**Math 103 Statistics**

**Mrs. Elizabeth A Smith**

**Office: Tarpley 308****EAS1@Reinhardt.edu**

**Tuesday & Thursday**

8:40 – 10:20  Math 221  Pre-Calculus & Honors Pre-Calculus

10:55- 12:25 Math 221  Pre-Calculus & Honors  Pre-Calculus

12:30 - 1:45   Math 103    Statistics

2:00 - 3:15    Math 103    Statistics

**Office Hours:**   Monday and Wednesdays - I am available by appointment (sign up on Canvas for a time that works for you) MANY times of the day. If you need help, we will find a time that works for you to get that help!

**Required Textbook:**   We have an online textbook and homework program called Hawkes Learning. You will have assignments due each week including the first week. It is a great program (we tested many options before choosing this one) if you used MyMathLab or another online math program in high school this is similar. Hawkes has fantastic 24-7 live customer service so if you have any trouble at all registering for the program call them. It is very easy to purchase either at the RU bookstore or online. Follow the directions to register for this class.

<https://learn.hawkeslearning.com/Portal/User/Login>

Go to the middle of the page to get started. You need to have a credit/debit card to buy online. \*\*\* take a picture of your access code (very long number) \*\*\* you will need this number periodically this semester.  Option: You can also register for a free 10-day access to this software. If you buy the program during the 10-day trial, then all the work you have done will transfer to your account. If you do not buy the program, then the work will disappear. This is a good option to use if you have certain scholarships coming in later and you want to wait to buy the program, but you don’t want to fall behind in class.

**WEEKLY Homework Assignments are listed by ON THE HAWKES WEBSITE (not CANVAS)**

Textbook: Hawkes Online textbook and homework system

Course ID:  Beginning Statistics 3rd Edition

Instructor Name: Elizabeth Smith

**Do NOT purchase a used License Number or Access Code (from other students or online vendors). License Numbers and Access Codes are registered to the original purchaser only.**

Get Your Access Code

1. Go to www.hawkeslearning.com/accesscode.
2. Select Register if you have already purchased your materials and need to register the License Number on the yellow sticker. Select Purchase if you need to buy an Access Code.
3. Fill out the form with your information.
4. Click Submit to receive your personalized Access Code.
5. Copy your Access Code so that it can be pasted into the software.

Enroll in Your Course

1. Double-click on the round Hawkes Learning Systems icon on your desktop.
2. Type or paste your Access Code into the software and click OK.

If your internet is not always reliable you can also download the program and work offline

Install the Software

1. Download the software from www.hawkeslearning.com/download.
2. When prompted, enter your Course ID the same as above

A TI83 or TI 84 calculator is NOT required but is useful for the course. If you do not have a TI graphing calculator you will NOT be able to pass this class. Sharing of calculators is not permitted for the test. If you do not have a graphing calculator you should drop this class and register for another class you can be more successful with. ***You WILL need access to Excel and be able to do basic calculations using it. I can help you with Excel questions  and so can CSS tutor center. Bring YOUR excel device when getting help since each one is a bit different!***

All students, faculty, staff and administration at Reinhardt University are subject to changes in policies if mandated by the State of Georgia.

Current policies and procedures can be found at

 <https://www.reinhardt.edu/back-to-campus>

If you have any questions, please refer to the website or contact Reinhardt University at the numbers below.

Campus Nurse within the Student Health Center

nurse@reinhardt.edu, 770-720-5542 or [www.reinhardt.edu/nurse](http://www.reinhardt.edu/nurse).

Public Safety

**Non-Emergency Phone:** 770.720.5789
**Emergency Phone:** 770.720.5911
publicsafety@reinhardt.edu

Dean of Students

deanofstudents@reinhardt.edu, 770-720-5540

LEARNING OUTCOMES Students will demonstrate:

1. Integrative, critical thinking and inquiry-based learning using evidence, logic, reasoning, and calculation.
2. Knowledge of various research methodologies; information, technological, and scientific literacy.
3. Effective expression of ideas through writing, speech and visual media.

STATISTICS OBJECTIVES: As a result of taking this course the student should be able

1. graphically present statistical data in a number of ways
2. work with measures of central tendency (mean, median, mode) and variation (standard deviation, range)
3. work with basic techniques of discrete probability (sample spaces, addition rules, multiplication rules, conditional probability)
4. know the basic characteristics of the binomial distribution, the Poisson distribution and the hypergeometric distribution
5. be able to work with the normal distribution and the central limit theorem
6. be able to compute confidence intervals for the mean of a set of data
7. be familiar with the basic methods of hypothesis testing
8. be able to test the difference between means, variances and proportions
9. be able to perform a simple regression analysis
10. to perform chi-squared tests for goodness of fit, independence and homogeneity of proportions
11. be able to design a presentation based upon statistics

**MATHEMATICS PROGRAM OBJECTIVES:** The Mathematics Program at Reinhardt University offers courses geared to
**MPO1** Analyze and solve problems by using reasoning, logic and evidence, and by bringing knowledge from a wide range of mathematical areas.

