ASSESSMENT MATRIX



PROGRAM OR SCHOOL	M.S. in Information Science				
Assessment Coordinator	Name: Paul Munro	Email: pmunro@sis.pitt.edu	Phone: 624-9427		
for Program or School					
Program or School	The Mission of the School of Information Sciences is to support and advance the broader				
Mission Statement	education, research and service mission of the University by educating students, furthering knowledge and contributing our expertise to advance progress within an organization or across society in general through information.				
Program or School	Theoretical Understanding: Understand and employ the respective roles of				
Goals	people, information and technology in the development of information systems.				
	 Proficiency in Information-related skills: Acquire proficiency in skills that span a broad range with a significant level of depth and understanding. Ideally the graduate's skill set should include the ability to analyze information system structure and performance, to design databases, and to manage software projects. Ability to apply theory and skills: Experience project work both as individuals and in teams that demonstrates the ability to apply classroom knowledge in novel ways in real-world settings 				

Learning Outcomes	Assessment Methods	Standards of Comparison	Interpretation of Results	Use of Results/Action Plan
What will students know and be	How will the outcome be measured? Who	How well should students be able to	What do the data show?	Who reviewed the finding? What
able to do when they graduate?	will be assessed, when, and how often?	do on the assessment?		changes were made after reviewing the
				results?
1) Theory: Students will	Courses in this area will test the	80% of the sampled projects	About 1 in 4 students are	Faculty will examine the
demonstrate fundamental	competency of students to	or papers are expected to	lagging in the theory area (see	curriculum and the outcomes
knowledge of the abstract,	perform specific calculations, to be	meet or exceed expectations	attachment).	further to determine
theoretical principles of	determined by the faculty, for each	in demonstrating a working		contributing factors and to
information science.	of the content areas (eg entropy,	knowledge of the formal		identify approaches to
These include, but are not	matrix inversion, disjunctive	constructs underlying		improving student performance.
limited to information	normal form). Courses in this area	information science.		
theory, graph theory,	will incorporate items into exams			
statistical and/or	to be used as indicators for these			
probabilistic methods	specific competencies.			

Learning Outcomes What will students know and be able to do when they graduate?	Assessment Methods How will the outcome be measured? Who will be assessed, when, and how often?	Standards of Comparison How well should students be able to do on the assessment?	Interpretation of Results What do the data show?	Use of Results/Action Plan Who reviewed the finding? What changes were made after reviewing the results?
2) Analysis: Students will evaluate the structure and analyze the performance of an existing information system with respect to technical capabilities and organizational requirements.	Two faculty members will examine a representative sample of student projects or case studies from the "Systems and Technology Area – General Systems and Technology" (e.g., INFSCI 2510 Information Systems Analysis) biannually using a faculty-developed rubric: 1. Exceeds expectations 2. Meets expectations 3. Does not meet expectations	80% of the sampled projects or case studies are expected to meet or exceed expectations in applying best practices in eliciting and interpreting system requirements and constructing UML-compliant models (class, state, and activity diagrams).	To be measured in 2012-2013.	
3) Design: Students will design information systems supporting functional and performance requirements that reflect an understanding of the cognitive information processing capabilities of humans.	Two faculty members will examine a representative sample of student projects from the "Cognitive Area – Cognitive Science and Systems" (e.g., INFSCI 2470 Interactive System Design) biannually using a faculty-developed rubric: 1. Exceeds expectations 2. Meets expectations 3. Does not meet expectations	80% of the sampled projects will employ best contemporary practices in interactive programming and usability engineering.	Spring 2012: 10 group projects from IS2470 were evaluated by 2 faculty members and a group of peers from the same class based on the written report, the project usability, and an oral presentation. 9 of the projects met or exceeded expectations on usability and oral presentations, and only 7 were above threshold on the written report.	Changes to be considered include more feedback on written report organization. This aspect of our program probably requires special attention especially since a large fraction of our students are international.
4) Working in teams: Students will experience professional engagement involving cooperative teamwork.	 Every student is expected to participate in a team project involving as a project leader and as a non-leader. A random sample of MSIS students in their last term will be interviewed by a faculty team. Students must be able to describe a project in which they led a team, and one in which they were <i>not</i> the leader. 	 At least 75% of the interviewed students will be able to describe problems they faced as team leaders and how the problems were addressed. 90% of MSIS graduates will have completed a project involving a team and be able to explain their role in the project. 	To be initiated during the 2013-14 academic year.	