PREREQUISITES
You must be a Civil or Mechanical Engineering major and you must have at least a C- grade in MATH 031 to enroll in this class.

GENERAL COURSE AND SPECIFIC LEARNING OBJECTIVES
In this class, we will examine the application of statistical methods to the analysis of engineering and physical systems. Data collection, characteristics of distributions, probability, uses of normal distribution, regression analysis, and decision-making under uncertainty will be studied.

REQUIRED TEXTBOOK

EVALUATION OF STUDENT PERFORMANCE
Grades will be assigned as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance and Participation</td>
<td>5%</td>
</tr>
<tr>
<td>Quizzes (4)</td>
<td>20%</td>
</tr>
<tr>
<td>Exams (2)</td>
<td>40%</td>
</tr>
<tr>
<td>Final Exam (1)</td>
<td>35%</td>
</tr>
<tr>
<td><strong>TOTAL</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

**Attendance and Participation – 5%**
Class attendance is mandatory for this course. You will be permitted to miss three classes during the semester. This course is best enjoyed with active student participation and interaction. Students are expected to act in a professional manner, and persistent disruptions in class can also affect your participation grade.

**Quizzes (4) – 20% (5% each)**
There will be four scheduled quizzes throughout the semester in the 3rd, 7th, 9th, and 12th week of class. These quizzes are designed to emphasize the material covered in lectures and homework assignments and should provide some feedback between exams.

**Exams (2) – 40% (20% each)**
There will be two “midterm” exams around the fifth (October 3, 2013) and tenth (November 7, 2013) weeks of the semester. These exams will be conducted during class time.

**Final Exam (1) – 35%**
The final exam will be a two-hour exam scheduled for Thursday, December 19, 2013 from 8:00 – 10:00 am. The final exam will be cumulative covering all 15 weeks of the semester, but will emphasize on material not covered on the two exams.

COURSE POLICIES

Attendance and Etiquette: Classroom attendance and professional behavior are required of all class participants during all aspects of the course. Coming to the class late is a form of class disturbance. Chitchatting disturbs the class too. Please silence your mobile communication devices while in class. “Sorry, I forgot to turn it off” will not suffice. Use of a cell phone or texting is not allowed during the class. Non-adherence to these policies will affect your final grade.

Calculator Policy: Only current FE/EIT approved calculators will be allowed during in-class exams. Use of an unapproved calculator will be considered an act of academic dishonesty. Per Civil Engineering Department Calculator Policy, the only calculators allowed for quizzes and exams are:

- Casio: All fx-115 models; any Casio calculator with fx-115 in its model name is allowed.
- Hewlett Packard: The HP 33s and HP 35s models are allowed. No other Hewlett Packard models are allowed.
- Texas Instruments: All TI-30X and TI-36X models are allowed; any Texas Instruments calculator with TI-30X or TI-36X in its model name is allowed.

Mobile communication devices may not be substituted for calculators and are strictly prohibited from all quizzes and exams. See http://www.ecs.csus.edu/wcm/ce/policies.html.

Make-up exams and quizzes: Make-up exams or quizzes will not be given except in unusual cases beyond the student’s control (e.g. medical emergencies). Grades will be given at the end of the semester based only on the work completed during the semester.

Collaboration: You are encouraged to do homework assignments with a classmate. The goal of the homework is for you to learn the concepts of the course, and you will be asked to demonstrate your knowledge of these concepts on quizzes and exams. It will be in your best interest to understand all of the assigned problems, even if collaborating with other individuals.

Communication: Some features of this course, like homework solutions, will be available on SacCT (http://online.csus.edu). You must have a working SacLink account to access SacCT. If you do not have a SacLink account, you can apply for one on-line (http://www.csus.edu/saclink) or by visiting the second floor of the AIRC Building.

For more technical/conceptual questions requiring thorough explanation or discussion, please see me after class or during office hours. If you cannot attend office hours, you are encouraged to e-mail me directly (ghazan.khan@csus.edu) to schedule an appointment.¹

Disability Access: If you have a disability and require accommodations, please provide disability documentation to SSWD, 1008 Lassen Hall, (916) 278-6955. Please discuss your accommodation needs with me during the first week of the semester.

¹ Please use professional e-mail etiquette and grammar when corresponding with University faculty and staff. We are here to help you develop both your engineering skills as well as your communication skills.