Viewing: BS-CS-1/MAS-CS-1 : Bachelor of Science in Computer Science/Master of Computer Science

Last approved: 11/28/17 10:35 am

Last edit: 05/02/18 11:16 pm

Changes proposed by: agam

Requestor	Name	Gady Agam S	Sarah Pariseau	E-mail	agam@iit.edu sparisea@iit.edu
Origination Date	2018-5-2 2	917-11-28			
ls this an interdisciplinary program?	No				
Academic Unit College of Science	Computer	Science		College	
Program Title	Bachelor o	f Science in Co	mputer Science/Maste	r of Comput	er Science
Effective Academic Year	2018 - 2019	9	Effective Term	Fall 2018	
Academic Level	Undergrad	uate			
Program Type	Co-Termina	al Degree			
Degree Type	Bachelor o	f Science/Profe	essional Master's(BSMA	AS)	
CIP Code	11.0701 - 0	omputer Scier	nce.		
Is there more than or	ne Academic No	Unit proposer	?		
Second CIP	11.0701 - C	computer Scier	nce.		
Program Code	BS-CS-1/M	AS-CS-1			
Program Attribute					
Total Program Credit Hours	148				

Program Narrative and Justification

In Workflow

- 1. CSCI Chair
- 2. Academic Affairs
- 3. SI Dean
- 4. Undergraduate Studies Committee Chair
- 5. Undergraduate Studies Committee Vote
- 6. Undergraduate Studies Committee Chair
- 7. Graduate Studies Committee Chair
- 8. Graduate Studies Committee Vote
- 9. Graduate Studies Committee Chair
- 10. Faculty Council Chair
- 11. Academic Affairs

12. Registrar

Approval Path

- 1. 05/02/18 11:11 pm Eunice Santos (esantos2): Rollback to Initiator
- 2. 05/02/18 11:21 pm Eunice Santos (esantos2): Approved for CSCI Chair
- 3. 05/03/18 8:00 am Sarah Pariseau (sparisea): Approved for
- Academic Affairs 4. 05/03/18 4:42 pm Xiaofan Li (lix): Approved for Sl

History

Dean

- 1. Nov 28, 2017 by Sarah Pariseau (sparisea)
- 2. Nov 28, 2017 by Sarah Pariseau (sparisea)

Narrative description of how the institution determined the need for the program. For example, describe what need this program will address and how the institution became aware of that need. If the program is replacing a current program(s), identify the current program(s) that is being replaced by the new program(s) and provide details describing the benefits of the new program(s). If the program will be offered in connection with, or in response to, an initiative by a governmental entity, provide details of that initiative.

Narrative description of how the program was designed to meet local market needs, or for an online program, regional or national market needs. For example, indicate if Bureau of Labor Statistics data or State labor data systems information was used, and/or if State, regional, or local workforce agencies were consulted. Include how the course content, program length, academic level, admission requirements, and prerequisites were decided; including information received from potential employers about course content; and information regarding the target students and employers.

Narrative description of any wage analysis the institution may have performed, including any consideration of Bureau of Labor Statistics wage data related to the new program.

Narrative description of how the program was reviewed or approved by, or developed in conjunction with, one or more of the following: a) business advisory committees; b) program integrity boards; c) public or private oversight or regulatory agencies (not including the state licensing/authorization agency and accrediting agency); and d) businesses that would likely employ graduates of the program. For example, describe the steps taken to develop the program, identify when and with whom discussions were held, provide relevant details of any proposals or correspondence generated, and/or describe any process used to evaluate the program.

What are the enrollment estimates?

Year 1	Year 2	Year 3
Attach Additional		
Program		
Justification		
Document(s)		

Academic Information

Advising

Since quality advising is a key component of good retention, graduation, and career placement, how will students be mentored? What student professional organizations will be formed? How will the department work with the Career Services office to develop industry connections?

Program Resources

Which program resources are necessary to offer this program?

