

**Math 1316.601 Trigonometry**  
**Monday/Wednesday 7:00 pm – 8:15 pm Face-to-Face**  
**Fall 2026 – Lubbock Downtown Center – B031**

**Instructor:** Ms. Rachel Fleenor  
**Email:** [rfleenor@southplainscollege.edu](mailto:rfleenor@southplainscollege.edu)  
**Office:** M102  
**Office Phone:** 806-716-4321

**Office Hours:** MW – 4:20 pm – 5:20 pm (LDTC)  
 MWTR – 10:45 am – 12:00 pm (LEV)  
 F – 11:00 am – 12:00 pm (LEV)  
 (or by appointment)

**Course Structure**

- Face to Face
  - Material will be covered in class
  - Practice Assignment assigned each class day
  - Exams will be given in class

**Textbook**

- No book purchase is required for this section

**Course Requirements/Materials**

- Attend all classes
- Pencil
- Calculator (Details below)
- Notebook Paper
- Three-ring Binder (2 – 3 inches) to keep notes, practice assignments, and grades quizzes and exams organized
- Color pencils/pens for notetaking
- Graphing Paper

**Grading Policy (1316):**

Participation (50 points – 2 each)  
 Quizzes (300 points – 20 each)  
 Exams (400 points – 100 each)  
 Final Exam (250 points)  
 Total points: 1000

**Grading Scale (1316):**

900-1000 points A  
 800-899 points B  
 700-799 points C  
 600-699 points D  
 < 600 points F

*\*\*\*Note: Students must justify answers or show work on all problems to receive full credit.*

**Class Rules:**

- Be on time and ready to learn
- Use **only pencil** for all assignments
- Students are not permitted to use electronic devices in class
- During testing, all devices should be placed on SILENT or turned off and put at the front of the classroom
- Any student who leaves the classroom for any reason (bathroom, phone call, etc.) during an exam will **not** be allowed to continue the exam upon their return. Once you leave the classroom during an exam, your exam will be taken up and graded as is
- Adhere to the requirements of the Student Code of Conduct

**Calculators**

- TI 30XIIS or TI-84 plus series

**Class Cancellation**

If class is canceled due to weather, instructor sickness, or any other uncontrollable circumstance, the course calendar will not change. In place of class, students will be required to:

- Watch lecture videos over the day's materials
- Submit notes over videos to Blackboard as a **single pdf**
- Take online quiz (if applicable)

### Practice Assignments

- Each class day will have a corresponding Practice Assignment
- Practice assignments will be due at 11:59 pm the following class day
- Follow study-tips

### Quizzes

- Taken in-class in the allotted time
- No materials allowed during quizzes
- Not allowed to be taken early or late (even in the case of an excused absence)
- Follow study-tips
- If you arrive to class more than 5 minutes late, you will not be allowed to take the quiz

### Exams

- 4 midterm exams and 1 required final exam
- No materials will be allowed on exams
- Exams cannot be taken early or late. You must take exams in the classroom at the assigned testing time. (Unless appropriate documentation is provided to allow you to take exams elsewhere)
- Complete in the allotted class time
- No exam grades will be dropped
- It is in your best interest to save ALL graded documents until your final grade is assigned at the end of the term
- If you arrive to class more than 15 minutes late, you will not be allowed to take the exam
- **A Practice Exam (PE) may be turned in for an extra 5% on Exam grade**
- Follow study-tips

### Final Exam

- The final exam is comprehensive
- Any student who does not take the final exam will fail the classes with F's regardless of the student's average
- No make-up final exam will be offered
- The final exam will be held on **Monday, December 7<sup>th</sup> from 7:15 pm to 9:15 pm**
- **A Practice Final Exam may be turned in for an extra 5% on Exam grade**

### Make-up

- This section refers to any missed/un-attempted assignment (failed quizzes/exams cannot be made-up or corrected)
- Make-up work is given at the discretion of the instructor
- NO exams are given outside of the designated class day and time without prior notification AND proper documentation for the Absence/reason
- If you are absent from class, have given prior notification and proper documentation of your Absence and the instructor chooses to allow you to take the missed quiz/exam, you must make arrangements to take the quiz/exam BEFORE the original date.

