

# Syllabus for Math 10

## Contemporary Mathematics, Tech

### Course Information

Semester & Year: Fall 2023

Course ID & Section #: Math-10-E5416

Instructor's name: Jackson

Day/Time of required meetings: MW 3:55 PM-5:20PM

Location: SC210

Course units: 3

### Instructor Contact Information

Office location: SC 216L

Office hours: MW 2:45 PM-3:55 PM

Phone number: 707 476 4219

Email address: [steve-jackson@redwoods.edu](mailto:steve-jackson@redwoods.edu)

**Textbook:** Mastering Technical Mathematics, 3<sup>rd</sup> Edition, Stan Gibilisco. This link will be invaluable: [Mastering Technical Mathematics](#)

### Catalog Description

A mathematics course designed to develop the computational skills needed in many Career Education programs. Topics include geometry, measurement, number sense, estimation, basic statistics, trigonometric functions, and algebraic thinking. Note: Students are advised to review the requirements for their program and/or consult with an Academic Advisor or CE Faculty to ensure this course is appropriate for your educational goals.

### Course Learning Outcomes *(from course outline of record)*

- 1) Demonstrate proficiency with arithmetic, estimation, and basic algebraic skills focused on applications.
- 2) Employ geometry to analyze and solve application problems.
- 3) Employ trigonometry to analyze and solve application problems.
- 4) Interpret statistical information to make decisions.

### Course Objectives

- 1) Use critical thinking to establish relationships between skilled trades challenges and mathematical processes needed to meet these challenges.
- 2) Generate an accurate estimate of the amount of material needed for a job and the material's cost.
- 3) Develop proficiency with common skilled trades fractions.
- 4) Understand the role of trigonometry in skilled trades fields.
- 5) Understand and properly use units of measure.
- 6) Understand different measures of center and why each are used.

- 7) Read and interpret different graphs of data.
- 8) Consider descriptive statistics when making decisions.

## **CONCEPTS**

1. The value and importance of a strong foundation in mathematics.
2. The recognition and use of proper algebraic procedures as important problem-solving tools.
3. Measurement theory, including usage of rounding, estimating, converting measurement units, and dimensional analysis.
4. Understanding relationships among different representations of the same value (such as fraction, decimal, percent).
5. Scaling and variation (such as relationships between scaled models or drawings and their real-world structures).
6. Measurable attributes of 2-dimensional and 3-dimensional objects (such as perimeter, area, surface area, and volume).
7. Angles and their measure.
8. The relationship between right triangles and the Pythagorean Theorem.
9. The application of trigonometric functions and inverse trigonometric functions to real-world situations.
10. Measures of center (such as mean, median, mode).
11. The connection between graphs and real-world data.

## **THEMES & ISSUES**

1. Critical thinking related to skilled trades job applications.
2. Building a strategy to solve a problem.
3. Cooperation and teamwork.
4. Using technology to aid in problem-solving.
5. Developing confidence and grit through productive struggle.
6. Checking work and solutions for accuracy and reasonableness, often involving estimation.

## **SKILLS**

1. Simplify arithmetic expressions using order of operations.
2. Read and use measuring tools.
3. Estimate and approximate quantities by rounding.
4. Convert between units.
5. Scale using ratios, proportions, and variations.
6. Read and analyze application problems.
7. Produce accurate illustrations.
8. Inspect solutions for accuracy.
9. Compute perimeters, areas, and volumes.
10. Solve formulas for unknown quantities.
11. Measure angles.
12. Apply the Pythagorean theorem.
13. Apply trigonometric relationships.
14. Evaluate and apply different measures of center of data.
15. Read and interpret graphs.
16. Use statistics to make decisions.

## Prerequisites/co-requisites/ recommended preparation

### Accessibility

Students will have access to online course materials that comply with the Americans with Disabilities Act of 1990 (ADA), Section 508 of the Rehabilitation Act of 1973, and College of the Redwoods policies. Students who discover access issues with this class should contact the instructor.

College of the Redwoods is also committed to making reasonable accommodations for qualified students with disabilities. If you have a disability or believe you might benefit from disability-related services and accommodations, please contact your instructor or [Disability Services and Programs for Students](#) (DSPS). Students may make requests for alternative media by contacting DSPS based on their campus location:

- Eureka: 707-476-4280, student services building, 1<sup>st</sup> floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

### Student Support Services

The following online resources are available to support your success as a student:

- [CR-Online](#) (Comprehensive information for online students)
- [Library Articles & Databases](#)
- [Canvas help and tutorials](#)
- [Online Student Handbook](#)
- [Online Tutoring Resources](#)

[Counseling](#) offers assistance to students in need of professional counseling services such as crisis counseling.