Proposed Bulletin Entry

Admission Requirements

Course Requirements

Required Courses

Course List

Code	Title	Credit Hours
<u>CS 115</u>	Object-Oriented Programming I	2
<u>CS 116</u>	Object-Oriented Programming II 1	2
<u>CS 330</u>	Discrete Structures	3
CS 331	Data Structures and Algorithms	3
<u>CS 350</u>	Cmptr Org&Asmbly Lang Prgmmg	3
<u>CS 351</u>	Systems Programming	3
<u>CS 425</u>	Database Organization	3
<u>CS 430</u>	Introduction to Algorithms	3
<u>CS 440</u>	Prgmng Languages Translators	3
<u>CS 450</u>	Operating Systems	3
<u>CS 485</u>	Computers and Society	3
<u>CS 487</u>	Software Engineering	3
Computer Science Electives		(12)
Select 12 credit hours 2		12
Graduate Core Courses		(9)
Select one programming core co	ourse:	3
<u>CS 511</u>	Topics in Computer Graphics	3
<u>CS 512</u>	Computer Vision	3
<u>CS 525</u>	Advanced Database Organization	3
<u>CS 540</u>	Syntactic Anlys of Prgm Lang	3
<u>CS 541</u>	Topics in Complr Constrctn	3
<u>CS 546</u>	Parallel and Distributed Proc	3
<u>CS 551</u>	Operating Syst Design&Implemtn	3
<u>CS 553</u>	Cloud Computing	3
Select one systems core courses		3
<u>CS 542</u>	Computer Netwrks I:Fundamentls	3
<u>CS 544</u>	Computer Ntwrks II: Ntwrk Svc	3
<u>CS 547</u>	Wireless Networking	3
<u>CS 550</u>	Advanced Operating Systems	3
<u>CS 555</u>	Anlytc Mdls Simul Comp Syst	3
<u>CS 570</u>	Adv Computer Architecture	3
<u>CS 586</u>	Software Systems Arch	3
Select one theory core course:		3
<u>CS 530</u>	Theory of Computation	3
<u>CS 533</u>	Computational Geometry	3
<u>CS 535</u>	Dsgn and Anlys of Algorithms	3
<u>CS 536</u>	Science of Programming	3
<u>CS 538</u>	Combinatorial Optimization	3
<u>CS 539</u>	Game Theory: Algorithms & Apps	3
Graduate Electives		(12)
Select 12 credit hours		12
Mathematics Requirements		(20)
<u>MATH 151</u>	Calculus I	5
MATH 152	Calculus II	5
<u>MATH 251</u>	Multivariate & Vector Calculus	4
MATH 332	Elementary Linear Algebra	3
or <u>MATH 333</u>	Matrix Alg & Complex Variables	-
MATH 474	Probability and Statistics	3
or <u>MATH 475</u>	Probability	-
Mathematics Elective		(3)
Select one of the following:		3
<u>MATH 252</u>	Introduction to Diff Equations	4
MATH 350	Intro to Computational Mathe	3
MATH 410	Number Theory	3
MATH 435	Linear Optimization	3
MATH 453	Combinatorics	3
<u>MATH 454</u>	Graph Theory and Applications	3
<u>MATH 476</u>	Statistics	3
MATH 481	Intro to Stochastic Processes	3
<u></u>		-

Code	Title	Credit Hours
Science Requirements		(8)
PHYS 123	General Physics I: Mechanics	4
PHYS 221	Gen Physics II: Elect&Magntism	4
Science Electives	,	(6)
Select six credit hours 3		6
Communication Elective		(3)
Select one of the following:		3
<u>COM 421</u>	Technical Communication	3
<u>COM 424</u>	Document Design	3
<u>COM 425</u>	Editing	3
<u>COM 428</u>	Verbal Visual Communications	3
<u>COM 435</u>	Intercultural Communication	3
Interprofessional Projects (I	PRO)	(6)
See IIT Core Curriculum, sec	<u>ction E</u>	6
Humanities and Social Scier	nces Requirements	(21)
See IIT Core Curriculum, sec	<u>ctions B and C</u>	21
Free Electives		(12)
Select 12 credit hours		12
Total Credit Hours		148

1 <u>CS 201</u> is a one-semester, accelerated course equivalent to the two-semester <u>CS 115/CS 116</u> sequence.

2Computer science electives: Any computer science course at the 300-level or higher (including graduate CS courses) may be used as a computer science elective, except <u>CS 401</u> and <u>CS 402</u>. <u>ECE 218</u> and <u>ECE 441</u> may also be used as computer science electives. Higher mathematics or computational science courses at the 300-level or above can also be used as computer science electives, with CS department approval.
3Science electives (no lab required): Chosen from the natural sciences (biology, chemistry, material science, and physics), or courses marked with an (N) (natural science attribute) in the Undergraduate Bulletin. At least one course must be in a field other than physics.

