**Pierce County High School**

**Coastal Pines Technical College**

**MATH 1127**

 **Introduction to Statistics**

**Course Syllabus – SPRING Semester 2018**

 **Instructor:**  Becky King Email: rebeccaking@pierce.k12.ga.us

 Phone: (912) 449-2055

**Hours on Campus**: 7:00AM-4:00PM MTWRF

 Planning: None

I will be available for students to receive extra help 7:30-7:50AM and 3:30-4:00PM daily. Let me know ahead of time, if possible.

**Course Description:** This course emphasizes the concepts and methods fundamental to utilizing and interpreting commonly used statistics and tests. Students will use appropriate technology to enhance statistical thinking and understanding. Topics covered in this course include: statistics, basic probability, discrete and continuous distributions, sampling distributions, hypothesis testing, chi square tests and linear regression.

**Pre-requisites:** SuccessfulCompletion of College Algebra.

**Co-requisites:** None.

**Course Credit:** 3 Semester Credit Hours

**Contact Hours:** 3 hours lecture = 3 Total Contact Hours

**Materials:** Notebook, pencils, and an eraser. A MyStatLab access code is required. Coastal Pines will provide each student with a code. You will need a TI-83, TI-83+or TI-84 graphing calculator for this course. No other calculators will be allowed. You **may not** use your cell phone as a calculator.

**Required Textbook:** *Statistics, Informed Decisions Using Data, 5th ed.,* Michael Sullivan III with a MyStatLab access code ISBN: 9780134136783 (Book with MyStatLab access code)

**Course ID #** (for MyStatLab): **king54984**

**Competencies:**

* + Data Classification and Collection
	+ Descriptive Statistics and Graphs
	+ Basic Probability
	+ Discrete and Continuous Distributions
	+ Sampling Distributions and Estimation
	+ Hypothesis Testing
	+ Linear Regression
	+ Chi Square Tests

**Learning Outcomes:**

* Students exiting MATH 1127 will be able to understand basic statistical methods used and their appropriate interpretations.

**Course Outline:**

|  |  |
| --- | --- |
| Chapter 1 | Data Collection |
| Chapter 2 | Organizing and Summarizing Data |
| Chapter 3 | Numerically Summarizing Data |
| Chapter 4 | Describing the Relation Between Two Variables |
| Chapter 5 | Probability |
| Chapter 6Chapter 7Chapter 8  | Discrete Probability DistributionsThe Normal DistributionOmit |
| Chapter 9 | Estimating the Value of a Parameter |
| Chapter 10Chapter 11Chapter 12 | Hypothesis Tests Regarding a ParameterInference on Two Population ProportionsInference on Categorical Data |

**Classroom procedures:**

1. Cell phones: See policy in PCHS student handbook.
2. Respect the rights of others to be in class and learn. In particular, conversations during the instructor’s lectures are distracting and hinder learning. You will be warned only once, and if it occurs again, your parent(s) will be contacted.
3. The instructor will take daily attendance for the class.
4. **IT IS THE STUDENT’S RESPONSIBILITY TO KEEP UP WITH THE WEEKLY CLASS SCHEDULE.** If a student misses a class, it is his/her responsibility to find out what was covered and what assignments may be due for the time missed. Students are responsible for what is said in class or listed on the syllabus, regardless of presence or absence. It is each student’s responsibility to complete class assignments and prepare for tests in a timely fashion so that he/she can meet stated deadlines and due dates.
5. ***Students are expected to keep a notebook in which they maintain handouts and other materials pertinent to class***. Once a handout or other resource has been provided to a student, he/she is expected to be able to retrieve that information upon request.
6. Successful completion of this course is based upon demonstration of mastery of the major competencies outlined for the class. Each class will involve sessions of lecture and opportunities to practice the content covered in each class.
7. You must have a signed hall pass to leave class for any reason. You will be allowed to use your agenda to leave this class a **maximum of three times** during this semester.
8. **Student Attendance Requirements:** You may not miss more than **10%** of class meetings to meet the attendance requirements of Coastal Pines Technical College. You must also meet the attendance requirements of Pierce County High School. See Pierce County High Student Handbook. A student who is tardy more than fifteen minutes (15 minutes) will be considered absent for that class period. Students who leave the classroom or lab fifteen minutes (15 minutes) prior to the scheduled end of class or lab will be considered absent for that class or lab period.

