MATH 0314/1314 - College Algebra with Support Syllabus
Fall 2024

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Office Hours: MW: 8:15 - 9 am, TTh: 11 am - 1 pm, Fri: 8 - 11 am
or by appointment

Students are responsible for knowing the policies of SPC as an institution, and this information is available in the student handbook. Policies that are applied to all sections of this course per the Department of Math and Engineering are found in the common course policies preceding this document. Below are the course policies specific to this course section and this instructor.

Prerequisites: Appropriate score on TSI/TSIA2 exam or successful completion of MATH 0305

Materials: The following materials are required for this course:

Writing: Pencil and paper are required for taking notes during videos, while reading the text, or during class meetings, as well as taking quizzes and exams. Generally, I recommend having a spiral notebook dedicated to notes and solving problems for this class, and a folder for receiving returned/graded work.

Textbook: We will be using College Algebra with Intermediate Algebra by Beecher, Penna, Johnson, Bittinger in this class. You will find a digital copy of this on Blackboard if necessary.

Calculators: You will need a calculator with e^x and ln keys will be required. These can be found on scientific calculators (inexpensively obtained from Wal-Mart or any other big-box store) or graphing calculators (NOTE: graphing calculators are nice, but they are not required for this course). Online options exist such as Wolfram Alpha (`wolframalpha.com`), Desmos (`www.desmos.com` Desmos also has smartphone apps) or GeoGebra (`www.geogebra.org`). Smartphone apps such as Panecal or ClassCalc are also available for low cost (or free). All are great for doing homework or studying.
Please note that computer software and mobile apps will not be allowed on exams.

Computer: Access to a computer with stable internet connection will be required for viewing course materials as well as using other software (see "Calculators" above and "Blackboard" below). The use of Chromebooks or other computers running the Chrome Operating System (ChromeOS) is discouraged, as ChromeOS is not always compatable with the software we may be using during this course. If you do not have a computer you may find success using mobile devices in some cases, and there are also suitable computers via the computer labs found at every SPC campus.

Blackboard: Blackboard (accessible via the SPC website) will be used as a central hub for the course. Students will find this syllabus, and all other course materials, as well as assignments, grading rubrics, etc. You should be checking Blackboard daily for announcements and updates, and to access the homework. Blackboard utilizes your SPC email, thus you should also be checking your SPC email regularly.

Gradescope: Gradescope is an app that will be used for submitting written work of any form during this course. It will be how assignments are submitted, and how feedback from the grading process is viewed. If you do not have a smartphone or other mobile device, please speak with your instructor as soon as possible.

MyMathLab: We will be using MyMathLab for you to practice concepts and do many assignments. Instructions for registration/login are available on Blackboard. Make sure you have full access as soon as possible.

OneNote: All students have access to Microsoft OneNote by virtue of their enrollment at SPC. OneNote will be used for all classroom activities as a way for students to be able to access classroom lessons, and to facilitate office hours interactions. OneNote does not have to be used by students during the class period, but should be used outside of class as an important resources.

Grading: This is a dual-enrollment course, and as such has two grades: the "college-level" grade (MATH 1314) and the "support course" grade (MATH 0314). Grading will be done according to the standard 10 percent scale (i.e. 100% - 90% is an A, etc.) with the following weights for each course: *(Please note that "Assignments" refers to all graded work that are not exams.)*

	MATH0314-Support Course	**MATH1314-College Algebra**
Assignments	35%	20%
Exams	65%	60%
Final Exam		20%

The grade for the support course (MATH0314) is graded as "Pass/Fail" using an appropriate selection of assignments from the course according to the weights given above. In the event that the grade for MATH1314 is **larger** than the grade for MATH0314, then the grade for MATH1314 will be used for both grade entries. Running grade totals for both MATH0314 and MATH1314 will be visible in the gradebook on Blackboard.

Class Attendance: A "flipped" classroom is a learning environment in which students work with the material first on their own (via videos, homework and other media), and then come to class ready to ask questions, discuss the material, and work together to solve problems. It is your responsibility to come to class ready to discuss the material scheduled for that day on the course calendar. This means that you have watched the videos on the relevant assignments on MyMathLab and at least attempted some problems. The assignment does not have to be completed before coming to class.

You are responsible for contacting your professor if you know in advance that you will miss class for any reason. Please note that unless your absence is due to a South Plains College-sponsored

function or activity, due dates for assignments will only be moved at the discretion of your professor. No assignments are accepted after their due date, and multiple attempts are not given, except in the case of homework as detailed below.

Homework: We will be using MyMathLab for homework assignments. It is highly recommended that you spend some time doing homework as often as possible (I personally recommend a minimum of 5 days per week.) All homework assignments will have embedded lecture videos produced by Pearson that follow the text. Generally, homework has no fixed due date, in order to give you the maximum amount of time to practice, improve your homework average, and learn the material. But these homework exercises are relevant to other assignments, such as quizzes and exams, which have fixed due dates. So it is important to get as much homework done as possible during the week it is assigned.

