Fall 2015 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	1:00-1:50	MWF	Barr	ITT	322
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	11:00-12:15	TR	Jacobson	ITT	134
	02	2:00-3:15	TR	East	ITT	28
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	**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 – 2 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. Undergraduate Enrollment Require(s): Level One Field Experience.					
	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	2:00-3:15	TR	Gray	ITT	328
CS 1410	**Computer Organization - 3 hrs.**					
	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): CS 1510.					
	01	3:30-4:45	TR	Poleksic	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	Diesburg	ITT	328
		+ 8:00-9:50	R lab		WRT	112
	02	11:00-11:50	MWF	Diesburg	ITT	328
		+ 10:00-11:50	R lab		WRT	112
	03	9:30-10:45	TR	Jacobson	ITT	134
		+ 10:00-11:50	M lab		WRT	112
	04	9:30-10:45	TR	Jacobson	ITT	134
		+ 10:00-11:50	F lab		WRT	112
CS 1520	**Data Structures - 4 hrs.**					
	Introduction to use and implementation of data and file structures such as sets, hash tables, trees, queues, heaps and graphs. Basic algorithm analysis. Searing and sorting. Basic object-oriented analysis, design, and modeling tools. Prerequisite(s): CS 1510. Prerequisite(s) or corequisite(s): CS 1800.					
	01	8:00-9:15	TR	Fienup	ITT	328
		+ 8:00-9:50	W lab		WRT	112

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CS 1800	**Discrete Structures - 3 hrs.** 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): CS 1130, CS 1160, or CS 1510.					
	01	12:30-1:45	TR	Poleksic	ITT	322
CS 2420	**Computer Architecture – 3 hrs.** Undergraduate Enrollment Requirement(s): CS 1410					
	01			Fienup	ONLINE	ONLINE
CS 2530	**Intermediate Computing - 3 hrs.** 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): CS 1510; CS 1520; CS 1800.					
	01	12:00-12:50	MWF	Holmes	ITT	322
CS 3120	**User Interface Design – 3 hrs**. Examination of the theory, design, programming, and evaluation of interactive application interfaces. Built around a large design and implementation project that is completed in groups. Topics include human capabilities and limitations, the interface design and engineering process, prototyping and interface construction, interface evaluation, and possibly topics such as data visualization and the World Wide Web. Prerequisite(s): for Computer Science majors: CS 2530; plus one of the following – CS 3140/5140,CS 3150/5150, CS 3530, CS 3540, CS 2720; junior standing. Prerequisite(s) for non-Computer Science majors: junior standing; consent of instructor.					
	01	2:00-2:50	MWF	Schafer	ITT	328
CS 3140	**Database Systems – 3hrs** Prerequisite(s): CS 1520; CS 1800; junior standing.					
	01	8:00-9:15	TR	Gray	ITT	322
CS 3470	**Networking – 3 hrs.** Prerequisite(s): CS 1410; CS 1520; CS 1800; junior standing. Prerequisites for Department of Technology majors: TECH 1037; TECH 2041; TECH 2042; CS 1160.					
	01	11:00-12:15	TR	Gray	ITT	328
CS 3510	**Topics in Programming: Drupal – 1 hr. (1st 5 weeks of semester)** Prerequisite(s): CS 1520; CS 1800					
	90	11:00-11:50	MWF	Wallingford	ITT	322
CS 3530	**Design and Analysis of Algorithms** Prerequisite(s): CS 1520; CS 1800.					
	01	9:30-10:45	TR	Poleksic	ITT	322
CS 3610	**Artificial Intelligence – 3 hrs.** Prerequisite(s): CS 1520; CS 1800; junior standing.					
	01	10:00-10:50	MWF	Schafer	ITT	328
CS 3730	**Project Management – 1 hr. (first 5 weeks of semester)** Prerequisite(s): CS 2530; CS 2720; junior standing.					
	01	2:00-3:15	TR	Fienup	ITT	322
CS 4550	**Translation of Programming Languages – 3 hrs.** Prerequisite(s): CS 2530 and one of the following: CS 3530, CS 3540, CS 3810/5810; junior standing. Prerequisite or co-requisite: CS 3730.					
	01	11:00-12:15	TR	Wallingford	ITT	322