MATH 1316
Plane Trigonometry (2701015319)
Course Information and Guidelines
(Click on link for General Course Syllabus)

***** Note to Student *****
Student success is our number one priority at Coastal Bend College and we realize that prompt, effective communication plays a significant role in achieving that goal. It is vitally important that you have the proper contact information for your instructor. This should include their phone number, email address, and if applicable, their office number, and office hours. If you ever have any problems contacting your instructor, or do not receive a prompt response to your inquiries, please contact the Director of Academics, or the Dean of Academics, as soon as possible. Their contact information is provided below:

Assistant Dean of Academics, Kayla D. Jones: 361-354-2532; kdjones@coastalbend.edu
Dean of Academics, Mark Secord: 361-354-2408; secordm@coastalbend.edu

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<tr>
<th>Instructor</th>
<th>MML Course ID:</th>
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<tr>
<td>Office Location</td>
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<td>Office Hours</td>
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<td>Office Phone</td>
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Course Description: 3 semester credit hours 3-0 Lecture/Lab hours
In-depth study and applications of trigonometry including definitions, identities, inverse functions, solutions of equations, graphing, and solving triangles. Additional topics such as vectors, polar coordinates and parametric equations may be included.

Prerequisite: Math 1314. Students are responsible for reading and following all college course prerequisites to ensure that they have been met for continued enrollment, otherwise the student must meet with their advisor to drop the course and make immediate and necessary changes to their schedule.

Textbook/Supplies:
2. (Required) TI-83/84 Plus Scientific Graphing Calculator only.(No other graphing calculators allowed.)
3. (Required) Internet Access

Internet Access: Students are responsible for completing all assignments in MyMathLab, which requires an internet service provider that is compatible with MyMathLab. Students may have to use campus computer labs, as needed, in order to meet the MyMathLab assignment deadlines.
Student Learning Outcomes (SLO): Upon successful completion of this course, defined in the policy as a 70% or greater mastery level, the student will:

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.

Evaluation Methods:
(Assignments and grades in this course will be maintained in MyMathLab (MML). Upon submitting Homework, Quizzes, and Exams in MML, respective scores and Overall Score in the course are automatically updated. A purchased and activated Student MML Account is required by the stated deadline in this course, or the student may be dropped. Students in this course with a purchased and activated MML may go to their MML Gradebook page at any time to see their Current Overall Score. All instructors are to update Past Due/Missed Assignments and Exams with zero scores in their MML Gradebook immediately upon respective Assignment/Exam Due Dates expiring. Semester Period grades will be posted by the Instructor or Professor in Blackboard and Cougar Den/Colleague by the stated semester deadlines for CBC.)

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<tr>
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<th>Percentage</th>
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<tr>
<td>Homework</td>
<td>15%</td>
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<td>Quizzes</td>
<td>15%</td>
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<tr>
<td>Tests (Major Assignments)</td>
<td>40%</td>
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<tr>
<td>Final Exam (Major Assignment)</td>
<td>30%</td>
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A = 90-100%
B = 80-89%
C = 70-79%
D = 60-69%
F = Below 60%

Semester Course Calendar: A Semester Course Calendar will be posted in Blackboard by the Instructor or Professor for students to access and follow during the semester, indicating the Semester, Meeting Time, Location of Course, as well as outlining a weekly schedule of the sections to be covered in lecture. It is strongly recommended that all instructors include a structured schedule of Course Exam Dates in their calendar for students to follow, rather than leave all Exams open until the last day of the college semester. The schedule may vary by Professor or Instructor, but all course content contained in the curriculum for this course will be covered and assessed in the given semester. For Distance Learning (DL) courses, the Instructor or Professor will physically visit each CBC site that they are officially transmitting the course to at least once during the first 4 weeks of the semester. For Summer DL Courses, the Instructor or Professor will do so during the first week of the summer term. Dates and Locations will be posted in Blackboard by the Instructor or Professor.