Learning Resource Center includes the following resources for students

- [Library Services](#) to promote information literacy and provide organized information resources.
- [Multicultural & Diversity Center](#)
- [Academic Support Center](#) – offers tutoring and test proctoring for CR students.
- [Student Tech Help](#) – provides students with assistance around a variety of tech problems.

Special programs are also available for eligible students include

- [Extended Opportunity Programs & Services \(EOPS\)](#) provides services to eligible income disadvantaged students including: textbook award, career academic and personal counseling, school supplies, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!
- The TRiO Student Success Program provides eligible students with a variety of services including trips to 4-year universities, career assessments, and peer mentoring. Students can apply for the program in [Eureka](#) or in [Del Norte](#)
- The [Veteran's Resource Center](#) supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.
- [CalWORKS](#) – assists student parents with children under the age of 18, who are receiving cash assistance (TANF), to become self-sufficient.
- Klamath-Trinity students can contact the CR KT Office for specific information about student support services at 530-625-4821

## Evaluation & Grading Policy

We will have three chapter exams and a final exam. All exam points are weighted equally. We will also have several quizzes throughout the semester. Quiz points carry the same weight as exam points.

Exams/Quiz = 80%

Homework = 20%

$$\text{Overall Score} = 0.8 * \frac{\text{number of exam points student earns}}{\text{number of exam points}} + \frac{0.2(\text{number of homework points student earns})}{\text{number of homework points}}$$

Multiply by 100 to get your Overall Percentage

The course grade is assigned as follows:

A = 90-100%

B+ = 85-89%

B = 80-84%

C+ = 75-79%

C = 70-74%

D = 60-69%

F = otherwise

## Fall 2023 Dates

- **August 18<sup>th</sup>: Last day to register for classes (day before the first class meeting)**
- **August 19<sup>th</sup>: Classes begin**
- **August 25<sup>th</sup>: Last day to add a class**

- **September 1<sup>st</sup>: Last day to drop without a “W” and receive a refund**
- **September 4<sup>th</sup>: Labor Day Holiday (All Campuses Closed)**
- **September 5<sup>th</sup>: Census Date (20% of class)**
- **October 26<sup>th</sup>: Last day to petition to graduate**
- **October 27<sup>th</sup>: Last day for student initiated withdrawal (62.5% of class)**
- **October 27<sup>th</sup>: Last day for faculty initiated withdrawal (62.5% of class)**
- **November 11<sup>th</sup>: Veterans Day (All Campuses Closed)**
- **November 20<sup>th</sup>-25<sup>th</sup>: Thanksgiving break (no classes)**
- **November 22<sup>nd</sup>-24<sup>th</sup>: No Classes, all campuses closed**
- **December 9<sup>th</sup>-15<sup>th</sup>: Final Examinations**
- **December 15<sup>th</sup>: Last day to file for P/NP option**
- **December 15<sup>th</sup>: Semester Ends**
- **December 22<sup>nd</sup>: Grades due**
- **January 5<sup>th</sup>: Grades available**

### **Academic dishonesty**

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student’s status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [College Catalog](#) and on the [College of the Redwoods website](#).

### **Disruptive behavior**

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor’s directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct ([AP 5500](#)) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the [College Catalog](#) and on the [College of the Redwoods website](#).

### **Inclusive Language in the Classroom**

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

### **Setting Your Preferred Name in Canvas**

Students have the ability to have an alternate first name and pronouns to appear in Canvas. Contact [Admissions & Records](#) to request a change to your preferred first name and pronoun. Your Preferred Name will only be listed in Canvas. It does not change your legal name in our records. See the [Student Information Update form](#).

## Canvas Information

If using Canvas, include navigation instructions, tech support information, what Canvas is used for, and your expectation for how regularly students should check Canvas for your class.

Log into Canvas at <https://redwoods.instructure.com>

Password is your 8 digit birth date

For tech help, email [its@redwoods.edu](mailto:its@redwoods.edu) or call 707-476-4160

Canvas Help for students: <https://webapps.redwoods.edu/tutorial/>

Canvas online orientation workshop: [Canvas Student Orientation Course \(instructure.com\)](#)

## Community College Student Health and Wellness

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges [Health & Wellness website](#).

