

Server Side Programming

The University of Toledo
Department of Engineering Technology
College of Engineering
CSET4100-901
3 Credit Hours

Instructor:	Jared Oluoch, Ph.D.	Term:	Summer 2020
Office Hours:	By Appointment	Class Location/Times:	Online
Office Location:	NE1613	Lab Location/Times:	Online
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COURSE DESCRIPTION

This course covers Server Side Programming using Java Servlet and JSP on Apache Tomcat server environment. In this course, you will learn basics of Java Servlets and JSP for implementing web applications written in Java, Model-View-Controller (MVC) software paradigm and design and architecture of modern web applications.

COURSE OVERVIEW

This course is an introduction to Server Side Programming. Topics include data models. Models include but are not limited to Model-View-Controller (MVC) software paradigm, Java Servlets and JSP. Through literature reading, students would also learn design and architecture of modern web applications.

COURSE OBJECTIVES

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

1. Implement Java Servlet and JSP based on Model-View-Controller (MVC) software paradigm.
2. Develop client-server applications that are Internet and/or World Wide Web based.
3. Demonstrate knowledge on the design and architecture of modern web applications including large-scale distributed applications

TEACHING STRATEGIES

This fully online course is designed to stimulate student learning through the web-based delivery of readings, video, and audio. No on-campus meetings will be required.

WORKWEEK

In this fully online course, weeks run from Mondays through Sundays: specifically, they begin at 12:01 AM Monday morning and end at 11:59 PM on Sunday night. All assigned work for period is to be completed by the end of a Sunday in that period. The materials for any period will be posted by Monday morning of the first week of the period, if not earlier. Begin each week on Monday by checking the schedule and then viewing the content for the week under Weekly Content.

PREREQUISITES

1. Good programming skills
2. Basic understanding of computer network communications
3. Basic understanding of HTML and CSS

TECHNICAL SKILLS

To succeed in this course, it will be important for learners to possess the following technical skills:

1. Rename, delete, organize, and save files.
2. Create, edit, and format word processing and presentation documents.
3. Copy, paste, and use a URL or web address.
4. Download and install programs and plug-ins.
5. Send and receive email with attachments.

6. Locate and access information using a web search engine.
7. Use a learning management system.
8. Prior knowledge of UNIX system, FTP file transfer.

REQUIRED TEXTS AND MATERIALS

1. Murach's Java Servlets and JSP, 3rd Edition By Joel Murach and Michael Urban; Mike Murach & Associates; 3rd edition (June 9, 2014)
ISBN-10: 1890774782
ISBN-13: 978-1890774783

RECOMMENDED TEXTS AND MATERIALS

Additional course material are supplied when required by the course work. Most of the course content will be delivered by lectures in Echo360 and PowerPoint slides.

TECHNOLOGY REQUIREMENTS

Browser Check Page

Students need to have access to a properly functioning computer throughout the semester. [The Browser Check Page](#) will enable you to perform a systems check on your browser, and to ensure that your browser settings are compatible with [Blackboard](#), the learning management system that hosts this course.

Software

Student computers need to be capable of running the latest versions of plug-ins, recent software and have the necessary tools to be kept free of viruses and spyware.

Internet Service

High-speed Internet access is recommended, as dial-up may be slow and limited in downloading information and completing online tests. This course does contain streaming audio and video content.

Use of Public Computers

If using a public library or other public access computer, please check to ensure that you will have access for the length of time required to complete tasks and tests. A list and schedule for on-campus computer labs is available on the Open Lab for Students webpage.

UT Virtual Labs

Traditionally, on-campus labs have offered students the use of computer hardware and software they might not otherwise have access to. With UT's Virtual Lab, students can now access virtual machines loaded with all of the software they need to be successful using nothing more than a broadband Internet connection and a web browser.

The virtual lab is open 24/7 and 365 days a year at [VLAB: The University of Toledo's Virtual Labs](#).

HOMEWORK POLICIES

There are going to be homework assignments. Homework grade is about 30% of the total class grade. Homework contents constitute the basis for your success in the exams since the exam content and format are similar to homework assignments. No late submissions of these assignments will be accepted. All answers must be in your own words and sentences. Copying and pasting from the book or the website will be considered plagiarism. A "zero" will be given for any assignment or homework that does so. All the assignments are to be completed individually. There are no group assignments. Homework assignments must be done and submitted independently. You are responsible for securing your work from being accessed by other students. **You will get a zero if your homework is found identical to someone else's even if it was you who tried to help them.** It is your responsibility to download data files or any other files that may be required, from the class website or the websites referred to, that you may need for your assignments. If someone is found cheating, that person will get an F for the whole course and will be referred to appropriate college and university committee for further action.

