

**CENTER FOR APPLIED INFORMATION TECHNOLOGY
TOWSON UNIVERSITY**

AIT 618: Server-Side Programming on the Web

Credit Hours: 3

Prerequisite: AIT 616

Course Description: The course will include in depth discussion of HTTP protocol, dynamic HTML, and client/server programming for web development. Understanding design and implementation of distributed information systems involving technologies and frameworks developed especially for the Web. This course will also include the implementation of an enterprise-level information system based on the client/server paradigm. The implementation will include the use of markup languages and Web services.

Learning Objectives:

1. Comprehend TCP/IP concepts with a focus on the HTTP protocol
2. Understand dynamic HTML and its capabilities and limitations
3. Understand CGI programming, and its capabilities and limitations
4. Understand two-tier and three-tier client/server architectures
5. Understand issues involved with database connectivity
6. Design and implement a client/server system using current web development frameworks

Suggested Textbooks:

1. Weaver, J., Mukhar, K., Crume, J., *Beginning J2EE 1.4: From Novice to Professional*, Apress
2. Ladd E., O'Donnell J., *Using XHTML, XML, and Java 2*, Platinum edition, Que
3. Mahler, P., *Three Tier Client/Server Systems: Building Distributed Systems*, Prentice Hall Computer Books, 1998