

Based on ABET ETAC Student Learning Outcomes

1. Course Number and Name:

CSET 3200 Client-Server Computing

2. Credits and Contact hours:

Credits: 3 hours, Contact: 3 lecture hours

3. Instructor's or course coordinator's name:

Jared Oluoch

4. Text book, title, author, and year:

None

a. Other supplemental materials:

Web Services by Gustavo Alonso and course web site

5. Specific Course Information:

a. Brief description of the content of the course (catalog description):

This course will cover various distributed system topics from fundamental concepts and principles to some advanced topics. Majority of the class will be devoted to middleware and enabling technology. Contents include distributed objects such as RMI, Corba, Java web services. Theory will be applied to implement class projects in building distributed environment and client/server applications. At the end of the class, student should be able to gain solid knowledge on distributed systems concepts and be able to apply them to simple real world projects.

b. Pre-requisites, or co-requisites:

None

6. Specific goals for the course:

a. Specific outcomes of instruction:

1. Understand fundamental concepts of Web Services including: Client Server systems, system models of distributed systems, networks that distributed systems run on, communication protocols between processes in distributed systems, Middleware, Enterprise Application integration, and Web Services Security
2. Compile and execute actual programs using sockets, Java RMI, Java Beans, and Web Services.

b. Explicitly indicate which of the student outcomes listed in Criterion 3 or any other outcomes are addressed by the course: f, g, j

f. An ability to identify, analyze, and solve broadly-defined engineering technology problems.

g. An ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature.

j. A knowledge of the impact of engineering technology solutions in a societal and global context.

Brief list of topics to be covered:

1. Client Server Architecture
2. Process Communication
3. XML
4. Netbeans and JDK
5. Middleware
6. Enterprise Application integration
7. Basic Web Technologies
8. Web Services.