READING

You are required to do all assigned reading on time, i.e., before the date specified in the course schedule.

TIME MANAGEMENT

Taking an online class requires self-study and time management skills. Assignment due open time and due time are specified in class schedule and on blackboard. You should be able to self-manage your time and schedule such that you can submit each of these before the deadline. Reasons such as "I am going to be out of town" or "There are too many things going on and I could not make time", etc., are **not** valid for late submission.

SUBMISSION POLICIES

No late submission of any quiz, assignment or homework will be accepted except in case of real emergency, such as a medical reason. Reasons such as "I was busy with work" or "I did not have time to read the course material on referred websites" or "I was out of town" or "I did not have access to the Internet"or other similar reasons are not considered emergencies.

Even in medical emergencies, you have to show that you are unable to take the quiz or the exam throughout the period they are available.

Make sure that you upload the correct file for your assignments. You will not get credit if the wrong file is uploaded.

Proper documentation delivered within four business days after the exam deadline will be required to determine if the reason for not taking the quiz is indeed an emergency.

Make-up exam questions may be different from the original exam questions.

Each exam, assignment and homework will be opened for a number of days. Do the assignments at the earliest possible time. Last minute problems such as "my internet or electricity crashed just as I was uploading" will not be considered as reasons for accepting late submissions.

Assignments (and exams if required to be taken off campus online) will be opened one to two weeks before they are due, till its deadline which is normally the end of that week (Sunday night at 11:59PM). You are responsible for making sure that you know the day each assignment or quiz opens and the day it is due. Do the assignments at the earliest possible time. Last minute problems such as "my internet or electricity crashed just as I was uploading" or "I needed a clarification at the last minute" - will not be considered as reasons for accepting late submissions. Quizzes and assignments will be graded for everyone only after the submission deadline is over, even if you submitted them earlier. Questions on the assignments shall be asked from Monday to Friday between 9:00AM-5:00PM except holidays for prompt response from the instructor.

GRADING POLICIES

Learners will be assessed as follows. Specific guidelines and grading criteria will be provided with each assignment. Grades and instructor feedback for each assignment will be posted to the Grade Book within one week, if not earlier, after each assignment has been completed.

Item	% of Final Grade
Homework Assignments	30
Midterm Exams	40
Final Project	30
Total	100

Learners are expected to complete and submit all assignments and tests by the due date listed in the Course Schedule. Late assignments and make-up tests will not be permitted unless arrangements are discussed and approved well before the required due date. Ask questions as soon as possible by email or by phone if you do not understand an assignment. The Midterm exams will be done online.

The grading scale for this course is as follows:

A = 90 – 100%

B = 80 – 89%

C = 70 – 79%

D = 60 – 69%

F = < 59%

EXAM ABSENCE POLICIES

Students who will not be able to take an exam at the scheduled time due to an irresolvable conflict with a major responsibility must provide some written documentation to verify the conflict. This situation may occur for students on official university business, including athletes. Approval must be obtained before the scheduled test date.

Students who do not take an exam due to illness, car accident or similar extreme circumstance should inform their instructor of their difficulties as soon as possible. These difficulties must also be documented by physician's notes, accident reports, etc. An email within 24 hours of the exam is expected: jared.oluoch@utoledo.edu. Students must complete an Absence Report Form in all cases of missed examinations. These can be obtained from the ET main office. Documentation supporting your excuse must be attached to the form. In all other circumstances, a missed exam will result in a grade of zero.

AMERICANS WITH DISABILITIES ACT

The University of Toledo is committed to providing equal access to education for all students. If you have a documented disability or you believe you have a disability and would like information regarding academic accommodations/adjustments in this course, please contact the [Student Disability Services Office](#) at 419-530-4981 (voice) or 419-530-2612 (TDD).

TECHNOLOGY PRIVACY POLICIES

This course will use tools that will require learners to create an account with a username and password. To safeguard your account on each platform, please make note of the following privacy policies:

 [UT IT Responsible Use Policy](#)

 [Seelio](#)

COURSE AND INSTITUTIONAL POLICIES

Nondiscrimination on the Basis of Disability

The University is an equal opportunity educational institution. Please read [The University's Policy Statement on Nondiscrimination on the Basis of Disability – Americans with Disabilities Act Compliance](#).

Policy Statement on Academic Dishonesty

Academic dishonesty will not be tolerated. Please read [The University's Policy Statement on Academic Dishonesty](#).

Copyright Notice

The materials in the course website are only for the use of students enrolled in this course for purposes associated with this course, and may not be retained or further disseminated.

