

## NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY CIV 229 – CONCRETE LABORATORY (1 CR.)

### **Course Description**

Focuses on mixing, curing, testing and quality control of concrete.  
Laboratory 2 hours per week.

### **General Course Purpose**

To acquaint the student with the methods and procedures for field and laboratory testing of concrete and constituent materials.

### **Course Prerequisites/Corequisites**

Corequisite: CIV 228.

### **Course Objectives**

Upon completion of this course, the student should be able to:

- understand the procedures and related specifications for the field and laboratory quality control testing of plastic concrete
- understand the laboratory testing of constituent materials
- understand proportioning trial mixes
- understand curing test specimens
- understand testing hardened concrete test specimens and in-place concrete
- perform these test

### **Major Topics to be Included**

- Laboratory procedures
- Concrete characteristics
- Testing of concrete aggregates
- Testing of plastic concrete
- Proportioning mixes
- Testing hardened concrete