

**Fall 2013 Schedule of Classes**

<b>Dept</b>	<b>Section</b>	<b>Time</b>	<b>Days</b>	<b>Instructor</b>	<b>Bldg</b>	<b>Rm</b>
<b>COMPUTER SCIENCE</b>						
<b>CS 1000</b>	<b>Computing Skills and Concepts - 3 hrs.</b> 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	3:30-4:45	TR	Barr	ITT	322
<b>CS 1010</b>	<b>Microcomputer Applications and Systems Integration – 3 hrs.</b> Undergraduate Enrollment Requirement(s): 810:021 (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	134
<b>CS 1025</b>	<b>Computational Modeling and Simulation - 3 hrs.</b> 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
<b>CS 1059</b>	<b>Programming Environments for Elementary Education – 3 hrs.</b> Undergraduate Enrollment Requirement(s): Level One Field Experience EDPSYCH 2030 (200:030) Dynamics of Human Development. Introduction to computational thinking and computer programming. Taught as a survey of programming environments used by elementary education teachers. Topics include structure of programming and the study of several programming environments used by students at a variety of age/ability levels.					
	01	2:00-2:50	MWF	Schafer	ITT	322
<b>CS 1100</b>	<b>Web Development: Client-Side Coding – 3 hrs.</b>					
	01	9:30-10:45	TR	East	ITT	322
<b>CS 1130</b>	<b>Visual BASIC Programming - 3 hrs.</b> 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.					
	02	2:00-3:15	TR	East	ITT	322
<b>CS 1140</b>	<b>Introduction to Programming Environments for Education – 3 hrs.</b>					
	01	12:00-12:50	MWF	Schafer	ITT	322
<b>CS 1160</b>	<b>C/C++ Programming - 3 hrs.</b> 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	2:00-3:15	TR	Fienup	ITT	328
<b>CS 1410</b>	<b>Computer Organization - 3 hrs.</b> Study of computers in terms of their major functional units. Machine representations of data, digital logic, memory, CPUs, buses, and input/output. Instruction set architectures and their implementations, addressing methods, and sequencing. Assembly language programming. Prerequisite(s) or corequisite(s): 810:051 (CS 1510).					
	01	12:30-1:45	TR	Poleksic	ITT	328
<b>CS 1510</b>	<b>Introduction to Computing - 4 hrs.</b> 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	10:00-10:50	MWF	Diesburg	ITT	328
		+ 10:00-11:50	T lab		WRT	112

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CS 1520	<b>Data Structures - 4 hrs.</b> Introduction to use and implementation of data and file structures such as sets, hash tables, trees, queues, heaps and graphs. Basic algorithm analysis. Searching and sorting. Basic object-oriented analysis, design, and modeling tools. Prerequisite(s): 810:051 (CS 1510). Prerequisite(s) or corequisite(s): 810:080 (CS 1800).					
	02	8:00-9:15	TR	Fienup	ITT	328
		+ 8:00-9:50	W lab		WRT	112
CS 1800	<b>Discrete Structures - 3 hrs.</b> Introduction to logical forms, arguments, predicates, and quantified statements; methods of proof; elementary number theory; counting; sequences; sets; functions; relations; graphs; and Boolean algebra in the context of computer science. Prerequisite(s): 810:030 (CS 1130), 810:036 (CS 1160), or 810:051 (CS 1510).					
	01	1:00-1:50	MWF	McCormick	ITT	322
	02	3:30-4:45	TR	Poleksic	ITT	328
CS 2420	<b>Computer Architecture – 3 hrs.</b> Undergraduate Enrollment Requirement(s): 810:041 (CS 1410).					
	01	11:00-12:15	TR	Fienup	ITT	328
CS 2530	<b>Intermediate Computing - 3 hrs.</b> Intermediate software development in an object-oriented environment. Further experience with object-oriented analysis and design, including modeling languages. Focus on software reuse through frameworks and patterns and on software development methodology and tools. Prerequisite(s): 810:051 (CS 1510); 810:052 (CS 1520); 810:080 (CS 1800).					
	01	12:00-12:50	MWF	Holmes	ITT	328
CS 2720	<b>Software Engineering – 3 hrs.</b> Study of software life cycle models and their phases-planning, requirements, specifications, design, implementation, testing, and maintenance. Emphasis on tools, documentation, and applications. Prerequisite(s): 810:052 (CS 1520); 810:080 (CS 1800).					
	01	9:00-9:50	MWF	McCormick	ITT	328
CS 2880	<b>Topics in Computing: 3D Graphics in Maya - 3 hrs.</b> No experience required. May be repeated on a different topic.					
	11	11:00-11:50	MWF	Jacobson	ITT	134
CS 3140/5140	<b>Database Systems – 3hrs</b> Undergraduate Enrollment Requirement(s): 810:052 (CS 1520); 810:080 (CS 1800); junior standing.					
	01	2:00-3:15	TR	Gray	ITT	28
CS 3470/5470	<b>Networking – 3 hrs.</b> Undergraduate Enrollment Requirement(s): Prerequisite(s): 810:041 (CS1410); 810:052 (CS 1520); 810:080 (CS 1800); junior standing. Prerequisites for Department of Technology majors: 330:037 (TECH 1037); 330:041 (TECH 1037); 330:041 (TECH 2041); 330:042 (TECH 2042); 810:036 (CS 1160)					
	01	1:00-1:50	MWF	Diesburg	ITT	328
	02	ON-LINE		Gray	ITT	322
CS 3610/5610	<b>Artificial Intelligence – 3 hrs</b> Undergraduate Enrollment Requirement(s): 810:052 (CS 1520); 810:080 (CS 1800); junior standing.					
	01	10:00-10:50	MWF	Schafer	ITT	322
CS 4410/5410	<b>System Security – 3 hrs.</b> Undergraduate Enrollment Requirement(s): 810:147 (CS 3470/CS 5470); junior standing.					
	01	8:00-9:15	TR	Gray	ITT	322
CS 4550/5550	<b>Translation of Programming Languages – 3 hrs.</b> Undergraduate Enrollment Requirement(s): 810:053 (CS 2530) and one of the following: 810:153 (CS 3530), 810:154 (CS 3540), 810:181 (CS 3810/5810); junior standing.					
	01	12:30-1:45	TR	Wallingford	ITT	322
CS 6800	<b>Theoretical Foundations of Computing – 3 hrs.</b> Graduate Enrollment Requirement(s): 810:181 (CS 3810/CS 5810).					
	01	9:30-10:45	TR	Poleksic	ITT	328