

Fall 2014 Schedule of Classes

Dept	Section	Time	Days	Instructor	Bldg	Rm
CS 1000	Computing Skills and Concepts - 3 hrs.					
	Introduction to operation, applications, implications of computers, microcomputers, and network communications. Develops skill in current applications and sensitizes students to societal issues related to computing.					
	01	2:00-2:50	MWF	Barr	ITT	322
CS 1010	Microcomputer Applications and Systems Integration – 3 hrs.					
	Prerequisite: CS 1000 or equivalent. This course is part of the Computer Applications certificate. Emphasizes Adobe Fireworks, Dreamweaver, Flash video, and an introduction to Excel VBA macros.					
	01	12:30-1:45	TR	Jacobson	ITT	136
CS 1025	Modern Tools for Exploring Data - 3 hrs.					
	Explores computational approaches to solving complex problems using computational tools and dynamic and discrete simulations. Topics include problem representation, modeling, simulation, and model/simulation validation, with applications in the sciences, social sciences, and business.					
	01	8:00-8:50	MWF	Jacobson	ITT	134
CS 1100	Web Development: Client-Side Coding – 3 hrs.					
	Client-side Web development adhering to recent/current Web standards. Includes by-hand Web page development involving basic HTML, CSS, data acquisition using forms, and Java Script for data validation and simple Web-based tools.					
	01	9:30-10:45	TR	East	ITT	328
CS 1130	Visual BASIC Programming - 3 hrs.					
	Programming using the language Visual BASIC. Broad coverage of language syntax, programming practice, and programming problems appropriate to the novice or end-use programmer using a personal computer.					
	01	12:30-1:45	TR	East	ITT	328
CS 1140	Introduction to Programming Environments for Secondary Education – 3 hrs.					
	Introduction to computer programming through a survey of programming environments used by teachers. Topics include structure of programming, study of several programming environments used by students at a variety of age/ability levels, and end-user programming for teachers.					
	01	12:00-12:50	MWF	Schafer	ITT	328
CS 1150	Programming Environments for Elementary Education – 3 hrs.					
	Introduction to computational thinking and computer programming. Taught as a survey of programming environments used by elementary teachers. Topics include structure of programming and the study of several programming environments used by students at a variety of age/ability levels.					
	01	3:30-4:45	TR	East	ITT	328
CS 1160	C/C++ Programming - 3 hrs.					
	Programming using the C and C++ languages including the object-oriented paradigm. Broad coverage of language syntax and programming practice. Appropriate for developers of general computing applications and systems. Course presumes no prior programming experience.					
	01	11:00-12:15	TR	Gray	ITT	328
CS 1410	Computer Organization - 3 hrs.					
	Prerequisite(s) or corequisite(s): CS 1510.					
	01	3:30-4:45	TR	Poleksic	ITT	322
	02	2:00-3:15	TR	Fienup	ITT	322
CS 1510	Introduction to Computing - 4 hrs.					
	Introduction to software development through algorithmic problem solving and procedural abstraction. Programming in the small. Fundamental control structures, data modeling, and file processing. Significant emphasis on program design and style.					
	01	11:00-11:50	MWF	McCormick	ITT	322
		+ 10:00-11:50	R lab		WRT	112
	02	9:00-9:50	MWF	Diesburg	ITT	328
		+ 10:00-11:50	T lab		WRT	112
	03	12:30-1:45	TTh	Wallingford	ITT	322
		+ 1:00-2:50	W lab		WRT	112

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CS 1520	Data Structures - 4 hrs.					
	Prerequisite: CS 1510. Prerequisite or corequisite: CS 1800.					
	01	8:00-9:15	TR	Fienup	ITT	322
		+ 8:00-9:50	W lab		WRT	112
CS 1800	Discrete Structures - 3 hrs.					
	Prerequisite: CS 1130, CS 1160, or CS 1510.					
	01	1:00-1:50	MWF	McCormick	ITT	322
CS 2420	Computer Architecture – 3 hrs.					
	Prerequisite: CS 1410.					
	01	11:00-12:15	TR	Fienup	ITT	322
CS 2530	Intermediate Computing - 3 hrs.					
	Prerequisites: CS 1520; CS 1800.					
	01	12:00-12:50	MWF	Holmes	ITT	322
CS 2720	Software Engineering – 3 hrs.					
	Prerequisites: CS 1520; CS 1800.					
	01	9:00-9:50	MWF	McCormick	ITT	322
CS 2880	Topics in Computing: 3D Graphics in Maya - 3 hrs.					
	No experience required. May be repeated on a different topic.					
	11	12:00-12:50	MWF	Jacobson	ITT	134
CS 3120/5120	User Interface Design – 3 hrs.					
	Prerequisites for Computer Science majors: CS 2530; plus one of the following – CS 3140, CS 3150, CS 3530, CS 3540, CS 2720; junior standing. Prerequisites for non-Computer Science majors: junior standing; consent of instructor.					
	01	2:00-2:50	MWF	Schafer	ITT	328
CS 3140/5140	Database Systems – 3hrs					
	Prerequisites: CS 1520; CS 1800; junior standing.					
	01	8:00-9:15	TR	Gray	ITT	328
CS 3470/5470	Networking – 3 hrs.					
	Prerequisites for Computer Science majors: CS 1410; CS 1520; CS 1800; junior standing. Prerequisites for Department of Technology majors: TECH 1037; TECH 1037; TECH 2041; TECH 2042; CS 1160.					
	01	1:00-1:50	MWF	Diesburg	ITT	328
CS 3610/5610	Artificial Intelligence – 3 hrs.					
	Prerequisites: CS 1520; CS 1800; junior standing.					
	01	10:00-10:50	MWF	Schafer	ITT	328
CS 3650	Computational Biology – 3 hrs.					
	Applications of the techniques of computer science to biological problems, including introduction to computational DNA, protein sequence analysis, dynamic programming, and optimal alignment algorithms. Prerequisites: CS 1520; CS 1800.					
	01	9:30-10:45	TR	Poleksic	ITT	322
CS 4410/5410	System Security – 3 hrs.					
	Prerequisites: CS 3470; junior standing.					
	01	2:00-3:15	TR	Gray	ITT	328