Student Course Evaluation: IOTA Solutions will be providing online evaluation surveys for student participation each semester and students will find a direct link with instructions to their evaluations when they log into Campus Connect. Students will receive three reminder email messages from IOTA, indicating the evaluation period dates and instructions, until they have completed all course evaluations. The online evaluation survey requires approximately 5-10 minutes to complete online. After the evaluation period closes or the evaluation survey is submitted, the evaluation website cannot be re-opened, therefore, students are encouraged to participate and complete the evaluations in a timely manner. Anonymous results are used to help make course improvements essential to student success. Students are directed to contact the IOTA Solutions contact person via their email address, which is provided in the reminder emails sent to students, should they experience any problems during the process.
Special Needs Accommodations: Visit the Student Special Needs office located in the Dirks building to speak with a representative about any concerns you may have regarding possible Special Needs accommodations that may be provided to you. The student is responsible for meeting with the Special Needs office prior to the start of each semester in order to maintain and/or update any personal information and documentation on file, including any previous accommodations provided. Students must be aware that accommodations are not automatically renewed and are not effective retroactively.

Student Conduct: All official College students (including Dual Enrollment students) are expected to perform at the college level by attending class promptly and regularly, by being respectful towards the Instructor, fellow students, and college employees in their actions, language, and attire, by being attentive and involved in the learning process in class, by taking notes in class on all information given by the Instructor, by participating in all class activities directed by the Instructor to help build important skills needed in the course, by accessing MML daily in order to practice, complete, and submit all required coursework in a timely manner, and by honoring all policies and deadlines published by the College Instructor or Professor and Coastal Bend College. Every lecture and lab is important and the student is responsible for any missed material. Address your Instructors, fellow students, and CBC employees respectfully. Laptops will not be allowed in lecture or lab unless approved by the College Instructor. Before lecture, lab, or testing, students must power off their cell phones (including all types of watches that can link to cell phones) and put away in their bag, place face down on their desktop away from their work area, or as instructed and cannot be on their person. Students testing at the Testing Center will follow all Testing Center Policies regarding cell phones/watches. Cell phones/watches will not be allowed to be used as calculators. Handling your cell phone/watch for any reason during lecture, lab, or testing will be cause for dismissal. (In the case of during testing, the student will receive an F for the course. No exceptions.) It is your responsibility to:

- Inform your Instructors well in advance before class begins that you may be contacted during the day and possibly have to leave campus and be absent. Allowing a student to have their cell phone available during the period (except during testing) must be approved and will be at the Instructor’s or Professor’s discretion.
- Provide the person who must contact you with your daily class schedule. This should include Building, Name of Building Secretary, Classroom number, and the days and times when you may be reached. Times that you may be reached while on campus must be before or after classes begin.
- Leave this information with the secretaries of the nearest buildings in which your class/classes are being held.

In order to maintain and preserve a constructive learning environment, disruptive behavior will not be tolerated. Disruptive behavior in class by any student(s) may result in dismissal from class or may result in suspension from the class/college. The Professor or Instructor may also end the period immediately as a result of the disruption, in which case, all students will be responsible for any and all material missed or not covered in class. Disruptive Behavior will be any behavior or action(s) by any student(s) in class that distracts or impedes the Instructor and/or other student(s) during the instructional and learning process in class, some examples of which are: talking or sleeping in class, handling any non-approved electronic device in class, eating and/or drinking in class, making unnecessary noises in class. Scholastic dishonesty is also cause for dismissal and/or suspension from college. Refer to the Student Handbook for Scholastic and Disciplinary Policies.

Students guilty of Scholastic Dishonesty in this math class will receive an “F” for the course. Scholastic Dishonesty is defined in the Coastal Bend College Student Handbook.

Some examples of Scholastic Dishonesty are:
- taking an Exam outside of the student’s designated Testing location, proctor, date, and time
without prior approval from the CBC Mathematics Professor for the course (Exams must still be taken during the normal and stated dates and hours of operation for the student’s designated Testing Center),

- taking an Exam with aid from another person, material, websites, or devices not authorized by the CBC Mathematics Professor for the course,
- allowing another person to take their Exam,
- obtaining and/or distributing personal or unauthorized Exam work and information to classmates, students, or others,
- plagiarism, collusion.

