

Syllabus for Introduction to Statistics

Course Information

Semester & Year: Fall 2023

Course ID & Section #:

V5445

Instructor's name:

Michael Butler

Course units: 4

Instructor Contact Information

Online Asynchronous Course

Office hours: By appointment

Email address: michael-butler@redwoods.edu

Catalog Description

An introduction to basic concepts of descriptive and inferential statistics, with emphasis on the meaning and use of statistical significance. Students will use probability techniques to make decisions via hypothesis testing and will estimate parameters using confidence intervals. The course includes applications from a variety of technical and social science fields. Note: A TI-83 or TI-84 graphing calculator is required. The MATH-15S support course is strongly recommended to take concurrently for students without previous mathematical experience in courses such as Algebra II or Pathway to Statistics.

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

1. Accurately communicate statistical ideas using correct statistical notation, graphs, and vocabulary.
2. Use descriptive and inferential statistics to better understand real-world problems.
3. Demonstrate appropriate use of technology in making decisions based upon real-world data.
4. Read and interpret information that contains statistical analysis and be able to communicate these results.
5. Judge the validity of research reported in the mass media and peer reviewed journals.

Prerequisites/co-requisites/ recommended preparation

Completion of Intermediate Algebra or appropriate placement based on AB 705 mandates.

Educational Accessibility & Support

College of the Redwoods is committed to providing reasonable accommodations for qualified students who could benefit from additional educational support and services. You may qualify if you have a physical, mental, sensory, or intellectual condition which causes you to struggle academically, including but not limited to:

- Mental health conditions such as depression, anxiety, PTSD, bipolar disorder, and ADHD
- Common ailments such as arthritis, asthma, diabetes, autoimmune disorders, and diseases
- Temporary impairments such as a broken bone, recovery from significant surgery, or a

pregnancy-related disability

- A learning disability (e.g., dyslexia, reading comprehension), intellectual disability, autism, or acquired brain injury
- Vision, hearing, or mobility challenges

Available services include extended test time, quiet testing environments, tutoring, counseling and advising, alternate formats of materials (e.g., audio books, E-texts), assistive technology, on-campus transportation, and more. If you believe you might benefit from disability- or health-related services and accommodations, please contact [Disability Services and Programs for Students \(DSPS\)](#). If you are unsure whether you qualify, please contact DSPS for a

consultation: dsps@redwoods.edu.

- Eureka: 707-476-4280, Student Services Building, 1st floor
- Del Norte: 707-465-2324, Main Building, near the library
- Klamath-Trinity: 707-476-4280

Information from your instructor:

Greetings and Welcome to an adventure in statistics! This course will show you how data and analysis of that data is used to make decisions that change all our lives. From why you brush your teeth at least twice a day (and floss, you do floss right?) to why it is the “law” to wear a seatbelt when you drive, our daily activities are tailored by analysis of data. This course is a start at pulling the curtain back on the mathematics that underpin this decision-making process. It will require all your mathematical maturity and a willingness to struggle with complex ideas. But the payoff is worth the work. Unlike any other mathematics courses I teach, I can guarantee that you will use this material again. You may need statistics for your major, but we all need it to digest the news that streams into our daily lives full of claims of significance.

Let the journey begin!

Student Support

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

Evaluation & Grading Policy

Final grades are based on percentage of points earned in the course. All points are worth the same amount (there is no weighting of categories).

Late Work Policy:

There are a variety of items that must be turned in each week of the course. With few exceptions you will need to submit:

- Reading Quiz,
- Primary Post and Replies to Peers in a Discussion Question,
- an Assignment from Textbook Exercises done in MyOpenMath,
- a Module Quiz,
- a Lab that is to be done in Rguroo.