Quizzes: Quizzes will be given at the end of most classes as a way to summarize material and to assess where the class stands with respect to a given topic.

Exams: There will be five (5) midterm exams are given during this course. Questions will be similar to assigned problems from homework, quizzes, and class discussions (lecture/lab). During exams cell phones, smart-watches, laptops, and other such objects should be turned *off* and put away. There is no tolerance for violations.

Final Exam: The final exam is comprehensive, and a required part of the course. Failure to attend/attempt the final exam results in an automatic F. If, however, the final exam grade is better than the course average (which includes the final exam, as stated above), then the final exam grade will serve as the grade for the entire course. The Final Exam will take place Monday, December 9, at 8:00 am and 1 pm

Extra Credit: Extra credit is offered to students who have shown adequate participation in the course. This opportunity will apply to the grade for the support course first, and then to the college-level course if the support course grade is already passing. See document *Extra Credit Assignments* for details.

		Topic	Sections
Week 1	8/26/2024	Arithmetic Review	R.1 - R.3
	8/27/2024	Basic Algebra Review	R.4 - R.6
	8/28/2024	Review: Exponent Rules	R.7
	8/29/2024	Equations and Formulas	1.1, 1.2
Week 2	9/2/2024	LABOR DAY	
	9/3/2024	Applications and Problem Solving	1.3
	9/4/2024	Inequalities	1.4, 1.5
	9/5/2024	Absolute Value	1.6
Week 3	9/9/2024	AMA	
	9/10/2024	Exam 1	Ch. R, 1
	9/11/2024	Graphs of Equations and Functions	2.1, 2.2
	9/12/2024	Algebra and Functions	2.3, 2.4
Week 4	9/16/2024	Linear Functions	2.5, 2.6
	9/17/2024	Creating Linear Functions, Applications	2.7
	9/18/2024	Systems of Linear Equations	3.1 -3.3
	9/19/2024	Systems of Linear Equations, cont.	
Week 5	9/23/2024	Applications of Linear Systems	3.4
	9/24/2024	Systems of Linear Equations (3-variables)	3.5, 3.6
	9/25/2024	AMA	
	9/26/2024	Exam 2	Ch. 2, 3
Week 6	9/30/2024	Introduction to Polynomials	4.1, 4.2
	10/1/2024	Factoring Review	4.3 -4.6
	10/2/2024	Factoring Review, cont.	
	10/3/2024	Applications of Polynomials	4.8
Week 7	10/7/2024	Rational Expressions, part 1 (Multiplication, Division, Simplifying)	5.1
	10/8/2024	Rational Expressions, part 2 (LCD, Addition, Subtraction)	5.2
	10/9/2024	Dividing Polynomials	5.3
	10/10/2024	Compound Rational Expressions	5.4
Week 8	10/14/2024	Rational Equations	5.5, 5.6
	10/15/2024	AMA	
	10/16/2024	Exam 3	Ch. 4, 5
	10/17/2024	Radical Expressions and Functions	6.1
Week 9	10/21/2024	Rational Exponents and Radicals	6.2
	10/22/2024	Operations with Radicals	6.3, 6.4
	10/23/2024	Dividing Radicals	6.5
	10/24/2024	Solving Radical Equations	6.6
Week 10	10/28/2024	Applications of Powers	6.7
	10/29/2024	Function Behavor, Piecewise Functions	6.8
	10/30/2024	Symmetry and Transformations of Functions	7.1, 7.2
	10/31/2024	AMA	
Week 11	11/4/2024	Exam 4	
	11/5/2024	Quadratic Equations	7.4
	11/6/2024	Graphs of Quadratic Functions	7.5
	11/7/2024	Polynomial Functions and Graphs	8.1, 8.2
Week 12	11/11/2024	Factor and Remainder Theorems	8.3
	11/12/2024	Zeros of Polynomial Functions	8.4
	11/13/2024	Rational Functions	8.5

	11/14/2024	Polynomial and Rational Inequalities	8.6
Week 13	11/18/2024	Function Composition	9.1, 9.2
	11/19/2024	Exponential Functions and Graphs	9.3
	11/20/2024	Logarithmic Functions and Graphs	9.4
	11/21/2024	Properties of Logarithms	9.5
Week 14	11/25/2024	Solving Exponential and Logarithmic Equations	9.6
	11/26/2024	Applications of Exponential Functions	9.7
	11/27/2024	THANKSGIVING	
	11/28/2024	THANKSGIVING	
Week 15	12/2/2024	Exam 5	
	12/3/2024	Matrices and Linear Systems	10.1
	12/4/2024	Determinants and Cramer's Rule	10.4
	12/5/2024	AMA	
Week 16	12/9/2024	Final Exam @ 8 am or 1 pm	