Syllabus

Math 1316 Plane Trigonometry
Course Description: MATH 1316 Plane Trigonometry (3 SCH version)

Instructor: Dana Curry

Office Hours: Online - email me to schedule
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Main Campus: TBA
Office: TBA

Course Prerequisite: "C" or better in MATH 0408 or acceptable placement score.

Catalog Course Description

A study of trigonometric functions of angles using degree and radian measure; graphs of trigonometric functions, inverse functions; identities; solutions of trigonometric equations; applications of trigonometric functions.

Student Learning Objectives/Outcomes

During this course, I as an instructor expect you, the student, to

1. Compute the values of trigonometric functions for key angles in all quadrants of the unit circle measured in both degrees and radians.
2. Graph trigonometric functions and their transformations.
3. Prove trigonometric identities.
4. Solve trigonometric equations.
5. Solve right and oblique triangles.
6. Use the concepts of trigonometry to solve applications.

Course Philosophy

As an instructor at Jacksonville College, I embrace the doctrinal distinctives recognized by the college:

- The Bible is the inerrant, infallible word of God and is the final authority in all matters of belief and practice.
- There is one and only one living and triune God. He is Creator, Redeemer, Preserver and Ruler of the Universe.
- Christ is the eternal Son of God. In His incarnation, Jesus was conceived of the Holy Spirit and born of the Virgin Mary.
- Man is the special creation of God, who created us male and female.
- Salvation is the gracious act of God through faith in Jesus Christ and Him alone.
- God works through people, leading them by the Holy Spirit.
- Believers are to mature in the faith through discipleship and serve God and others through a New Testament Church.
- Jesus Christ will return personally and visibly in glory to the earth. Christ will judge all men according to His will.

In upholding this philosophy, I will provide a distinctly Christian environment in my classroom, demonstrate
high standards of ethics and morality, pursue academic excellence, emphasize the Bible in my curriculum, programs, and services and accept all regardless of their race, gender, national origin, or disability, while promoting both social and personal responsibility.

Required Textbook and Materials

Required:
Online Access Code for the text *Trigonometry* (MyMathLab), 2nd edition, Robert Blitzer.
ISBN 13: 9780134469966. The text can be purchased directly from Pearson for approximately $105. Information to be posted in Moodle.

Access to Moodle at http://moodle.jacksonville-college.edu/login/index.php

***Scientific Calculator is required.

Internet access with webcam will be required for assignments, class materials and instructions, projects and/or quizzes/exams.

Instructional Methods

Methods of online teaching and online course activities used to assist students in meeting the course goals may include, but not be limited to:
- course pretest;
- covering selected topics from the printed text;
- reading and writing assignments;
- class participation and discussions;
- individual and collaborative projects that require reflection and analysis;
- online assignments and discussions;
- and online quizzes & exams.

Course Grading Policy

It should be noted that enrollment in this course does not guarantee credit for this course. The final responsibility for learning lies with the student.

The course grade is the weighted mean exams, homework, quizzes, projects, and final exam.

1316 Grading:
      Exams – 40%
      Homework & Quizzes – 20%
      Calculator Projects – 10%
      Faith Projects – 10%
      Final Exam – 20%

Course and Instructor Policies

Attendance: Class has been designed for you, the student, and you should plan to regularly log in to Moodle to attend class, upload assignments, email, and/or participate in each class' online discussion, activities, assignments, quizzes, and exams. Attendance will be recorded.

Homework: Assignments are due at the time indicated. Any requests to reopen assignments must be presented to instructor and **must** be done via email.

Exams: Students should be prepared to take exams with a webcam. Exams are due at the time indicated on the course calendar. Students will be required to neatly show their work for each exam problem. The student will be required to email their work to the professor immediately after taking the exam. If the professor does not receive work shown from the exam, the student will not receive credit for taking the exam. Students should make every effort to be present and available to take exams as assigned. If a student is absent the day of a test due to an emergency or college event to which he/she is required to attend, he/she must request to reschedule the test. The student must contact the instructor by email before the next class session to make arrangements.

Projects: Students will be assigned faith integration projects and calculator projects throughout this
course. The projects will be accessible on Moodle and must be submitted to Moodle in the specified format for credit.

Academic Integrity

Because of who I am and what Jacksonville College represents, I expect academic honesty at all times. I will be honest and fair with you; I expect no less in return. Sharing answers on homework
helps no one. Don't be misled into thinking that someone else's work is your own. Assistance with
answers (including the appearance of such) on tests is dishonesty and/or theft and will result in a zero on the paper in question.

Creating Conditions for Successful Learning

Research shows success in math class depends very much on two factors: the amount of time spent working on the material, and the student's beliefs about mathematics and what it means to understand and do mathematics. Keeping this in mind, the following suggestions are things you can do to increase your success in mathematics.

- Participate in class by completing assignments.
- Realize that mathematics is not just a set of procedures and that mathematical concepts involve a lot of thinking and reasoning. Consequently, being able to execute procedures accurately is only one part of doing well in this class.
- Realize that success in mathematics is less about "ability" and more about willingness to think and to work hard to make sense of things.
- A major key to success in math is working problems. The more problems you work, the more you'll understand and the more confident you'll become. This means that homework is a necessity, both for your learning and for your grade. You are experiencing a provision from God, and we must be good stewards of God's blessings.

Instructor Goals for Continued Student Success
During your time in my class, I will strive to:

Provide a Christ-centered, quality education that prepares you for further educational endeavors – "Whatever you do, work at it with all your heart, as working for the Lord, not for human masters..." Colossians 3:23

Prepare you to demonstrate your Christian faith in every dimension of your life – "And the things you have heard me say in the presence of many witnesses entrust to reliable people who will also be qualified to teach others." 2 Timothy 2:2

Foster in you a desire for lifelong learning – "Do your best to present yourself to God as one approved, a worker who does not need to be ashamed and who correctly handles the word of truth." 2 Timothy 2:15

Accommodations for Students with Disabilities
If a student has a disability that qualifies under the American with Disabilities Act (ADA) and requires accommodations, he/she should contact the Academic Dean for information on appropriate policies and procedures. Disabilities covered by ADA may include learning, psychiatric, physical disabilities, or chronic health disorders. Students can contact the Academic Dean, located in the northeast corner of the Meadows Building (903-586-2518) if they are not certain whether a
medical condition/disability qualifies.

Technical Support
If you experience any technical problems with your MOODLE account, you may send an email to: help@jacksonville-college.edu.