



Syllabus

SCHOOL OF ARTS AND SCIENCES

MATH 146: Foundational Statistics

5 Credits

Effective: Spring 2019

Access to the Internet is required.

All written assignments must be in Microsoft-Word-compatible formats.

See the library's APA Style Guide tutorial for a list of resources that can help you use APA style.

FACULTY

See Faculty Information in Blackboard.

COURSE DESCRIPTION

This course introduces students to the study of basic probability, descriptive and inferential statistics, and decision-making. Through various learning activities, students will explore concepts such as measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, and hypothesis testing. Upon completion of this course, students should be able to describe important characteristics of a set of data and draw inferences about a population from sample data.

COURSE RESOURCES

Required and recommended resources to complete coursework and assignments are available from the [Course Document Lookup](#).

CITYU LEARNING GOALS

This course supports the following City University learning goals:

- Professional competency and professional identity

COURSE OUTCOMES

In this course, learners:

- Calculate and interpret measures of central tendency and measure of dispersion
- Present interpretation of data and summarize statistical findings
- Evaluate statistical data
- Use Regression Analysis to test correlation of data
- Test hypothesis using appropriate statistical test

CORE CONCEPTS, KNOWLEDGE, AND SKILLS

- Correlation analysis
- Hypothesis testing
- Measures of central tendency
- Measures of dispersion
- Normal distribution
- Probability
- Regression analysis
- Sample and population
- Sampling

OVERVIEW OF COURSE GRADING

The grades earned for the course will be derived using City University of Seattle's decimal grading system, based on the following:

<i>Overview of Required Assignments</i>	<i>% of Final Grade</i>
Course activities	30%
Homework Assignments	40%
Quizzes	30%
TOTAL	100%

SPECIFICS OF COURSE ASSIGNMENTS

The instructor will provide grading rubrics that will provide more detail as to how this assignment will be graded.

Course activities

Class participation through discussion activities is an integral part of this course. To provide structure for balanced participation and allow maximum benefit of enhanced discussion activities and learning, the following are required: 1) Post initial responses to discussion questions; 2) Post at least two thoughtful and topic-relevant comments or questions in response to classmates' posts on at least two different days during the school week; and 3) Respond to any questions the instructor or classmates have regarding the original post by the end of the school week.

<i>Components</i>	<i>% of Grade</i>
Engagement	100%
TOTAL	100%

Homework Assignments

Students complete homework to learn course concepts. Homework topics will include measures of central tendency, measure of dispersion, hypothesis testing, interpretation and analysis of statistical data, correlation and regression, etc. Homework needs to be sent electronically to instructors. Students are required to use equation editor, such as Microsoft Equation 3.0, and Microsoft Excel, Google Sheets, or their equivalent to type their answers.

<i>Components</i>	<i>% of Grade</i>
Solve Mathematical Problems	0%
TOTAL	100%

Quizzes

Students complete quizzes to reinforce course concepts. The quizzes test students on mathematical terminology and the identification and application of mathematical tools. All quizzes are open book, and students may use a calculator.

<i>Components</i>
Solve Mathematical Problems
TOTAL

<i>% of Grade</i>
100%
100%

COURSE POLICIES

Late Assignments

See Late Policy under Course Information in Blackboard.

Participation

See Participation Policy under Course Information in Blackboard.

Professional Writing

Assignments require error-free writing that uses standard English conventions and logical flow of organization to address topics clearly, completely, and concisely. CityU requires the use of APA style.

UNIVERSITY POLICIES

You are responsible for understanding and adhering to all of City University of Seattle's academic policies. The most current versions of these policies can be found in the [University Catalog](#) that is linked from the CityU Web site.

Title IX Statement

City University of Seattle and its faculty are committed to supporting our students and seeking an environment that is free of bias, discrimination, and harassment. If you have encountered any form of sexual misconduct (e.g. sexual assault, sexual harassment, stalking, domestic or dating violence), we encourage you to report this to the University. If you speak with a faculty member about an incident of misconduct, that faculty member must notify CityU's Title IX coordinator and share the basic fact of your experience. The Title IX coordinator will then be available to assist you in understanding all of your options and in connecting you with all possible resources on and off campus.

To view CityU's sexual misconduct policy and for resources, please visit the [Campus Safety and Title IX Page](#) in the my.cityu.edu portal.

Scholastic Honesty

Scholastic honesty in students requires the pursuit of scholarly activity that is free from fraud, deception and unauthorized collaboration with other individuals. You are responsible for understanding CityU's policy on scholastic honesty and adhering to its standards in meeting all course requirements. A complete copy of this policy can be found in the [University Catalog](#) in the section titled *Scholastic Honesty* under *Student Rights & Responsibilities*.

Attendance

Students taking courses in any format at the University are expected to be diligent in their studies and to attend class regularly.

Regular class attendance is important in achieving learning outcomes in the course and may be a valid consideration in determining the final grade. For classes where a physical presence is required, a student has attended if s/he is present at any time during the class session. For online classes, a student has attended if s/he has posted or submitted an assignment. A complete copy of this policy can be found in the [University Catalog](#) in the section titled *Attendance Policy for Mixed Mode, Online and Correspondence Courses*.

SUPPORT SERVICES

Disability Services Accommodations Statement

Students with a documented disability who wish to request academic accommodations are encouraged to contact Disability Support Services to discuss accommodation requests and eligibility requirements. Please contact Disability Support Services at disability@cityu.edu or 206.239.4752 or visit the [Disability Support Services](#) page in the my.cityu.edu portal. Confidentiality will be observed in all inquiries. Once approved, information about academic accommodations will be shared with course instructors.

Library Services

CityU librarians are available to help you find the resources and information you need to succeed in this course. Contact a CityU librarian through the [Ask a Librarian](#) service, or access [library resources and services online](#), 24 hours a day, seven days a week.

Smarthinking

As a CityU student, you have access to 10 free hours of online tutoring offered through Smarthinking, including writing support, from certified tutors 24 hours a day, seven days a week. Contact CityU's Student Support Center at help@cityu.edu to request your user name and password.