Sample Curriculum/Program Requirements

Bachelor of Science in Computer Science/Master of Computer Science Curriculum

			Year 1
Semester 1	Credit Hou	rsSemester 2	Credit Hours
<u>CS 100</u>	2	<u>CS 116</u> 1	2
<u>CS 115</u> 1	2	<u>MATH 152</u>	5
<u>MATH 151</u>	5	PHYS 123	4
Humanities 200-level Course	3	Humanities Elective (300+)	3
Social Sciences Elective	3	Social Sciences Elective (300+)	3
	15		17
			Year 2
Semester 1	Credit Hou	rsSemester 2	Credit Hours
<u>CS 330</u>	3	<u>CS 350</u>	3
<u>CS 331</u>	3	<u>CS 425</u>	3
<u>MATH 251</u>	4	<u>MATH 332</u> or <u>333</u>	3
<u>PHYS 221</u>	4	Humanities Elective (300+)	3
Social Sciences Elective (300+)	3	Science Elective2	3
	17		15
			Year 3
Semester 1	Credit Hou	rsSemester 2	Credit Hours
<u>CS 351</u>	3	<u>CS 430</u>	3
<u>CS 440</u>	3	<u>CS 450</u>	3
<u>MATH 474</u> or <u>475</u>	3	IPRO Elective I	3
Communication Elective3	3	Mathematics Elective	3
Computer Science Elective4	3	Free Elective	3
	15		15

			Year 4
Semester 1	Credit I	HoursSemester 2	Credit Hours
<u>CS 487</u>	3	<u>CS 485</u>	3
IPRO Elective II	3	Computer Science Elective4	3
Computer Science Elective4	3	Computer Science Elective4	3
Science Elective2	3	Free Elective	3
Humanities or Social Sciences Elective	3	Free Elective	3
Free Elective	3		
	18		15
			Year 5
Semester 1	Credit I	HoursSemester 2	Credit Hours
Graduate Core Course	3	Graduate Core Course	3
Graduate Core Course	3	Graduate Elective Course	3
Graduate Elective Course	3	Graduate Elective Course	3
Graduate Elective Course	3		
	12		9

Total Credit Hours: 148

1<u>CS 201</u> is a one-semester, accelerated course equivalent to the two-semester <u>CS 115/CS 116</u> sequence.

2Science electives (no lab required): Chosen from the natural sciences (biology, chemistry, material science, and physics), or courses marked with an (N) (natural science attribute) in the Undergraduate Bulletin. At least one course must be in a field other than physics.

3Communication elective must be COM 421, COM 424, COM 425, COM 428, or COM 435.

4Computer science electives: Any computer science course at the 300-level or higher (including graduate CS courses) may be used as a computer science elective, except <u>CS 401</u> and <u>CS 402</u>. <u>ECE 218</u> and <u>ECE 441</u> may also be used as computer science electives. Higher mathematics or computational science courses at the 300-level or above can also be used as computer science electives, with CS department approval.

Specialization Requirements

Data Science

A minimum of four courses are required for this specialization.

	Course List		
Code	Title	Credit Hours	
<u>BUS 371</u>	Strategies for New Markets	3	
<u>CS 422</u>	Data Mining	3	
or <u>CS 584</u>	Machine Learning		
<u>CS 451</u>	Parallel/Distributed Computing	3	
<u>MATH 481</u>	Intro to Stochastic Processes	3	
or <u>MATH 483</u>	Design and Analysis of Exprmnt		
		-	

Note: MATH 481 has prerequisites of MATH 332 or MATH 333 and MATH 475; MATH 483 has a prerequisite of MATH 476.

Distributed and Cloud Computing

A minimum of four courses are required for this specialization.

Course	List

Code	Title	Credit Hours
<u>CS 442</u>	Mobile Application Development	3
or <u>CS 447</u>	Distributed Objects	
<u>CS 451</u>	Parallel/Distributed Computing	3
<u>CS 455</u>	Data Communication	3
<u>CS 553</u>	Cloud Computing	3

Information and Knowledge Management Systems

A minimum of four courses are required for this specialization.

Course List

Code	Title	Cre
<u>CS 425</u>	Database Organization	3
<u>CS 482</u>	Infor Knwldg Mgmt Syst	3

Credit Hours

Code	Title	Credit Hours
Select a minimum of two courses from the following:		6
<u>CS 422</u>	Data Mining	3
<u>CS 429</u>	Information Retrieval	3
<u>CS 481</u>	Intlignc Txt Analys Knwldg Mgm	3
<u>CS 585</u>	Natural Language Processing	3

Information Security

A minimum of four courses are required for this specialization.

