

# CIT Minor Requirements

## Notes:

Computer & Information Science Department, University of Oregon  
<http://www.cs.uoregon.edu>

## General Information/Requirements

24 total credit hours -- 12 credits from the lower-division courses and 12 credits from the upper-division courses listed below. *All courses for the minor must be taken graded.* The CIT minor consists of the following requirements:

Lower Division:       **CIS 110, CIS 111, CIT 281**

Upper Division:       **CIT 381, CIT 382, CIT 383**

All courses must be taken *graded*. Lower-division courses must be completed with a grade of B- or better. Upper-division courses must be completed with a grade of C- or better and are offered only one time per year. Before enrolling in CIT 381, you must officially declare the minor with the CIS department. It is recommended that you declare the minor as early as possible.

## Lower-Division Courses

- ❑ **CIS 110 - Fluency with Information Technology.** Introduction to information technology (IT), the study of computer-based information systems. Basics of the Internet and World Wide Web. Students create websites using XHTML and CSS.
- ❑ **CIS 111 - Introduction to Web Programming.** Project-based approach to learning computer programming by building interactive web pages using JavaScript and XHTML. Programming concepts including structured and object-oriented program design. CIS 110 recommended preparation..
- ❑ **CIT 281 –Web Applications Development I.** Web 2.0 as a business platform: Infrastructure in the cloud, Office 2.0 (Google Docs), web and database integration with AJAX, XML, PHP, and MySQL. Requires computer-laboratory work in addition to regularly scheduled hours. *Prereq: CIS 110 and 111 OR CIS 111 and CIS 115.*

## Upper-Division Courses

- ❑ **CIT 381 - (Fall) Database Systems.** Introduction to database systems, emphasis on database design and access. Database concepts, data modeling, normalization, data warehousing, query languages, formulation of complex queries. *Prereq: CIT 281.*
- ❑ **CIT 382 - (Winter) Web Applications Development II.** Organization of information on the web and applications of Internet technology. Emphasis on planning, implementation, and issues that apply to building and maintaining business Intranets. *Prereq: CIT 381.*
- ❑ **CIT 383 - (Spring) Networking Fundamentals.** Fundamentals of data communication and networks applied to enterprise networks and the Internet. Network management and security. *Prereq: CIT 382.*