Developmental Mathematics - MATH 0300.008
Department of Mathematics & Statistics
Fall 2015

A. COURSE INFORMATION

Course number/section: MATH 0300.008
Class meeting time: TR 11 - 12:15 pm
Class location: CI 223
Course Website: bb9.tamucc.edu
www.aleks.com

B. INSTRUCTOR INFORMATION

Instructor: Melina Wijaya
Office location: CI 351
Office hours: MW 10 - 10:45 am, TR 8:30 - 10:45 am, or by an appointment
Telephone: (361) 825-3373
e-mail: melina.wijaya@tamucc.edu
Appointments: Additional times available by appointment

C. COURSE DESCRIPTION

Catalog Course Description
The course is designed for students needing an extensive review of mathematics to pre-
pare them for state & campus standards and/or higher mathematics courses. The course
covers number concepts, computation, various algebra topics, geometry, and mathemat-
ical reasoning. This course does not count towards credit for graduation.

D. PREREQUISITES FOR THE COURSE

Prerequisites
There is no prerequisite for this course. Registration for this course will be by placement.

E. REQUIRED TEXTBOOK(S), READINGS AND SUPPLIES

Required Textbook(s)
The textbook for the class is Prealgebra & Introductory Algebra, by Julie Miller, Molly
ONeill, & Nancy Hyde (which is optional), a Custom ALEKS 360 Access Card
(student access code, ISBN: 9781259694233) and an ALEKS Binder (required
on the first day of class and must be purchased at the bookstore). You may also purchase
the Custom ALEKS 360 Access Card (student access code) at the bookstore or
log on to www.aleks.com and purchase it online the first day of class. The technical
support line is 1-714-619-7090. In addition, you will need pencils with erasers and loose-
leaf notebook paper.
Supplies
Custom ALEKS 360 Access Card (student access code, ISBN: 9781259694233) and an ALEKS Binder (required on the first day of class and must be purchased at the bookstore). You will also need pencils with erasers and loose-leaf notebook paper.

F. STUDENT LEARNING OUTCOMES AND ASSESSMENT

Assessment is a process used by instructors to help improve learning. Assessment is essential for effective learning because it provides feedback to both students and instructors. A critical step in this process is making clear the courses student learning outcomes that describe what students are expected to learn to be successful in the course. The student learning outcomes for this course are listed below. By collecting data and sharing it with students on how well they are accomplishing these learning outcomes students can more efficiently and effectively focus their learning efforts. This information can also help instructors identify challenging areas for students and adjust their teaching approach to facilitate learning.

After completion of this course, a student should be able to:

1. Perform basic operations with numbers and expressions and understand the properties related to real numbers.
2. Round whole numbers and decimal numbers to a given place-value and convert between decimal numbers, fractions and percents.
3. Evaluate formulas containing numbers and variables using order of operation.
4. Use function notation and identify domain and range given a relation or function.
5. Simplify algebraic expressions containing monomial, binomial, or polynomial expressions, rational and radical expressions and complex fractions.
6. Use properties of exponents to interpret and simplify integral and rational exponents.
7. Convert between scientific and standard notation and use scientific notation in solving word problems.
8. Factor numbers and algebraic expressions (radicals, monomials, binomials and polynomials) includes finding a GCF or LCM.
9. Perform basic operations (add, subtract, multiply and divide) with monomials, binomials, polynomials, and rational & radical expressions including rationalizing denominators.
10. Solve equations and inequalities of various types (linear, absolute value, rational, radical, and quadratic as well as linear systems) and report in various ways including graphs, sets, or interval notation.
11. Translate word problems and write models in the form of equations or inequalities.
12. Solve word problems (percent, consecutive number, work, age, uniform motion, mixture, geometric, and financial) using a variety of techniques.
13. Determine the measure of angles or sides for plane figures and relate parallel line properties and characteristics of plane figures to similar and congruent figures.
14. Convert metric and customary measurement (length, mass and capacity).
15. Read charts and graphs and use the information to solve problems.
16. Name and graph points in a plane or number line and name $x$- & $y$- intercepts for linear or nonlinear graphs or equations (including the vertex of a parabola).
17. Recognize, write equations and inequalities for vertical, horizontal and sloped lines and graph.
18. Find the slope of a line give two points, a graph or an equation for the line.
19. Write equations and inequalities given a graph, two points or the slope and a point using point-slope, slope-intercept or standard form.
20. Compare slopes and write equations with parallel or perpendicular lines given an equation and a point or a slope and a point.

