

COURSE	Academic Year	TERM	Title	requirements
CISC101	2011	F	Elements of Computing Science I	Experience with multiple programming languages and approaches to teaching introductory programming. Substantial knowledge of and experience with Matlab. Good interpersonal and presentation skills.
CISC101	2011	W	Elements of Computing Science I	Knowledge of elementary Python or willingness to learn
CISC121	2011	F	Intro to Computing Science I	2 terms of experience programming in a procedural language similar to Python, and willingness to learn Python quickly
CISC121	2011	W	Intro to Computing Science I	Willingness to learn fundamentals of PYTHON language (quickly).
CISC124	2011	F	Intro to Computing Science II	3 terms of experience programming in an object-oriented language (with a strong preference for Java) and programming of GUI interfaces (with a strong preference for Swing)
CISC124	2011	W	Intro to Computing Science II	Knowledge of JAVA, familiarity with SWING.
CISC203	2011	F	Discrete Math for Computing Science	
CISC204	2011	W	Logic for Computing Science	Upper class standing or graduate student in computer science. Course in logic for computing with at least an A- grade.
CISC220	2011	F	System-Level Programming	4 terms experience in programming in C, including low-level programming with pointers, and must have experience with shell programming in Linux (not just GUI interfaces in Linux).
CISC221	2011	W	Computer Architecture	Familiarity with assembly language (Intel and/or MIPS), and C.
CISC223	2011	W		Good knowledge of finite state machines, regular expressions and context-free grammars.
CISC235	2011	W	Data Structures	Must know Java well

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CISC260	2011	W	Programming Paradigms	
CISC271	2011	F	Scientific Computing	Knowledge of Numerical Analysis, Calculus, Linear Algebra, MATLAB.
CISC320	2011	W	Fundamentals of Software Development	Must know ISO C++ well
CISC322	2011	F	Software Architecture	Knowledge of design patterns and architecture styles, UML, C++, and a scripting language (e.g. Perl). Good knowledge of Makefiles.
CISC324	2011	W	Operating Systems	Solid knowledge of Java programming language, including experience in concurrent programming. Have excelled in an undergraduate course in Operating Systems
CISC325	2011	F	Human Computer Interaction	Have followed 325 or comparable experience in HCI.
CISC327	2011	F	Software Quality Assurance	MS-DOS/Windows Command Line Programming (DOS and Batch file Commands), UNIX C Shell Scripting, Software engineering processes and their steps.
CISC330	2011	F	Computer-Integrated Surgery	Experience in computer-assisted Surgery.
CISC332	2011	W	Database Management Systems	Knowledge of SQL and relational schema design. Familiarity with a DBMS such as DB2 or MySQL, Java and database application development.
CISC333	2011	F	Data Mining	some experience with data mining, and some familiarity with Rapidminer
CISC340	2011	F	Digital Systems	Must have experience with the VHDL hardware description language
CISC352	2011	F	Artificial Intelligence	Previously taken CISC352 or an equivalent course, using the Russell & Norvig textbook "Artificial Intelligence: A Modern Approach".
CISC365	2011	F	Algorithms I	Solid Knowledge of algorithm design and analysis

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CISC454	2011	W	Computer Graphics	Solid knowledge of linear algebra. Substantial experience programming in C++. An undergraduate computer graphics course (grade B or better). Some knowledge of GPU programming.
CISC458	2011	W	Programming Language Processors	Familiarity with multi-phase compiler construction using S/SL.
CISC471	2011	F	Computational Biology	Programming in PERL and MATLAB and design new problems. Should be familiar with publicly available tools in Bioinformatics. TA for 471 or equivalent before
CISC490	NEW	W	490 Topics in Computing Science I - The History of Personal Computing	
CISC491	NEW	W	Topics in Computing Science II - Fuzzy Theory and Fuzzy Algorithms	
CISC492	NEW	W	Topics in Computing Science III - Software Startups	
CISCP81	2011	F	Computers: Applications & Implications	Familiarity with HTML. be familiar with CSS, be able to read and understand simple JavaScript, be somewhat knowledgeable about computer representations of data, and they should be taking no courses, nor have any other commitments, that might conflict with my scheduled labs

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CMPE212	2011	F	Computing Science for Engineers	Familiarity with JAVA.
COGS100	2011	F	Intro to Cognitive Science	Familiarity with Cognitive Psychology , and Artificial Intelligence.

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