# DVC – Math 121L Syllabus

*"You can't direct the wind – but you can adjust the sails."*

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|---|---|
| *Course*: | Math 121L, *Trigonometry* w/Support |
| | Sec. 2007 |
| *Location:* | Math Bldg - 108 |
| *Instructor:* | Mr. Narin |
| *Term:* | Spring 2026, Jan 27th – May 21st |
| *Time:* | T, Th 9:35 – 12:05 |
| *Class Website:* | ***MathWithSteve.com*** |
| *Email:* | **SteveNarin314@gmail.com** |
| *Office Hours:* | M, W 1:35 – 2:40 Room H-118 |
| | T, Th 12:05 – 12:30 Room M-108 |

## *DVC Math/Engineering Student Tutoring Center Hours*

M–Th: 8am to 8pm

Friday: 10am to 2pm

## *Required*

Text: NO text required. Everything you need will be at the class website: www.MathWithSteve.com

Calculator: A simple scientific calculator will be perfect for this class — just look for the SIN button — TI recommended; it's about $13 and will be allowed on every quiz and test. No graphing calculators (or anything that does algebra) are allowed.

We will also use a graphing program on the web called Desmos. There's nothing to install — it runs right in your browser.

Browser: It is strongly recommended that you use Google Chrome for your web browser. Our class website requires it, and I am pretty sure that the Khan Academy website no longer supports Internet Explorer.

Platform: **www.MathWithSteve.com** [No username or password required]. Here you will find the Syllabus, the Schedule, the Grade Sheet, links to Algebra books and other Trig books, Online Practice (Homework), and various other links. This is the only platform we will use.

Email: As a DVC college student, you are required to check your school email account (or personal email account, if you let me know) regularly — that means at least a few times each day.

## *Grading Components*

We will use a point system for this class, so that the grade sheet can display your percentage at any point in the semester. The points will be allocated in approximately the following way:

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| Quizzes: | Roughly 25 quizzes at 10 pts each |
| Tests: | Exactly 4 tests at 100 pts each |

### Power Tests

In order to pass this class with a C or better, you must pass a **Power Test**. It's a 2-minute test consisting of 10 multiple-choice problems, chosen from anything we've had in the course up to that point. A passing score is a perfect **10 out of 10**, but you may take it multiple times until you pass it, at which point you never have to take it again. The Power Test will be available at about the 10$^{th}$ week of class.

### Skills Tests

There's also a **Skills Test**, a 10-question show-your-work test that must be passed with a perfect score in order to pass the class with a C or better, but there's no time limit. The topic of each question remains the same for every version of the Skills Test, so once you get a problem right, you never have to do that problem again.

## Homework

Homework will be assigned from the Online Practice link, the Schedule, and possibly from textbooks available at the class website.

The problems I assign are designed to inform you as to what skills and concepts you are supposed to be gaining from this class. In other words, you need to do as much homework as you need to — whatever it takes to achieve the degree of success you desire. In short, it's up to you to discover the homework strategy that suits your personal learning style. Because of this policy, homework is *not* counted toward your grade.

**However, if circumstances warrant, I reserve the right to check your homework at any time, and possibly assign you some "individualized instruction."**

## Quizzes

A quiz will be given at the end of each class meeting (except the first day and test days). The quizzes cover primarily the previous lecture, and quite possibly previous quizzes. If a quiz covers earlier material, it will be made clear in the Homework part of the Schedule. I will drop the four lowest quizzes, but none of the last four. There are NO make-ups on quizzes.

## Tests

There will be **four** major tests. The tests will contain some T/F, multiple-choice, and matching questions, but mostly "*show your work*" questions (with partial credit quite possible).

Our class time in Trig is $2\frac{1}{2}$ hours per

session, which I believe is too long for either a trig review or a test, so on review and test days 45 to 60 minutes will be spent covering new material (which is not on the test).

## *Letter Grades*

A – 90% and up

B – 80% to 89%

C – 70% to 79%

D – 60% to 69%

F – below 60%

> ***Live* as if you were to die tomorrow.**
>
> ***Learn* as if you were to live forever.**
>
> **Mahatma Gandhi**

## *Academic Dishonesty*

Click the following link: *Academic Integrity Policy*

That document should answer all your questions regarding this issue.

Please note that if you are caught cheating, the consequences I impose will be as harsh as the DVC policy allows.

## *Student Learning Outcomes and Course Content*

*This course focuses on the theory and applications of trigonometry, including right triangle trigonometry, general angle trigonometry, and trigonometry on the unit circle, as well as trigonometric functions of real numbers. Applications include solutions of right and oblique triangles in problems in surveying, physics, engineering and navigation. CSU*

## Course Objectives

| **Objectives/Student Learning Outcomes** |
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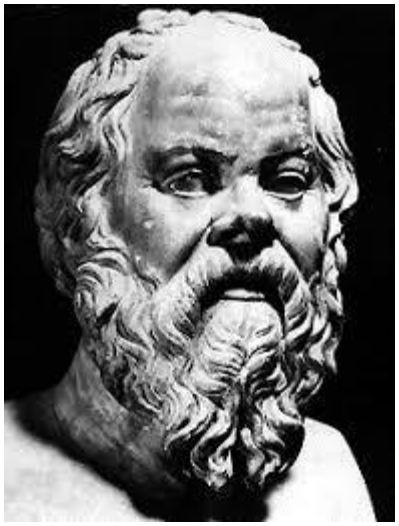
| Students will be able to:<br><br>A. State, interpret, and utilize the fundamentals of trigonometry.<br>B. Analyze and solve problems that have applications in mathematics, science and engineering.<br>C. Develop skills in mathematical analysis.<br>D. Apply problem–solving techniques and concepts applicable to the study of analytic geometry and calculus.<br>E. Demonstrate an awareness of the inter-relationship between algebra, geometry and trigonometry in the solution of mathematical problems. |
| **Content** |
| A. Angles - degree and radian measure<br>B. Right triangle trigonometry<br>C. Trigonometric functions of angles<br>D. Trigonometry on the unit circle<br>E. Use of hand calculators<br>F. Triangles and applications<br>G. Vectors and circular motion<br>H. Graphs of trigonometric functions<br>I. Trigonometric identities<br>J. Trigonometric equations<br>K. Inverse trigonometric functions<br>L. Complex numbers and polar coordinates |

"Wisdom begins in wonder."

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