

Spring 2012 Schedule of Classes

Dept	Section	Time	Days	Instructor	Bldg	Rm	OPT/MAX
COMPUTER SCIENCE							
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	3:30-4:45	TTh	Barr	ITT	322	30/40
CS 1020	Microcomputer Systems – 3 hrs. Prerequisite(s): CS 1010 or any one-semester programming course. This course is part of the Computer Applications certificate.						
	01	12:30-1:45	TTh	Jacobson	ITT	28	30/40
CS 1025	Computational Modeling and Simulation - 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	5:30-8:20	Th	Jacobson	LNG	213	30/40
CS 1050	Computing for All – 3 hrs. No credit available for Computer Science majors.						
	01	12:30-1:45	TTh	East	ITT	328	25/35
CS 1120	Media Computation – 3 hrs. No programming experience required. Of special interest to students majoring in Communications, Graphic Communications, Art, Music and other humanities disciplines.						
	01	2:00-2:50	MWF	Schafer	ITT	322	30/40
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	1:00-1:50	MWF	Holmes	ITT	328	30/40
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	12:00-12:50	MWF	O’Kane	ITT	328	30/30
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): 810:051 (CS 1510).						
	01	2:00-2:50	MWF	O’Kane	ITT	328	35/40
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	10:00-10:50	MWF	Schafer	ITT	322	30/40
		+ 10:00-11:50	T lab		WRT	112	
	02	11:00-12:15	TTh	Gray	ITT	322	30/40
	+ 10:00-11:50	W 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. 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).						
	01	11:00-11:50	MWF	McCormick	ITT	322	30/40
		+ 10:00-11:50	Th lab		WRT	112	
	02	8:00-9:15	TTh	Fienup	ITT	328	30/40
	+ 8:00-9:50	W lab		WRT	112		
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): 810:030 (CS 1130), 810:036 (CS 1160), or 810:051 (CS 1510).						
	01	9:00-9:50	MWF	McCormick	ITT	322	30/40
	02	12:00-12:50	MWF	Schafer	ITT	322	30/40

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CS 2420	Computer Architecture – 3 hrs.						
	Prerequisite(s): CS 1410.						
	01	2:00-3:15	TTh	Fienup	ITT	328	25/35
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): 810:051 (CS 1510); 810:052 (CS 1520); 810:080 (CS 1800).						
	01	9:00-9:50	MWF	Hughes	ITT	328	25/35
CS 2720	Software Engineering – 3 hrs.						
	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	11:00-11:50	MWF	Hughes	ITT	328	30/40
CS 2880	Topics in Computing: Visual Effects, Animation, and Motion Graphics - 3 hrs.						
	Adobe After Effects and Flash, principles of digital compositing, and special effects for film, video and web. No experience required. May be repeated on a different topic.						
	12	11:00-11:50	MWF	Jacobson	LNG	213	30/40
CS 3150/5150	Information Storage & Retrieval – 3hrs.						
	Prerequisite(s): 810:052 (CS 1520); 810:080 (CS 1800); junior standing.						
	01	10:00-10:50	MWF	O’Kane	ITT	328	25/35
CS 3430/5430	Operating Systems – 3 hrs.						
	Prerequisite(s): 810:041 (CS 1410); 810:052 (CS 1520); 810:080 (CS 1800); junior standing.						
	01	11:00-12:15	TTh	Fienup	ITT	328	25/35
CS 3610/5610	Artificial Intelligence – 3 hrs						
	Prerequisites: 810:052 (CS 1520); 810:080 (CS 1800); junior standing.						
	01	9:30-10:45	TTh	East	ITT	328	25/35
CS 3750/5750	Software Testing – 3 hrs.						
	Prerequisite(s): 810:072 (CS 1072) or 810:172 (CS 2720); junior standing.						
	01	1:00-1:50	MWF	McCormick	ITT	322	25/35
CS 4410/5410	System Security – 3 hrs.						
	Prerequisite(s): 810:147 (CS 3470); junior standing.						
	01	8:00-9:15	TTh	Gray	ITT	322	25/35
CS 4550/5550	Translation of Programming Languages – 3 hrs.						
	Prerequisite(s): 810:153 (CS 3530) or 810:154 (CS 3540) or 810:181 (CS 3810); junior standing.						
	01	12:30-1:45	TTh	Wallingford	ITT	322	25/35
CS 6800	Theoretical Foundations of Computing – 3 hrs.						
	Prerequisite(s): 810:181 (CS 3810).						
	01	2:00-3:15	TTh	Gray	ITT	322	25/35
CAP 3140	Environment, Technology & Society – 2 hrs.						
	Section ___ focuses on today’s digital technology-saturated environment and its impact on society, discussing legal, Ethical and social issues.						
	___	3:30-5:20	T	East	ITT	328	30/35
CAP 3140	Environment, Technology & Society – 2 hrs.						
	Section ___ focuses on today’s digital technology-saturated environment and its impact on society, discussing legal, Ethical and social issues.						
	___	3:30-5:20	W	East	ITT	328	30/35
CAP 3140	Environment, Technology, & Society – 2 hrs.						
	Section ___ focuses on today’s digital technology-saturated environment and its impact on society, discussing legal, Ethical and social issues.						
	___	3:30-5:20	Th	East	ITT	328	30/35