Class Policy:

- Cheating on a MATH EXAM will receive a grade of zero for the EXAM and an “F” for the course.
- During testing, cell phones and smart watches must be powered off and put away in your bag, face down on your desktop away from your work area, or as instructed and cannot be on your person, as this is considered a violation of Scholastic Dishonesty in this course. No exceptions.
- To help ensure classroom safety on campus and to minimize the interruption of the instructional process, classroom doors will be locked and closed at the officially designated Start Time for the course, therefore, all students are expected to arrive promptly and be seated before the Professor or Instructor begins class. The Professor or Instructor of the course may allow a 5 minute Tardy period, after which students will not be allowed in and will be counted absent.
- Students will be dropped from the course if they have not registered their MyMathLab account and purchased full access before the dates stated by the Instructor.
- There are no make-up exams. Missing a scheduled Chapter/Unit Exam for any reason counts as one of the student’s 2 Chapter/Unit Exam attempts. Both attempts must be taken as scheduled in the course calendar.
- **Homework Assignments:** All Unit Homework Assignments must be successfully completed by the student in MML as scheduled before being able to access the corresponding Unit Practice Exam Quiz. Students have infinite attempts to complete and/or improve Homework and Practice Exam Quiz grades before the respective Chapter/Unit Exam due dates expire in order to take the exams. Homework Assignments are prerequisite to accessing corresponding Practice Exam Assignments. The minimum score required for completing Homework Assignments is 70% and can be completed using the student’s notes, textbook, and/or Help Features in MML. Students have the opportunity to continuously improve completed Homework Assignments, along with their Overall Score, during the semester before their posted Due Dates expire. All Homework Assignments not completed by their respective due dates will receive zero scores.
- **Practice Exams (Quizzes):** The Unit Practice Exam Quiz Assignment must be successfully completed by the student in MML as scheduled before being able to take the corresponding Unit Exam at their designated and approved Testing Center by appointment before it expires. Students have infinite attempts to complete and/or improve Practice Exam (Quiz) grades in order to take the corresponding Exam before its due dates expire. Practice Exam Assignments are prerequisite to accessing corresponding Exams. The minimum score required for completing the Practice Exam Assignments is 70% and can be completed using the student’s notes, textbook, and/or Help Features in MML. Students have the opportunity to continuously improve completed Practice Exam Assignments, along with their Overall Score, during the semester before their posted Due Dates expire. All Practice Exam Assignments not completed by their respective due dates will receive zero scores.
- **Exams:** All Course Exams are required to be proctored at an approved Testing Center as scheduled.
Unit/Chapter Exams have 2 timed attempts and will expire on their respective Due Dates and Times posted in MML. Exam questions are based on and are related to those from corresponding Unit Homework Assignments, with the Practice Exam Assignments representing most, but not necessarily all, of the possible questions to be on an Exam, therefore students are expected to be prepared to answer question(s) from Homework and Practice Exam Assignments. Each student is responsible for scheduling all of their Chapter/Unit Exams at their approved and designated Testing Center in advance in order to take each Exam before it expires. Both Chapter/Unit Exam attempts must be scheduled to be taken by the student before the Exam expiration date following the Course Calendar for this course and will be administered by the approved Testing Center. The higher of the two scored attempts for each Chapter/Unit Exam is used for the Overall Score.

In order to prevent from missing an Exam due to anticipated or unexpected events during the semester(some examples of which could be extracurricular activities, vacations, personal appointments/commitments, …etc.), all enrolled students are required to plan their schedule so that they can take any Course Exam earlier than its last posted due date and time at their designated Testing Center by completing any and all prerequisite assignments well in advance. The Lecture Instructor will announce in class any additional testing instructions that they will require for their course. Exam Due Dates will not be extended. Missed Exams will receive a zero score.