G. INSTRUCTIONAL METHODS AND ACTIVITIES

This course is a self-paced developmental math course designed to use computer assisted instruction through the ALEKS interactive software program in conjunction with Miller, ONeill, & Hydes Prealgebra & Introductory Algebra textbook integration to remediate math deficiencies for students who lack college readiness skills.

Students will begin the semester by taking an initial assessment. Based upon the number of Mastered or Needs to be Mastered objectives, students will progress through the Objective Wheel, completing each course Objective as it becomes available to work on.

Students are encouraged to watch any assigned media and work with the tutors and instructor during and outside of class to remediate problem areas. Students will use their ALEKS Binders to document their worked problems and for objective organization. Attendance will count 10% of your grade.

Methods and activities for instruction include some one-to-one individual or small group instruction and student self-paced completion of each course Objective included on the Objective Wheel. The Initial Assessment, a Midterm Assessment, and a Final Exam Assessment will all be taken in the classroom with the proctoring instructor. Periodically throughout the course, additional Mastery Assessments may also be assigned and must also be taken in the classroom with the proctoring instructor.

H. MAJOR COURSE REQUIREMENTS AND GRADING

Students will be assessed by performance on the mastery of each Objective on the Objective Wheel and the corresponding Assessments in ALEKS.
Students must complete the Final Exam Assessment in order to be eligible to receive a final course grade of DA, DB, or DC. Students who have **not Mastered 80% or more** of the course **Objectives** are **not eligible** to take the Final Exam Assessment and will receive a DIP to continue the course during the next semester.

1. Grading scale: DA = 90% or more; DB = 80% - 89.99%; DC = 70% - 79.99%  
   (The D in front of the grade stands for Developmental A, B or C.)

2. Students not eligible to complete the Final Exam Assessment OR who do not receive a final course average of 70% or higher after taking the Final Exam Assessment during the semester, will be given a grade of DIP (Developmental Course - In Progress).

3. If a student stops attending, a grade of DSA (stopped attending) and the last class attended date will be reported.

### I. COURSE CONTENT/SCHEDULE

<table>
<thead>
<tr>
<th>DATE (BY DAY OR WEEK)</th>
<th>TOPIC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weeks 1 - 2</td>
<td>Syllabus, Initial Assessment, &amp; Complete 15% Objective Mastery</td>
</tr>
<tr>
<td>Weeks 3 - 6</td>
<td>Complete 30% Objective Mastery</td>
</tr>
<tr>
<td>Weeks 7 - 8</td>
<td>Complete 50% Objective Mastery &amp; Midterm Assessment</td>
</tr>
<tr>
<td>Weeks 9 - 11</td>
<td>Complete 60% Objective Mastery</td>
</tr>
<tr>
<td>Weeks 12 - 13</td>
<td>Complete 70% Objective Mastery</td>
</tr>
<tr>
<td>Weeks 14 - 15</td>
<td>Complete 80%+ Objective Mastery &amp; Final Exam Assessment</td>
</tr>
<tr>
<td>Thursday, December 3 at 11 - 1:30 pm</td>
<td>Last Day to Take Final Exam Assessment for this course</td>
</tr>
</tbody>
</table>

Note: Changes in this course schedule may be necessary and will be announced to the class by the Instructor. The assignments and exams shown are directly related to the Student Learning Outcomes described in Section F.
IMPORTANT DATES

<table>
<thead>
<tr>
<th>Date</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, August 26</td>
<td>Classes begin</td>
</tr>
<tr>
<td>Monday, September 7</td>
<td>Labor Day Holiday</td>
</tr>
<tr>
<td>Friday, November 6</td>
<td>Last day to drop a class**</td>
</tr>
<tr>
<td>Thursday-Friday, November 26-27</td>
<td>Thanksgiving Holidays</td>
</tr>
<tr>
<td>Monday, November 30</td>
<td>Last day to withdraw from the University</td>
</tr>
<tr>
<td>Tuesday, December 1</td>
<td>Last day of classes</td>
</tr>
</tbody>
</table>

**Students taking Math 0300, in most cases, will not be permitted to drop this course.

J. COURSE POLICIES

Attendance/Tardiness

1. I expect each student to attend all classes. Attendance is mandatory. Please save absences for emergencies and illness.

