

Syllabus for Math 15

Intro to Statistics

K-3655 (053655)

Course Information

Semester & Year: Fall2022

Course ID & Section #: Math-15-K3655 (053655)

Instructor's name: Danny Ammon

Day/Time of required meetings: Tuesday Thursday 3:00-5:05

Course units: 4 units

Instructor Contact Information

Office location: KTIS Computer Lab

Office hours: By appointment

Email address: danny-ammon@redwoods.edu

Required Materials

Required book for Reading Reports: *Naked Statistics* by Charles Wheelan ISBN: 039334777

My advice is buy it used, or check it out from the library. You may also purchase from Amazon and read online with the Kindle reader.

Other requirement: Statcrunch account - purchased online, statistics software package to be used on a computer or iPad/tablet.

Catalog Description

Math-15 is 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.

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

For support beyond our classtime, you should contact KTIS.

Accessibility

College of the Redwoods is 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:

- Klamath-Trinity: 530-625-4821 Ext 103

If you are taking online classes DSPS will email approved accommodations for distance education classes to your instructor. In the case of face-to-face instruction, please present your written accommodation request to your instructor at least one week before the needed accommodation so that necessary arrangements can be made. Last minute arrangements or post-test adjustments usually cannot be accommodated.

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

Canvas Exercises/Quizzes & Discussion Boards35%

Instead of using a textbook we'll be using an interactive course in Canvas that will give you readings and have you immediately work with the material. It will also require you to interact with problems in discussion boards which provide you a chance to work through a problem and then get/give feedback. Giving and getting feedback is critical to making sure you gain increased mastery of the material.

Canvas Checkpoint Quizzes10%

We'll have lots of medium sized Checkpoint Quizzes. The Quiz allows you three attempts, and we keep the best grade. *Quizzes are for learning.* It allows you to show how you're doing with the material, and give you an early alert if you're missing something.

Final Project.....20%

Instead of a Final Exam, we will do a Final Project.

Reading Reports.....15%

There are some important parts of statistics we won't get a lot of time to discuss. Instead I'm assigning a very readable and entertaining book for you to read. The book we will read is an excellent complement to the class, and is actually fun to read!

Participation.....20%

If you are unable to attend class, you need to contact the instructor and let him know what is going on.

Falling Behind

Despite our best efforts, sometimes life gets in the way of school. Sometimes other classes end up requiring more work than expected, so school gets in the way of school! I've been there in both cases and have had to drop classes mid-semester because I had too much on my plate. So I totally understand. I'm here to help you and don't feel like you owe me an apology for doing your best to balance your life. But let's assume the worst happens, and for some reason you fall behind... If this happens and you feel like you cannot complete the class, you can withdraw from the class. This means you get a W instead of an F on your transcript, which is much better for your GPA.

A	89.5	\leq <i>Grade</i>	\leq 100
B	79.5	\leq <i>Grade</i>	$<$ 89.5
C	69.5	\leq <i>Grade</i>	$<$ 79.5
D	59.5	\leq <i>Grade</i>	$<$ 69.5
F	0	\leq <i>Grade</i>	$<$ 59.5

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. This 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 or call 707-476-4160

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

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

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.
 2. Dial 911, to notify local agency support such as law enforcement or fire services.
 3. If safe to do so, notify key administrators, departments, and personnel.
 4. If safe to do so, personnel shall relay threat information, warnings, to ensure the school community is notified.
 5. Contact 530-625-4821 to notify of situation.
 6. Contact Hoopa Tribal Education Administration office 530-625-4413
 7. Notify Public Safety 707-476-4111.
1. In the event of an emergency, the responsible district employee on scene will:
 - f. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.

- g. Lock all doors and turn off lights if in lockdown due to an active shooter or similar emergency.
- h. Close all window curtains.
- i. Get all inside to safe location Kitchen area is best internal location.
- j. If a police officer or higher official arrives, they will assume command.
- k. Wait until notice of all is clear before unlocking doors.
- l. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.
- m. 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 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.
- Klamath-Trinity students can contact the CR KT Office for specific information about student support services at 530-625-4821

Welcome to Class!

Statistics is an incredibly relevant topic in our society. It is used in news, business, politics, academic research, and in every field that uses data. Understanding statistics will not only further your educational and career goals, but help you be an informed citizen and consumer.

You may be intimidated by this class, but don't worry! This is not your typical math class. *Statistics is about critical thinking.* At its heart, statistics uses data to answer questions. And even though it involves math, many people find that their intuition goes a long way in this class. *Statistics is best learned hands-on.*

Things You Should Know

Time Commitment

This class will keep you busy! We have asynchronous class lectures and a lot of homework. You should be ready to commit at least 12 hours per week to work. At the beginning it can feel a little overwhelming, but in the first few weeks you'll find your pace. You will need to spend time on this class in addition to the time in the classroom.

Class Rules

As a general rule, *be respectful to your classmates and help provide a healthy environment for learning.* Give your full attention to the material or activities we are working on.

Course Packets (this is our textbook)

During class we'll be using packets to guide the discussion. These packets will be available to download on Canvas. The material in these packets was made for online distribution by collaboration with the faculty at Los Medanos Community College (LMC) and Cuyumaca Community College (CCC). They have been edited by Levi Gill and Danny Ammon, Mathematics Professors at College of the Redwoods, with permission.