Multi-Year Assessment Plan Schedule With Goals – Updated August 2016

Academic Year 2016-17

Activity	Information Systems Learning	Computer Science Learning	Mathematics Learning Outcome
	Outcome	Outcome	3
ETS Exam (A)	Graduates will have a coherent and broad based knowledge of their discipline.	Graduates will have a coherent and broad based knowledge of their discipline.	Graduates will have a coherent and broad based knowledge of their discipline.
	Graduates will be prepared for careers that use information systems in business, industry, government and the non-profit sector; and graduate study in fields related to information systems.	Graduates will be prepared for careers that use computer science in business, industry, government and the non-profit sector; and graduate study in fields related to computer science.	Graduates will be prepared for careers that use mathematics in business, industry, government and the non-profit sector; graduate study in fields related to mathematics; and teaching mathematics and computer science at the secondary level.
ETS Substructures and Algorithms Subscore (A)		Students will us the theory of algorithms and computation to solve problems.	
ETS Computer Organization, Architecture and Operating Systems Subscore (A)		Students will analyze the interaction between hardware and software.	
ETS Calculus Subscore (A)			Students will be able to demonstrate a facility with analytical concepts.
ETS Algebra Subscore (A)			Students will be able to demonstrate a facility with algebraic structures.
ETS Applied Subscore (A)			Students will be able to apply their mathematical knowledge to solve problems.
Senior Seminar Oral Presentations (A)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)
Senior Seminar Written Presentations (A)	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy). 	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy). 	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy).

Activity	Information Systems Learning	Computer Science Learning	Mathematics Learning Outcome
	Outcome	Outcome	
ETS Proficiency Profile:	Students will be able to apply their	Students will be able to apply their	Students will be able to apply their
Reading/Critical Thinking (A)	technical knowledge and critical	technical knowledge and critical	mathematical knowledge to solve
	thinking to solve problems.	thinking to solve problems.	problems.
ETS Proficiency Profile:	Students will be able to write about	Students will be able to write about	Students will be able to write about
Writing (A)	their work with precision, clarity and	their work with precision, clarity and	their work with precision, clarity and
	organization	organization	organization
ETS Proficiency Profile:	Students will be able to understand	Students will be able to understand	Students will be able to understand
Mathematics (A)	and create arguments supported by	and create arguments supported by	and create arguments supported by
	quantitative evidence.	quantitative evidence.	quantitative evidence.
MTH242 Signature Assignment (A)			Students will be able to write proofs.
CSC 254 Signature Assignment (A)	Students will be able to write correct	Students will be able to write correct	
	and robust software.	and robust software.	
CSC 314 Signature Assignment (A)	Students will analyze the interaction	Students will analyze the interaction	
	between hardware and software.	between hardware and software.	
MTH 383 Signature Assignment (A)			Students will be able to use
			technology to solve problems.
ISS342 Group assignment (2)	Students will collaborate effectively	Students will collaborate effectively	
	in teams.	in teams.	
CSC 493 Signature Assignment (2)		Students will be able to apply their	
		technical knowledge and critical	
NATILIOSO O: (A)		thinking to solve problems.	
MTH 352 Signature Assignment (2)			Students will collaborate effectively in teams.
MTH 444 Signature Assignment (2)			Students will be able to write proofs.

Other:

MTH213 Assessment (Liberal Studies) (A)	Students will be able to:
	1. Demonstrate a facility with operations on the integers (1c, 1d)
	2. Demonstrate a facility with operations on the rational numbers (1c, 1d)
	3. Apply concepts from number theory to solve problems (1b, 1c, 1d)
MTH223 Assessment (Liberal Studies) (A)	Students will be able to:
	Construct geometric figures using a compass and straight edge (1c, 1d)
	2. Compute area and volume (1d, 1d)
	3. Use probability and statistics to solve problems (1b, 1c, 1d)
GE: MTH144, MTH164, MTH173, MTH303 Assessment	A. Students will demonstrate effective written and oral communication skills, both as
(Random Samples) (A)	individuals and in groups.
	 Students will be able to formulate a mathematical model from a verbal description of a problem.
	B. Students will use quantitative analysis, qualitative analysis, and logic skills to address
	questions and solve problems.
	2. Students will be able it solve non-routine problems using logic and quantitative
	techniques.
	3. Students will be able to construct solutions to problems using computational
	techniques.

