

## CE 362N ADVANCED STEEL DESIGN Fall 2007

**Instructor:** Michael D. Engelhardt  
**Offices:** Campus: ECJ 4.730  
Ferguson Laboratory  
**Phone Numbers:** 471-4592 (Campus)  
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**Campus Office Hours:** Mondays: 10am – noon  
Wednesdays: 9 – 10am  
Fridays: 11am – noon and 2 – 3pm

**Prerequisites:** CE 335 – Elements of Steel Design (or equivalent)

### Required Books:

*Steel Construction Manual*, 13<sup>th</sup> Edition, American Institute of Steel Construction  
(See attached instructions to purchase this book at the student discount price)

### Topics:

1. Introduction and Review of Basic Steel Design
2. Second Order Analysis and Members Under Combined Axial Load and Bending
3. Composite Beams
4. Plate Girders
5. Connections

**Project:** This course will include a major design project. Students will work in teams. Each team will be required to submit a report and drawings near the end of the semester, and make a presentation on their design.

**Grading:** Two Exams @ 27.5% = 55 %  
Project = 30 %  
Homework = 15 %

Make-up exams will not be given without approval from the instructor prior to regular exam.

**Course Drop Dates:**

From the 1st through the 12th class day, an undergraduate student can drop a course via the web and receive a refund if eligible. From the 13th through the 20th class day, an automatic Q is assigned, no refund; approval from the Dean and departmental advisor is required. From the 21st class day through the mid-semester deadline, approval is required from the Dean, instructor of the course and departmental advisor.

**Final Exam Period:** Monday, December 17; 2-5pm (Final exam period will be used for project presentations)

**Final Letter Grades:** 90-100 = A 80-89.9 = B 70-79.9 = C 60-69.9 = D <60 = F

**Course Website:**

Selected course information will be posted using the *Blackboard* System at <http://course.utexas.edu>. Information posted on this site will include copies of class handouts, homework assignments, solutions to homework assignments, and other items. Please refer to this website on a regular basis.

**Additional Information:**

Students will be given the opportunity to evaluate the instructor during the last week of class using the standard form provided by the Measurement and Evaluation Center.

The University of Texas at Austin provides, upon request, appropriate academic adjustments for qualified students with disabilities. Any student with a documented disability (physical or cognitive) who requires academic accommodations should contact the Services for Students with Disabilities area of the Office of the Dean of Students at 471-6259 as soon as possible to request an official letter outlining authorized accommodations. For more information, contact that Office, or TDD at 471-4641, or the College of Engineering Director of Students with Disabilities at 471-4321.

Web-based, password-protected class sites will be associated with all academic courses taught at the University. Syllabi, handouts, assignments and other resources are types of information that may be available within these sites. Site activities could include exchanging email, engaging in class discussions and chats, and exchanging files. In addition, electronic class rosters will be a component of the sites. Students who do not want their names included in these electronic class rosters must restrict their directory information in the Office of the Registrar, Main Building, Room 1. For information on restricting directory information, see the undergraduate catalog or <http://www.utexas.edu/student/registrar/catalogs/gi00-01/app/appc09.html>.

Students who violate University rules on scholastic dishonesty are subject to disciplinary penalties, including the possibility of failure in the course and/or dismissal from the University. Since such dishonesty harms the individual, all students, and the integrity of the University, policies on scholastic dishonesty will be strictly enforced. For further information, visit the Student Judicial Services web site <http://deanofstudents.utexas.edu/sjs/>

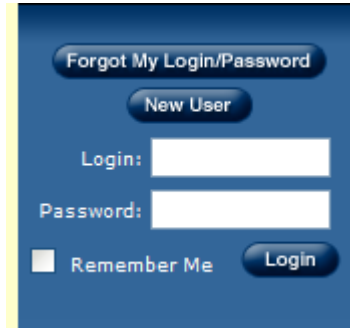
**Books on Reserve in the Engineering Library:**

1. AISC Steel Construction Manual, 13<sup>th</sup> Edition  
TA 684.A47 2005
2. Steel Design, 4<sup>th</sup> Edition  
William T. Segui  
TA 684 S424 2007

## Ordering Information for AISC 13<sup>th</sup> Edition Steel Construction Manual

AISC provides the 13<sup>th</sup> Edition Steel Construction Manual to students at a significantly discounted cost of \$120/copy. To obtain the discount, students must follow these steps:

Step 1: Visit the AISC website [www.aisc.org](http://www.aisc.org) and create a login by clicking the “New User” button in the middle of the screen near the Login and Password prompts. Fill out the form with the appropriate contact information. This will include a unique login name as well as the password you will use to log in to the AISC site.



Step 2: After you have created a login, type in the following web address:

[www.aisc.org/OrderStudentManuals](http://www.aisc.org/OrderStudentManuals)

Select the Manual: Steel Construction Manual, 13<sup>th</sup> Edn - \$120 w/ Discount (don't worry about the \$400 price that may be listed on the first window.) By clicking on the hyperlink you will be taken to a new window with a picture of the manual. Click the button: “Add to Shopping Cart”. You will be transferred to a new window. In the middle of the screen is a prompt:

**Have a coupon code? Enter it here:**

NOTE: Confirm your coupon has been applied on the checkout page.  
Coupons can not be applied retroactively.

The Coupon Code is: 4CUHeOXKaW

Once the Coupon Code is entered click the **Proceed With Checkout** button and the price should be shown as \$120.

Step 3: Enter your credit card information and select **Complete Order**. Print out the resulting page or the email confirmation that is sent to have a receipt for your purchase.

Step 4: Take the receipt to Barbara Yates in ECJ 4.700 who will provide you with your Manual.