

CS 404 – Web Services

Credit Hours: 3

Scheduled hours per week

Lecture: 3

Lab:

Other:

Catalog Course Description: Students learn the use of SOAP and REST technologies, and using the Internet as a platform for building distributed information systems.

Pre-requisites: CS 220 and CS 221 must be passed with a grade of C or higher

Co-requisites:

Course Learning Outcomes:

Students should have an understanding of and be able to apply the following concepts:

- To understand and apply concepts and tools for developing, implementing, and using a web service

Topics to be studied:

<ul style="list-style-type: none"> • The HTTP Protocol • SOAP and REST Web Service Models • Fundamentals of API Design • The Web as a Platform • Data Representation through XML and JSON • Securing Web Services 	
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Relationship of Course to Program or Discipline Learning Outcomes:

BAT-Software Engineering

	Ability to understand, plan, and execute good Project Management
	Ability to recognize and apply industry recognized code of ethics to various situations
✓	Ability to understand and apply Information Security concepts and best practices
✓	Ability to understand, plan, and implement good Systems Analysis and Software Engineering
✓	Ability to understand, plan, implement, and troubleshoot Mobile Applications and related technologies
✓	Ability to understand, plan, implement, and troubleshoot Advanced Web Design and Web Services technologies

Relationship of Course to General Education Learning Outcomes:	
Composition and Rhetoric Students illustrate a fundamental understanding of the best practices of communicating in English and meet the writing standards of their college or program-based communication requirements.	
Science & Technology Students successfully apply systematic methods of analysis to the natural and physical world, understand scientific knowledge as empirical, and refer to data as a basis for conclusions.	✓
Mathematics & Quantitative Skills Students effectively use quantitative techniques and the practical application of numerical, symbolic, or spatial concepts.	✓
Society, Diversity, & Connections Students demonstrate understanding of and a logical ability to successfully analyze human behavior, societal and political organization, or communication.	
Human Inquiry & the Past Students interpret historical events or philosophical perspectives by identifying patterns, applying analytical reasoning, employing methods of critical inquiry, or expanding problem-solving skills.	
The Arts & Creativity Students successfully articulate and apply methods and principles of critical and creative inquiry to the production or analysis of works of art.	
5/3/2016	

Special requirements of the course:

You will need a computer with an Internet connection

Additional information:

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Date: 11/01/2017