Academic Year 2017-18

Activity	Information Systems Learning Outcome	Computer Science Learning Outcome	Mathematics Learning Outcome
ETS Exam (A)	Graduates will have a coherent and broad based knowledge of their discipline.	Graduates will have a coherent and broad based knowledge of their discipline.	Graduates will have a coherent and broad based knowledge of their discipline.
	Graduates will be prepared for careers that use information systems in business, industry, government and the non-profit sector; and graduate study in fields related to information systems.	Graduates will be prepared for careers that use computer science in business, industry, government and the non-profit sector; and graduate study in fields related to computer science.	Graduates will be prepared for careers that use mathematics in business, industry, government and the non-profit sector; graduate study in fields related to mathematics; and teaching mathematics and computer science at the secondary level.
ETS Substructures and Algorithms Subscore (A)		Students will us the theory of algorithms and computation to solve problems.	
ETS Computer Organization, Architecture and Operating Systems Subscore (A)		Students will analyze the interaction between hardware and software.	
ETS Calculus Subscore (A)			Students will be able to demonstrate a facility with analytical concepts.
ETS Algebra Subscore (A)			Students will be able to demonstrate a facility with algebraic structures.
ETS Applied Subscore (A)			Students will be able to apply their mathematical knowledge and critical thinking to solve problems.
Senior Seminar Oral Presentations (A)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)
Senior Seminar Written Presentations (A)	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy). 	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy). 	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy).

Activity	Information Systems Learning Outcome	Computer Science Learning Outcome	Mathematics Learning Outcome
ETS Proficiency Profile: Reading/Critical Thinking (A)	Students will be able to apply their technical knowledge and critical thinking to solve problems.	Students will be able to apply their technical knowledge and critical thinking to solve problems.	Students will be able to apply their mathematical knowledge to solve problems.
ETS Proficiency Profile: Writing (A)	Students will be able to write about their work with precision, clarity and organization	Students will be able to write about their work with precision, clarity and organization	Students will be able to write about their work with precision, clarity and organization
ETS Proficiency Profile: Mathematics (A)	Students will be able to understand and create arguments supported by quantitative evidence.	Students will be able to understand and create arguments supported by quantitative evidence.	Students will be able to understand and create arguments supported by quantitative evidence.
MTH242 Signature Assignment (A)			Students will be able to write proofs.
CSC 252/254 Signature Assignment (A)	Students will be able to write correct and robust software.	Students will be able to write correct and robust software.	Students will be able to use technology to solve problems.
CSC 314 Signature Assignment (A)	Students will analyze the interaction between hardware and software.	Students will analyze the interaction between hardware and software.	
MTH 383 Signature Assignment (A)			Students will be able to use technology to solve problems.
ISS 414 Signature Assignment (2)	Students will be able to apply their technical knowledge and critical thinking to solve problems.		
MTH 424 Signature Assignment (2)			Students will be able to write proofs.
Alumni Survey (5) – Preparation for 2016-17 Program Review	Graduates will be prepared for: careers that use computer information systems in business, industry, government and the non-profit sector; and graduate study in fields related to computer information systems.	 Graduates will be prepared for: careers that use computer science in business, industry, government and the non-profit sector; and graduate study in fields related to computer science. 	Graduates will be prepared for: careers that use mathematics in business, industry, government and the non-profit sector; graduate study in fields related to mathematics; and teaching mathematics and computer science at the secondary level.

Other:

MTH213 Assessment (Liberal Studies) (A)	Students will be able to:
	1. Demonstrate a facility with operations on the integers (1c, 1d)
	2. Demonstrate a facility with operations on the rational numbers (1c, 1d)
	3. Apply concepts from number theory to solve problems (1b, 1c, 1d)
MTH223 Assessment (Liberal Studies) (A)	Students will be able to:
	Construct geometric figures using a compass and straight edge (1c, 1d)
	2. Compute area and volume (1d, 1d)
	3. Use probability and statistics to solve problems (1b, 1c, 1d)
GE: MTH144, MTH164, MTH173, MTH303 Assessment	A. Students will demonstrate effective written and oral communication skills, both as
(Random Samples) (A)	individuals and in groups.
	 Students will be able to formulate a mathematical model from a verbal description of a problem.
	B. Students will use quantitative analysis, qualitative analysis, and logic skills to address
	questions and solve problems.
	2. Students will be able it solve non-routine problems using logic and quantitative
	techniques.
	3. Students will be able to construct solutions to problems using computational
	techniques.

