COURSE DESCRIPTION AND PREREQUISITES:
Quantitative formulation and solution of problems in various disciplines, including mathematics of finance, linear programming, probability, and differential calculus. G.E. Foundation B4.

PREREQUISITES: No student shall be admitted to DS 71 without taking the Entry Level Mathematics Test (ELM); students who do not pass the exam must record a grade of C or better in a college-taught intermediate algebra course. Students who are exempt must provide proof of exemption from the ELM test as detailed in the CSU Fresno General Catalog.

PRIMARY GOALS OF DS 71
This course is designed to provide students with the knowledge and skills necessary:
1. To familiarize the student with the mathematical concepts involved in the formulation and solution of various quantitative models. Applications will be developed in a variety of disciplines.
2. To motivate the student to utilize the powerful tools of quantitative analysis to sharpen his or her decision-making skills.
3. To appreciate the value of quantitative models in decision-making.
4. To appreciate some historical perspective on the development of key quantitative methods and associated tools.

REQUIRED MATERIALS
- Calculator with which you can perform: +, −, ⋅, ÷, e^x, y^x, ln x, √x, x̄, s or σ_{n-1}
- Graph paper

Students are required to bring paper, a pencil, the textbook, and a calculator to ALL class meetings.

EMAIL AND CLASS COMMUNICATION
You will need an @csufresno.edu email account. If you do not currently have an email address you can obtain a free email account on campus from the information desk in the Student Union Building or at http://email.csufresno.edu.
Students using non-csufresno.edu email accounts (such as "hotmail.com" or "aol.com") do so at their own risk. Non-csufresno.edu accounts may not handle attachments properly or may not pass the University’s spam filter. Emails not received by the instructor due to system problems will be considered late.

The subject line in emails sent to the instructor should start with the subject line – “DS 71 - course time” then the topic of the email. Replace the words course time with your section’s lecture time, i.e. DS 71 - 0800 MWF Homework Question.

ATTENDANCE
This course consists of textbook readings, web materials, lectures, in-class assignments, and homework. It is important that you avoid missing class sessions since some of the material may only be provided as part of a lecture.

If you are unable to attend class you must notify me before missing class. You should email me at robertgoulart@csufresno.edu or leave a message on my voice mail.

You should also obtain notes from a classmate for the day(s) you miss as the tests cover material from the class sessions as well as the textbook and Blackboard. Be sure to check on announcements regarding assignments made, changes in assignments, or changes in this syllabus (see the section titled SUBJECT TO CHANGE at the end of the syllabus). The Instructor does not guarantee that all information and announcements made in class will appear on Blackboard. It is your responsibility to check with a classmate.

Missed in-class assignments cannot be made up.

COURSE EVALUATION
Student evaluation in this course will be based on in and out of class assignments, announced and unannounced quizzes, 2 midterm exams, and a final exam.

Students are required to bring a pencil, the textbook, and a calculator to ALL class meetings. It is the student's responsibility to be able to operate the calculator efficiently.

Most students expect to rehearse in preparation for physical performances. Very few students bring the same preparation to mental performances. Learning is a complex process that is strengthened by practice. Each time you work a problem, different aspects of the problem become clearer, even though you move through the solution more quickly. In rehearsing a problem, you refine the mechanical procedures to the point that you begin to focus on the connections between the steps and the underlying logic of the solution.

Working problems is where most students learn. Your study of quantitative analysis will be greatly enhanced if you rehearse the problem sets by working problems several times.

The design of this course will regularly involve a considerable amount of student activity during the class meetings in the form of in-class assignments.
In-class assignments will be collected frequently and graded on a credit/no credit basis. Students who have completed the homework assignments conscientiously should find most of these exercises straightforward. **Unless a student’s absence is excused, in-class assignments may not be made up when missed.**

Homework assignments should be completed by the dates indicated. Homework may or may not be collected for grading on a credit/no credit basis. It is your responsibility to complete homework assignments and have them ready for possible submission on the day they are due.

**No late homework assignments will be accepted.**

Specific information for completing assignments will be given to you in class and on Blackboard.

- Homework serves a specific purpose. It allows you to learn and understand the skills taught in this class. It is NOT busy work.
- It is important that you complete each assignment by the due date. Falling behind or putting off the homework may add to your confusion and stress when you try to catch up all at once.
- You may work on the homework with other students. However, you are expected to prepare a completed copy in your own handwriting in case the instructor collects it. Photocopies of a group effort or another individual’s work will not be accepted.
- If you find that you are having problems understanding a section, the instructor recommends you complete additional problems in the textbook.

There are tentatively scheduled three (3) examinations during the semester. The instructor reserves the right to expand, cancel, or combine examinations if the pace of the course changes from that outlined on the attached Tentative Schedule. Dates are shown on the attached Tentative Schedule.

Unless a student’s absence is excused, exams may not be made up when missed. Prior consent means that the student has discussed known absences with the professor in advance of the date in question and alternate plans have been approved. **Placing a voice or electronic mail message to the professor in and of itself does not constitute prior consent.**

Calculators may not be shared during exams.

The final examination will be comprehensive and will be given when scheduled in the University’s Schedule of Classes. You must take your final exam during the time scheduled for your section unless prior approval of the instructor has been received.