**Student Evaluation and Academic Grading:**

|  |  |
| --- | --- |
| **Categories** | **Weights** |
| Unit Tests | 50% |
| Homework/DailyQuizzes | 15%5% |
| Midterm | 10% |
| Final Exam  | 20% |

**Homework/Daily(15%) and Quiz Grades(5%):** Homework will consist of textbook and MyStatLab assignments. Most of the quizzes will be done in MyStatLab and graded by the computer. Be careful entering your answers because the computer will count a problem incorrect if you have typing errors. You will find the homework under the “Homework” tab of MyStatLab. Each homework problem has unlimited attempts for each problem. If you miss a problem on the third attempt, it gives you the opportunity to so a similar problem to get credit for the exercise. Aim to make 100% on all the homework assignments. Quizzes are located under the Quizzes & Tests tab of MyStatLab. You have unlimited attempts on a quiz. If you do not finish a quiz, then you must start all over with a new quiz. I will include your best score on a quiz in your average. Homework has built-in help tools available through a menu icon on the top right of the problem screen. On the quizzes, there is no help available in MyStatLab. Remember, practice makes perfect.

**Unit Tests (50%):** Each unit test is a proctored, in-class test. You are expected to show your work and write all necessary steps in the completion of the problems**.** Remember **NO WORK=NO CREDIT**!!! If you miss a test, please let your instructor know immediately. You will be allowed to make up a test if you were on a school related trip or if you have a doctor’s excuse. You will need to make arrangements outside of class time to take that test within three days of the absence.

**Midterm Exam (10%):** The midterm exam will be a paper and pencil test that must be taken in a proctored environment. It will cover chapters 1-4. It will count 10% of your final grade.

**Final Exam (20%):** The final exam will be a paper and pencil test that must be taken in a proctored environment. The final exam will be comprehensive exam with 25-30 questions. The exam will count 20% of your final grade. No make-up exams will be allowed for the final exam. The final exam will be given on or before May 2.

**Replacing Test Grades**

If your final exam grade is higher than your lowest unit test grade at the end of the semester, then the final exam score will replace that low unit test grade.

**Guarantee:** The Technical College System of Georgia has developed curriculum standards with direct involvement of business and industry. These standards serve as the industry-validated specifications for each occupational program. CPTC guarantees that if one of our graduates educated under a standard program and his or her employer finds that the graduate is deficient in one or more competencies as defined in the standards, CPTC will retrain the employee at no instructional cost to the employee or the employer. This guarantee is in effect for a period of two years after graduation. Coastal Pines Technical College is a unit of the Technical College System of Georgia.

**Extra Credit: *Extra credit is not given in this class***.

Pierce County High School policy allows for up to 5 points to be added to your PCHS average for dual enrollment courses.

**Copyright Notice:** Materials used in connection with this course may be subject to copyright protection under Title 17 of the United States Code. Under certain Fair Use exemptions specified by law, copies may be made for private study, scholarship, or research. Course participants should not share electronic copies of these materials with unauthorized users. Failure to comply with copyright restrictions and Fair Use guidelines may result in personal liability for copyright infringement. For more information about copyright and Fair Use, see the Coastal Pines Technical College Copyright Guide <http://libguides.coastalpines.edu/copyright>

**Students with ADA/Section 504 Disabilities**

Students who have disabilities and would like academic accommodations should notify Counseling and Special Services Director, Cathy Montgomery, @ 912-427-6265 or cmontgomery@coastalpines.edu for an appointment to discuss documentation requirements and accommodations availability.

**Falsification of Records and Cheating**: Any student caught cheating on schoolwork or who falsifies, alters, or attempts to falsify or alter school records will be subject to dismissal.

**Tutoring Services:** CPTC publishes a tutoring schedule with locations and hours at the beginning of each academic term. The tutoring schedule is posted on the CPTC website and distributed to students by email.

**Web-based tutoring:** Web-based tutoring services are provided to students by [Smarthinking.com](http://services.smarthinking.com/login/login.php), which gives students several options for receiving tutoring assistance.

***This syllabus is subject to change. Any changes will be announced in the classroom. Changes will supersede this syllabus.***

**Important Dates:**

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| --- | --- |
| **Date** | **Event** |
| **Spring Term S2 Begins** | **January 10,2018** |
| **School Holidays** | **Jan. 15, Feb.19,20, April 2-5** |
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| **Midterm** | **February 27** |
| **Final Exams**  | **May 1-2** |
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**I have read and understand the policies and procedures for Math 1127 outlined in this syllabus.**

**NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

 **(Please print)**

**Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Parent/Guardian Signature** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Notebook and Supplies

* 2-3 inch binder for textbook
* 1 ½ -2 inch binder for all notes, homework, etc.
* Pencils for all work
* Dividers
* Highlighters
* Loose leaf paper
* Graphing Calculator