

## Exhibit B:

### Matrix Correlating CS Educational Objectives with ABET Program Outcomes

ITK-CS Objectives	CS - ABET Program Outcomes										
	A	B	C	D	E	F	G	H	I	J	K
1	•									•	
2	•	•	•						•	•	•
3				•							
4						•					
5	•	•							•	•	•
6					•		•				
7								•			

#### ITK – CS Program Objectives

1. Demonstrate knowledge of the major theories and principles of computer science.
2. Demonstrate a proficiency in designing and developing software systems.
3. Demonstrate a proficiency in working in a collaborative environment.
4. Demonstrate a proficiency in making oral presentations and writing technical reports.
5. Demonstrate the ability to apply principles and theories of computer science in a professional setting under supervision.
6. Demonstrate an understanding of the ethical standards of the profession and the social implications of their professional activities.
7. Demonstrate an interest in and the ability to pursue life long learning

#### CS - ABET Program Outcomes for Accrediting Computing Programs

- A. An ability to apply knowledge of computing and mathematics appropriate to the discipline
- B. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- C. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired standards
- D. An ability to function effectively on teams to accomplish a common goal
- E. An understanding of professional, ethical, legal, security and social issues and responsibilities
- F. An ability to communicate effectively with a wide range of audience
- G. An ability to analyze the local and global impact of computing on individuals, organizations, and society
- H. Recognition of the need for and an ability to engage in continuing professional development
- I. An ability to use current techniques, skills, and tools necessary for computing practice
- J. An ability to apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices
- K. An ability to apply design and development principles in the construction of software systems of varying complexity

## Matrix Correlating IS Educational Objectives with ABET Program Outcomes

ITK - IS Objectives	IS - ABET Program Outcomes									
	A	B	C	D	E	F	G	H	I	J
1	•	•	•						•	•
2		•					•			•
3				•						
4						•				
5	•	•							•	•
6					•		•			
7								•		

### ITK – IS Program Objectives

1. Demonstrate a proficiency in designing and developing application systems by employing appropriate methodologies, principles, techniques, tools, and languages.
2. Demonstrate knowledge of the impact and importance of information technology in the business environment.
3. Demonstrate a proficiency in working in a collaborative environment.
4. Demonstrate a proficiency in making oral presentations and writing technical reports.
5. Demonstrate the ability to apply principles and theories of information systems in a professional setting under supervision.
6. Demonstrate an understanding of the ethical standards of the profession and the social implications of their professional activities.
7. Demonstrate an interest in and the ability to pursue life long learning.

### IS - ABET Program Outcomes for Accrediting Computing Programs

- A. An ability to apply knowledge of computing and mathematics appropriate to the discipline
- B. An ability to analyze a problem, and identify and define the computing requirements appropriate to its solution
- C. An ability to design, implement, and evaluate a computer-based system, process, component, or program to meet desired standards
- D. An ability to function effectively on teams to accomplish a common goal
- E. An understanding of professional, ethical, legal, security and social issues and responsibilities
- F. An ability to communicate effectively with a wide range of audience
- G. An ability to analyze the local and global impact of computing on individuals, organizations, and society
- H. Recognition of the need for and an ability to engage in continuing professional development
- I. An ability to use current techniques, skills, and tools necessary for computing practice
- J. An understanding of processes that support the delivery and management of information systems within a specific application environment.

**Exhibit C:**

ITK Assessment  
Correlation of Courses to Objectives

Objective	IS Courses	CS Courses
A	178	279
B	261	261
C	178	279
D	378	(378)
E	160	160
F	363, 378	279, 378
G	160	160
H	398	398
I	398	398
J	261, 341	279, 326
K		279, 326

## Exhibit D:

### Assessment Data Collection and Evaluation Schedule

The table below shows when assessment information will be collected from courses.

Year	Spring	Summer/Early Fall	Fall
2008		ITK 398	ITK 178 & 279
2009	ITK 261, 341 & 363	ITK 398	ITK 160 & 378
2010	ITK 326	ITK 398	ITK 178 & 279
2011	ITK 261, 341 & 363	ITK 398	ITK 160 & 378
2012	ITK 326	ITK 398	ITK 178 & 279

Example:

Materials to be used for data collection

### ITK 178

#### Outcome

#### Assignment to be used

A	graphing program (#4) - math
C	program #3 – design
F	research paper
J	take-home projects from class 2
K	program #3

## Exhibit E:

### Faculty Assignments for Assessment

1. [Dr. Mary Elaine Califf](#) 178-a, 279, 326
2. [Dr. Amy Chou](#) 261, 378
3. [Dr. Galen Crow](#) 160, 363
4. [Dr. Terry Dennis](#) 160, 398
5. [Dr. Tibor Gyires](#) 279-a, 378
6. [Dr. Bryan Hosack](#) 178-c, 261, 378
7. [Dr. Chu Jong](#) 279-c, 326
8. [Dr. Chung - Chih Li](#) 279-a, 378
9. [Dr. Billy Lim](#) 326, 378
10. [Dr. Pruthikrai Mahatanankoon](#) 261, 326
11. [Dr. Jihad Qaddour](#) 279-c, 398
12. [Dr. Bob Rariden](#) 261, 326, 363
13. [Dr. Glen Sagers](#) 279-f, 178
14. [Dr. Amit Shesh](#) 279-f, 326
15. [Dr. Kyoungwon Suh](#) 178, 279-j
16. [Dr. Yongning Tang](#) 279-k, 398
17. [Dr. Douglas Twitchell](#) 178-a, 279-k
18. [Dr. Joaquin Vila-Ruiz](#) 279-j, 378
19. [Dr. David Wallace](#) 178-c, 398
20. [Dr. James Wolf](#) 160, 363

For Fall '08 semester, ITK 178 (taught by Dr. Suh) and ITK 279 (taught by Dr. Califf) are set to be assessed. The assessment data should be made available to the Assessment Committee by the Wed on the final exam week (**Dec. 10, 2008**). The following faculty members are tasked to do the assessment for the aforementioned two courses and turn in their assessment reports by **Feb. 15, 2009**.

Semester	Course	ABET Outcome	Assessors
Fall 2008	ITK 178	(a)	Califf, Twitchell
Fall 2008	ITK 178	(c)	Hosack, Wallace
Fall 2008	ITK 279	(a)	Gyires, Li
Fall 2008	ITK 279	(c)	Jong, Qaddour
Fall 2008	ITK 279	(f)	Sagers, Shesh
Fall 2008	ITK 279	(j)	Suh, Vila-Ruiz
Fall 2008	ITK 279	(k)	Twitchell, Tang

For Spring '09 semester, ITK 261 and ITK 363 are set to be assessed. The assessors will be determined soon based on the above faculty assignment list.