### Attendance Policy

- Students are expected to attend **at least** eighty percent (80%) of the total class meetings (24 classes) **and** submit **at least** eighty percent (80%) of the **total** class assignments to have the best chance of success.
- If the student fails to meet these minimum requirements, the instructor may remove the student from the class with an X, upon their discretion
- Unless given specific permission, students are expected to be in the classroom and on time for class each class day
- Arriving late to class three times will count as a full absence
- Graded Quizzes and Exams will be discarded after two class days if student is not present and does not inform instructor of absence

### Academic Integrity

- Any student involved in cheating will receive a zero on the assignment(s) and will be informed of

- why he/she received a zero
- Student may be administratively dropped from the class and will receive an X or F

### **Email Policy**

All students at South Plains College are assigned a standardized SPC e-mail account. Although personal email addresses will continue to be collected, the assigned SPC e-mail account will be used as the official channel of communication for South Plains College. The Student Correspondence Policy can be found at [www.southplainscollege.edu](http://www.southplainscollege.edu). To access the SPC student e-mail account, log in to [portal.office.com](http://portal.office.com). (Copied from SPC Student Guide) Since all students have an assigned SPC email, the instructor will only acknowledge, respond, and send emails to your assigned SPC email. This ensures all correspondence from the instructor is received by the intended recipient

### **Blackboard**

Blackboard is the online course management system that will be utilized for this course. This course is supplemented online, so all access to course information, and your instructor is through the Internet. This course syllabus, as well as all course materials can be accessed through Blackboard. Login at <https://southplainscollege.blackboard.com/>. The username and password should be the same as the MySPC and SPC email.

Username: first initial, last name, and last 4 digits of the Student ID

Password: Original CampusConnect Pin No. (found on SPC acceptance letter)

Questions regarding Blackboard support may be emailed to [blackboard@southplainscollege.edu](mailto:blackboard@southplainscollege.edu) or by telephone to 806-716-2180

**I will not respond to any messages sent on Blackboard. All communication should be done in person or through your SPC email.**

### **SPC Tutors**

Tutoring is FREE for all currently enrolled students. Make an appointment or drop-in for help at any SPC location or online! Visit the link below to learn more about how to book an appointment, view the tutoring schedule, and view tutoring locations.

<http://www.southplainscollege.edu/exploreprograms/artsandsciences/teacheredtutoring.php>

### **Brainfuse**

You also have 180 FREE minutes of tutoring with Brainfuse each week, and your hours reset every Monday morning. Log into Blackboard and click on the tools option from the left-hand menu bar. Click on the Brainfuse link and you will automatically be logged in for free tutoring. You may access Brainfuse tutors during the following times:

Monday – Thursday: 8 pm-8 am

6pm Friday – 8am Monday morning

**For questions regarding tutoring, please email [tutoring@southplainscollege.edu](mailto:tutoring@southplainscollege.edu) or call 806-716-224**

### **COVID Response**

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: [COVID Response \(southplainscollege.edu\)](https://southplainscollege.edu/covid-response)

**South Plains College**  
**Common Course Syllabus: MATH 1316**  
**Revised July 2023**

**Department:** Mathematics, Engineering, and Computer Science

**Discipline:** Mathematics

**Course Number:** MATH 1316

**Course Title:** Plane Trigonometry

**Available Formats:** conventional, hybrid, internet, and ITV

**Campuses:** Levelland, Downtown Center, and Dual Credit

**Course Description:** 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:** Minimum score of 350 on the TSIA1, minimum score of 950 on the TSIA2, a diagnostic score of 6 on the TSIA2, TSI-exempt status, or a successful completion with a grade of 'C' or better in MATH 1314.

