

CSET 3200 CLIENT-SERVER COMPUTING – Spring 2018

Instructor: Jared Oluoch, Ph.D., Office: NE 1613, Phone: 419-530-3272, Email:jared.oluoch@utoledo.edu

Office Hours: 2:00-4:00 PM, Mondays and Wednesdays, and by appointment.

Class Location: Online

Textbook: *Web Services: Concepts, Architectures and Applications*, Gustavo Alonso, Fabio Casati, Harumi Kuno and Vijay Machiraju, Springer. ISBN: 978-3-642-07888-0.

Reference Textbook: *Web Services Essentials: Distributed Applications with XML-RPC, SOAP, UDDI & WSDL*, Ethan Cerami. ISBN: 978-0-596-00224-4. Free PDF version is available online.

Online Resources: *Web Services Tutorial* [<http://www.w3schools.com>]
Tutorials Point [<https://www.tutorialspoint.com/tutorialslibrary.htm>]

Course Description: This course covers two-tier and three-tier client-server architectures, programming considerations, clean layering, advanced graphical user interface controls, database processing, transaction processing and monitoring.

CSET Student Outcomes

- Outcome A - An ability to select and apply knowledge of computing and mathematics appropriate to the discipline. Specifically, an ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the trade-offs involved in design choices
- Outcome c - An ability to design, implement and evaluate a computer-based system, process, component, or program to meet desired needs and to apply design and development principles in the construction of software systems of varying complexity

Course Objectives: Upon completion of the course, students will be able to:

- 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 & Web Services Security
- Build websites using the following web development tools: html, css, javascripts, and GoogleMaps.

Course Format: The course will be conducted online. Students are expected to read the course material. The course will consist of quizzes, progress reports, 1 midterm exam, and an individual project. Late submission of homework will not be accepted. Therefore, students who submit their homework after the due date will get a grade of 0. A student that does not submit the project will fail the class. There shall be no make-ups for quizzes, progress report, midterm, and homework except for a medical emergency, death of an immediate family member, or jury duty.

Progress Reports: After covering every major topic, students will submit progress reports. The reports will include a) A minimum of 2 page summary of the concepts learned in that topic. This summary must list the resources the student studied, any difficulties the student encountered, and any help the student may need from the instructor to better understand the concept. b) At least 2 sample scripts or codes that the students wrote when studying that topic. Students who do not submit a detailed report and the sample codes they wrote will not receive full credit or may not receive any credit at all.

Attendance: Students are expected to log in Blackboard regularly and set up time to meet with the instructor if they have questions. The instructor will have the discretion to lower a student's grade based on several missed Blackboard log-ins.

Grading: Grades will be distributed as follows:

Quizzes: 10%

Homework: 20%

Progress Reports: 20%

Midterm: 20%

Project: 30%

Grade Distribution:

90% - 100% A

87% - 89% A-

84% - 86% B+

80% - 83% B

77% - 79% B-

74% - 76% C+

70% - 73% C

67% - 69% C-

60% - 66% D

0% - 59% F

Academic Integrity: All students are expected to abide by The University of Toledo Policy Statement on Academic Dishonesty. Any attempt to duplicate or otherwise pass off another current or former classmate's lab assignments, or copy a classmate's quiz, midterm, finals, or pass off the work of someone else as your own will result in the following penalties: 1) on a first offence a zero in the assignment, 2) on a successive offense, a failure in the class. Either offense will result in a letter of academic dishonesty being placed in your student file. The penalty for allowing your work to be copied is the same as if you did the copying!

Academic Accommodation: The University of Toledo is committed to providing equal access to education for all students. If you have a documented disability or believe you have a disability and would like accommodation, speak with me after class and contact the office of Student Disability Services at Rocket Hall Room 1820, Phone Number 419.530.4981. Your information will be kept confidential.

Important Dates:

First Day of Class	Monday, January 16
Martin Luther King Day	Monday, January 15
Spring Break	March 5 through 9
Last Day of Class	April 27