

Department of Information and Computer Science

Program Competencies Grid

(updated: 6/14/07)

Program Mission	Academic Goals	Program Competencies	Courses(s) in which Program Competency is covered	Place(s) in which Program Competency is assessed	Instrument(s) used to assess Program Competency	Summary of evidence collected	Action(s) taken based on review of assessment evidence
Prepare students for a broad range of computer opportunities in industry as well as in graduate studies.		Apply problem-solving and critical-thinking skills and use popular computer technologies in producing technology solutions.	CS 140, CS151, CS208, CS219, CS365, CS360_or_IS361	Exam given to all graduating seniors via eCompanion.	1) Core portion of comprehensive exam, 2) Exit survey	16, 7% of students met expectations. 83, 3% did not meet expectations.	Options to be discussed: Lower cutoffs for results categories (meets expectations, etc.) Move exam and exit interview to a capstone course.
		Communicate effectively, ethically, and professionally in a team environment.	CS 300	CS 300	1) CS 300 core assessment, 2) Exit survey.	No evidence because assessment plan not approved prior to approval of Spring 2007 CS 300 syllabi.	Option to be discussed: Move measurement of this competency out of CS 300 and into a capstone course.
		ICS/CS, ICS/SE, CS: Students will have skills necessary for entry-level employment in software engineering and IT analysis positions.	ICS/CS, ICS/SE, CS: Design and Implement elegant programs that utilize data structures and operating systems concepts.	CS351, CS352	Exam given to all graduating seniors via eCompanion.	1) Computer Science portion of comprehensive exam, 2) Exit survey.	Options to be discussed: Lower cutoffs for results categories (meets expectations, etc.) Move exam and exit interview to a capstone course.
		ICS/CS, ICS/SE, CS: Students will have the necessary knowledge to be admitted to Computer Science graduate school programs.					
		ICS/SA, M/CIS, CBIS: Students will have skills necessary for entry-level employment in systems analysis positions.	ICS/SA, M/CIS, CBIS: Identify appropriate information technologies for a given organizational context and explain how to incorporate such technologies into the given organizational context.	IS205, IS317, and IS320 or IS315, and IS316	CS 300	1) Systems Analysis portion of comprehensive exam, 2) Exit survey.	Options to be discussed: Lower cutoffs for results categories (meets expectations, etc.) Move exam and exit interview to a capstone course.
		ICS/SA, M/CIS, CBIS: Students will have the necessary knowledge to be admitted to Information Systems graduate school programs.					
		ICS/NW: Students will have skills necessary for entry-level employment in networking and security positions.	ICS/NW: Demonstrate proficiency in the use of popular computer networking and security concepts and technologies.	CS365, CS367, CS373	Exam given to all graduating seniors via eCompanion.	1) Networking portion of comprehensive exam, 2) Exit survey.	Options to be discussed: Lower cutoffs for results categories (meets expectations, etc.) Move exam and exit interview to a capstone course.
		ICS/NW: Students will have the necessary knowledge to be admitted to graduate school programs with a networking and security emphasis.					
	ICS/DM: Students will have skills necessary for entry-level employment in data management positions.	ICS/DM: Design and implement elegant data management solutions.	IS361, IS362	Exam given to all graduating seniors via eCompanion.	1) Data management portion of comprehensive exam, 2) Exit survey.	No evidence because no ICS/DM Parkville day time graduating seniors.	Options to be discussed: Lower cutoffs for results categories (meets expectations, etc.) Move exam and exit interview to a capstone course.
	ICS/DM: Students will have the necessary knowledge to be admitted to graduate school programs with a data management emphasis.						

Legend:

ICS = Information and Computer Science
 The ICS degree has 5 emphases: SA = systems analysis CS = compute science,
 SE = software engineering, NW = networking and security, DM = data management
 The campus centers have 3 degrees: CS = computer science,
 M/CIS = Management/Computer Information Systems, CBIS = Computer Based Information Systems