[Wellness Central](#) is a free online health and wellness resource that is available 24/7 in your space at your pace.

Students seeking to request a counseling appointment for academic advising or general counseling can email [counseling@redwoods.edu](mailto:counseling@redwoods.edu).

## Emergency procedures / Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into WebAdvisor <https://webadvisor.redwoods.edu> and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or [security@redwoods.edu](mailto:security@redwoods.edu) if you have any questions. For more information see the [Redwoods Public Safety Page](#).

In an emergency that requires an evacuation of the building anywhere in the District:

- Be aware of all marked exits from your area and building
- Once outside, move to the nearest evacuation point outside your building
- Keep streets and walkways clear for emergency vehicles and personnel

Do not leave campus, unless it has been deemed safe by the campus authorities.

### Del Norte Campus Emergency Procedures

Please review the [Crescent City campus emergency map](#) for campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information see the [Redwoods Public Safety Page](#).

### Eureka Campus Emergency Procedures

Please review the [campus emergency map](#) for evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information on Public Safety go to the [Redwoods Public Safety Page](#) It is the responsibility of College of the Redwoods to protect life and property from the effects of emergency situations within its own jurisdiction.

In the event of an emergency:

1. Evaluate the impact the emergency has on your activity/operation and take appropriate action.
2. Dial 911, to notify local agency support such as law enforcement or fire services.

3. Notify Public Safety 707-476-4111 and inform them of the situation, with as much relevant information as possible.
4. Public Safety shall relay threat information, warnings, and alerts through the Everbridge emergency alert system, Public address system, and when possible, updates on the college website, to ensure the school community is notified.
5. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet, (evacuation to a safe zone, shelter in place, lockdown, assist others if possible, cooperate with First Responders, etc.).
6. If safe to do so, notify key administrators, departments, and personnel.
7. Do not leave campus, unless it is necessary to preserve life and/or has been deemed safe by the person in command.

## **Klamath Trinity Campus Emergency Procedures**

Please review the responsibilities of, and procedures used by, the College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to communicate to faculty, staff, students and the general public during an emergency. It is the responsibility of College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to protect life and property from the effects of emergency situations within its own jurisdiction.

1. In the event of an emergency, communication shall be the responsibility of the district employees on scene.
  - a. Dial 911, to notify local agency support such as law enforcement or fire services.
  - b. If safe to do so, notify key administrators, departments, and personnel.
  - c. If safe to do so, personnel shall relay threat information, warnings, to ensure the school community is notified.
  - d. Contact Jolene Gates 530-625-4821 to notify of situation.
  - e. Contact Hoopa Tribal Education Administration office 530-625-4413
  - f. Notify Public Safety 707-476-4111.
2. In the event of an emergency, the responsible district employee on scene will:
  - a. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.
  - b. Lock all doors and turn off lights if in lockdown due to an active shooter or similar emergency.
  - c. Close all window curtains.
  - d. Get all inside to safe location Kitchen area is best internal location.
  - e. If a police officer or higher official arrives, they will assume command.
  - f. Wait until notice of all is clear before unlocking doors.
  - g. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.
  - h. Do not leave site, unless it has been deemed safe by the person in command. Student Support Services (required for online classes)

## **Student Support Services**

The following online resources are available to support your success as a student:

- [CR-Online](#) (Comprehensive information for online students)
- [Library Articles & Databases](#)
- [Canvas help and tutorials](#)
- [Online Student Handbook](#)

[Counseling](#) offers assistance to students in need of professional counseling services such as crisis counseling.

Learning Resource Center includes the following resources for students

- [Academic Support Center](#) for instructional support, tutoring, learning resources, and proctored exams. Includes the Math Lab & Drop-in Writing Center

- [Library Services](#) to promote information literacy and provide organized information resources.
- [Multicultural & Diversity Center](#)

Special programs are also available for eligible students include

- [Extended Opportunity Programs & Services \(EOPS\)](#) provides financial assistance, support and encouragement for eligible income disadvantaged students at all CR locations.
- The TRiO Student Success Program provides eligible students with a variety of services including trips to 4-year universities, career assessments, and peer mentoring. Students can apply for the program in [Eureka](#) or in [Del Norte](#)
- The [Veteran's Resource Center](#) supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.
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