The Final Exam will have 1 timed attempt and students are expected to review their work carefully before submitting in MML. The Final Exam will be administered in a Testing Lab by the Lecture Instructor or be scheduled by the student at their designated and approved Testing Center. (Dual Enrollment high school students must have their assigned instructor administer the Final Exam at their designated high school Testing Center/Lab.) The Final Exam is a departmental exam and will be held according to the official Coastal Bend College Final Exam Schedule for the semester/term by all assigned instructors. Once the Final Exam is submitted, the student’s Overall Score is considered final and will not be rounded up, unless the student took all available Exam attempts as scheduled(or scored 100%) and improved all previous Homework and Practice Exam Assignments to 100% before their semester deadline. Missed Exam Due Dates due to extraneous circumstances may possibly be considered, but will be at the discretion of the Professor or Instructor. Missed Exam Due Dates due to the student failing to comply with the Professor or Instructor’s directives on preparing for, planning and scheduling Exams will not merit an extension. Students in this course may only use the CBC Mathematics Division standardized Formula Sheets, to be provided by their approved Testing Center proctors(or designated high school instructor for Dual Enrollment students), and the allowed calculator on Chapter/Unit Exams and Final Exam. Exams not completed by their respective due dates will receive zero scores.

- There are no prerequisites for the Practice Final Exam or the Final Exam.
- Students using unauthorized material, devices, or information on Exams, having another person take their Exams, taking Exams outside of the designated labs on campus or approved Testing Centers and their normal and stated hours of operation, taking Exams outside of the Dates and Times scheduled by the Lecture Professor/Instructor, or violating any other rule concerning Scholastic and Academic Dishonesty will receive an “F” in the course.
- The class will follow the Lecture Instructor’s 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.
- Courses designated as Independent Study will be more challenging than a regular course. An Independent Study course will contain the same course content and assessments as a regular course, but will require that the student be very self-motivated, organized, and dedicated to completing all of the course requirements with little to no supervision by the Instructor during the semester. Students in an
Independent Study course will be expected to dedicate more time to their personal schedule for researching useful online resources, in addition to MML, to help them practice and complete their coursework as scheduled. A course for Independent Study will be at the discretion of the Professor or Instructor.

**INTERNET CLASSES:** Students enrolled in an Internet class will be expected to manage and dedicate personal time to studying and completing all required assignments independently of a classroom setting. Students must access their online material via MyMathLab for this course on a daily basis in order to study and review all unit material, complete all assignments as scheduled, and practice in preparation for each Chapter/Unit Exam and Final Exam. Due Dates may only be extended in extraneous circumstances and at the discretion of the Professor or Instructor, following CBC guidelines and/or policies. Students are required to access their course material and assignments on a computer having Internet service in order to complete and submit required coursework by the posted Due Dates. By preparing daily, the student will have a better understanding of the material and increase their likelihood of succeeding in this course. Procrastinating until the day or weekend before a scheduled Exam is not acceptable. Missed Exam Due Dates due to the student failing to comply with the Professor or Instructor’s directives on preparing for, planning and scheduling an Exam will not merit an extension.

**INTERNET and DUAL ENROLLMENT CREDIT CLASSES (Testing Policy):** All Exams are timed. Students in this course are required to take all Chapter/Unit Exams and Final Exam as scheduled in the Course Calendar/Schedule and Official CBC Final Exam Schedule during normal and stated hours of operation at the nearest CBC Testing Center or nearest approved Testing Center to their place of residence. Dual Enrollment High School students may use their respective High School as their designated Testing Center and must have their Exams for this course proctored by their designated Instructor, High School Testing Administrator or Counselor during their High School’s normal and stated hours of operation. Students may take both available attempts on each Chapter/Unit Exam on the same date or on different dates before the Exam expires and may only use the CBC Mathematics Division standardized Formula Sheets, which are to be provided by their approved Testing Center proctors (or designated high school instructor for Dual Enrollment students), and the allowed calculator on all Course Exams.

