


Applied Technical Math Course Syllabus 2014-2015

Grade Level: 10-12 Credit Available: 1 (RCC credit available also!) Pre-Requisite: Algebra1 & Geometry

Teacher Contact Information:

Name: Jeremy Knight Room Number: 209 Phone Number: 541-474-5710
Email Address: jknight@grantspass.k12.or.us Teacher Webpage: www.knightmath.com/techmath
Celly Reminders: text @knightstech to 23559  @1mathknight

Course Content: Applied Technical Math is a hands-on course that will engage students in real-world math that is used in Construction, Welding, Electricity/Electronics, Manufacturing, automotive and other technical careers. Math is one of the most useful tools for building a house, programming a CNC machine, welding bridge beams, milling an engine, building electronic circuits, or .

Specific Course Standards:

1st Semester:

1. Number and Measurement
(Lessons 1.1-1.2)
2. Ratios and Operations
(Lessons 1.3-1.5)
3. Equations and Formulas
(Lessons 2.1-2.3)

2nd Semester:

4. Trigonometry
(Lessons 3.1-3.3)
5. 2D Geometry
(Lessons 4.1-4.2)
6. 3D Geometry
(Lessons 4.2-4.3)

Required Materials:

- Textbook.
Applied Tech. Math. Doug Gardner – R.C.C.
- Binder & paper,
- Pens and pencils
- Spiral Notebook
- Scientific Calculator
- Ruler with inches and mm

Assignment Policies & Procedures:

Daily Assignments will be assigned most school days and are usually due **the following day of the same schedule** (for example, an assignment given on an "A" day will be due on the next "A" day). Homework is your chance to practice and learn from your mistakes. The process is the most important part! So, don't just list answers.

When completing homework, you must:

- ***Use Pencil only***
- Use neat binder or graph paper and label work clearly and circle or box your answers.
- Write down important details of problems
- Show your process for every problem **No Process = NO CREDIT!**

Late homework will not be accepted for credit after the unit assessment.

Learning Target Assessments:

For each unit, one or more assessments will be given on the learning targets. It is our goal for every student to be proficient at each learning target. Each learning target on an assessment will receive a score that will be used to determine the level of a student's proficiency in this area.

Reassessment Policy:

You will be allowed to retake assessments (including Midterms and Finals) and replace their score for any learning target portion of the assessment if you meet the following criteria:

1. *You must have completed all of the assignments for the unit, and*
2. *You must come in to correct and discuss the first assessment with Mr. Knight.*
3. *To retake midterms or finals, you must have proficient scores on your learning target assessments.*

Overall Academic Grade Policies:

- Learning Target Assessments: 60%
- Individual Projects 20%
- Daily Assignments, Quizzes, Group projects 20%

Semester Grade Scale:

90%-100%: A - Mastery
80%-89%: B – Approaching Mastery
70%-79%: C - Proficient
0%-69%: F – Not Proficient

Academic Honesty: Students cheating on assignments or exams will earn a 0% and may receive an office referral resulting in consequences deemed appropriate by the administration. These assignments must be completed using reassessment policies.

Need Help? Four days a week (M, T, Th, F), students will have a 30 minute "Cave period" time when they can come get help on this class. I will also be available during office hours at the end of each "C" day.

- Helpful resources are available at my school webpage: www.grantspass.k12.or.us/jknight

Differentiation strategies available in this class may include extension activities, acceleration, or other activities, depending on the needs of the student.

****Technology Policy:** We have the privilege of having a class set of iPads which we will use often. Students are expected to use these responsibly. Any deliberate attempt to alter or damage the software or the device will result in students losing their privilege of using the iPads during class.

CLASS PRIVILEGES

As a student in Mr. Knight's class, you will receive the following privileges free of charge:

1. You may experience the thrill of learning math *without distractions*.
2. *You and your property will be respected* by the teacher and other members of the class.
3. You will be able to **learn math** from "Bell to Bell"... I won't quit early, so you won't want to either!
4. You will receive Mr. Knight's **best effort** and resources to lead you on the exciting journey into the world of mathematics! *So, don't give up... I'll give you my best, so just give your best effort and we'll succeed!*
5. You may eat, use your cell phone or MP3 player, and throw things outside of the building.
(Not in class! Cell phones used in class will be sent to the office, Drinks only allowed in sealed containers.)