# Syllabus for Math 15 – Introduction to Statistics

**Course Information**

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| Semester & Year: Fall 2019 |
| Course ID & Section #: Math 15 – Section E7270 |
| Instructor's name: Anya Savage |
| Day/Time: Tues/Thurs 9:05-11:10 (Corresponding Support Section Math 15S Tues/Thurs 11:20-12:45) |
| Location: Eureka Campus SC 210 |
| Number of units: 4 (Corresponding Support Section 1) |

**Instructor Contact Information**

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| Office location: Office hours in SC212 |
| Office hours: Mon 9-11 |
| Phone number: |
| Email address: Anya-Savage@redwoods.edu |

**Required Materials**

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| Textbook Title: Elementary Statistics |
| Edition: 13th |
| Author: Triola |
| ISBN: 978-0134462455 |
| Other requirements: Graphing calculator required, TI-83 or TI-84 graphing calculator recommended |

**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.

Grading Options: Letter grade options

**Course Student Learning Outcomes**

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.

**Required Materials and Supplies**

**Text**: Elementary Statistics, 13th edition, by Mario F. Triola

ISBN: 978-0134462455

You have a variety of options for acquiring the text in addition to the campus bookstore. You can rent or buy a used hard copy of the text inexpensively at online retailers such as amazon.com. You can also buy or rent a digital copy of the text online (the publishers website – Pearson.com – is one option, although there are others). You do not need any online codes or special software, only the text itself. There is also one text available for 2-hour reserve in the library.

**Graphing calculator**: A graphing calculator is required, TI-83 or TI-84 recommended. Graphing calculators are available to rent for $15 a semester (see Emily Chang in the Math Lab in the back of the LRC)

**Other materials**: In addition to the text and the calculator you will need graph paper, paper to take in class notes on, pencils, erasers, a straight edge, and a binder or notebook to organize classwork, notes, etc.

**Homework**

Homework will be assigned almost every day, and will be collected the class session after it is assigned. Late or illegible homework will not be accepted. To receive full credit, homework must:

-have your name in the upper right hand corner, and the section and problem numbers on the first line

-be stapled

-be in pencil

-be correct and complete (The answers to the odd problems are in the back of the book. Check your work!)

-show all work and follow examples done in class

-be neat, with all problems clearly labeled

Homework is the way most of us learn math, so it is important that it is done regularly. While everyone must turn in their own work, please work together if you find it helpful. Homework will be turned in with homework quizzes.

**Homework Quizzes**

Homework quizzes will be given almost every class session. These will be relatively short open note, open homework quizzes. You may only use your own homework and notes unless otherwise stated by the instructor. There will be no makeup homework quizzes. The three lowest homework quiz grades will be dropped.

**Exams**

There will be five in class exams and one final. All are weighted equally. These are closed book exams, although you will be able to use your graphing calculator. There will be no makeup exams. However, if you know you will need to miss an exam, please let me know well ahead of time, and it may be possible to arrange an alternate time to take it. Please note: the final must be taken at the college designated time during finals week. If you miss an exam due to a documentable emergency (serious illness, car accident, etc.) please contact me as soon as possible to make alternative arrangements. If it will benefit you (increase your grade) your lowest exam grade will be replaced with your final exam score. Otherwise, exam scores will remain the same.

**Activities**

We will have activities in and out of class time. Cooperative learning activities will be an important part of this course. Group assignments will be given and are generally to be completed during class time. Since activities usually require group work, they must be completed in class. In class activities generally cannot be made up.

**Grading**

Your grade will be based on the following percentages:

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| Exams | 70% |
| Homework/Homework Quizzes/Activities | 30% |

**Grading Scale**

A 93-100%

A- 90-92%

B+ 88-89

B 83-87%

B- 80-82%

C+ 78-79%

C 70-77%

D-F <70%

********Syllabus is subject to change********

## Important Information about **Math 15S – Support for Statistics**

(More detailed information can be found in syllabus for **Math 15S – Support for Statistics**)

Math 15S – Support for Statistics is a separate course from Math 15, with different expectations, and a different grading scale. You will receive a separate grade for each course. Math 15S is a pass/no pass course.

**Course Student Learning Outcomes – Math 15S-Support for Statistics**

1. Apply numerical and algebraic techniques to understand and evaluate statistical formulas.

2. Interpret graphs and represent data graphically to support statistical arguments.

3. Implement effective learning strategies.

**Activities -- Math 15S – Support for Statistics**

We will have activities during class time. Cooperative learning activities will be an important part of this course. Group assignments will be given and are generally to be completed during class time. Since activities usually require group work, they must be completed in class. In class activities generally cannot be made up.

**Grading - Math 15S – Support for Statistics**

Your grade will be based on the following percentages:

Participation 60%

Activities 40%

Your three lowest daily participation grades will be dropped, along with your lowest activity grade. Participation grades will out of ten points and based on group participation, discussion and responses.

**Grading Scale - Math 15S – Support for Statistics**

Pass 70-100%

No Pass <70%

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