For Internet Classes, each student is responsible for scheduling all Exams at their Instructor approved and designated Testing Center and must submit the required information below to their Instructor for verification and approval before the 3rd day of classes via e-mail, otherwise Exams will not be accessible (No Exceptions). See below.

Internet Class students who do not send their designated Testing Center information to their Instructor as required will affect their opportunity to access and take a scheduled Exam in MML before it expires during normal and stated hours of operation at their designated Testing Center, resulting in missing the Exam(s). Dual Enrollment high school students will meet with their high school instructor and have their Exams proctored as scheduled at their designated high school Testing Center. Missed Exam Due Dates due to extraneous circumstances may possibly be considered, but will be at the discretion of the Professor or Instructor, following CBC guidelines and/or policies. Missed Exam Due Dates due to the student failing to comply with the Professor or Instructor’s directives on preparing for, planning and scheduling an Exam will not merit an extension.

**Required INTERNET CLASS Testing Center information sent to Professor or Instructor via E-mail:**

**Subject Line:** provide your Full Name and Course

**Body of E-mail:** provide the following, then close with your Full Name

1. Name of Testing Center (or High School for Dual Enrollment High School students),
CBC Testing Center policies require all students needing to take Exams at any of the four CBC Testing Centers to make Course Exam Appointments well in advance using the on-line scheduling site link located on their Internet Testing webpage. Appointments are mandatory and no walk-ins are allowed, unless otherwise specified by the CBC Testing Centers. This may apply to non-CBC Testing Centers approved for testing in this course as well. All students in this college course are instructed to plan ahead and make all their Course Exam Appointments during the first two weeks of the semester in order to ensure that they have their preferred dates and times reserved at their designated Testing Center for each scheduled Exam before its expiration date. Each student is responsible for any changes that arise in their personal schedule or their designated Testing Center’s schedule that prevents them from taking an Exam and must make arrangements with their Testing Center to reschedule as soon as possible in order to take the Exam before it expires. Below are some situations that could lead to a student missing an Exam and which can be prevented by making Exam appointments early in the semester as instructed:

- forgetting to make an exam appointment on time,
- calling your Testing Center late and finding out that it is booked the day before the exam expires or the day the exam expires,
- calling in an exam appointment to take an exam on a day that your Testing Center is not available for testing,
- not checking your Testing Center webpage for issued testing schedule changes/closures, etc.

Students must have their Photo ID with them when they come in for testing. No personal items are allowed in the Testing Room. The personal items will be collected from the student before they are allowed into the testing room. Only items approved by their Instructor will be allowed. Each student is required to make all of their exam appointments based on their respective Testing Center’s weekly schedule and hours of availability during the semester. Testing Centers in general may have different weekly schedules of operation and it is your responsibility for knowing and following your respective Testing Center’s policies and schedule for making exam appointments.

Sending E-mail to your Professor or Instructor: always follow the format given below.

1 Subject Line: include your Full Name and Course Number,
2 Opening: address your Professor or Instructor with their appropriate title of Dr., Mr., or Ms. followed by their last name,
3 Body and Closing of your E-mail: provide a detailed message and End with your Full Name.

The Professor or Instructor will try to send a reply by the next day or as soon as is possible. E-mail does not equate to a Text message. Student E-mail not providing this information will not be addressed.

The required MyMathLab(MML) for this course is an online and interactive educational system designed by Pearson Education. The CBC Mathematics Division uses this system to create and manage the course assessments and timelines for completion, view and monitor student performance in the course, and other course related actions. Each student in this course is required to pay for and activate on the first day of classes Full Access to their personal Student Account, as well as maintain Full Access during the semester, in order to access course material/assessments and submit completed and required work as scheduled. This can be done either by purchasing Student Access Code at the CBC Bookstore or online directly through Pearson for immediate access using a credit card. Students may elect to
activate and register their required personal MML Student Account for the course using the Temporary 14-Day Access provided by Pearson on the Payment Option Page of the MML Registration Process. **IMPORTANT:** Students in this course may be dropped if they do not activate and register their personal MML Student Account within the first two weeks of the semester. Also, students who use Temporary Access may be dropped from the course if they let their personal MML Student Account expire by not purchasing Full Access and updating their MML Account. If a student is experiencing any problems with their personal MML Student Account or their Internet Service at any time during the semester, it is the student’s responsibility to contact the appropriate MML Technical Support or Internet Service Provider for help in correcting them as soon as the problems are encountered. Students must login to their MML account daily to know if their account is experiencing problems that need to be resolved immediately by MML Technical Support. **MyMathLab Tech. Support:** (Tel)800-677-6337 Mon.-Fri.11am-7pm (http://247.support.pearsoned.com)

