Oklahoma State University Institute of Technology
Online Common Syllabus
Spring 2019

ITD 3243 Section NT1 Server Side Programming

Students learn server-side web programming through the application of advanced development principles, tools, and technologies. Topics include: PHP; database manipulation; Secure Sockets Layer (SSL); cookies; and JavaScript.

COURSE PURPOSE:

The purpose of the class is to provide the learner introduction to the various aspects of developing applications for use in a interactive web environment.

Type of course: Theory/Lab
Credit Hours: 3;
> Total hours of theory per semester: 30
> Total hours of lab for the semester: 45

Class length - Full Semester
Class days and times:

Monday	Tuesday	Wednesday	Thursday	Friday
This class is an online class that does not have an on-campus meeting time.				

Prerequisites: ITD 1353 and ITD 2203

Instructor Name: Mark Pranger   **Instructor Phone:** (918) 293-4740
Office: ET/IT 15D   **Instructor email:** mark.pranger@okstate.edu
Contact: The preferred method of contact is email. Please allow 24-48 hours to return correspondence during the normal work week.

Instructor's Office Hours:

Monday	Tuesday	Wednesday	Thursday	Friday
3:00 p.m. to 5:30 p.m.	3:00 p.m. to 5:30 p.m.	3:00 p.m. to 5:30 p.m.	3:00 p.m. to 5:30 p.m.	By appointment Only

Other times available by appointment

School Name: **School Phone:**
Information Technologies   (918) 293-5440

REQUIRED TEXT, REFERENCES, AND MATERIALS
Texts:

    Required:

    Murach's PHP and MySQL, Murach & Harris, Murach Publishing, , ISBN 978-1-943872-38-1

    Useful Reference:
    Dynamic Web Application Development using PHP and MySQL, Stobart & Parsons, Course Technology, CENGAGE Learning, ISBN 978-1-84480-753-6

References:

    Online Classroom

    Access to a computer with broadband Internet Access (2Mbps upload preferred)

    Access to a computer on which software for class may be installed

Materials:

    Portable Drive/USB Drive, pencil(s), notebook paper

Uniform/Tools:

    none

Estimated Cost for Text:	$68
Estimated Cost for Materials:	$20
Estimated Cost for Uniform/Tools:	$0
Total Estimated Cost	$88

COURSE ACTIVITIES
In this course students will:
- Apply problem-solving skills to problems.
- Participate in class discussions and class activities
- Participate in group and individual presentations.
- Take examinations and quizzes
- Participate in group projects
- Create and use a local test environment and remote public environment for web application development and deployment respectively
- Write JavaScript programs to introduce client side logic to web applications
- Write PHP programs to introduce server side logic to web applications
- View videos covering PHP programming concepts
- Use source control to work cooperatively with team members
- Compile a portfolio of work produced

EVALUATION - GRADES WILL BE BASED ON THE QUALITY AND COMPLETION OF THESE TASKS:

Final Grade Calculation	
Labs –Class Discussions – Unit Assignments	35%
Quizzes – Class Exams	25%
Project	20%
Final Exam	10%
Professional Development**	5%
Course Portfolio	5%
Total	100%

OSUIT Grading Scale

A = 90-100
B = 80-89.99
C = 70-79.99
D = 60-69.99
F = 59.99 & below

RECOMMENDED STUDENT COMPETENCIES/SKILLS

The following list of competencies/skills are recommended for student success in the course:

 ➢ The ability to create and write essay level material
 ➢ The use of a web browser and web search engine
 ➢ Utilize Office products effectively, such as Word, Excel, PowerPoint
 ➢ The use of Screen Capture Software
 ➢ The use of software to create archived zip files
 ➢ The ability to install and uninstall software
 ➢ Manage time effectively
 ➢ Ability to read word problems and construct mathematical equations

AUTHORIZED TOOLS

Students may use any/all course materials, including books and notes, while participating in classroom activities with the exception of-class exams. All quizzes, exams, and written assignments are to be completed independently; no collaboration with classmates is permitted and any instance of such will be considered academic dishonesty.