It is my hope that you see that turning things in on time or early is important to your progress in the course. But life happens and you may need more time to finish an item. If you need extra time, ask for it in advance of needing it. I am pretty good about extensions for reasonable needs. If you flake and just forget to do an assignment, then the following late policy will be applied:

- Reading Quiz: must take and pass to move on in module (can be taken late with no penalty until end of weeks module),
- Discussion Questions: half points at most can be earned,
- Assignment from Text: half points at most can be earned,
- Module Quiz: not allowed to take late without prior warning.
- Labs: half points at most can be earned and only for a fully completed lab.

In addition, there will be a Midterm Quiz and a Final Quiz in the course. You are not allowed to take either of these after the due date. There will be a week's window to take each these assessments in. If you need to take either of these assessments outside of the week assigned, you must contact me in advance or have a valid medical/family emergency that is verifiable.

NOTE: All extensions are at instructor discretion. Material prior to the Midterm cannot be made up after the Midterm has closed.

Drop Policy:

Confirm your presence in the online classroom: Log in to Canvas and post to the "Student Introductions" Discussion forum **no later than Wednesday of the first week** to confirm your presence in the online classroom. Doing so will confirm your enrollment in the course and avoid being dropped as a "no show." You can and may be dropped from the class if you do not log in and post to the "Student Introductions" Discussion Forum. A student from the waiting list may then be added in your place. Your regular participation in class will also be expected.

Participation:

Logging into our course on a regular basis (at least three times per week) is akin to coming to class in a face-to-face class. But just as in a face-to-face class, participation in the class is required for success. Besides taking the weekly quiz and turn in required assignments:

- You need to actively participate in the weekly Discussions.
- You need to read the textbook pages assigned and then take the Reading Quiz early in the week.
- You need to ask for help in a timely fashion when a concept or assigned exercise is causing you trouble.

In addition to the regular feedback and grading that I do each week, I also check to see if you have been spending time on all of these tasks. If you are struggling to keep up in the participation level required to succeed in this class, I will contact you and ask if you plan on continuing in the course. Please respond to that contact! I will take a "no response" as "you do not wish to continue" and initiate a Faculty Withdrawal. Again, if you are having troubles with any of the course materials or the course format, contact me and let us see what we can do to get you back on track.

Communication Policy:

Contacting your teacher to ask questions, clarify assignment requirements, or inform why an assignment is going to be late are all-important to a successful experience in the online environment (just as they are in a face-to-face class). The methods available to contact me in this

class include:

- the Canvas Discussion forum,
- the Canvas Message tool (Inbox),
- email,
- the online office hours.

I respond to questions posted in the Discussion Forum or sent to me via the Canvas Message tool usually within 24 hours. The exception to this would be on the weekends or when I give prior notice that I will be out of the range of Internet service for more than 24 hours.

Fall 2023 Dates

- **August 18th: Last day to register for classes (day before the first class meeting)**
- **August 19th: Classes begin**
- **August 25th: Last day to add a class**
- **September 1st: Last day to drop without a “W” and receive a refund**
- **September 4th: Labor Day Holiday (District-wide closure)**
- **September 5th: Census Date (20% of class)**
- **October 26th: Last day to petition to graduate**
- **October 27th: Last day for student initiated withdrawal (62.5% of class)**
- **October 27th: Last day for faculty initiated withdrawal (62.5% of class)**
- **December 9th-15th: Final Examinations**
- **December 15th: Last day to file for P/NP option**
- **December 15th: Semester Ends**
- **December 22nd: Grades due**
- **January 5th: 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 ([AP5500](#)) 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. This does not change your legal name in our records. See the [Student Information Update form](#).

Canvas Information

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 [My CR Portal](#)

For help logging in to Canvas, visit [My CR Portal](#).

For help with Canvas once you're logged in, click on the Help icon on the left menu.

For tech help, email its@redwoods.edu or call 707-476-4160

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.

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 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 [CR Police Department- Public Safety](#). It is the responsibility of College of the Redwoods to protect life and property from the effects of emergencies 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 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](#)
- [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