

MATH 0302 SYLLABUS FALL 2013

COURSE TITLE: DEVELOPMENTAL ALGEBRA

CREDIT: 3 semester hours

SECTION:		LECTURE ROOM:	
INSTRUCTOR:		JAVALAB:	RHODE HALL 308
PHONE:		MATH OFFICE PHONE:	
OFFICE:		E-MAIL:	
OFFICE HOURS:		LAB HOURS:	

ALEKS COURSE ID:

COURSE RESOURCES

- **Required:** ALEKS access code available in the bookstore (≈\$100) or online (≈ \$70) at www.aleks.com
Spiral or loose leaf notebook dedicated solely to this course
- Optional e-book available for \$10 extra cost when purchasing your ALEKS code
- **Temporary two-week access code, if necessary:**

COURSE DESCRIPTION

Designed to provide students with the algebra skills necessary for success in college-level mathematics. Topics include real number operations, solving linear and quadratic equations, introduction to graphing linear and nonlinear equations, and simplifying polynomial, rational, and radical expressions. Main method of course delivery is through mathematics learning software. Placement based on analysis of student ACT/SAT, TSI assessment and/or placement test scores. This course does not earn college credit.

COURSE OBJECTIVES/LEARNING OUTCOMES

Upon successful completion of this course, the student should be able to: simplify real number and polynomial expressions, solve linear and quadratic equations, graph linear equations in two variables using tables, intercepts, and slopes; find equations of lines; solve linear systems in two variables by graphing, elimination, and substitution, simplify rational expressions; simplify complex fractions; simplify radical expressions and ; and solve equations with rational expressions as assessed by mastery of at least 70% of the specific learning objectives in the course.

COURSE STRUCTURE

- This course takes advantage of an advanced technology adapted to learning mathematics. You will take an **initial assessment** the first day of class that will determine the mathematical objectives you have already mastered, and set up the objectives you will learn during the course to fill your “pie.” The objectives are in groups of about 20 topics, which should be completed by the scheduled due dates. For every 20 topics you complete, or after each ten hours of time in ALEKS, the program will prompt you to take an ALEKS Assessment. Assessments may be taken anywhere. The objective or “pie” grade is based on the percent of topics in the objective you master by the date the objective is due.
- You will meet as a class with your instructor twice a week for 50 minutes. During class your instructor will review the objective topics with which you are having the most difficulty or introduce topics you are ready to learn.
- **Tests:** There will be five tests throughout the course which together are worth 50% of the total grade, and a comprehensive final exam worth 15%. **There will be no make-up tests.** The grade on the comprehensive final will replace your lowest test grade. **Tests can be taken at any time before the due date, and must be taken in the JavALab.**
- Quizzes consist of six practice tests that are available from the beginning of the course. They may be taken an unlimited amount of times before the due date and the program will record the best score. The lowest quiz score will be dropped at the end of the semester. Quizzes are worth 10% of the final grade.
- **ALL WORK, INCLUDING TESTS AND THE FINAL EXAM, MAY BE DONE AHEAD OF THE DUE DATES. WE STRONGLY ENCOURAGE THIS STRATEGY.**

COURSE GRADING

Quizzes	6 (lowest will be dropped)	20 points each	100points
Chapter Objectives	10	20 points each	200 points
Tests	5	100 points each	500 points
Comprehensive Final Exam	1	200 points	200 points
Total			1000 points
Attendance		Extra credit	50 points

CR (credit) = ≥ 700 pts. (70%) ; NC (No credit) = < 700 pts. (70%) overall.

COURSE SCHEDULE AND DUE DATES

Day	Date	Time due	Assignment due
MON	9/2	11:59 pm	Chapter R Arithmetic and geometry review
MON	9/9	11:59 pm	Chapter 1 The set of real numbers
WED OR THU	9/11 9/12	(before class)	Quiz Chapters R, 1
WED OR THU	9/11 9/12	(end of class)	Test Chapters R, 1
FRI	9/27	11:59 pm	Chapter 2 Linear equations and inequalities
MON OR TUE	9/30 10/1	(before class)	Quiz chapter 2
MON OR TUE	9/30 10/1	(end of class)	Test Chapter 2
SUN	10/6	11:59 pm	Chapter 3 Graphing linear equations in two variables
MON	10/14	11:59 pm	Chapter 4: Systems of linear equations in two variables
WED OR THU	10/16 10/17	(before class)	Quiz Chapters 3, 4
WED OR THU	10/16 10/17	(end of class)	Test Chapters 3, 4
WED	10/23	11:59 pm	Chapter 5 Polynomials and properties of exponents
FRI	10/23	11:59 pm	Chapter 6 Factoring polynomials
MON OR TUE	11/4 11/5	(before class)	Quiz Chapters 5, 6
MON OR TUE	11/4 11/5	(end of class)	Test Chapters 5, 6
SUN	11/10	11:59 pm	Chapter 7 Rational Expressions
MON	11/18	11:59 pm	Chapter 8 Radicals Chapter 9 More quadratic equations
WED OR THU	11/20 11/21	(before class)	Quiz Chapters 7, 8, 9
WED OR THU	11/20 11/21	(end of class)	Test Chapters 7, 8, 9
TBA	TBA	(before scheduled final)	Quiz Comprehensive Final
TBA	TBA	(end of final period)	Comprehensive Final Exam

