UNIVERSITY OF WASHINGTON
Health Informatics and Health Information Management Prerequisite

Statistics
*Contact desired campus for current class and registration information.

UNIVERSITY OF WASHINGTON - SEATTLE

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>BIOST 310</td>
<td>Biostatistics for the Health Sciences (4) QSR</td>
<td>4</td>
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<td></td>
<td>Introduction to statistical methods for students planning on majoring in health sciences. Uses case studies and examples from popular and scientific literature to introduce topics such as data description, study design, screening, estimation, hypothesis testing, categorical data analysis, and regression. Emphasizes concepts and interpretation rather than computation or theory.</td>
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<tr>
<td>EDPSY 490</td>
<td>Basic Educational Statistics (3) NW, QSR</td>
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<td>Measures of central tendency and variability, point and interval estimation, linear correlation, hypothesis testing.</td>
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<td>PSYCH 315</td>
<td>Understanding Statistics in Psychology (5) QSR</td>
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<td>Statistics for psychological research. Elementary probability theory, hypothesis testing, and estimation. Satisfies the statistics requirement for majors registered in the Psychology Bachelor of Arts degree program. Prerequisite: 2.0 in PSYCH 209; 2.0 in either MATH 111, MATH 112, MATH 120, MATH 124, or MATH 144.</td>
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<td>PSYCH 317</td>
<td>Introduction to Probability and Statistics for Psychology (5) QSR</td>
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<td>Probability theory as a model for scientific inference. Probabilistic variables and experimental outcomes, conditional probability, binomial and related distributions, experiments as samples, statistics and sampling distributions, the normal distribution, confidence intervals, problems of estimation from experiments. Prerequisite: 2.5 in PSYCH 209; 2.0 in either MATH 124, MATH 134, or MATH 144.</td>
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<td>PSYCH 318</td>
<td>Statistical Inference in Psychological Research (5) QSR</td>
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<td>QMETH 201</td>
<td>Introduction to Statistical Methods (4) NW,QSR</td>
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<td>Survey of principles of data analysis and their applications for management problems. Elementary techniques of classification, summarization, and visual display of data. Applications of probability models for inference and decision making are illustrated through examples. Prerequisite: either MATH 112, MATH 124, MATH 125, MATH 134, or MATH 145.</td>
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<td>Q SCI 381</td>
<td>Introduction to Probability and Statistics (5) NW, QSR</td>
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<td>Applications to biological and natural resource problems stressing the formulation and interpretation of statistical tests. Random variables, expectations, variances, binomial, hyper geometric, Poisson, normal, chi-square, &quot;t&quot; and &quot;F&quot; distributions. Prerequisite: either MATH 120, MATH 124, MATH 125, MATH 126, MATH 144, or Q SCI 291, or a minimum score of 2 on advanced placement test, or a minimum score of 67% on MPT-A placement test.</td>
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<td>STAT 220</td>
<td>Basic Statistics (5) NW, QSR</td>
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<td>Objectives and pitfalls of statistical studies. Structure of data sets, histograms, means, and standard deviations. Correlation and regression. Probability, binomial and normal. Interpretation of estimates, confidence intervals, and significance tests. (Students may receive credit for only one of 220, 221, 311, and ECON 311.)</td>
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<td>STAT 221</td>
<td>Statistical Concepts and Methods for the Social Sciences (5) QSR</td>
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<td>Develops statistical literacy. Examines objectives and pitfalls of statistical studies; study designs, data analysis, inference; graphical and numerical summaries of numerical and categorical data; correlation and regression; and estimation, confidence intervals, and significance tests. Emphasizes social science examples and cases. (Students may receive credit for only one of STAT 220, STAT 311, STAT/CS&amp;SS/SOC 221, and ECON 311.) Offered: jointly with CS&amp;SS 221/SOC 221</td>
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<td>STAT 311</td>
<td>Elements of Statistical Methods (5) NW, QSR</td>
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<td>Elements of good study design. Descriptive statistics including correlation and regression. Introductory concepts of probability and sampling; binomial and normal distributions. Basic concepts of hypothesis testing, estimation, and confidence intervals; t-tests and chi-square tests. Experience with computer software. (Students may receive credit for only one of 220, 221, 311, and ECON 311)</td>
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UNIVERSITY OF WASHINGTON – BOTHELL

