Piedmont Technical College Course Syllabus

COURSE INFORMATION

Course Prefix/Number: MAT 120  
Title: Probability and Statistics  
Responsible Division: Arts and Sciences  
Last Day to Withdraw from this Course: For the last date to withdraw from this course, consult the current Student Calendar.

Course Description:
For course, credit hour, pre-requisite(s) and co-requisite(s) information, visit the Detailed Course Information page: www.ptc.edu/courses/MAT120.

Textbook and Other Materials:
For textbook information and additional required and/or supplemental materials, visit the college bookstore (www.ptc.edu/bookstore).

Proctored Examinations:
Proctored examinations for distance learning courses taken at non-PTC campuses may require a proctoring fee for each exam taken.

COURSE POLICIES

Course policies are available online through the Academic Catalog and Student Handbook. Visit the Course Policies page (www.ptc.edu/syllabus/policies) for a detailed list of important policies and more information.

GRADE POLICY

Detailed grading policy information can be found on the Grading Policy webpage (http://www.ptc.edu/grading-policy). Final grade appeal information is available in the Academic Catalog (http://www.ptc.edu/catalog/).
ACCOMMODATIONS

Accommodations for ADA:

Information is available on the Student Disability Services webpage (http://www.ptc.edu/ada).

TITLE IX HARASSMENT AND SEXUAL ASSAULT INFORMATION

In accordance with Title IX of the Education Amendments of 1972, Piedmont Technical College does not discriminate on the basis of sex in its education programs or activities. Title IX protects students, employees, and applicants from sex discrimination in admissions and employment to include discrimination based on gender identity or failure to conform to stereotypical notions of masculinity or femininity. More information regarding Title IX, including contact information for the Title IX coordinators, is available at Title IX Harassment and Sexual Assault Information (https://www.ptc.edu/about/legal-disclosures/title-ix-harassment-and-sexual-assault-information).

RATIONALE

Why do I need this course?

Statistics is the art of collecting, describing, and analyzing data. The knowledge of statistics is important in being a wise consumer of the vast amount of information that can be instantly accessed in our advanced technological society. Most of the decision-making processes at all levels of the global economy are founded in the processes and theories of statistics. MAT 120 will give students the background in applied statistics necessary to become more competitive in the highly technical global workplace.

PROGRAM INFORMATION

For program information including required courses, program learning outcomes, gainful employment information and advisement information, refer to the Academic Program webpage. Go to Academics (http://www.ptc.edu/academics), select your program, and then select Credentials Offered.

COURSE STUDENT LEARNING OUTCOMES
Upon successful completion of this course and/or clinical, each student will be able to:

- Recognize the vocabulary of probability and statistics.
- Apply appropriate technology to compute descriptive statistics and construct graphs for a set of data.
- Calculate and interpret measures of central tendency, variation, and probabilities.
- Use probability distributions in the calculation of probabilities for both discrete and continuous variables.
- Test hypotheses and construct/interpret confidence levels.

GENERAL EDUCATION COMPETENCIES

Piedmont Technical College General Education Competencies for All Graduates:

This course may address one or more of the following General Education Competencies (assessment will be stated when applicable):

Communicate effectively.
Assessment:
- Final Project
- Tests and graded homework questions.

Apply mathematical skills appropriate to an occupation.
Assessment:
- Final Project
- Tests and graded homework questions.

Employ effective processes for resolving problems and making decisions.
Assessment:
- N/A

Demonstrate the basic computer skills necessary to function in a technological world.
Assessment:
- Excel Project

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To validate proficiency in the general education competencies, students in some programs will be tested using Work Keys.