Dr. Dean Diavatopoulos
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Email: cdiavato@gmail.com
Phone: 206.296.5692

Office Hours:
Tuesday, Thursday 6:00pm – 7:00pm, or by appointment

**COURSE DESCRIPTION:**
In this course students will learn quantitative concepts and techniques that are used to formulate and solve financial and business problems. Although students will develop models using Microsoft Excel, the concepts and techniques learned during the course are adaptable to other model building platforms. Topics covered include: Visualizing and Exploring Data, Statistical Measures, Regression Analysis, Forecasting Models, Simulation, Optimization, Decision Tree Analysis.

**PREREQUISITES:** Basic Excel skills, and math skills at the level of intermediate algebra.

**MATERIALS (required):**


Software: Microsoft Excel 2013.

Laptop computer: Windows running Excel 2013, or use the VMware Client.

- Even though many of the problems we will address can be solved using earlier versions of Excel, I strongly recommend that you purchase a copy of Excel 2013 or later. (Excel 2013 is installed in Albers School computers.)
- The textbook makes frequent use of tools included in Analytic Solver Platform for Education (ASPE), developed by Frontline Systems. I will rely instead on tools that exist in standard Excel. Exams, cases and homework problems should be solved without recourse to ASPE.
COURSE ETIQUETTE AND REQUIREMENTS

• Please avoid late arrivals and early departures.
• Once in class, I expect you to stay in the classroom. Please take care of personal needs prior to class so you won’t feel an urgent need to walk out of the classroom in the middle of a lecture. This can be very distracting to your fellow classmates.
• Regular class attendance is essential for success in this course. Students are responsible for all material and assignments presented in class. If you miss a class, then it is your responsibility to obtain any missed lecture/class notes from a class colleague.

TECHNOLOGY USE POLICY

The use of cell phones in class is not allowed.
Audio and videotaping of any class session is strictly prohibited.

ACADEMIC HONESTY

Seattle University is committed to the principle that academic honesty and integrity are important values in the educational process. All students must comply with Seattle University policies for conduct and academic honesty at all times during this course.

The Seattle University Academic Honesty Policy can be found at the following address:

http://www.seattleu.edu/registrar/page.aspx?ID=87

Any violations of these policies will result in referral to the appropriate administrative body. If you are not sure whether a particular action is acceptable according to the Academic Honesty Policy you should check with the instructor before engaging in such an activity.

DISABILITIES

If you have, or think you 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, Loyola 100 (206) 296-5740. Disability-based adjustments to course expectations can be arranged only through this process.
GRADE DETERMINATION:
The total grade for the course is based on the following weights:

- Participation: 15%
- Case Project: 15%
- Exam 1: 35%
- Exam 2: 35%

The course letter grade will be assigned according to the following schedule:

- 95 – 100: A  
- 90 – 94.99: A-  
- 87 – 89.99: B+  
- 84 – 86.99: B  
- 80 – 83.99: B-  
- 77 – 79.99: C+  
- 74 – 76.99: C  
- 67 – 73.99: C-  
- 60 – 66.99: D  
- below 59.99: F

PARTICIPATION:
Includes attendance, in class discussion, weekly readings and assignments.

CASE PROJECT:
You will work in groups to analyze a business case using the tools and techniques introduced during the course. More details will be given in class and posted in a separate handout on the Canvas website. The project is due on the final exam date.

EXAMS:
There will be two exams total. The exams will consist of analytical problems and multiple-choice problems based on in class lectures, weekly readings and assignments. I will give a detailed exam review one week prior to each exam. There will be no makeup exams except in very rare circumstances (see Seattle University Handbook). In the event of illness or family emergency, official written documentation must be provided to the instructor.
COURSE OUTLINE
The course schedule is only tentative and I will announce changes as necessary. Therefore, you need to attend class and watch for announcements on the course website on Canvas.

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<th>Week</th>
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<td>Introduction to Financial Modeling and Analytics</td>
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<td>TVM, NPV, Bond Pricing and Yields</td>
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<td>Descriptive Analytics: Visualizing and Exploring Data, Statistical Measures, Probability</td>
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<td>Easter Break: No Class</td>
<td>Work on Case Project</td>
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<td>Predictive Analytics: Regression Analysis Exam 1 review</td>
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<td>Prescriptive Analytics: Decision Analysis with Uncertainty; Application to Mortgage Decisions Exam 2 review</td>
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