. If a student’s assessment or topics appear to be completed with assistance, the instructor may require the student to take a new assessment under the supervision of the Math Learning Center. It is also the student’s responsibility to make up any topics that are placed back onto the pie in any given week which means it is a good idea to work ahead of the goal and not wait till the last minute to finish time or topics. Assessments will not be canceled.

The MLC instructors and staff strive to assist each student’s success at Boise State University. One way the MLC supports student success is by requiring some students to complete assessments with the MLC. ALEKS routinely generates assessments, however, the in-person assessments provide much greater insight into a student’s learning and success. Some indicators for assessments are outlined below:

- Concerns about a student who has missed several class periods.
- Work in ALEKS and test scores don’t appear to be of the same quality.
- Student appears to fall into an academic category which the MLC is trying improve success in.

Shared Values, Academic Excellence and Academic Integrity
Boise State University has a statement of Shared Values of Academic Excellence ([https://deanofstudents.boisestate.edu/statement-of-shared-values/](https://deanofstudents.boisestate.edu/statement-of-shared-values/)). The statement discusses areas of Academic Excellence, Caring, Citizenship, Fairness, Respect, Responsibility and Trustworthiness. The Math Learning Center at Boise State University recognizes that student success is positively influenced through a commitment to the university’s Shared Values.

Academic Excellence is defined as “each individual engaging in our own learning and participating fully in the academic community’s pursuit of knowledge”. The Math Learning Center has designed it’s program around this ideal. Each student has the expectation to fully engage in their academic pursuit and their academic success. Based on the student’s success both in the classes they are currently enrolled in and their success in future classes, students at Boise State are actively pursuing their dreams and their futures.

Unfortunately, with all the positives the internet has brought our society, it has also brought an ease to practices that do not follow the principles of Shared Values. When this happens, students tend not to be
successful. At this point the Math Learning Center will ask students to work with the Math Learning Center on an individual basis to develop positive strategies.

- This process will begin with the student's instructor or a member of the Math Learning Center staff asking a student to complete an assessment under supervision.
- As the student is embarking on an individual plan, the student's instructor will enter zeros for all work until the student completes the individualized assessment and meets with the MLC staff to develop an individualized plan, focused on success.
- When strong evidence indicates a complete lack of Academic Integrity, such as using cell phones during tests or paying others to complete assignments, appropriate action will be taken.
- When a student violates the Boise State Academic Integrity policy, the Math Learning Center follows the university policy and begins by submitting a report. The criteria for cheating during exams as with all violations of the code of conduct is that it is "more likely than not" or 51% that the violation occurred.

Classroom etiquette and expectations:
Technology is becoming prevalent in the classroom. As the access to technology grows, we must ensure that a quality educational environment is maintained. Students must understand that visiting electronic sites that do not pertain to the purpose of the classroom is at some level a distraction to the student and often to the class as a whole. While it is understood that visiting sites such as Facebook and YouTube and activities such as texting are a distraction, we must also point out that visiting homework pages for the math classes at times when working on homework is not the focus of the class is also a distraction. In order to maintain a proper distraction free environment, it is the obligation of the instructor to ensure that students only visit electronic sites pertaining to the task at hand. The instructor may do this on an individual basis or ask the entire class to put away all electronic devices. This decision needs to be respected. If you have any concerns with this policy, then please discuss your concerns with Dr. Hagerty, Director of the Math Learning Center.

- Visiting Websites not associated with the current classroom activity is not allowed.
- Working on assignments for other classes or for math outside the current activity is not allowed.
- If the instructor finds visiting other websites or misuse of technology a disruption, the instructor may assign a zero for the day's attendance. Repeated disruptions may result in being asked to leave the classroom.

The Keys to Success
Success means putting forth the time, effort, and energy required to complete this course. Based on the past several years of analyzing student success, we have found that appropriate work completion and attendance are the biggest keys to success. Following these simple guidelines should ensure success:

1) Homework completion. More than 95% of the students who complete 80% or more of the homework pass the course. Aim to complete your work at 100%.
2) Make sure you are learning. When you obtain help, make sure that you are learning and able to do the work without help.
3) Review for every test. The biggest difference we see in test scores is between students who review and those who don’t.
4) Put forth the effort to attend every class. This may be one of the best signals we have to a student being successful.

Students who spend at least 14 hours working on ALEKS in the first week are significantly more likely to pass the course than students who spend less than 7 hours in the first week. If you are doing all of the above and struggling, make an appointment with Dr. Hagerty, Director of the Math Learning Center. He will work with you to find the best possible path to creating your success.
**Early Completion**
If you finish your pie early, then speak to Dr. Gary Hagerty, the director of the Math Learning Center, about your testing options. Early finals may be given to students who have been attending class and are passing the course at the time of the early completion.

**Educational Access**
The instructor will work with the Educational Access Center to provide reasonable accommodations to students upon request. Students making such requests are required to provide documentation from the Educational Access Center, located on the first floor of the Lincoln parking garage.

**Communication Expectations**
Email, an acceptable and appropriate medium for communications, is an official mode of communication. Since “upon sending, it is expected that email will be received and read by the recipient,” students are expected to check their official Boise State University email frequently. Please see Boise State University Manual Policy Number 2280. The Math Learning Center also communicates through the Math Learning Center Website and the Boise State University BlackBoard Course Management System.

**Note about class registration**
Students with outside resources (ie: International students, VA, PELL grants, athletics, etc.) need to check with that entity before making any changes to their schedule.

**Notebook Rubric**

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<tr>
<th></th>
<th>Unacceptable</th>
<th>Novice</th>
<th>Competent</th>
<th>Proficient</th>
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</thead>
<tbody>
<tr>
<td><strong>Regular use</strong></td>
<td>Does not have a dedicated notebook.</td>
<td>Often absent from class or doesn’t bring notebook. Lots of work missing from notebook.</td>
<td>Sometimes absent from class or doesn’t bring notebook. Dates are missing or inconsistent.</td>
<td>Always brings notebook to class. All ALEKS work is in notebook. Dates are clearly and consistently labeled.</td>
</tr>
<tr>
<td><strong>Topic formatting</strong></td>
<td>Looks like &quot;chicken scratch&quot;.</td>
<td>No obvious organization.</td>
<td>Obvious where one topic stops and another starts.</td>
<td>Each topic is labeled with topic name and pie slice.</td>
</tr>
<tr>
<td><strong>Problem formatting within each topic</strong></td>
<td>Does not contain at least one: problem, explanation or example.</td>
<td>Can’t tell where one problem stops and another starts.</td>
<td>Obvious where one problem stops and another starts.</td>
<td>Obvious where one problem stops and another starts. Answer is easy to find and marked correct or incorrect.</td>
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</tbody>
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|                          | 0 points each | 15 points each | 20 points each | 25 points each |