**Attendance Policy:**

- **Class Attendance is mandatory and is not an option.** Attending class regularly and promptly as scheduled is an important factor of the student’s success in this course. By not taking attendance seriously and by being absent from class, the student is not going to be successful in this course. Therefore, if a student is excessively absent from Lecture and/or Lab in the semester, the Instructor will report the student to the registrar’s office for Excessive Absences and will be in danger of being dropped from the class. (Internet Students not showing regular login access and submission of coursework in MML will be considered as not actively participating in the course and may possibly be dropped from the course as well.) Students will be marked absent if not in class once Attendance is taken at the beginning of the period or for leaving class before the end of the period. Reasons for leaving class early must be legitimate and verified with the Instructor in advance. If a student arrives late to class or must leave class early due to an emergency, it is the student’s responsibility to contact the Instructor as soon as possible to inform them of the reason for being late or leaving class early for Attendance. Three tardies will count as one absence. Absences totaling more than six hours from Lecture and/or Lab during the semester will be considered excessive. Being dropped from a course may have a negative impact on a student’s full-time status.

- **Lab attendance is a requirement for courses with a lab component, this is not an option.** Lab allows students to practice and reinforce the understanding of topics covered in the course as well as take scheduled Exams. Students who do not attend lab will be dropped from the course.

**Math 1316 Course Outline**

Math 1316 consists of the following units:

- **Unit 1:** Ch 7 Trigonometric Functions
  - HW7.1a,b,c Angles and their Measures
  - HW7.2a,b Right Triangle Trigonometry
  - HW7.3 Computing Values of Trig Functions-Acute Angles
  - HW7.4a,b Trig Functions of Any Angle
HW7.5 Unit Circle Approach; Prop of Trig Functions
HW7.6 Graphs: Sine and Cosine Functions
HW7.7 Graphs: Tangent, Cotangent, Secant, Cosecant Functions
HW7.8 Phase Shift; Sinusoidal Curve Fitting
Ch7 Practice Exam Quiz
Ch7 Exam(Major Assignment)

Unit 2: Ch8 Analytic Trigonometry
HW8.1 Inverse Sine, Cosine, Tangent Functions
HW8.2 Inverse Trig Functions continued
HW8.3 Trigonometric Equations
HW8.4 Trigonometric Identities
HW8.5 Sum & Difference Formulas
HW8.6 Double-Angle & Half-Angle Formulas
HW8.7 Product-Sum & Sum-Product Formulas
Ch8 Practice Exam Quiz
Ch8 Exam(Major Assignment)

Unit 3: Ch9 Applications of Trigonometric Functions
HW9.1 Applications-Right Triangles
HW9.2 Law of Sines
HW9.3 Law of Cosines
HW9.4 Area of a Triangle
HW9.5 Simple Harmonic Motion; Damped Motion; Waves
Ch9 Practice Exam Quiz
Ch9 Exam(Major Assignment)

Unit 4: Ch10 Polar Coordinates and Vectors
HW10.1 Polar Coordinates
HW10.2 Polar Equations and Graphs
HW10.3 The Complex Plane; De Moivre's Theorem
HW10.4 Vectors
HW10.5 The Dot Product
Ch10 Practice Exam Quiz
Ch10 Exam(Major Assignment)

Practice Final Exam Quiz
Final Exam(Major Assignment)