

### **CM 3160: Construction Equipment**

#### **3 Credit Hours**

Study of the basic principles, practices, and techniques used in the construction industry for selecting and managing construction equipment. Focuses on understanding the time value of money, estimating equipment ownership and operating costs, selecting the proper equipment for specific construction tasks, and estimating equipment production.

### **CM 3170: Heavy Construction Practices**

#### **3 Credit Hours**

*Prerequisite: CM 3110*

Introduction to the various heavy construction systems such as roads, bridges, sewer/water treatment facilities, and other transportation systems. Topics include: contract analysis, work breakdown, equipment selection, site logistics planning, and project scheduling, cost productivity and performance management, quality control, and risk management.

### **CM 3180: Mechanical and Electrical Building Systems**

#### **3 Credit Hours**

*Prerequisite: CM 3110*

A study of mechanical and electrical system types, how they are built, and how they affect the construction project. Topics will include air conditioning, heating, plumbing, fire protection, electrical power, electrical lighting, and building control materials and systems. The analysis of current construction drawings will be integrated into each topic.