**GRADING**

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<tr>
<th>Components</th>
<th>Scale</th>
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<td>Assignments</td>
<td>Over 90% = A</td>
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<td>Examinations</td>
<td>80-89% = B</td>
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<tr>
<td>Final Examination</td>
<td>70-79% = C</td>
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<td></td>
<td>60-69% = D</td>
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<tr>
<td>TOTAL</td>
<td>Below 60% = F</td>
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GRADING

Components

Assignments 15%
Examinations 60%
Final Examination 25%
TOTAL 100%
ACADEMIC HONESTY POLICY
“Cheating is the actual or attempted practice of fraudulent or deceptive acts for the purpose of improving one’s grade or obtaining course credit; such acts also include assisting another student to do so. Typically, such acts occur in relation to examinations. However, it is the intent of this definition that the term ‘cheating’ not be limited to examination situations only, but that it include any and all actions by a student that are intended to gain an unearned academic advantage by fraudulent or deceptive means.”

“Plagiarism is a specific form of cheating which consists of the misuse of the published and/or unpublished works of others by misrepresenting the material (i.e., their intellectual property) so used as one’s own work.”

Cheating and plagiarism will be dealt with according to the university policies. Penalties for cheating and plagiarism range from an F on the particular assignment, through an F for the course, to expulsion from the university. For information on the policies refer to the University Catalog or the University Schedule of Courses.

Examples of cheating and plagiarism are posted on the Student Affairs web page at http://studentaffairs.csufresno.edu/discipline/cheating.html. A few examples (but not all situations) of cheating and plagiarism include:
- Transmitting electronically to another student information during an exam period
- Using “cheat sheets” or “crib notes” during an exam unless allowed by the instructor
- Having someone else take an exam in your place
- Storing and/or accessing course subject matter in a calculator or computer that can be used during an exam period
- Sharing test questions with students in another section of the course
- Lying about the reason for not taking a test or submitting an assignment on time
- Allowing another student to copy from your test paper
- Employing signals to indicate answers on an exam to others

The instructor considers cheating and plagiarism to be SERIOUS academic and professional offenses. Do not jeopardize your career.

STUDENTS WITH DISABILITIES
Upon identifying themselves to the instructor, students with disabilities will receive reasonable accommodation for learning and evaluation. For more information, contact the University’s Services for Students with Disabilities Office (278-2811).

COURSE POLICIES
Students are required to not be working on other assignments during lectures. Information provided during lectures by the instructor or guest lecturers may appear on the exams or final.

Use of tobacco products of any type is strictly prohibited in the classroom.
ELECTRONIC DEVICES (CELL PHONES, PAGERS, ETC.)
As a courtesy to all, please turn off the sound on all cell phones and pagers while in class. If you must take a message please leave the classroom. If there is a reason you must have an electronic device on, please see me first.

No electronic devices will be permitted during tests.

It is proper professional etiquette to turn off cell phones and pagers while attending any type of meeting in the workplace. This is a sign of respect for the time of all participants and the importance of the meeting.

SUBJECT TO CHANGE
This Syllabus and Course Schedule are subject to change. Announcements regarding changes in assignments and/or the course schedule will be made in class. Students are encouraged to note the changes on this syllabus. If you are absent from class, it is your responsibility to check on announcements made while you were absent.
**TENTATIVE SCHEDULE AND ASSIGNMENTS**

Students are required to bring a pencil, the textbook, and a calculator to ALL class meetings.

<table>
<thead>
<tr>
<th>WEEK STARTING</th>
<th>TOPICS &amp; ASSIGNMENTS</th>
<th>NOTES AND HOLIDAYS</th>
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<tr>
<td>Aug 23</td>
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<td>Aug 30</td>
<td>Chapters 2.3, 2.4, 3.3, 12.2, 12.4</td>
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<tr>
<td>Sep 6</td>
<td>Review</td>
<td>Mon Sept 6, 2004 Labor Day</td>
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<td></td>
<td>Exam 1 Chapters 2, 3, 12</td>
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<tr>
<td>Sep 13</td>
<td>Chapters 4.1, 4.2, 4.3, 4.4</td>
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<td>Sep 20</td>
<td>Chapters 5.1, 5.2</td>
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<td>Sep 27</td>
<td>Chapters 5.3, 5.4</td>
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<td>Oct 4</td>
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<td>Exam 2 Chapters 4 &amp; 5</td>
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<td>Oct 11</td>
<td>Chapters 6.2, 6.3, 6.4</td>
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<td>Oct 18</td>
<td>Chapters 6.3, 6.4, 7.1, 7.2</td>
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<td>Oct 25</td>
<td>Chapters 7.3, 7.4, 7.5, 8.2, 8.3</td>
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<td>Nov 1</td>
<td>Chapters 8.4, 8.5</td>
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<td>Nov 8</td>
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<td>Nov 22</td>
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<td>Nov 29</td>
<td>Chapter 10.3</td>
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<td>Dec 6</td>
<td>Review</td>
<td>Dec 9 &amp; 10, 2004 Final exam preparation and faculty consultation days</td>
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<tr>
<td>Dec 13</td>
<td>Finals – Refer to the University Schedule of Courses for the Date &amp; Time</td>
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**Final Day and Time**

**SUBJECT TO CHANGE**

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