

South Plains College Department of Mathematics and Engineering
Math 2412: PreCalculus
Section 002: TR 8:30-10:35 M128
Fall 2017 Course Syllabus

Instructor: Jennifer K Bartlett

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Office Hours: MW 12:00 – 2:30, F 9:00 – 12:00,
or by appointment!

Credit: 4 hours

Lecture: 3 hours **Lab:** 1 hour

This course satisfies the Mathematics core curriculum requirement.

Course Description: This course covers the study of algebraic, polynomial, rational, exponential, and logarithmic/trigonometric functions. Topics in analytic geometry are covered.

Course Objectives: The objective of this course is to acquaint the student with solutions to different mathematical problems. The course covers algebra, trigonometry, and analytic geometry.

Student Learning Outcome/Competencies: Upon successful completion of this course students will:

- 1) Demonstrate and apply knowledge of properties of functions
- 2) Recognize and apply algebraic and transcendental functions and solve related equations.
- 3) Apply graphing techniques to algebraic and transcendental functions.
- 4) Compute the values of trigonometric function for key angles in all quadrants of the unit circle measured in both degrees and radians
- 5) Prove trigonometric identities
- 6) Solve right and oblique triangles

Core Objectives:

Communication Skills: effective development, interpretation, and expression of ideas through written, oral and visual communication

- Develop, interpret, and express ideas through written communication
- Develop, interpret, and express ideas through written communication
- Develop, interpret, and express ideas through written communication

Critical Thinking: creative thinking, innovation, inquiry, analysis, evaluation, and synthesis of information

- Generate and communicate ideas by combining, changing, and reapplying existing information
- Gather and assess information relevant to a question
- Analyze, evaluate, and synthesize information

Empirical and Quantitative Competency Skills: the manipulation and analysis of numerical data or observable facts resulting in informed conclusions

- Manipulate and analyze numerical data and arrive at an informed conclusion
- Manipulate and analyze observable facts and arrive at an informed conclusion

Textbook: *Pre-Calculus*, by Neal, Gustafson, and Hughes, 2013, Cengage Learning.

(ISBN-13: 978-0-495-82662-0)

(ISBN-10: 0-495-82662-6)

Supplies: You will need a 3-ring binder, notebook paper, graph paper, a 3-hole punch, pencils, and erasers. You will be allowed to use a scientific calculator. Graphing calculators and phone/tablet calculators will not be allowed. No sharing of calculators is allowed. You must bring your calculator to every class.

Course Requirements: To maximize the potential to complete this course, a student should attend all class meetings, take notes and participate in class, complete all homework assignments and examinations including final examinations.

Attendance Policy: Attendance and effort are crucial for success in this course. Class attendance may be taken at any time during the class period, so please do not arrive late or leave early. You may be dropped from this course with a grade of X or F if you are

absent four consecutive days or if you accrue five absences for any reason throughout the semester. Absences are not classified as 'excused' or 'unexcused'. The last day for student initiated drops is Thursday, November 16th .

Assignments: Homework assignments will be assigned during each class meeting. Quizzes may be administered at any time. Keep all class materials (notes, handouts, homework, quizzes, and exams) organized in a notebook (3-ring binder). These materials are subject to be turned in for grading at any time. Please make certain all materials accompany you to each class meeting. No late assignments will be accepted.

Exams: There will be 4 unit exams given and a comprehensive final. Once you begin an exam, you will not be able to leave the classroom until the exam is submitted for grading. The tentative exam dates are as follows:

Exam 1: Thursday, September 14 th	Exam 3: Thursday, November 2 nd
Exam 2: Thursday, October 3 rd	Exam 4: Tuesday, November 21 st

Final: The comprehensive final exam will be given on Tuesday, December the 12th from 8:00-10:00. No make-up final will be given.

Grading Policy:

Daily Work (HW, quizzes, notebook)	20%
Exams (4 total)	60% (15% each)
Comprehensive Final	20%

Grading Scale:

90-100%	A
80-89%	B
70-79%	C
60-69%	D
Below 60%	F

This course and its grade will be recorded on your official transcript. Grades will be posted on Blackboard during the semester.

Student Responsibilities and Expectations:

1. Come to class on time and prepared to learn. (Pencils, homework, notebook, calculator)
2. Read the syllabus.
3. Take notes, participate in class, and complete course assignments early enough to seek help if needed.
4. Food and drink are not allowed in class, with the exception of bottled water.
5. Cell phones and any other electronic devices must be silenced and put away before entering the classroom. Use of these devices during class will result in a zero for that day's quiz, homework, or exam.

Resources:

- Blackboard is the online course management system that will be used for this course. The course syllabus as well as any other class handouts can be accessed through Blackboard. Login at <http://southplainscollege.blackboard.com> . The user name and password should be the same as the MySPC and SPC email.
User name: first initial, last name, and last 4 digits of the Student ID
Password: Original Campus Connect Pin No. (found on SPC acceptance letter)
- Free tutoring is available in M116 on the Levelland campus. Hours for the tutors will be posted by the door of M116 and I will also post them on Blackboard.
- I am available to help you! Feel free to come by during my office hours or email me at jkbartlett@southplainscollege.edu .
- Websites that contain helpful videos:
patrickjmt.com
khanacademy.com

Religious Holy Days: In accordance with Section 51.911, Texas Education Code, South Plains College will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within seven (7) calendar days after the absence. Students are required to file a written notification of absence with each instructor within the first fifteen (15) days of the semester in which the absence will occur. Forms for this purpose are available in the Student Services Office along with instructions and procedures. "Religious holy days" means a holy day observed by a religion whose place of worship is exempt from property taxation under Section 11.20, Tax Code. (copied from current South Plains College catalog)

Equal Opportunity: South Plains College strives to accommodate the individual needs of all students in order to enhance their opportunities for success in the context of a comprehensive community college setting. It is the policy of South Plains College to offer all educational and employment opportunities without regard to race, color, national origin, religion, gender, disability, or age.

Disability Statement: Students with disabilities, including but not limited to physical, psychiatric, or learning disabilities, who wish to request accommodations in this class should notify the Disability Services Office early in the semester so that the appropriate arrangements may be made. In accordance with federal law, a student requesting accommodations must provide acceptable documentation of his/her disability to the Disability Services Office. For more information, call or visit the Disability Services Office at Levelland Student Health & Wellness Center 806-716-2577, Reese Center (also covers ATC) Building 8: 806-716-4675, Plainview Center Main Office: 806-716-4302 or 806-296-9611, or the Health and Wellness main number at 806-716-2529.

Campus Concealed Carry - Texas Senate Bill - 11 (Government Code 411.2031, et al.) authorizes the carrying of a concealed handgun in South Plains College buildings only by persons who have been issued and are in possession of a Texas License to Carry a Handgun. Qualified law enforcement officers or those who are otherwise authorized to carry a concealed handgun in the State of Texas are also permitted to do so. Pursuant to Penal Code (PC) 46.035 and South Plains College policy, license holders may not carry a concealed handgun in restricted locations. For a list of locations, please refer to the SPC policy at: http://www.southplainscollege.edu/human_resources/policy_procedure/hhc.php.

Pursuant to PC 46.035, the open carrying of handguns is prohibited on all South Plains College campuses. Report violations to the College Police Department at 806-716-2396 or 9-1-1.