2. If you are more than 15 minutes tardy or if you leave more than 5 minutes before the end of class you are considered absent.

3. All absences are considered unexcused unless a written excuse or documentation is made available to me in a timely manner and accepted.

4. If you must leave early inform me prior to the beginning of class or if you must be absent please email me through my university email stated at the top of this syllabus.

Extra Credit
There is no extra credit in this course.

Cell Phone Use
Cell phones are prohibited for calling, texting, or calculator use. If you would like to listen to music while working, bring headphones, set your phone to either a 50 minute or 75 minute music set and then place it in your pocket, not on the desk and not in your lap. If your phone is out during class, then you will not be allowed to use it to listen to music.

Laptop Use
You will not need your laptop during class; the class is held in a computer lab.

Food in Class
Do not bring food or drinks into this class; it is a computer lab.

Participation

1. Participation is required in completing course Objectives. This includes notes taken from power points or videos and other work online. Student will keep a progress grid & spend 3 or more hours per week outside of class.
2. Students found to be working on material other than mathematics during class will be given a zero for that day's participation. This will include those using class time for personal business like emails or texting. Cell phones will be turned off and put away during class.

3. Staying on task & completing an appropriate amount of work will be noted each day by the instructor and/or tutors. A participation grade will be entered weekly for each student based on their individual work and attendance.

Responsibility

1. You are responsible for obtaining the required supplies and bringing them to class. This will include the ALEKS 360 Access Card (student access code) and ALEKS Binder required to begin work. The ALEKS 360 Access Card (student access code) will be active for 52 weeks; students should expect to work on course Objectives at a pace to complete this course in a minimum of one semester or in a maximum of two semesters to avoid having to purchase an additional student access code.

2. You are responsible for organizing your time so that you can study at least 1 hour each day outside of class and completing an appropriate amount of work during class. The total number of hours should be approximately 6 hours/week. Some students will require more to finish the material.

3. You are responsible for any homework assigned, taking assessments, watching and taking notes from videos and power points and working on course Objectives. These can all be done outside of class as your schedule allows.

4. You are responsible for your own learning, therefore, you should come prepared with questions you need answered. Keep up with what you need to do and set appropriate goals for yourself. Our goal is for you to be an independent learner by the end of the semester and have completed the course requirements.

K. COLLEGE AND UNIVERSITY POLICIES

• Academic Integrity (University)
University students are expected to conduct themselves in accordance with the highest standards of academic honesty. Academic misconduct for which a student is subject to penalty includes all forms of cheating, such as illicit possession of examinations or examination materials, falsification, forgery, complicity or plagiarism. (Plagiarism is the presentation of the work of another as one's own work.) In this class, academic misconduct or complicity in an act of academic misconduct on an assignment or test will result in a failing grade.

• Classroom/Professional Behavior
Texas A&M University-Corpus Christi, as an academic community, requires that each individual respect the needs of others to study and learn in a peaceful atmosphere. Under Article III of the Student Code of Conduct, classroom behavior
that interferes with either (a) the instructor’s ability to conduct the class or (b) the ability of other students to profit from the instructional program may be considered a breach of the peace and is subject to disciplinary sanction outlined in article VII of the Student Code of Conduct. Students engaging in unacceptable behavior may be instructed to leave the classroom. This prohibition applies to all instructional forums, including classrooms, electronic classrooms, labs, discussion groups, field trips, etc.

