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MATH 1314 College Algebra

Instructor :	Course ID:
Office Location :	
Office Hours :	
Office Phone :	
Email Address :	

Prerequisite:

Successful completion of Math 0322 with a grade of "C" or higher or appropriate score in ACCUPLACER, THEA, or COMPASS

Course Description: 3 semester credit hours

This course is designed to prepare students for further study of college mathematics. Content of this course includes relations, functions, graphs, algebra of functions and inverse functions; linear and quadratic relations and functions; graphs of rational functions; exponential and logarithmic functions and their properties; exponential and logarithmic equations; systems of linear equations; matrices including Gaussian elimination; polynomials including synthetic division, rational root theorem, remainder and factor theorems and approximating irrational roots; sequences and series; binomial theorem.

Textbook/ Supplies:

1. Access Kit for My Math Lab.
2. Required TI-83 Graphing Calculator- free Virtual Tutorial provided.
3. (Optional) Textbook: M. Sullivan, M. Sullivan, III, *College Algebra Enhanced with Graphing Utilities* 6th ed. Pearson 2013.

Technical Support:

- A student experiencing any problems with their MMS account at any time during the semester should contact Technical Support IMMEDIATELY. It is the student's responsibility to contact the Technical Support Team for help in correcting the problem as soon as the problems are encountered.
- Pearson MML Technical Support:
(Tel)800-677-6337 Monday-Friday 11am-7pm (<http://247.support.pearsoned.com>)

Course Grades:

Homework	15%	A = 90-100%
Quizzes (9)	15%	B = 80-89%
Tests (8)	40%	C = 70-79%
Final Exam	30%	D = 60-69 %
		F = Below 60%

Final Exam:

Students have 1 attempt on the Final Exam. The Final Exam will be administered by the Lecture Instructor. The final exam is a departmental exam and will be held according to the official Coastal Bend College Final Schedule.

Students guilty of academic dishonesty in this math class will receive an "F" for the course. Academic Dishonesty is defined on page 2 of the syllabus and is also defined in the Coastal Bend College Student Handbook. Taking an exam outside the classroom environment at a time other than the scheduled time is Academic Dishonesty.

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Class Policy:

Students caught cheating on a math test will receive a grade of zero for the test and an “F” for the course.

- There are no make-up exams. Missed exam for any reason is the student’s first attempt. The second attempt must be taken according to the class schedule.
- Any exception to the No Make-Up Exam policy is rare. Request for any special consideration must be sent in writing to the Mathematics Division Chair, Susan Moczygamba at susanm@coastalbend.edu by the end of the same day of the first attempt.
- Students have infinite attempts to complete and/or improve Homework and Practice Exam (Quiz) grades before the respective due dates expire. The minimum score required for completing these assignments is 70% and can be completed using the student’s notes, textbook, and/or Help Features in MML.
- Students have 2 attempts for each scheduled Chapter Exam. The first attempt will be taken during lecture as scheduled on the Course Calendar for this course and will be administered by the Lecture Instructor or by a facilitator designated by the Lecture Instructor. The second attempt will be scheduled to be taken during lab the following week and will be administered by the Lab Instructor or designated facilitator. Only the Formula Sheet and required calculator will be allowed to be used on Chapter Exams and Final Exam.
- Students taking exams outside of the designated labs on campus, dates, and times scheduled by the Lecture Instructor will be in violation of the rules concerning Scholastic Dishonesty and will receive an “F” in the course.
- Homework is the prerequisite for the Chapter Practice Exam (Quiz) and must be completed with a minimum score of 70%.
- The Chapter Practice Exam (Quiz) is a prerequisite for the Chapter Exam and must be completed with a minimum score of 70% prior to the scheduled exam date.
- There are no prerequisites for the Practice Final Exam or the Final Exam.
- The class will follow the course calendar and maintain its schedule regardless of student absences, instructor absences, bad weather, etc. in order to complete the required college curriculum for this course.
- All required assignments (Homework, Quizzes, and Exams) not completed with the stated minimum score by their respective due dates will receive a zero.
- **If a student is experiencing any problems with their MyMathLab account at any time during the semester, it is the student’s responsibility to contact the MyMathLab Technical Support Team for help in correcting them as soon as the problems are encountered.**
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Attendance Policy:

- A student with excessive absences will be reported to the registrar’s office of Coastal Bend College and are in danger of being dropped from the class. Being dropped from a course may have a negative impact on a student’s full-time status.
- **Lab attendance is a requirement**, not an option. Students are required to attend a 1 hour 20 minutes lab according to the lab schedule for reinforcement and practice of the topics taught in class. Students who do not attend lab will be dropped from the course.

