


### What is CIVL 3131?

"Engineering is the art of molding materials we do not wholly understand, into shapes we cannot precisely analyze so as to withstand forces we cannot properly assess, in such a way that the public has no reason to suspect the extent of our ignorance."

Dr. A.R. Dykes, British Institution of Structural Engineers (1976).

This quote encapsulates a key aspect of structural engineering, highlighting the balance between theoretical knowledge and practical application

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### What is CIVL 3131?

**Course Title: Design of Steel Structures**

**Course Description:**

*Current design concepts for structural steel members and their connections.*

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### What is CIVL 3131?

**Prerequisites:** CIVL 3121 - Structural Analysis I  
CIVL 3322 - Mechanics of Materials

**Course Meetings:**

Monday/Wednesday; 12:40 - 2:05 ES 116

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### What is CIVL 3131?

**Instructor:**


Dr. Charles Camp, Office: ES 106B  
Phone: 678-3169 (office)  
Email: cvcamp@memphis.edu

**Office hours:**

An "open door policy" or by appointment

**Class web site:** [www.ce.memphis.edu/3131](http://www.ce.memphis.edu/3131)

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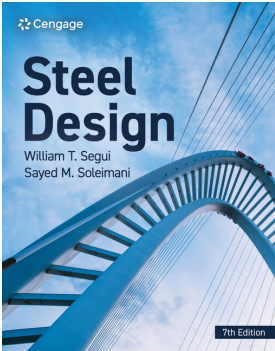


### What is CIVL 3131?


**Required Textbooks:**

**Steel Design**  
William T. Segui and Sayed M. Soleimani  
7<sup>th</sup> Edition  
Cengage, 2026

ISBN: 979-8-214-01222-3




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### What is CIVL 3131?

**William T. Segui**  
Professor Emeritus of Civil Engineering  
The University of Memphis  
(May 24, 1938, to Dec 20, 2021)




- Ph.D. in Civil Engineering, University of South Carolina, 1971
- M.S. in Civil Engineering, University of South Carolina, 1966
- B.S.C.E, University of South Carolina, 1960

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## What is CIVL 3131?

**William T. Segui**  
 Professor Emeritus of Civil Engineering  
 The University of Memphis  
 (May 24, 1938, to Dec 20, 2021)



- Began at The University of Memphis in the Fall of 1968, retired in the Spring of 2011.
- Steel Design** is one of the top-rated books for undergraduate students in the USA.

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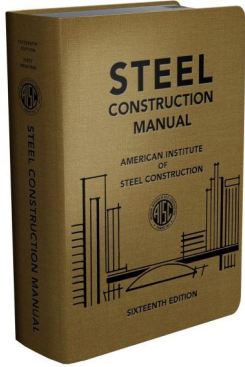


## What is CIVL 3131?


*Required Textbooks:*

**Steel Construction Manual**  
 16<sup>th</sup> Edition  
 AISC, 2023

ISBN: 978-1-56424-116-0



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## What is CIVL 3131?

### Course Learning Outcomes

Course Learning Outcomes	POs*	Assessment Tools
1. Analyze and design steel tension members	1	Homework, quizzes, and exam
2. Analyze and design steel compression members	1, 2, 3, 6	Homework, quizzes, and exam
3. Analyze and design steel beams	1	Homework, quizzes, and exam
4. Analyze and design simple steel connections	1	Homework, quizzes, and exam

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## What is CIVL 3131?

### Course Learning Outcomes

- An ability to identify, formulate, and solve engineering problems by applying principles of engineering, science, and mathematics.
- An ability to apply both analysis and synthesis in the engineering design process, resulting in designs that meet desired needs.
- An ability to develop and conduct appropriate experimentation, analyze and interpret data, and use engineering judgment to draw conclusions.
- An ability to communicate effectively with a range of audiences.
- An ability to recognize ethical and professional responsibilities in engineering situations and make informed judgments, which must consider the impact of engineering solutions in global, economic, environmental, and societal contexts.
- An ability to recognize the ongoing need for additional knowledge and locate, evaluate, integrate, and apply this knowledge appropriately.
- An ability to function effectively on teams that establish goals, plan tasks, meet deadlines, and analyze risk and uncertainty.

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## What is CIVL 3131?

### Grading

The final grades for the course will be based on the following percentages:

Components	Percentages
Homework	20%
Weekly Quizzes	20%
Mid-Term Exam	30%
Final Exam	30%

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## What is CIVL 3131?

### Grading

Final letter grades will be based on the following scale which reflects the percentages as noted above.

Exam/Homework	Grade
90-100	A
87-89	B+
84-86	B
80-83	B-
77-79	C+
74-76	C
70-73	C-
Below 70	F

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## What is CIVL 3131?

### Grading

- ▶ Regular attendance is necessary to maintain pace with the lectures and the class's progress.
- ▶ If you must be absent, please make sure you know the assignment for the following class meeting and turn in any work due that day.

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## What is CIVL 3131?

### Make-up Work

- ▶ Generally, if a student misses a quiz or an exam, a score of zero will be recorded.
- ▶ However, the student may be allowed to make up an exam if a valid reason for the absence is presented to the instructor at the next class meeting.
- ▶ If the student must miss an exam because of a conflict in their schedule, they must notify the instructor in writing at least two days before the absence.

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## What is CIVL 3131?

### Make-up Work

- ▶ To have your two lowest quiz scores two lowest homework scores excluded from your class average, join the Remind page of the class (remind.com) using the code **ce3131**.

**Remind**



CIVL 3131 s26  
@ce3131

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## What is CIVL 3131?

# Any questions?



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