**MPO2** Use effective written and oral expression of mathematical concepts in the creation of a mathematical argument by recognizing a wide range of mathematical terms and vocabulary.

**MPO3**​Apply axiomatic systems.

**MPO4**​Apply mathematical research methodologies by using libraries, informational technologies, computer programming and numerical methods in order to create solutions to problems.

**MPO5** Apply ethical, legal, and policy issues to Information Technology

**MPO6** Create IT solutions to solve organizational problems.

**MATHEMATICS PROGRAM STUDENT LEARNING OUTCOMES:**Taking this course, students will be able to

**SLO1** Solve a word problem by applying the appropriate mathematical setup, obtaining the mathematical solution, and interpreting this solution in the context.

**SLO2** Solve a theoretical problem by identifying the appropriate mathematical context, interpreting the question and the nature of the solution, and checking that the solution is correct.

**SLO3** Complete a proof or produce a mathematical object that satisfies specific properties.

**SLO4** Solve a problem by consulting various resources, applying appropriate technological tools, and using adequate approximations.

**SLO5** Analyze how information technology affects ethical and legal issues.

**SLO6** Synthesize appropriate solutions to organizations' problems.

**ALIGNMENT TO REINHARDT UNIVERSITY SLO’s:**

|  |  |  |
| --- | --- | --- |
| **Math PO** | **Math SLO** | **RU SLO** |
| 1 | 1 | 1, 2, 4 |
| 2 | 2 | 1-4 |
| 3 | 3 | 1-4 |
| 4 | 4 | 1-4 |
| 5 | 5 | 1-4, 7 |
| 6 | 6 | 1-4 |

GRADE DETERMINATION:

ATTENDENCE:  Math is a subject that builds on information learned on previous days. If you are absent YOU are responsible to get the assignment off the syllabus and complete it on time.

2 TARDIES to class = 1 absence
4 or more absences = 5 points off test for each absence over 3

As a reward, if you miss 2 or fewer classes you will get 5 extra points on your lowest test.

If you are absent on the day of a test then that will be your lowest test grade dropped and you MUST take the final exam*.   THERE ARE NO MAKEUP TESTS GIVEN FOR ANY REASON*. If you know you have to miss a test ahead of time you can make arrangements to take the test at an earlier time or day.

If no tests have been missed then the lowest test will be dropped when you take the final exam

 If you have not missed a test AND have 3 or less absences (2 lates count as an absence) AND if you are happy with your grade before taking the final, you may exempt the final as your drop grade.  Example: You meet the above requirements and you have an 84 average you can take your B in the class and exempt the final exam.

**Academic Integrity**

All instances of cheating will result in a zero for the assignment and a report to the Dean of Academic Affairs. All students are expected to adhere to the highest standards of academic integrity and to abide by the Reinhardt Honor Code. Also, all students are expected to be familiar with the Reinhardt policy on academic dishonesty stated in the University Catalog and in the Student Handbook. Plagiarism (using the ideas and phrases of others without crediting them, therefore claiming those ideas and phrases as your own) will not be tolerated in this course or on this campus. To avoid such academic dishonesty, you must use a citation (footnote or in text) for all ideas drawn from your reading and research, including research in encyclopedias and online, even when you have restated those ideas in your own words.

The grades will be determined as follows:

Tests  80%  generally 3 tests – given in September, October, and November (Final Exam in Dec will replace lowest test grade)

Homework  20%

GRADING SCALE:     A         90-100

                                    B         80-89

                                    C         70-79

                                    D         60-69

                                    F         Below 60

For Free Tutoring and Help with Homework:

The Center for Student Success located on bottom floor of Lawson, room 035, is a free tutoring service available to all students. For appointments--go to Reinhardt webpage; click on Academics. When the next page appears, click Center for Student Success. On that screen, click Student Appointment Form.  Fill out required fields and then submit.  If you would prefer to call, the number is 770-720-9232.

“The Americans with Disabilities Act (ADA) is a federal anti-discrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you have a documented disability requiring an accommodation, please contact the Academic Support Office (ASO).

Reinhardt University is committed to providing reasonable accommodations for all persons with disabilities. Therefore, if you are seeking classroom accommodations under the Americans with Disabilities Act, you are required to register with the Academic Support Office (ASO). ASO is located in the basement of Lawson Building. Phone is 7707205567. To receive academic accommodations for this class, please obtain the proper ASO letters/forms.”