Academic Year 2018-19

Activity	Information Systems Learning Outcome	Computer Science Learning Outcome	Mathematics Learning Outcome
ETS Exam (A)	Graduates will have a coherent and broad based knowledge of their discipline.	Graduates will have a coherent and broad based knowledge of their discipline.	Graduates will have a coherent and broad based knowledge of their discipline.
	Graduates will be prepared for careers that use information systems in business, industry, government and the non-profit sector; and graduate study in fields related to information systems.	Graduates will be prepared for careers that use computer science in business, industry, government and the non-profit sector; and graduate study in fields related to computer science.	Graduates will be prepared for careers that use mathematics in business, industry, government and the non-profit sector; graduate study in fields related to mathematics; and teaching mathematics and computer science at the secondary level.
ETS Substructures and Algorithms Subscore (A)		Students will us the theory of algorithms and computation to solve problems.	
ETS Computer Organization, Architecture and Operating Systems Subscore (A)		Students will analyze the interaction between hardware and software.	
ETS Calculus Subscore (A)			Students will be able to demonstrate a facility with analytical concepts.
ETS Algebra Subscore (A)			Students will be able to demonstrate a facility with algebraic structures.
ETS Applied Subscore (A)			Students will be able to apply their mathematical knowledge to solve problems.
Senior Seminar Oral Presentations (A)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)	Students will be able to speak about their work with precision, clarity and organization (Oral Communication)
Senior Seminar Written Presentations (A)	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy). 	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy). 	 Students will be able to write about their work with precision, clarity and organization (Written Communication) Students will be able to identify, locate, evaluate, and effectively and responsibly use and cite information for the task at hand (Information Literacy).

Activity	Information Systems Learning	Computer Science Learning	Mathematics Learning Outcome
	Outcome	Outcome	
ETS Proficiency Profile:	Students will be able to apply their	Students will be able to apply their	Students will be able to apply their
Reading/Critical Thinking (A)	technical knowledge and critical	technical knowledge and critical	mathematical knowledge to solve
	thinking to solve problems.	thinking to solve problems.	problems.
ETS Proficiency Profile:	Students will be able to write about	Students will be able to write about	Students will be able to write about
Writing (A)	their work with precision, clarity and	their work with precision, clarity and	their work with precision, clarity and
	organization	organization	organization
ETS Proficiency Profile:	Students will be able to understand	Students will be able to understand	Students will be able to understand
Mathematics (A)	and create arguments supported by	and create arguments supported by	and create arguments supported by
	quantitative evidence.	quantitative evidence.	quantitative evidence.
MTH242 Signature Assignment (A)			Students will be able to write proofs.
CSC 254 Signature Assignment (A)	Students will be able to write correct	Students will be able to write correct	
	and robust software.	and robust software.	
CSC 314 Signature Assignment (A)	Students will analyze the interaction	Students will analyze the interaction	
	between hardware and software.	between hardware and software.	
MTH 383 Signature Assignment (A)			Students will be able to use
			technology to solve problems.
ISS342 Group assignment (2)	Students will collaborate effectively	Students will collaborate effectively	
	in teams.	in teams.	
CSC 493 Signature Assignment (2)		Students will be able to apply their	
		technical knowledge and critical	
NATILIOSO O: (A)		thinking to solve problems.	
MTH 352 Signature Assignment (2)			Students will collaborate effectively in teams.
MTH 444 Signature Assignment (2)			Students will be able to write proofs.

Other:

MTH213 Assessment (Liberal Studies) (A)	Students will be able to:
	4. Demonstrate a facility with operations on the integers (1c, 1d)
	5. Demonstrate a facility with operations on the rational numbers (1c, 1d)
	6. Apply concepts from number theory to solve problems (1b, 1c, 1d)
MTH223 Assessment (Liberal Studies) (A)	Students will be able to:
	4. Construct geometric figures using a compass and straight edge (1c, 1d)
	5. Compute area and volume (1d, 1d)
	6. Use probability and statistics to solve problems (1b, 1c, 1d)
GE: MTH144, MTH164, MTH173, MTH303 Assessment	C. Students will demonstrate effective written and oral communication skills, both as
(Random Samples) (A)	individuals and in groups.
	Students will be able to formulate a mathematical model from a verbal description
	of a problem.
	D. Students will use quantitative analysis, qualitative analysis, and logic skills to address questions and solve problems.
	5. Students will be able it solve non-routine problems using logic and quantitative
	techniques.
	6. Students will be able to construct solutions to problems using computational
	techniques.