**Credit:** 3 **Lecture:** 3 **Lab:** 0

**Textbook:** *Trigonometry*, Dugopolski, 2019, 5<sup>th</sup> Edition, Prentice Hall/Pearson Education

**Supplies:** Please see the instructor's course information sheet for specific supplies.

**This course partially satisfies a Core Curriculum Requirement:** Mathematics Foundational Component Area (020)

**Core Curriculum Objectives addressed:**

- **Communications skills**—to include effective written, oral and visual communication
- **Critical thinking skills**—to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
- **Empirical and quantitative competency skills**—to manipulate and analyze numerical data or observable facts resulting in informed conclusions

**Student Learning Outcomes:** Upon completion of this course and receiving a passing grade, the student will be able 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.

**Student Learning Outcomes Assessment:** A pre- and post-test questions will be used to determine the extent of improvement that the students have gained during the semester

**Course Evaluation:** There will be departmental final exam questions given by all instructors.

**Attendance/Student Engagement Policy:** Attendance and engagement are the most critical activities for success in this course. The instructor maintains records of the student's attendance and submission of assignments throughout the semester. The student is expected to attend at least eighty percent (80%) of the **total** class meetings **and** submit at least eighty percent (80%) of the **total** class assignments to have the best chance of success. If the student fails to meet these minimum requirements, the instructor may remove the student from the class with an X, upon their discretion, to help the student from harming their GPA. If the student can not receive an X, the instructor will assign an F.

Plagiarism violations include, but are not limited to, the following:

1. Turning in a paper that has been purchased, borrowed, or downloaded from another student, an online term paper site, or a mail order term paper mill;
2. Cutting and pasting together information from books, articles, other papers, or online sites without providing proper documentation;
3. Using direct quotations (three or more words) from a source without showing them to be direct quotations and citing them; or
4. Missing in-text citations.

Cheating violations include, but are not limited to, the following:

1. Obtaining an examination by stealing or collusion;
2. Discovering the content of an examination before it is given;
3. Using an unauthorized source of information (notes, textbook, text messaging, internet, apps) during an examination, quiz, or homework assignment;
4. Entering an office or building to obtain an unfair advantage;
5. Taking an examination for another;
6. Altering grade records;
7. Copying another's work during an examination or on a homework assignment;
8. Rewriting another student's work in Peer Editing so that the writing is no longer the original student's;
9. Taking pictures of a test, test answers, or someone else's paper.

**Student Code of Conduct Policy:** Any successful learning experience requires mutual respect from the student and the instructor. Neither the instructor nor the student should be subject to others' rude, disruptive, intimidating, aggressive, or demeaning behavior. Student conduct that disrupts the learning process or is deemed disrespectful or threatening shall not be tolerated and may lead to disciplinary action and/or removal from class.

For information regarding official South Plains College statements about intellectual exchange, disabilities, non-discrimination, Title IX Pregnancy Accommodations, CARE Team, and Campus Concealed Carry, please visit <https://www.southplainscollege.edu/syllabusstatements/>.

South Plains College policies, return to campus plan, and protocols regarding COVID-19 can be found here: <https://www.southplainscollege.edu/emergency/covid19-faq.php>.

**SPC Bookstore Price Match Guarantee Policy:** If you find a lower price on a textbook, the South Plains College bookstore will match that price. The difference will be given to the student on a bookstore gift certificate! The gift certificate can be spent on anything in the store.

If students have already purchased textbooks and then find a better price later, the South Plains College bookstore will price match through the first week of the semester. The student must have a copy of the receipt and the book has to be in stock at the competition at the time of the price match.

The South Plains College bookstore will happily price match BN.com & books on Amazon noted as *ships from and sold by Amazon.com*. Online marketplaces such as *Other Sellers* on Amazon, Amazon's Warehouse Deals, *fulfilled by Amazon*, BN.com Marketplace, and peer-to-peer pricing are not eligible. They will price match the exact textbook, in the same edition and format, including all accompanying materials, like workbooks and CDs.

