# CCET 2614L - Materials Laboratory 1

## Fall 2026 Syllabus, Section 02, CRN 40814,

Credit hours: 2

## 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 Room 4132
Instructor Office Phone: 330-941-3288

## 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 |
|---|---|---|---|
| | No Readings | | |

There are 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 | Intoduction with tensile lecture | |
| 8/31 | Tensile lab | |
| 9/7 | Hardness lab: Three methods with 3 samples | |
| 9/14 | Charpy Impact Energy Lab with 5 temperatures | |
| 9/21 | Soils Sieve Analysis lab | |
| 9/28 | Concrete lab preparation | |
| 10/5 | Concrete lab: Water/Cement ratio and curring - two mixes | |
| 10/12 | Break 7 Day curred samples & calculations | |
| 10/19 | Break 14 Day curred samples | |
| 10/26 | Break 21 Day curred samples | |
| 11/2 | Concrete lab calculations & graphs work session | |
| 11/9 | Concrete lab calculation working session | |
| 11/16 | Wood bending lab lecture | |
| 11/23 | Wood bending lab | |

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.