The class may require programs to be written and submitted as part of the grade. If a specific language is used, then that is the only language acceptable for the assignments. Other programming languages are not acceptable for submission of assignments in this class.

LATE WORK POLICY

Assignments must be completed and submitted on time. Absence or personal problems will not be considered an excuse for submitting assignments late. Late assignments are accepted only at the instructor's discretion and an adjustment may be assessed to the grade. Class demonstrations, workshops and/or training sessions will not be repeated. If a student is to be absent, it is the student's responsibility to make sure the work is submitted by the due date and time. To meet course competencies, students will be required to complete all assignments and course work.

TESTING
Exams:
Regular exams may include any combination of multiple choice, matching, true/false, fill in the blank, completion, hands on projects, programming assignments, essay and/or short answer questions. Exams may be taken early at the discretion of the instructor. Exams may not be taken late unless there is an accepted, excused, and documented absence.

Exams will be given on the date and time set by the instructor. Make-up exams will not be given without proper documentation.   Make-up exams will only be given at times arranged with the instructor.

ONLINE COURSE INTERACTION
OSUIT requires all online courses to include interaction between students, peers and instructors. Our online courses use a variety of tools to build a community of learners and strengthen engagement between students and their peers, as well as between students and the instructor. Communication tools used in courses may include Discussion, News, and Email. Read the syllabus completely to determine which of these methods you, your classmates and your instructor will use for interaction.
General guidelines for student conduct while interacting within an online course include: (1) Use proper language in all communications; (2) Harassment of any type will not be tolerated; (3) No jokes, insults or threats of an offensive nature.
For more information, go to: http://osuit.edu/center/netiquette

SYLLABUS ATTACHMENT
View the Syllabus Attachment, which contains other important information, by visiting
http://osuit.edu/center/student_syllabus_information

The syllabus attachment contains several topics of interest to the student and is part of the syllabus. Topics contained on the attachment include but are not limited to:
- ➢ Americans with Disabilities Act (ADA)
- ➢ Class Attendance policies (both in class and online)
- ➢ Dropping and Withdrawing from classes
- ➢ University Expectations and Policies including Academic Dishonesty
- ➢ List of Campus Services to aid Students

COURSE PORTFOLIO

Each student is required to keep a portfolio of all work in the course. The portfolio is used for reference to help a student in case questions arise and with all other classes that the student will take in this school. The portfolio will be kept electronically and an electronic folder structure template will be provided to help organize the portfolio. This compilation will be submitted at the end of semester in the portfolio area on the online classroom. There may be at least one assignment during the semester based on the portfolio. All information will be placed into the portfolio template following the instructions given by the instructor on the course companion site.

ASSIGNMENT SUBMISSION

Assignments, labs, projects and written work for the course will utilize the Drop box submission process in Online Classroom. Before submission, a student should ensure the assignment has the correct heading (assignment template) and that the assignment is being submitted on or before the due date. The instructor may request an additional hard copy of assignments throughout the term. A hard copy of the assignment does not replace the need to submit the assignment to the appropriate drop box in the Online Classroom unless specifically stated by the instructor.

It is the responsibility of the student to ensure that work submitted to the Drop box was received and is accessible. Assignments may require research. Research is considered "a search for the truth". Until the correct information is found your search is incomplete. In order to complete the chapter study guides and course assignments, you may have to conduct searches outside of the course curriculum materials. It is important for this course to note that no one source can provide all the information needed to complete assignments. Multiple sources from those provided in class can help to build your ability to find answers and complete assignments, labs and projects. Be prepared to provide evidence of your searches to the instructor.

