

Web Services

CIS-266 2 0

Spring Term 2024-2025 School Year Section 2 0 3.00 Credits 01/13/2025 to 05/09/2025

Modified 01/13/2025

Course Description

This course addresses the demand for computer programmers who are familiar with how to program Web Services and the related technologies. Web Services may utilize technologies including JavaScript Object Notation (JSON), Extensible Markup Language (XML), Simple Object Access Protocol (SOAP), Web Services Description Language (WSDL), and Universal Description Discovery and Integration (UDDI). The course covers Web Services from a business and a technical perspective, explains how Web Services can be used to address various business problems and demonstrates how to integrate Web Services into applications. Students will also be required to post an updated Electronic Portfolio to a remotely accessible Internet site that includes the student's resume, CIS Programming syllabi and samples of their computer programming work in HTML, CSS, JavaScript, PHP, MySQL, C#, Java and web services. Prerequisite: CIS 241

Course Materials

No single textbook covers all aspects of those Web Services related technologies that our Computer Programming Industry Advisory Board requested we cover. Therefore, to help you understand the related technologies, you should reference the lesson plans, handouts, and sample code I provide on STInet with this CIS266 course, STI's CIS241& CIS249 textbooks which provide a basis for understanding the PHP & Java code we'll be using for this course, and Internet sites with information on AJAX, JSON, XML, and SOAP technologies.

Prerequisites

CIS241, CIS249

Evaluation Procedures and Grading

Criteria

Type	Weight	Topic	Notes
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Type	Weight	Topic	Notes
Electronic Portfolio	10%		
Exams	50%		
Homework	10%		
Lab Report	20%		
Participation	5%		
Quizzes	5%		

Breakdown

Grade	Range	Notes
A	90-100	
B	80-89.99	
C	70-79.99	
D	60-69.99	
F	0-59.99	



Course Outline

When	Topic	Notes
Unit 1	Overview of Web Services	
Unit 2	DB Based RESTful AJAX-PHP Web Services	
Unit 3	SOAP Web Services using Java Classes & DB Emulator	
Unit 4	Web Service Projects, Electronic Portfolios & Node.js	