

# Engineering Mathematics

## **MATH 3321** **Online Course**

Instructor: Krešimir Josić  
Office: PGH 624  
Office Hours: By appointment  
Telephone: (713) 743-3485 (Office)  
e-mail: *josic@math.uh.edu*

For further course information log into WebCT at <http://scholar.uh.edu/webct>

### **Prerequisites:**

MATH Math 1432: Calculus II

### **Text:**

A textbook for the course can be found online.

### **General Remarks:**

This is an online course. All required materials can be found online by logging into WebCT.

This course introduces several mathematical techniques of particular use in engineering and modeling. The main part of the course is devoted to differential equations.

### **Topics Covered:**

Differential equations of different orders and methods of solution, linear algebra and Laplace transforms.

### **How to get in touch with me:**

The best way to get in touch with me is by e-mail. Please make sure to make your questions as precise as possible. The more you think about the problem before you email me, the more useful my answer will be.

*Important:* Please start the subject line of emails about the class with "MATH 3321:" I receive a good number of emails each day, and this will ensure that your message is answered promptly.

Please do not expect instantaneous responses to your emails. However, I will make every effort to answer any message you send within 24 hours.

### **What you should do each week:**

Check your email at least a few times each week. Check the announcements on your WebCT page.

Make sure to read the assigned material each week.

Make sure to take the quiz within the assigned period (see below).

Make sure to register for upcoming exams (see below).

Turn in any homework.

### **Help Sessions:**

You will find a link from the WebCT to the Live Classroom. This is where weekly help sessions will be held. It is important that you run setup wizard to make sure you have all the necessary plug ins to be able to hear me and see what I am writing. **Important:** If you are accessing the Live Classroom from a computer you have not used before, run the wizard again!

### **Exams:**

**I will be sending out a quiz and exam schedule separately. I will also send weekly announcements that will inform you about what quizzes and exams are coming up**

There will be 3 exams and a final during the semester. You will be required to take exams in CASA. To take the exam you will need to register for it on the CourseWare page – see link on the course WebCT page.

**Quizzes:**

You will be taking quizzes online. You will need to log into CourseWare to take your quizzes – see link on the course WebCT page. Each quiz will be up for about 6 days. You have can take the quiz as many times as you want during this time, and your highest score will be recorded.

**Homework:**

Homework will be assigned approximately every two weeks. You will need to send the assignment to me as an attachment by email, and I need to receive it by the deadline. I will accept either pdf files or Word documents.

Scanners that produce good quality pdf files are inexpensive. You may consider getting one for the course.

**Grades:**

Grades will be assigned on the following basis:

- 300 points      determined by exams 1, 2 and 3 (100 points each)
- 200 points      determined by quizzes [WebCT]
- 200 points      determined by the final exam
- 100 points      determined by homework
- 700 points total

The final exam is cumulative.

**Attendance:**

As this is an online course, there are no required classes to attend. I will hold weekly help sessions, as well as review sessions before each exam. I encourage you to attend these sessions.

**Academic Honesty:**

Dishonesty includes cheating on your homework, falsifying data, and misrepresenting the work of others as your own (plagiarism). I will take all instances of academic dishonesty very seriously. I urge you to read the sections of the student handbook discussing academic dishonesty and the disciplinary actions it entails.