Academic Dishonesty:

Acts prohibited by the college for which discipline may be administered include scholastic dishonesty, including but not limited to cheating on an exam or quiz, plagiarizing, and unauthorized collaboration with another in preparing outside work. Academic work submitted by students shall be the result of their thought, work, research or self-expression. Academic work is defined as, but not limited to, tests, quizzes, whether taken electronically or on paper; projects, either individual or group; classroom presentations; and homework. Students will be held accountable for infractions of the following codes of conduct:

1. **Collusion:** having someone else do your assignments for you which are required for the course
2. **Cheating:** copying from another student’s test/work or using unauthorized materials or electronic or web-based sources during the test; giving or receiving aid unauthorized by the instructor during

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assignments or tests.

3. **Plagiarism:** unacknowledged quotation and/or paraphrasing of some else's words, ideas, or data and passing it off as your own work submitted for credit or grade.

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Special Needs:

Students with disabilities, including learning disabilities, who wish to request accommodations in this class, should contact the Counseling Office as soon as possible to make arrangements. In accordance with federal law, a student requesting accommodations must provide documentation of disability to the Special Needs Counselor. For more information, please go by the Counseling Office, or contact:

- Beeville Counselor, Eddie Rojas, edrojas@coastalbend.edu (361) 354-2731 or 2720
- Alice Counselor, Dee Berthold, deedee@coastalbend.edu (361) 664-2981, Ext. 3025
- Kingsville Counselor, Pete Trevino, ptrevino@coastalbend.edu (361) 592-1615
- Pleasanton Counselor, Terry Villanueva, terry@coastalbend.edu (830) 569-4222, Ext. 1203

Students who are requesting accommodation must provide the instructor with a letter of accommodation form the Counseling Office (OSD). Accommodations can only be made after the instructor receives the letter of accommodation.

Coastal Bend College does not discriminate on the basis of race, creed, color, national origin, gender, age, or disability.

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Math 1314 Course Outline

Unit 1: Graphs

- ✓ Intercepts; Symmetry.
- ✓ Circles.
- ✓ Sections 2.1, 2.3

Unit 2: Functions and Their Graphs

- ✓ Functions and Their Graphs.
- ✓ Root Functions; Polynomial Functions; Absolute Value Functions.
- ✓ Graphing Techniques; Transformation.
- ✓ Sections 3.1, 3.2, 3.4, 3.5

Unit 4: Linear and Quadratic Functions

- ✓ Linear Functions and Their Properties.
- ✓ Quadratic Functions and Their Properties and Models.
- ✓ Sections 4.1, 4.3, 4.4

Unit 5: Polynomial and Rational Functions

- ✓ Real Zeros and Their Multiplicities; Complex Zeros.
- ✓ Behavior of Polynomial Functions.
- ✓ Division Algorithm; Remainder and Factor Theorems.
- ✓ Properties and Graph of Rational Functions; Asymptotes.
- ✓ Sections 5.1, 5.2, 5.3, 5.4, 5.5

Unit 6: Exponential and Logarithmic Functions

- ✓ Composite and Inverse Functions.
- ✓ Properties and Graph of Exponential Functions.
- ✓ Properties of Logarithmic Functions.
- ✓ Exponential and Logarithmic Models.
- ✓ Sections 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.8

Unit 7: Systems of Linear Equations: Substitution and Elimination

- ✓ Solving Systems of Linear Equations; Substitution, Elimination, Matrix, Cramer's Rule.
- ✓ Sections 8.1, 8.2, 8.3

Unit 8: Sequences; Induction; the Binomial Theorem

- ✓ Arithmetic Sequences; Geometric Sequences and Series.
- ✓ Binomial Theorem.
- ✓ Sections 9.1, 9.2, 9.3, 9.5

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