• **Statement of Civility**
  Texas A&M University-Corpus Christi has a diverse student population that represents the population of the state. Our goal is to provide you with a high quality educational experience that is free from repression. You are responsible for following the rules of the University, city, state and federal government. We expect that you will behave in a manner that is dignified, respectful and courteous to all people, regardless of sex, ethnic/racial origin, religious background, sexual orientation or disability. Behaviors that infringe on the rights of another individual will not be tolerated.

• **Deadline for Dropping a Course with a Grade of W (University)**
  The grade of W will be assigned to any student officially dropping a course. Please consult with the instructor before you decide to drop to be sure it is the best thing to do. Just stopping attendance and participation WILL NOT automatically result in your being dropped from the class. Should dropping the course be the best course of action, visit the Office of the University Registrar for the Course Drop Form that must be submitted. No student is eligible to receive a W without completing the official drop process by this deadline. Please consult the Academic Calendar for the last day to drop a course.

  [http://www.tamucc.edu/academics/calendar/](http://www.tamucc.edu/academics/calendar/)

• **Grade Appeals Appeals (College of Science and Engineering)**
  As stated in University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures, a student who believes that he or she has not been held to appropriate academic standards as outlined in the class syllabus, equitable evaluation procedures, or appropriate grading, may appeal the final grade given in the course. The burden of proof is upon the student to demonstrate the appropriateness of the appeal. A student with a complaint about a grade is encouraged to first discuss the matter with the instructor. For complete details, including the responsibilities of the parties involved in the process and the number of days allowed for completing the steps in the process, see University Procedure 13.02.99.C2.01, Student Grade Appeal Procedures. These documents are accessible through the University Rules website at

  [http://www.tamucc.edu/provost/university_rules/index.html](http://www.tamucc.edu/provost/university_rules/index.html), and the College of Science and Engineering Grade Appeals webpage at

  [http://sci.tamucc.edu/students/GradeAppeal.html](http://sci.tamucc.edu/students/GradeAppeal.html)
For assistance and/or guidance in the grade appeal process, students may contact the chair or director of the appropriate department or school, the Office of the College of Science and Engineering Dean, or the Office of the Provost.

- **Disability Services**
  The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please call (361) 825-5816 or visit Disability Services in Corpus Christi Hall 116.

If you are a returning veteran and are experiencing cognitive and/or physical access issues in the classroom or on campus, please contact the Disability Services office for assistance at (361) 825-5816.

http://disabilityservices.tamucc.edu/

- **Statement of Academic Continuity**
  In the event of an unforeseen adverse event, such as a major hurricane and classes could not be held on the campus of Texas A&M University Corpus Christi; this course would continue through the use of Blackboard and/or email. In addition, the syllabus and class activities may be modified to allow continuation of the course. Ideally, University facilities (i.e., emails, web sites, and Blackboard) will be operational within two days of the closing of the physical campus. However, students need to make certain that the course instructor has a primary and a secondary means of contacting each student.

L. **OTHER INFORMATION**

- **Academic Advising**
  The College of Science & Engineering requires that students meet with an Academic Advisor as soon as they are ready to declare a major. The Academic Advisor will set up a degree plan, which must be signed by the student, a faculty mentor, and the department chair. Meetings are by appointment only; advisors do not take walk-ins. Please call or stop by the Advising Center to check availability and schedule an appointment. The Colleges Academic Advising Center is located in Center for Instruction 350 or can be reached at (361) 825-3928.

- Students are expected to attend each class meeting.
- Students are expected to purchase the ALEKS 360 Access Card (student access code) before the temporary access expires.
- Students are expected to work on course Objectives outside of class.
- Students are expected to keep all worked problems in the ALEKS Binder in an organized format.
Students will complete the Initial Assessment without notes, instructional materials, or assistance from instructor or tutors. Other Assessments will be completed without instructional materials or assistance from the instructor or tutors.

Students may receive help with the course Objective problems (not Assessment problems) from both the instructor and tutors.

GENERAL DISCLAIMER

I reserve the right to modify the information, schedule, assignments, deadlines, and course policies in this syllabus if and when necessary. I will announce such changes in a timely manner during regularly scheduled lecture periods.