Course information
Course code: 2100
# credits: 5
Location: PIGT, RM 328
Class   M, W 3:40-5:45 pm
First session:  M 1/8/2019
Last session:  Th 3/23/2019

Instructor information
Instructor: Elise Murowchick, Ph. D.
Phone: 206.220.8521
Email: murowche@seattleu.edu
Office  HRDG Rm 140Q
Office hours:   M 1:30-2:30 pm, TH  2:00-3:30 pm
If these times do not work, please email to arrange
an appointment outside office hours.

COURSE DESCRIPTION

Economics 2100 introduces statistical concepts, procedures, and computer applications used in business and economics. The topics covered include descriptive statistics, probability, random variables, sampling, statistical inference, confidence intervals, and hypothesis testing. Prerequisites for this class are successful completion of a course in calculus (MATH 1130, 1331, 1334, or equivalent), and sophomore standing.

COURSE OBJECTIVES
Successful students in the class will learn to:

1. Understand and use fundamental concepts of probability and statistics.
2. Describe and analyze qualitative and quantitative data.
3. Use Microsoft Excel to organize and work with data.
4. Use data to answer empirical questions.
5. Critically evaluate statistical findings.
6. Communicate the results of statistical analysis accurately and concisely.
7. Appreciate the complexities involved in producing and interpreting statistical information.

MATERIAL
2. We will be using Microsoft Excel to analyze data. Seattle U now offers free MS Office to students. The download is available at http://office.com/getoffice365.
3. Course materials, including course handouts, problem sets, and community research project materials, will be distributed in class and/or made available on the Canvas website: https://seattleu.instructure.com/login.
4. Please bring a calculator to each class to work practice problems. Quizzes and exam will require a calculator (calculators on phones are not permitted for quizzes/exams.
Assignments, Quizzes, and Exams
In addition to reading the relevant chapters of the textbook, assignments include recommended problem sets for each chapter; class and online discussions of case studies, statistical applications, newspaper and magazine articles, homework problems, and other issues; and three projects based on statistical applications. I will post recommended problems, links to assigned articles, and online discussion prompts on Canvas. The projects based on statistical applications require you to determine which statistics are relevant, generate these statistics with Microsoft Excel, and interpret and communicate your results in a clear and professional manner to a non-technical audience. Please submit these assignments on Canvas prior to the start of class. I cannot accept papers following our in-class discussion. The first assignment includes two components due on different dates.

The course includes six quizzes and two exams. Quizzes and exams may not be rescheduled.

Grading
Quizzes (Best Five) 15%
Exams 45%
Projects 30%

Participation in Class and Online Discussions 10%

Academic Honesty
In keeping with the mission of the school and university, students are expected and required to conform to the norms of academic honesty. Academic misconduct will be dealt with harshly. Academic misconduct includes (but is not limited to) using unauthorized written or electronic materials on a quiz or exam, copying another student’s quiz or exam or allowing another student to copy yours, and passing off someone else’s writing or ideas as your own in writing assignments. Possible consequences for academic misconduct range from zero credit on an assignment to failing the class.

Special Accommodations
If you have, or think you may have, a disability (including an ‘invisible disability’ such as a learning disability, a chronic health problem, or a mental health condition) that interferes with your performance as a student in this class, you are encouraged to arrange support services and/or accommodations through Disabilities Services staff in the Learning Center. Disability-based adjustments to course expectations can be arranged only through this process.

Use of Technology
With the exception of two Microsoft Excel practice sessions, you are not allowed to use laptops, cell phones, or similar forms of technology during class. Surfing the web, texting, and other uses are not permitted.

UNIVERSITY MISSION
Seattle University is dedicated to educating the whole person, to professional formation, to empowering leaders for a just and humane world.

GRADING SCALE
The following grading scale represents minimum grades for given per centages:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>94-100</td>
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<tr>
<td>A-</td>
<td>90-93</td>
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<tr>
<td>A</td>
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<td>B+</td>
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<td>B</td>
<td>84-86</td>
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<td>B-</td>
<td>80-83</td>
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<td>C+</td>
<td>77-79</td>
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<td>74-76</td>
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<td>C-</td>
<td>70-73</td>
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<td>D+</td>
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<td>64-66</td>
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<td>60-63</td>
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<tr>
<td>F</td>
<td>0-59</td>
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ACADEMIC RESOURCES
Significant campus resources are available to help you succeed:

1. The Library and Learning Commons. This includes Learning Assistance Programs (tutoring), Research Services, the Writing Center, and the Math Lab. More information here: http://www.seattleu.edu/learningcommons/.
2. The Academic Integrity Tutorial (found on Canvas and SU Online).
3. The Office of Information Technology. OIT helps with hardware and software issues, runs computer labs, and provides training and support. Information at www.seattleu.edu/oit; contact them at helpdesk@seattleu.edu or (206) 296-5517.

