Syllabus for MATH 102: Pathway to Statistics – Eureka Campus

Semester & Year	Fall 2017
Course ID and Section #	MATH 102 E3119
Instructor's Name	Adam Falk
Day/Time	MW 11:40AM – 2:10PM and 3:00PM – 4:25PM
Location	SC 208
Number of Credits	6 credits: 5 lecture and 1 lab

Contact Information	*Office hours*	By appointment only
	Email address	Adam-Falk@redwoods.edu
Textbook Information	*Title & Edition*	Outliers: The Story of Success
	Author	Malcolm Gladwell
	ISBN	0316017930 (10); 978-0316017930 (13)

Course Description

A course designed to be a nontraditional, accelerated pathway to transfer-level statistics. Topics in algebra, data analysis and critical thinking skills relevant for success in statistics are the focus. The learning experience for this course emphasizes active learning via collaborative work. This course is designed for students who plan to major in fields such as biology, social sciences, nursing, art, and English, and not for students pursuing degrees in math, engineering, computer science, business or economics.

Student Learning Outcomes

1. Formulate questions that can be addressed with data, then organize, display, and analyze relevant data to answer these questions and communicate results.
2. Use the properties of algebra to simplify expressions, solve equations and answer questions in context.
3. Construct, use, and interpret mathematical models, specifically linear and exponential functions, to represent relationships in quantitative data.

Special Accommodations

College of the Redwoods complies with the Americans with Disabilities Act in making reasonable accommodations for qualified students with disabilities. Please present your written accommodation request at least one week before the first test so that necessary arrangements can be made. No last-minute arrangements or post-test adjustments will be made. If you have a disability or believe you might benefit from disability related services and may need accommodations, please see me or contact Disabled Students Programs and Services. Students may make requests for alternative media by contacting DSPS at 707-476-4280.

Academic Support

Academic support is available at Counseling and Advising and includes academic advising and educational planning, Academic Support Center for tutoring and proctored tests, and Extended Opportunity Programs & Services, for eligible students, with advising, assistance, tutoring, and more.

Academic Honesty

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 at: http://www.redwoods.edu/board/Board-Policies/Chapter-5-Student-Services, and scroll to AP 5500. 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 Classroom 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, he or she 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 at: http://www.redwoods.edu/board/Board-Policies/Chapter-5-Student-Services and scroll to AP 5500. 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.

Emergency Procedures for the Eureka campus:

Please review the campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). The Eureka **campus emergency map** is available at: (http://www.redwoods.edu/aboutcr/Eureka-Map; choose the evacuation map option). For more information on Public Safety, go to http://www.redwoods.edu/publicsafety. In an emergency that requires an evacuation of the building:

- 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 Incident Commander or campus authorities. (CR's lower parking lot and Tompkins Hill Rd are within the Tsunami Zone.)

RAVE – College of the Redwoods has implemented an emergency alert system. In the event of an emergency on campus you can receive an alert through your personal email and/or phones at your home, office, and cell. Registration is necessary in order to receive emergency alerts. Please go to https://www.GetRave.com/login/Redwoods and use the "Register" button on the top right portion of the registration page to create an account. During the registration process you can elect to add additional information, such as office phone, home phone, cell phone, and personal email. Please use your CR email address as your primary Registration Email. Your CR email address ends with "redwoods.edu." Please contact Public Safety at 707-476-4112 or security@redwoods.edu if you have any questions.

College of the Redwoods is committed to equal opportunity in employment, admission to the college, and in the conduct of all of its programs and activities.

Other Course Materials
- Bound Notebook with Graph Paper:
  Roaring Spring #77475 or Ampad #26-251, for example. Make sure it is bound and has graph paper in it. You will use this throughout the course to build yourself a reference book (see the "Reference Book" section).
- Calculator: A graphing calculator (Ti-83 or Ti-84 recommend). A limited number of rental calculators are available from the Math Lab in the ASC.
- Computer Access for:
  - Email: I expect you to have regular access to a computer and expect to be able to contact you easily. The College uses your "mycr.redwoods.edu" email address to communicate with you so it is important that you receive those email messages.
  - Canvas: There will be course materials available on Canvas. If you miss a class or part of a class, look on Canvas for the course materials.
- Graph paper. Either buy it or print it from a file on Canvas.
- There will be supplemental handouts. Some of these will be distributed in class and some will be available for printing from Canvas. You are not required to print a document, but you are responsible for the content, i.e. if not explicitly stated, you may view the documents online.

Course Content
- Numerical Reasoning
- Algebraic Reasoning
- Probability
- Basic Principles of Study Design
- Mathematical Models
- Graphing and Exploratory Data Analysis

Participation

Participation in class activities, attendance, and participation are essential to the learning process. In addition, everyone benefits from your input and participation, and most of the work we do will be in groups. A hugely important aspect of this course is the incorporation of active learning in class; this requires everyone's participation, particularly during in-class activities. Also, the best way to insure having a successful experience in any course is to come to every class meeting and keep up with the assignments. There will often be handouts during class to be turned in at the end of class. If you miss more than four class sessions, you may be dropped from the course.

I realize that sometimes things come up and getting to class is impossible. In those cases, just communicate with me as soon as you possibly can, but preferably before whatever it is you are going to miss. This is especially important in this lecture lab group activity based course.

Note that ALL students remain responsible for ALL assignments given and those assignments are expected to be turned in ON TIME. If you miss a class, the assumption is that you will get the necessary information to complete the assignment by the due date and be prepared to continue in the normal flow of the course.

The material builds from one week to the next and so it is important that you attend all classes.

Homework Assignments

Assignments will be described in class and posted on Canvas. These assignments will mostly consist of worksheets, problem sets, or reading and questions from the Outliers book or other assigned readings.

Quizzes

There will be quizzes, some will be assigned for you to do in Canvas, and some will be in class not always announced ahead. You should always bring a pencil with you to class each day to be ready for a quiz. Bring your reference book which may be allowed for some quizzes

Exam

There will be one midterm exam.

Other assignments

There will be at least two major cooperative projects beyond the in class group activities. Information will be given in class and posted on Canvas

Reference Book

Each student is required to create his/her own personal math reference book throughout the term. It should be made in a bound notebook. It should have a title page at the front, followed by a table-of-contents. The contents should include material learned in the course. For the most part, it is up to you to decide exactly what to include, though there will be a few items I will direct you to be sure to include. Each page should be one separate topic. Completion of a reference book will be incorporated into your homework grade.

Grade	In class Assignments	Quizzes	Homework	Projects
A	At least 90% completed satisfactorily	Average of at least 85%	95% of assignments completed	Average of at least 90%
B	At least 80% completed satisfactorily	Average of at least 75%	90% of assignments completed	Average of at least 80%
C	At least 70% completed satisfactorily	Average of at least 65%	80% of assignments completed	Average of at least 70%
D	At least 60% completed satisfactorily	Average of at least 60%	70% of assignments completed	Average of at least 60%

****THIS SYLLABUS IS SUBJECT TO CHANGE****