GENERAL ACCESSIBILITY STATEMENT ON COURSE TECHNOLOGY

In conjunction with The University's commitment to ensuring equal access to all technology-based information, this course contains technologies that learners can use regardless of age, ability or situation. The course's platform, [Blackboard Learn](#), is a certified web-accessible platform, satisfying Level AA conformance criteria of Web Content Accessibility Guidelines (WCAG 2.0). External sites used in the

course, such as [Echo360](#), are compliant with Section 508 standards, and the media players used in the course support closed captioning, are keyboard operable, and compatible with screen reading software.

If any accommodations, beyond what is provided, are needed for equal access to any of this course content, please contact the instructor as soon as possible. The University of Toledo's [Office of Student Disability Services](#) processes closed captioning requests for videos and other media from the instructor, which may take up to four (4) business days to complete.

COMMUNICATION GUIDELINES

You are responsible for checking the website every day in order to keep all deadlines. Announcements, assignments, download, scores, grades, and other relevant information regarding this course will be posted on blackboard. You, in turn, will post your assignments to the website only and **not to any of my email addresses**.

Email:

Students are expected to check their UT email account frequently for important course information. This class is being taught for you, so if you are having trouble understanding any aspect of it, please let me know. I am here to help, and will do my best to respond to email within 24 to 48 business hours.

Discussion:

This is optional.

Netiquette:

It is important to be courteous and civil when communicating with others. Students taking online courses are subject to the communication regulations outlined in the Student Handbook. To ensure your success when communicating online, take time to familiarize yourself with the "dos" and "don'ts" [Internet etiquette](#).

TECHNICAL SUPPORT

****If you encounter technical difficulties with Blackboard, please contact the [UT Online Help Desk](#)**** at (419) 530-8835 or utdl@utoledo.edu. The Help Desk offers extended hours in the evenings and on weekends to assist students with technical problems. When calling after hours, leave a detailed message, including your Rocket Number and phone number, and a UT Online staff member will respond on the next business day.

****Technical questions related to on-campus Internet access, virtual labs, hardware, software, personal website hosting, and UTAD account management can be directed to UT's [IT Help Desk](#)**** at (419) 530-2400 or ithelpdesk@utoledo.edu.

LEARNER SUPPORT

The University of Toledo offers a wide range of academic and student support services that can help you succeed:

eTutoring Services

[The Ohio eTutoring Collaborative](#), in partnership with The University of Toledo, now provides online tutoring support for all UT students. eTutoring Services are offered in a wide array of subjects, including Writing, Math, Calculus, Statistics, Accounting, Biology, Chemistry, and Anatomy and Physiology.

eLibrary Services Portal

The [eLibrary](#) is a customized gateway to UT Libraries for online students. It was designed to help you locate the best online library resources without leaving Blackboard.

Student Disability Services

[Student Disability Services](#) provides accommodations and support services to students with disabilities.

Counseling Center

[The Counseling Center](#) is the university's primary facility for personal counseling, psychotherapy, and psychological outreach and consultation services. The Counseling Center staff provide counseling (individual and group), mental health and wellness programming, and crisis intervention services to help students cope with the demands of college and to facilitate the development of life adjustment strategies.

Military Service Center

UT's [Military Service Center](#) recognizes the sacrifices of our service members and their families and is dedicated to helping them achieve continued success in life. They provide accessible educational and degree completion opportunities and a wide range of customized support services, including educational benefit processing, mentoring, advocacy, and networking.

Services for Online Students

Knowing what to do, when to do it, and who to contact can often be overwhelming for students on campus - even more so for distance learners. Visit the [Resources for Current Students](#) webpage to learn more about the wide range of services for online students.

DROP, WITHDRAWL, INSTRUCTOR WITHDRAWL and INCOMPLETE GRADES

Course drop and withdrawal procedures have been set by the University faculty. Dropped courses do not appear on your transcript. Pay attention to the deadline for dropping. If you are in a course after that date, there will be a grade on your transcript. You may withdraw from the course and receive a grade of W. The deadline for withdrawal is the half-way point. You may refer to this website for details:

https://www.utoledo.edu/offices/registrar/registration_dates.html

W's do not affect your GPA. For both procedures you should go to the Registrar's Office in Rocket Hall. You do not need your instructor's permission for either process. Please note that course registration changes might change your financial aid.

A course grade of Incomplete is given only to those who have completed all but a small percentage of course requirements for an acceptable reason in extreme conditions

I reserve the right to make any modifications to the syllabus and schedule. You will be notified of any such changes.