ACADEMIC POLICIES
See https://www.seattleu.edu/redhawk-axis/academic-policies/.

1. Academic Integrity Policy.
2. Academic Grading Grievance Policy.
3. Professional Conduct Policy.

NOTICE FOR STUDENTS CONCERNING DISABILITIES
If you have, or think you may have, a disability (including an ‘invisible disability’ such as a learning disability, a chronic health problem, or a mental health condition) that interferes with your performance as a student in this class, you are encouraged to arrange support services and/or accommodations through Disabilities Services staff located in Loyola 100, (206) 296-5740. Disability-based adjustments to course expectations can be arranged only through this process. If the accommodation of a disability involves taking quizzes or exams outside of class, please make arrangements at least one class period before the quiz or exam.

OFFICE OF INSTITUTIONAL EQUITY
Title IX of the Education Amendments of 1972 (Title IX) prohibits discrimination based on sex in educational programs or activities that receive Federal financial assistance. This prohibition includes sexual misconduct, which encompasses sexual harassment and sexual violence. Seattle U remains committed to providing a safe and equitable learning, living, and working environment. Seattle U offers emergency, medical, and other support resources, as well as assistance with safety and support measures, to community members who have experienced or been impacted by sexual misconduct. Seattle University requires all faculty and staff to notify the University’s Title IX Coordinator if they become aware of any incident of sexual misconduct experienced by a student. For more information, please visit https://www.seattleu.edu/equity/. If you have any questions or concerns, you may also directly contact the Title IX Coordinator in the Office of Institutional Equity (email: oie@seattleu.edu; phone: 206.296.2824) University Resources and Policies
## Schedule:
All dates are subject to change. Students are responsible for changes announced in class.

<table>
<thead>
<tr>
<th>week</th>
<th>date</th>
<th>Content</th>
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<tbody>
<tr>
<td>1</td>
<td>Mon. Jan. 7</td>
<td>Course Overview</td>
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<tr>
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<td>Chapter 1: An Introduction to Statistics</td>
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<td>Chapter 2: Descriptive Statistics I</td>
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<td></td>
<td>Wed. Jan. 9</td>
<td>Chapter 2: Descriptive Statistics I</td>
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<td>2</td>
<td>Mon. Jan. 14</td>
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<td>Chapter 3: Descriptive Statistics II</td>
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<td>Wed. Jan. 16</td>
<td>Excel Practice Session</td>
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<td>Chapter 4: Probability</td>
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<td>Fri. Jan 18</td>
<td>Project 1: Data dating part 1</td>
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<td>3</td>
<td>Mon. Jan. 21</td>
<td>MLK</td>
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<td>Wed. Jan. 22</td>
<td>Example: Statistical Tables</td>
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<td>Chapter 4: Probability</td>
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<td>4</td>
<td>Mon. Jan 28</td>
<td>Quiz 2</td>
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<td>Wed. Jan. 30</td>
<td>Chapter 5: Discrete Probability Distributions</td>
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<td>Class Discussion</td>
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<td>5</td>
<td>Mon. Feb. 4</td>
<td>Quiz 3, Project 1: Data dating part 2</td>
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<td>Wed. Feb. 6</td>
<td>Chapter 6: Continuous Probability Distributions</td>
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<td>Example: Statistical Tables</td>
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<td>Chapter 7: Statistical Inference</td>
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<td>6</td>
<td>Mon. Feb. 11</td>
<td>Exam 1</td>
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<td>Wed. Feb. 13</td>
<td>Project 2: Data, what does it mean, report and a letter</td>
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<td>7</td>
<td>Mon. Feb. 18</td>
<td>Presidents' Day</td>
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<td>Wed. Feb. 20</td>
<td>Chapter 7: Statistical Inference</td>
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<td>Chapter 8: Interval Estimates for Proportions, Mean etc.</td>
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<td>8</td>
<td>Mon. Feb. 25</td>
<td>Quiz 4</td>
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<td>Chapter 8: Interval Estimates for Proportions, Mean etc.</td>
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<td>Chapter 9: Statistical Hypothesis Testing</td>
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<td>9</td>
<td>Mon. Mar. 4</td>
<td>Quiz 5</td>
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<td>Wed. Mar. 6</td>
<td>Chapter 10: Hypothesis Tests for Proportions, Mean</td>
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<td>Excel Practice Session 2</td>
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<td>10</td>
<td>Mon. Mar. 11</td>
<td>Synthesis</td>
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<td>Wed. Mar. 13</td>
<td>Quiz 6</td>
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<td>Project 3</td>
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<td>11</td>
<td>Mon. Mar. 18</td>
<td>Class Discussion and Review</td>
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<td>Wed Mar. 20</td>
<td>4:00-5:50 pm Exam 2</td>
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