BHS/MATH 215  STATISTICS FOR THE HEALTH SCIENCE (5)
Provides an overview of basic concepts of statistics used in health sciences with opportunities to learn through experience with health-related data. Offered: jointly with B HLTH 215.

BIS 315 Understanding Statistics (5) I&S/NW, QSR
Presentation of key concepts for understanding and judging reports of statistical analyses and for performing and reporting valid statistical analyses using a limited set of measures and tests.

UNIVERSITY OF WASHINGTON - TACOMA

TQS 110  Introductory Statistics with Applications (5) NW, QSR
Addresses introductory statistical concepts and analysis in modern society. Includes descriptive statistics, graphical displays of data, the normal distribution, data collection, probability, elements of statistical inference, hypothesis testing, and linear regression and correlation. Practical examples used to demonstrate statistical concepts.

ONLINE

RENTON TECHNICAL COLLEGE

MATH& 146  INTRODUCTION TO STATISTICS
This course is an introduction to statistics and how it may be applied in the analysis of numerical data. It includes the following topics: structure of data sets, central tendency, dispersion, means, standard deviation, correlation, regression, binomial and normal probability distributions, sampling methods and hypothesis testing. Prerequisite: completion of MATH 095 with a 2.0 or higher, or placement by COMPASS or Math Placement Test. Purchase text through the RTC Bookstore (425-235-2323, bookstore.rtc.edu).

BELLEVUE COMMUNITY COLLEGE

MATH 130  Introduction to Statistics
Emphasis on gathering and interpreting data. Material has applications in the medical fields, as well as the Social Sciences. Fulfills the quantitative or symbolic reasoning course at BCC. Prerequisite: Placement by assessment or MATH 099 with a C- or better.

BA 240  Statistical Analysis
Surveys techniques used in decision-making and research. Topics include descriptive and inferential statistics, probability, central tendency, variability, normal and t-distributions, hypothesis testing, and regression. Material has applications in business, health care, etc. Prerequisite: MATH 138 or MATH& 142 with a C- or better, or entry code.

CASCADIA COMMUNITY COLLEGE

MATH& 146  INTRO TO STATISTICS  (Formerly Math 136)
Introduction to statistical methods and applications; organization of data, sampling, testing hypotheses, confidence intervals, regression, correlation. Graphing calculator required. Read the statement preceding the mathematics day classes before you buy a calculator. Prerequisite: MATH 090 or equivalent with a grade of 2.0 or higher, or appropriate score on math placement test.

CITY UNIVERSITY

BC 303  Interpreting Statistics and Data
This course focuses on the usefulness and limitations of statistical processes and their present day applications. The techniques addressed are descriptive statistics, probability theory and distributions, sampling, hypothesis testing, regression, and correlation models.

EDMONDS COMMUNITY COLLEGE

MATH 146  INTRO TO STATISTICS
(Formerly MATH& 240)
Introduction to statistical methods and applications; organization of data, sampling, testing hypotheses, confidence intervals, regression, correlation. Graphing calculator required. Read the statement preceding the mathematics day classes before you buy a calculator. Prerequisite: MATH 090 or equivalent with a grade of 2.0 or higher, or appropriate score on math placement test.