When work is submitted to the drop box, the file name needs to follow this naming convention.
<Student's first name><Student's Last name><Original Assignment File Name>

For example, if student John Smith was submitting his assignment with the original file name of HomeworkAssignment02.docx then his filename of his submitted file should be:
JohnSmithHomeworkAssignment02.docx

Homework and In-Class Activities: Students may submit work anytime up to the due date and time to the appropriate Online Classroom drop boxes. All homework submitted by 11:59PM on the day the homework is due is considered to be on time.

No homework is accepted late. The only exceptions are the same that you will encounter in the workforce. These are listed in the policy on absences in this document. Appropriate documentation must be provided for all activities. If an exception is allowed per stated policy, the student will be informed and the homework must be turned into the instructor by the allowed due date.

All work should be type written with a 14 point Times New Roman font. Double spacing is not required although may be best for some sections of assignments. Any handwritten assignments accepted must be readable by the instructor. Excessively small, sloppy, or otherwise unreadable written assignments may not earn credit.

Each assignment must be written appropriately for industry standards. Industry requirements include proper spelling and grammar use in reports. The proper use of grammar and spelling assists in the communication of information as a technician to customers, clients, and supervisors. Each assignment and lab report should include the appropriate and proper use of grammar, punctuation, and spelling. The grading criterion for every assignment and lab report includes grammar, punctuation, and spelling.

Each assignment must contain a heading. Headings for assignments in this course include your name, due date, course ID, and instructor name. This heading is used for both electronic and hard copy work. Failure to use the correct heading will result in a reduction of points from the final assessment score of the assignment. Assignments submitted with no name will not be graded.

This is the heading table template.

Course Name	ITD 3243 – Server Side Programming
Instructor	Mark L. Pranger
Student Name	<student name here>
Due date	<assignment due date here>
Grade	<grade earned here>
Grading Comments	<instructor comments here>

Replace the material tags (stuff in < >) with the appropriate information

OTHER LAB AND CLASSROOM POLICIES

Proper Safety Procedures: Information Technologies courses may require students to enter labs where tools and equipment are being used. As a result, students must dress and use safety equipment appropriate to the setting they are in. If students do not understand proper safety procedures, they must ask an instructor for assistance In addition, students must ask for permission to use any equipment or facilities in advance.

Children in Class Policy: Only in extreme cases--where no other arrangements can be made for childcare and with ***prior instructor approval***--will children be allowed in classrooms or laboratories. In such instances, children must be supervised at all times by a parent or guardian. If this becomes frequent, if the child or equipment is at risk of harm, or if this situation causes a distraction to other students and the learning environment, the instructor or lab assistant will ask the student to leave with the child.

The *Proper Safety Procedures* and the *Children in the Class Policy* applies when a student is on campus using the campus facilities in the pursuit of the class requirements.

Course Outline Modification: Instructors reserve the right to change or modify course content during an academic term. Any changes will be shared with students in writing or posted in the online classroom.

COMPUTER LAB USER GUIDELINES

The primary purpose of the computer labs is to support the educational process. Therefore, priority of use will be given to the completion of assignments, exercises, and projects for academic courses. Inappropriate or illegal use of University resources may result in: the termination of access privileges, legal action or disciplinary review. Violation of this policy may constitute a criminal offense. In general, misconduct involving technology use—regardless of time or location—relates to the following:

- Destruction of equipment;
- Accessing or altering any form of technology communication without consent;
- Transmitting or receiving inappropriate information or graphics;
- Disruption of technology or classroom/lab operations.

Use of IT School computer labs and equipment must conform to campus IT policies available at http://www.osuit.edu/campus_community/cis—except where specifically allowed by School or instructor policies. In addition, students will be expected to abide by the following guidelines.

1. Be respectful of other users. Keep personal belongings out of the path of traffic.
2. Recreational use of computers during class is not permitted.
3. Rendering of images, sounds, language or messages that may be considered offensive by any other individual is unacceptable.
4. Modification of software and hardware are prohibited except with an instructor's guidance and approval.

