

CCET 3709 - Structural Analysis 1

Fall 2026 Syllabus, Section 01, CRN 40815,

Credit hours: 3

Instructor

Robert Korenic

Email: rjkorenic@ysu.edu

Public Instructor Information

Instructor Title: Professor

Instructor Professional Qualifications:

Master of Science in Civil Engineering, Youngstown State University, 1999

Bachelor of Engineering in Civil Engineering, Youngstown State University, 1997

Instructor Office Location: Moser Hall 4132

Instructor Office Phone: 330-941-3288

Course Description

3709. Structural Analysis 1. Fundamental determination of member forces in trusses, beams, arches, frames and cables. Calculation of member stresses and deflections. Two hours lecture, three hours computational lab per week. Prereq.: ENTC 1505, MATH 1513 or MATH 1510 or MATH 1510C and MATH 1511 or MATH 1511C and CCET 2604, all with a grade of "C" or better. 3 s.h.

Course Readings

Group	Title	Author	ISBN
No Readings			

No required readings for this course.

The course readings are subject to change in the event of extenuating circumstances, research developments, current events, and/or to ensure better learning.

Schedule of Topics and Assignments

Week of	Proposed Topic	Due/To Prepare for Class
8/24	Equilibrium & Reactions	
8/31	Equilibrium & Reactions	
9/7	Trusses	
9/14	Trusses	
9/21	Trusses	
9/28	Arches & Cables	
10/5	Arches, Cables and Shear and Moment Diagrams	
10/12	Shear & Moment Diagrams	
10/19	Shear & Moment Diagrams	
10/26	Frames V & M Diagrams	
11/2	Frames V & M Diagrams	
11/9	Structural Loadings	
11/16	Structural Loadings	
11/23	Structural Loadings	

11/30	Additional Wind & Snow load methods
12/7	Additional Wind & Snow load methods

The course schedule, policies, procedures, and assignments in this course are subject to change in the event of extenuating circumstances, by mutual agreement, and/or to ensure better learning.