EVERETT COMMUNITY COLLEGE

MATH& 146  Introduction to Statistics  (Formerly MATH& 240)
(Q, NS) Introductory course. Descriptive methods, probability, sampling distributions, hypothesis testing, confidence intervals, correlation, ANOVA, chi-square tests. For students in any major. (Formerly MATH 281) Prereq: MATH 138 or MATH& 141 with a grade of C (2.0) or higher OR placement in MATH& 146 or higher via an assessment test score OR permission of a math instructor.
## HIGHLINE COMMUNITY COLLEGE

**MATH 146  Elements of Statistics**  
Prerequisite: Math 097 or Intermediate Algebra ASSET score of 45 or COMPASS Algebra score of 71. Measures of central tendency; probability; binomial, and normal distributions; sampling theory; hypothesis testing; analysis of variance; analysis of paired data.

## NORTHEAST SEATTLE COMMUNITY COLLEGE

**MATH 109  Elementary Statistics**  
Covers descriptive methods, probability and probability distributions, samples, decisions, hypothesis testing, statistical inferences, analysis of variance and regression, applications. Prereq: MAT 098

**BUS 210  Business and Economic Statistics**  
PREREQ: Completion of MAT 098. ENG 101 strongly recommended, or permission of instructor. Statistical tools and their application in business decision-making. Topics include data types and description, measures of central tendency and dispersion, probability, sampling, estimation, hypothesis testing, linear regression and correlation, analysis of variance, and index numbers.

## OLYMPIC COLLEGE

**MATH& 146  Introduction Statistics**  
Applications of statistics in the context of various fields; descriptive statistics, linear correlation and regression, probability, sampling, the Normal distribution, confidence intervals, hypothesis testing.

## SEATTLE CENTRAL COMMUNITY COLLEGE

**MATH 109  Elementary Statistics**  
Covers descriptive methods, probability and probability distributions, samples, decisions, hypothesis testing, statistical inferences, analysis of variance and regression, applications. Prereq: MAT 098

## SEATTLE COMMUNITY COLLEGES (NORTH – CENTRAL – SOUTH)

**MATH 109  Elementary Statistics**  
Covers descriptive methods, probability and probability distributions, samples, decisions, hypothesis testing, statistical inferences, analysis of variance and regression, applications. Prereq: MAT 098

**BUS 210  Business and Economic Statistics**  
PREREQ: Completion of MAT 098. ENG 101 strongly recommended, or permission of instructor. Statistical tools and their application in business decision-making. Topics include data types and description, measures of central tendency and dispersion, probability, sampling, estimation, hypothesis testing, linear regression and correlation, analysis of variance, and index numbers.

## SHORELINE COMMUNITY COLLEGE

**MATH 146  Introduction to Probability and Statistics**  
Analysis of data through graphical and numerical methods, linear regression, the normal distribution, data collection, elementary probability, confidence intervals and hypothesis testing. Emphasis on applications. Previously MATH 108. Prerequisite: Math 099 (2.0 or better) or Math 097 AND Math 098 (2.0 or better) or a score of 85 or higher on the Algebra COMPASS test AND placement into English 100 or ESL 100. Student option grading.

## SOUTHEAST COMMUNITY COLLEGE

**MATH 109  Elementary Statistics**  
Covers descriptive methods, probability and probability distributions, samples, decisions, hypothesis testing, statistical inferences, analysis of variance and regression, applications. Prereq: MAT 098

**BUS 210  Business and Economic Statistics**  
PREREQ: Completion of MAT 098. ENG 101 strongly recommended, or permission of instructor. Statistical tools and their application in business decision-making. Topics include data types and description, measures of central tendency and dispersion, probability, sampling, estimation, hypothesis testing, linear regression and correlation, analysis of variance, and index numbers.

## TACOMA COMMUNITY COLLEGE

**MATH& 146  Introduction to Statistics**  
(Formerly MATH 108) Introduction to the basic principles of probability, descriptive statistics, and inferential statistics. Topics include properties of probability, graphical and tabular summaries of data, measures of central tendency and variability, probability distributions, confidence intervals, hypothesis testing, and linear regression. Prerequisite: MATH 097 or TMATH 100 or MATH 099 with a “C” or higher or assessment above MATH 099; READ 095 with a “C” or higher or assessment above READ 095.