A textbook is only eligible for price match if it is in stock on a competitor's website at time of the price match request. Additional membership discounts and offers cannot be applied to the student's refund.

Price matching is only available on in-store purchases. Digital books, access codes sold via publisher sites, rentals and special orders are not eligible. Only one price match per title per customer is allowed.

Note: The instructor reserves the right to modify the course syllabus and policies, as well as notify students of any changes, at any point during the semester.

## TENTATIVE Schedule for Math 1316 Fall 2026

| Week | Day              | Date           | Topic                                                            | Due           |
|------|------------------|----------------|------------------------------------------------------------------|---------------|
| 1    | <b>Monday</b>    | <b>Aug. 24</b> | <b>Syllabus and Expectations<br/>Algebra Review</b>              | <b>NONE</b>   |
|      | Tuesday          | Aug. 25        | Prepare for semester                                             |               |
|      | <b>Wednesday</b> | <b>Aug. 26</b> | <b>Intro to Trigonometry of Right Triangles</b>                  | <b>Quiz 1</b> |
|      | Thursday         | Aug. 27        | Practice                                                         |               |
| 2    | <b>Monday</b>    | <b>Aug. 31</b> | <b>Angles in Degrees and Radians</b>                             | <b>Quiz 2</b> |
|      | Tuesday          | Sep. 1         | Practice                                                         |               |
|      | <b>Wednesday</b> | <b>Sep. 2</b>  | <b>Trigonometric Functions</b>                                   | <b>Quiz 3</b> |
|      | Thursday         | Sep. 3         | Practice                                                         |               |
| 3    | <b>Monday</b>    | <b>Sep. 7</b>  | <b>Labor Day – No Class</b>                                      |               |
|      | Tuesday          | Sep. 8         | Practice                                                         |               |
|      | <b>Wednesday</b> | <b>Sep. 9</b>  | <b>Cofunctions, DMS, and More Trigonometric Functions</b>        | <b>Quiz 4</b> |
|      | Thursday         | Sep. 10        | Practice                                                         |               |
| 4    | <b>Monday</b>    | <b>Sep. 14</b> | <b>Arc Length, Area of a Sector, Linear and Angular Velocity</b> | <b>Quiz 5</b> |
|      | Tuesday          | Sep. 15        | Practice                                                         |               |
|      | <b>Wednesday</b> | <b>Sep. 16</b> | <b>Exam 1 Review</b>                                             | <b>NONE</b>   |
|      | Thursday         | Sep. 17        | Practice                                                         |               |
| 5    | <b>Monday</b>    | <b>Sep. 21</b> | <b>Exam 1</b>                                                    | <b>ER 1</b>   |
|      | Tuesday          | Sep. 22        | Take a Break                                                     |               |
|      | <b>Wednesday</b> | <b>Sep. 23</b> | <b>Pythagorean Identities and Verification</b>                   | <b>NONE</b>   |
|      | Thursday         | Sep. 24        | Practice                                                         |               |

