

CCET 2614L - Materials Laboratory 1

Fall 2026 Syllabus, Section 01, CRN 43016,

Credit hours: 2

Instructor

Joe Sanson

Associate Professor

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Public Instructor Information

Instructor Title: Associate Professor

Instructor Professional Qualifications: Masters of Science in Civil Engineering -Youngstown State University- 2013

Instructor Office Location: 4136 Moser Hall

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Course Description

2614L. Materials Laboratory 1. Use and care of testing equipment, data retrieval, data reduction and report preparation. Physical testing of metals, concrete, aggregates, asphalts, soils and woods. Three hours per week. Prereq or concurrent: CCET 2604. 1-2 s.h.

Course Readings

Group	Title	Author	ISBN
Required	Laboratory Materials		

A laboratory handout will be distributed for the required procedures for each lab session.

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

Day	Date	Proposed Topic	Due/To Prepare for Class
Thu	8/27	Introduction & Lab Orientation	
Thu	9/3	Tension Testing	
Thu	9/10	Distribute and Review Tension Test Data	
Thu	9/17	Charpy Impact Testing	
Thu	9/24	Hardness Testing	
Thu	10/1	Quiz # 1, Concrete Mix Design	
Thu	10/8	Mix concrete, Perform slump, air and Handout yield tests, Cast concrete test cylinders and beam (Groups A & B)	
Thu	10/15	Mix concrete, Perform slump, air and Handout yield tests, Cast concrete test cylinders and beam (Groups C & D), 7-day compression tests (Groups A & B)	
Thu	10/22	7-day compression tests (Groups C & D)14-day compression tests (Groups A & B)	
Thu	10/29	14-day compression tests (Groups C & D)	
Thu	11/5	28-day compression tests	
Thu	11/12	28-day compression tests	

Thu	11/19	Distribute and Review Concrete Data
Thu	11/26	Sieve Analysis
Thu	12/3	Wood Testing
Thu	12/10	Quiz # 2

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.