	Course List		
Code	Title	Credit Hours	
<u>CS 425</u>	Database Organization	3	
<u>CS 458</u>	Intro to Information Security	3	
<u>CS 455</u>	Data Communication	3	
<u>CS 549</u>	Cryptography	3	
or <u>CS 558</u>	Advanced Computer Security		

Graduate Specializations

Master of Computer Science with Specialization in Business

33 credit hours

This program is designed to help computer science professionals extend and deepen their technical and practical knowledge of the field while introducing themselves to core topics in modern business practices. To complete the program, students must satisfy the general Master of Computer Science requirements, and the plan of study must include 24 credit hours of CS/CSP courses and three specialization courses from the Stuart School of Business.

	Course List	
Code	Title	Credit Hours
Specialization Courses	;	(9)
Select a minimum of the	hree courses from the following:	9
<u>BUS 510</u>	Bldg Innovative Sustain Bus	3
<u>BUS 550</u>	Bus Analytics for Comp Advntge	3
<u>MBA 501</u>	Acctng for Strategic Dec Mkng	3
<u>MBA 502</u>	Emerging Issues Global Bus Env	3
<u>MBA 504</u>	Analytics for Decision Making	3
<u>MBA 506</u>	Lead Knowledge-Intensive Orgs	3
<u>MBA 509</u>	Financial Mgmt in Global World	3
<u>MBA 511</u>	Customer Value	3
Total Cradit Hours		θ

Total Credit Hours

Note: Stuart School of Business tuition and fees apply to these courses. Applicants to the program are not required to take the GMAT. Students who have already taken Stuart School of Business courses as part of a degree program cannot reuse those courses to satisfy specialization course requirements.

Master of Computer Science with Specialization in Computational Intelligence

30 credit hours

This program is intended for students who are interested in ways in which computers may learn and adapt based on data so as to solve complex problems in various areas of computer science. Students must satisfy general Master of Computer Science requirements and complete four specialization courses.

Course List

		COUISE LIST	
Code	Title		Credit Hours
Specialization Course	S		(12)
Select a minimum of four courses from the following:			12
<u>CS 480</u>	Artificial Intelligence		3
<u>CS 512</u>	Computer Vision 1		3

Code	Title	Credit Hours
<u>CS 522</u>	Advanced Data Mining	3
<u>CS 579</u>	Online Social Network Analysis	3
<u>CS 583</u>	Probabilistic Graphical Models	3
<u>CS 584</u>	Machine Learning	3
<u>CS 585</u>	Natural Language Processing	3
Total Credit Hours		12

Total Credit Hours

1 <u>CS 512</u> serves simultaneously as a specialization and a Programming core course.

Master of Computer Science with Specialization in Cyber-Physical **Systems**

30 credit hours

This program is intended for students who are interested in learning how to work with embedded controllers with integrated sensors and networking abilities and to utilize them for real-world applications. Students must satisfy general Master of Computer Science requirements and complete four specialization courses.

	Course List	
Code	Title	Credit Hours
Specialization Cours	Ses	(12)
Select a minimum o	f four courses from the following:	12
<u>CS 442</u>	Mobile Application Development	3
<u>CS 552</u>	Distributed Real-Time Systems	3
<u>CS 553</u>	Cloud Computing 1	3
<u>CS 555</u>	Anlytc Mdls Simul Comp Syst 1	3
<u>CS 556</u>	Cyber-Physical Sys: Lang & Sys	3
<u>CS 557</u>	Cyber-Physical Sys Sec/Dsgn	3
<u>CS 558</u>	Advanced Computer Security	3
Total Cradit Hours		10

Total Credit Hours

1 CS 553 serves simultaneously as a specialization course and a Programming core course. CS 555 serves simultaneously as a specialization course and a Systems core course.

Master of Computer Science with Specialization in Data Analytics

30 credit hours

Intelligent analysis of large amounts of data is a crucial component in supporting business decisions. This program is intended for students interested in learning how to discover patterns in large amounts of data in information systems and how to use these to draw conclusions. Students must satisfy general Master of Computer Science requirements and complete four specialization courses.