STRATEGIES FOR SUCCESS

For most students, success in an ALEKS course requires spending 4-5 hours each week working in the program. For other students, it will require more time. It is **essential** that you begin work immediately and commit the necessary time each week. Begin by working on the objectives in your "pie." Once you complete at least 70-75% of the objective topics, begin working the quizzes as many times as necessary to achieve at least 80-90% mastery. You may review your answers after each attempt to see your errors. This will prepare you for the test over the objectives. You may find yourself moving rapidly through the beginning topics, **but as you progress, you will find the material increasingly difficult and you will need to spend more time. You are not expected to learn on your own; if you need help, ask for it—from your instructor, from the faculty and tutors in the lab, or from the Learning Assistance Center.**

FINISHING EARLY IN ALEKS

Students enrolled in MATH 0302 who complete the course early with a grade of at least 90% may take the ALEKS assessment for MATH 1314 and begin work in MATH 1314. If they earn at least 90% in MATH 1314, they will be given permission to enroll in a special section of MATH 1314 the following semester and earn an "A" for the course without having to complete further course requirements. See the JavALab Coordinator if this applies to you.

TEST POLICIES

Tests will be during your regularly scheduled class time on the date indicated in the course outline above. Time in the lab when taking scheduled tests is **NOT** counted toward lab hours, so you will not sign in to the lab. Time for taking tests in the lab **BEFORE** the scheduled date **WILL** count toward lab hours. Lab hours for early testing: TBA

Test procedures:

- Password will be provided by your instructor
- Fill out the top portion of the scratch paper provided, and use the scratch paper to record your work. This will provide further documentation that you took the test and will give your instructor information about what you know.
- Use only the scratch paper provided. All notes and personal items must be put on the floor out of your sight.
- **Only the calculator provided by the ALEKS program is allowed.**
- **Absolutely no personal electronic devices are allowed during tests.**

When you have finished your test, raise your hand, and your instructor will collect your scratch paper.

ACADEMIC DISHONESTY (CHEATING)

The following is considered academic dishonesty (cheating) during tests and is strictly prohibited. **A student found in violation will earn an F for the course:**

- Using a calculator other than that provided by ALEKS
- Using notes
- Accessing websites other than ALEKS
- Using a cell phone
- Any situation where students are potentially accessing help to answer questions

CALCULATORS

The ALEKS program provides a calculator for problems that require one. No other calculators will be allowed. Use of prohibited calculators during tests will be considered academic dishonesty and cause for disciplinary action, as outlined above.

ATTENDANCE POLICIES

- **Class Attendance:** Each student is **required** to attend and actively participate in two 50-minute class meetings each week.
- **Lab Attendance:** All students are required to spend at least three (3) hours per week working in the JavALab to satisfy attendance requirements. Students may complete learning objectives outside the JavALab, but time spent working outside the JavALab will not count toward lab attendance
- Up to 50 extra attendance points added to the final grade are available based on class and lab attendance.

For sections meeting two days a week, students may earn a maximum of 5 attendance credits per week for a total of 70 credits (14 weeks x 5); 1 credit for each class attended and 3 credits for attending 3 hours of lab.

For sections meeting two days a week:

63-70 total credits = 50 extra points

56-62 = 40

49-55 = 30

42-48 = 20

35-41 = 10

<35 = 0

JAVALAB (Rhode 308) HOURS :
Monday - Thursday 9:00 am-9:00 pm
Friday 9:00 am – 5:00 pm
Sunday 4:00 – 8:00 pm

JAVALAB COORDINATOR:
mark.cortez@tamuk.edu
Rhode Hall 308

INTRO MATH COORDINATOR:
susan.sabrio@tamuk.edu
Phone number: 361-593-2236
Office: Rhode 237

THE JAVALAB

will close Friday, August 30 at 5:00 pm and re-open Tuesday, September 3 at 9:00 am; (Labor Day Holiday)

will close Wednesday, November 27 at 1:00 pm and re-open Monday, November 2 at 9:00 am; (Thanksgiving Holiday)

will close for the semester on Thursday, December 12 at 3:30 pm

JAVALAB BEHAVIOR EXPECTATIONS

1. **Be quiet** while working in the JavALab.
2. **Come prepared** with your own notebook or scratch paper and a pen or pencil. Scratch paper will be provided only for tests.
3. **Refrain from:**
 - (a) Using cell phones, iphones, blackberries, ipods, mp3 players, or any personal electronic devices. All cell phones and personal electronic devices should be turned off and put away in a pocket, bag, or purse. Earphones are strictly prohibited unless used for watching videos on ALEKS
 - (b) Having food, drink, (including water) tobacco products, or companions.
 - (c) Talking, visiting websites other than ALEKS, playing computer games, typing a paper, sleeping, or any activity other than working in the ALEKS program.
4. **Swipe your TAMUK ID card** when you enter or leave the JavALab, even for a short break. Attendance can only be recorded if the card is swiped at both entry and exit. Students presenting false IDs will be charged with academic misconduct and reported to the Dean of Students. Penalties up to and including a semester's suspension may be imposed
5. **Know your course and section from the first day of the semester.** As you enter you will be asked your course and section. Attendance can only be recorded correctly with this information.
6. **Display your valid TAMUK ID** at all times while working in the JavALab.

The use of a computer in the JavALab is on a first-come, first-served basis.

SOFTWARE INSTALLATION: ALEKS software can be installed on the student's personal computer. Internet access and the appropriate plug-ins are required in order to use the ALEKS website.