|    |                  |                |                                                                                           |                |
|----|------------------|----------------|-------------------------------------------------------------------------------------------|----------------|
| 6  | <b>Monday</b>    | <b>Sep. 28</b> | <b>Even/Odd Identities and More Verifications</b>                                         | <b>Quiz 6</b>  |
|    | Tuesday          | Sep. 29        | Practice                                                                                  |                |
|    | <b>Wednesday</b> | <b>Sep. 30</b> | <b>Sum and Difference Identities</b>                                                      | <b>Quiz 7</b>  |
|    | Thursday         | Oct. 1         | Practice                                                                                  |                |
| 7  | <b>Monday</b>    | <b>Oct. 5</b>  | <b>Double Angle Identities</b>                                                            | <b>Quiz 8</b>  |
|    | Tuesday          | Oct. 6         | Practice                                                                                  |                |
|    | <b>Wednesday</b> | <b>Oct. 7</b>  | <b>Half Angle Identities</b>                                                              | <b>Quiz 9</b>  |
|    | Thursday         | Oct. 8         | Practice                                                                                  |                |
| 8  | <b>Monday</b>    | <b>Oct. 12</b> | <b>Exam 2 Review</b>                                                                      | <b>NONE</b>    |
|    | Tuesday          | Oct. 13        | Practice                                                                                  |                |
|    | <b>Wednesday</b> | <b>Oct. 14</b> | <b>Exam 2</b>                                                                             | <b>ER 2</b>    |
|    | Thursday         | Oct. 15        | Take a Break                                                                              |                |
| 9  | <b>Monday</b>    | <b>Oct. 19</b> | <b>Graphing Sine and Cosine</b>                                                           | <b>NONE</b>    |
|    | Tuesday          | Oct. 20        | Practice                                                                                  |                |
|    | <b>Wednesday</b> | <b>Oct. 21</b> | <b>Graphing Secant, Cosecant, Tangent, and Cotangent</b>                                  | <b>Quiz 10</b> |
|    | Thursday         | Oct. 22        | Practice                                                                                  |                |
| 10 | <b>Monday</b>    | <b>Oct. 26</b> | <b>Inverse Trig Functions, Solving Basic Trig Equations, and Composite Trig Equations</b> | <b>Quiz 11</b> |
|    | Tuesday          | Oct. 27        | Practice                                                                                  |                |
|    | <b>Wednesday</b> | <b>Oct. 28</b> | <b>Solving Advanced Trig Equations</b>                                                    | <b>Quiz 12</b> |
|    | Thursday         | Oct. 29        | Practice                                                                                  |                |

|            |                                                                  |                                                      |                                             |          |
|------------|------------------------------------------------------------------|------------------------------------------------------|---------------------------------------------|----------|
| 11         | Monday                                                           | Nov. 2                                               | Exam 3 Review                               | NONE     |
|            | Tuesday                                                          | Nov. 3                                               | Practice                                    |          |
|            | Wednesday                                                        | Nov. 4                                               | Exam 3                                      | ER 3     |
|            | Thursday                                                         | Nov. 5                                               | Take a Break                                |          |
| 12         | Monday                                                           | Nov. 9                                               | Law of Sines                                | NONE     |
|            | Tuesday                                                          | Nov. 10                                              | Practice                                    |          |
|            | Wednesday                                                        | Nov. 11                                              | Law of Cosines                              | Quiz 13  |
|            | Thursday                                                         | Nov. 12                                              | Practice                                    |          |
| 13         | Monday                                                           | Nov. 16                                              | Intro to Vectors                            | Quiz 14  |
|            | Tuesday                                                          | Nov. 17                                              | Practice                                    |          |
|            | Wednesday                                                        | Nov. 18                                              | Vector Applications Part 1                  | Quiz 15  |
|            | Thursday                                                         | Nov. 19                                              | Practice                                    |          |
| 14         | Monday                                                           | Nov. 23                                              | Vector Applications Part 2<br>Exam 4 Review | NONE     |
|            | Tuesday                                                          | Nov. 24                                              | Practice                                    |          |
|            | Thanksgiving Break: November 25 <sup>th</sup> – 27 <sup>th</sup> |                                                      |                                             |          |
| 15         | Monday                                                           | Nov. 30                                              | Exam 4                                      | ER 4     |
|            | Tuesday                                                          | Dec. 1                                               | Take a Break                                |          |
|            | Wednesday                                                        | Dec. 2                                               | Final Exam Review                           | NONE     |
|            | Thursday                                                         | Dec. 3                                               | Practice                                    |          |
| Final Exam |                                                                  | Monday, December 7 <sup>th</sup> : 7:15 pm – 9:15 pm |                                             | Final PE |

Last day to drop: Dec. 3rd