Instructor: Teresa Ling, Ph.D.
Office: Pigott 313
Phone: 296-5720 (direct line & voice mail)
Fax: 296-5795 (Front Desk)
E-mail: tling@seattleu.edu

Office Hrs: Tuesday 9:00am-10:00am & Wednesday 1:00pm-2:00pm
or any time you find me in my office or email me to set up an appointment

Objectives: This course continues the development of student’s quantitative skills. Topics include simple and multiple regressions, analysis of variance, and an introduction to linear programming models. Students will be required to apply the techniques learnt in modeling and solving business situations with the help of computer packages EXCEL, SAS, and to be able to effectively communicate results to manager.

Prerequisite: An introductory course in statistics, ECON2100 or equivalent.

A copy of this textbook is on reserve at the Library.
If you have Anderson/Sweeney/Williams, “Essentials of Statistics for Business and Economics” 5th Edition, it will be fine too.

Grading:

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<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>4 Quizzes on Homework Assignments</td>
<td>10%</td>
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<tr>
<td>Cases (due 5/8 &amp; 6/7) &amp; Peer Review (due 5/15)</td>
<td>35%</td>
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<td>Midterm Exam (5/22)</td>
<td>25%</td>
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<tr>
<td>Final Exam (6/11)</td>
<td>30%</td>
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No Make-Up Quizzes and No late works accepted without prior approval from the instructor.

You are guaranteed to be awarded an A grade for this course if you get at least 95% overall; at least a B grade if over 84%, and at least a C grade if over 68%.
Academic Resources

- Library and Learning Commons (http://www.seattleu.edu/learningcommons/)
  (This includes: Learning Assistance Programs, Research [Library] Services, Writing Center, Math Lab)
- Academic Integrity Tutorial https://www.seattleu.edu/academic-integrity/resources-for-students/

Academic Policies on Registrar website (https://www.seattleu.edu/redhawk-axis/academic-policies/)
  - Academic Integrity Policy
  - Academic Grading Grievance 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.

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 U 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
<table>
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<tr>
<th>Date</th>
<th>Topics/Assignment</th>
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| 4/1 M  | Read Overview from Canvas before today’s class  
Review of Basic Statistics, ASW Ch. 6 - Ch. 9  
Homework Assignment# 1: Exercises 6.40, 6.43, 7.43, 7.46, 8.45, 8.52, 9.60, 9.63. |
| 4/3 W  | Complete the Introduce Yourself assignment, and complete the videos on Introduction and Review of Basic Statistics before 4/5 |
| 4/5 F  | Continue review of Basic Statistics |
| 4/8 M  | Continue Review of Basic Statistics |
| 4/10 W | Simple Linear Regression, ASW Ch.14  
14.1 Simple Linear Regression Model  
14.2 Least Squares Method  
14.3 Coefficient of Determination  
Homework Assignment #2: Exercises 14.6, 14.9, 14.13, 14.18. |
| 4/12 F | Continue Simple Linear Regression, ASW Ch.14  
14.4 Model Assumptions  
14.5 Testing for Significance  
Homework Assignment #3: Exercises 14.66, 14.61, 14.63, 14.47  
Complete the YouTube videos on EXCEL and SAS for Regression output. |
| 4/15 M | Quiz #1 on Homework Assignment #1 (review chapters 6, 7, 8 & 9)  
Continue Simple Linear Regression, ASW Ch.14 |
| 4/17 W | Continue Simple Linear Regression, ASW Ch. 14  
14.6 Using the Estimated Regression Equation for Estimation and Prediction  
14.8 Residual Analysis: Validating Model Assumptions |
| 4/19 F | Good Friday (No Class) |
| 4/22 M | Easter Holiday (No Class) |
| 4/24 W | Online Session Today.  
Data Visualization (Please read the module on Data Visualization on CANVAS) |
| 4/26 F | Online Session Today.  
Multiple Regression, ASW Ch. 15 (Please read the module on Multiple Regression  
15.1 Multiple Regression Model,  
15.2 Least Squares Method,  
Homework Assignment #4: Exercises 15.5, 15.9, 15.15, 15.23 |
4/29 M  **Review of Simple Regression**  
*Discuss Case 1* (finalize grouping for Case 1 -- 3 or 4 students per group)  
Continue Multiple Regression  
15.3 Multiple Coefficient of Determination  
15.4 Model Assumptions  
Homework Assignment #5: Exercises 15.23, 15.25, 15.29, 15.30, 15.57

5/1 W  Continue Multiple Regression  
15.5 Testing for Significance  
15.6 Using the Estimated Regression Equation for Estimation and Predication

5/3 F  **Quiz 2** on Homework Assignment #2 and #3 (Simple Regression)  
The group working on Case 1 in class

5/6 M  **Qualitative Independent Variables & Interaction Variables**  
Homework Assignment #6 Supplemental Exercises on Qualitative Variables

5/8 W  **Hardcopy of Case 1 group reports due today at 7:45am in class**  
Continue Qualitative Independent Variables

5/10 F  **Case 1 Peer Review assigned**  Individual Peer Review reports due Wednesday 5/15  
Continue Qualitative Independent Variables

5/13 M  **Analysis of Variance (ANOVA)**  
Homework Assignment #7 Supplemental Exercises on ANOVA

5/15 W  **Individual Case 1 Peer Review reports due today by 7:45am**  
**Quiz #3** on Assignment #4 & #5 materials (Multiple Regression)

5/17 F  Continue ANOVA

5/20 M  **Review for Midterm Exam** (Simple & Multiple Regression models)

5/22 W  **Midterm Exam** (Review Chapters, Simple Regression & Multiple Regression)

5/24 F  **Linear Programming Models –Formulations & Graphical Solutions**  
Homework Assignment #7 Supplemental LP Exercises

5/27 M  **Linear Programming Models –Sensitivity Analysis**

5/29 W  Review of Linear Programming formulations and sensitivity analysis

5/31 F  **Linear Programming Models (using EXCEL Solvers)**  
*Discuss Case 2 –finalize grouping (3 to 4 students in a group)*

6/3 M  **Work on Case 2 in class** (Hard Copy of Case Report due 7:45am 6/7)
6/5 W  Review of Linear Programming formulation and Graphical Solutions

6/7 F  Hard Copy of Case 2 report due today at 7:45am in class
       Quiz #4 on Linear Programming Exercises

6/10 M  Review for final exam (Multiple Regression, ANOVA & Linear Programming)

6/11 Tu  FINAL EXAM (8:00-9:50AM in PIGT 304)