The *Computer Lab User Guidelines* applies when a student is on campus using the campus facilities in the pursuit of the class requirements.

ONLINE CLASSROOM

The OSUIT Online Classroom will serve as the primary conduit for course information and deliverables. Therefore, students are responsible for checking it regularly. Unless otherwise directed, assignments must be submitted via the Online Classroom.

	Course Schedule*	
Discussions, Unit Assignments, Quizzes, and Labs are generally scheduled to be due on the last day during a given coverage period for the material. Exams are generally given at the end of a coverage period or immediately thereafter and are announced ahead of time.		
Week(s)	Topics and Competencies	Assignment(s)
1	• Class Overview • Class Introductions • Basic Installation and configuration	Read Chapters 1 and Appendix A • Class Discussion • Unit Assignments • Labs • Quiz
2	• Coding PHP • Relational Databases and MySQL	Read Chapters 2 and 3 • Class Discussion • Unit Assignments • Labs • Quiz
3	• PHP and MySQL Together at last	Read Chapter 4 • Class Discussion • Unit Assignments • Labs • Quiz
4	• MVC and Code organization • Testing and Debugging PHP	Read Chapters 5 and 6 • Class Discussion • Unit Assignments • Labs • Quiz
In Term Exam Modules 1 to 4		
5	• PHP Programming - Working with Form Data	Read Chapter 7 • Class Discussion • Unit Assignments • Labs • Quiz
6	• PHP Programming - Coding Control Statements	Read Chapter 8 • Class Discussion • Unit Assignments • Labs • Quiz

Course Schedule*		
Discussions, Unit Assignments, Quizzes, and Labs are generally scheduled to be due on the last day during a given coverage period for the material. Exams are generally given at the end of a coverage period or immediately thereafter and are announced ahead of time.		
Week(s)	Topics and Competencies	Assignment(s)
7	• PHP Programming – Working with Strings, Number and Dates	Review Chapters 9 and 10 • Class Discussion • Unit Assignments • Labs • Quiz
8	• PHP Programming - Arrays	Read Chapter 11 • Class Discussion • Unit Assignments • Labs • Quiz
In Term Exam Modules 5 to 8		
9	• PHP Programming –Cookies and Sessions	Read Chapter 12 • Class Discussion • Unit Assignments • Labs • Quiz
10	• PHP Programming - Functions	Read Chapter 13 • Class Discussion • Unit Assignments • Labs • Quiz Professional Development Due: March 13, 2019
S P R I N G B R E A K (March 18 to March 22)		

Course Schedule*		
Discussions, Unit Assignments, Quizzes, and Labs are generally scheduled to be due on the last day during a given coverage period for the material. Exams are generally given at the end of a coverage period or immediately thereafter and are announced ahead of time.		
Week(s)	Topics and Competencies	Assignment(s)
11	• PHP Programming - Objects	Read Chapter 14 • Class Discussion • Unit Assignments • Labs • Quiz
12	• PHP Programming –Regular Expressions and validating Data	Read Chapter 15 • Class Discussion • Unit Assignments • Labs • Quiz
In Term Exam Modules 9 to 12		
13	• Website Building – Secure Websites and Email	Read Chapters 21 and 22 • Class Discussion • Unit Assignments • Labs • Quiz
14	• Website Building – File handling, Images and an eCommerce Website	Read Chapters 23 and 24 • Class Discussion • Unit Assignments • Labs • Quiz •
	•	**Project Due** **April 12, 2019**
In Term Exam Modules 13 to 14		
	Finals Activities	
4/16 to 4/18	Comprehensive Final Exam	**FINAL EXAM** **April 16 to** **April 18, 2019**
4/19	Portfolio	**FINAL COURSE** **PORTFOLIO DUE:** **April 19, 2019**

Refer to the drop boxes, discussions, and quiz items in the online classroom for due dates on assigned class work

   *Schedule subject to change at instructor discretion and extenuating circumstances.