	Course List	
Code	Title	Credit Hours
Specialization Courses	5	(12)
Select a minimum of f	four courses from the following:	12
<u>CS 442</u>	Mobile Application Development	3
<u>CS 520</u>	Data Integration Warehousing	3
<u>CS 522</u>	Advanced Data Mining	3
<u>CS 554</u>	Data-Intensive Computing	3
<u>CS 579</u>	Online Social Network Analysis	3
<u>CS 583</u>	Probabilistic Graphical Models	3
<u>CS 584</u>	Machine Learning	3
<u>CS 585</u>	Natural Language Processing	3
<u>CSP 571</u>	Data Preparation and Analysis	3
Tatal Conselit Harmer		10

Total Credit Hours

Master of Computer Science with Specialization in Database Systems

30 credit hours

This program is designed to provide in-depth knowledge of the principles of design and development of database systems. Students must satisfy general Master of Computer Science requirements and complete four specialization courses.

Code	Title	Credit Hours
Specialization Course	25	(12)
Select a minimum of	four courses from the following:	12
<u>CS 425</u>	Database Organization	3
<u>CS 520</u>	Data Integration Warehousing	3
<u>CS 521</u>	Object-Oriented Analysis/Dsgn	3
<u>CS 522</u>	Advanced Data Mining	3
<u>CS 525</u>	Advanced Database Organization 1	3
<u>CS 529</u>	Information Retrieval	3
<u>CS 553</u>	Cloud Computing 1	3
<u>CS 554</u>	Data-Intensive Computing	3
Total Credit Hours		12

1 CS 525 and CS 553 serve simultaneously as specialization courses and Programming core courses.

Master of Computer Science with Specialization in Distributed and Cloud Computing

30 credit hours

The Master of Computer Science with a Specialization in Distributed and Cloud Computing is intended for students who are interested to learn about distributed systems and how they are applied to real world problems, as well as how emerging cloud computing technologies can be used to implement some of the world's most popular services and applications. Students must satisfy general Master of Computer Science requirements and complete four specialization courses.

	Course List	
Code	Title	Credit Hours
Specialization Course	es	(12)
Select a minimum of	four courses from the following:	12
<u>CS 451</u>	Parallel/Distributed Computing	3
<u>CS 546</u>	Parallel and Distributed Proc 1	3
<u>CS 550</u>	Advanced Operating Systems 1	3
<u>CS 552</u>	Distributed Real-Time Systems	3
<u>CS 553</u>	Cloud Computing 1	3
<u>CS 554</u>	Data-Intensive Computing	3
<u>CS 570</u>	Adv Computer Architecture 1	3
Total Credit Hours		12

1<u>CS 546</u> and <u>CS 553</u> both serve simultaneously as specialization courses and Programming core courses. <u>CS 550</u> and <u>CS 570</u> both serve simultaneously as specialization courses and Systems core courses.

Master of Computer Science with Specialization in Education

33 credit hours

The Master of Computer Science with a Specialization in Education is designed to enable computer science students to further their technical education while opening a career path toward teaching computer science.

Courses for the MCS/Education degree program are taken from the Department of Computer Science and the Department of Mathematics and Science Education (MSED). In addition to satisfying general Master of Computer Science degree requirements, the plan of study must include 24 credit hours of CS/CSP courses and the following three MSED courses, which are the first three required courses for a teaching certificate.

Course List

Code	Title	Credit Hours
MSED Required Courses		(9)
<u>MSED 300</u>	Instrctnl Methods/Strategies I	3
<u>MSED 500</u>	Analysis of Classrooms II	3
<u>MSED 554</u>	Mid/Sec Lvl Science Curriculum	3
or <u>MSED 555</u>	Mid/Sec Lvl Math Curriculum	
Total Credit Hours		9

Master of Computer Science with Specialization in Finance

The Master of Computer Science with a Specialization in Finance is designed to enable computer science students to further their technical education while opening a path toward a career in finance.

Courses for the MCS/Finance degree program are taken from the Department of Computer Science and the Stuart School of Business. In addition to satisfying the general Master of Computer Science degree requirements, the plan of study must include 24 credit hours of CS/CSP courses and three specified MSF courses.

Course List

Code	Title	Credit Hours
Required Finance Co	urses	(9)
<u>MSF 504</u>	Valuation/Portfolio Management	3
<u>MSF 505</u>	Futures/Option/OTC Derivatives	3
<u>MSF 506</u>	Financial Statement Analysis	3
Total Credit Hours		9

Note: Stuart School of Business tuition and fees apply to these courses. Applicants to the program are not required to take the GMAT. Students who have already taken Stuart School of Business courses as part of a degree program cannot reuse those courses to satisfy specialization course requirements.

Master of Computer Science with Specialization in Information Security and Assurance

30 credit hours

Information security, privacy, and information assurance are of prime importance in modern computer systems where data can be accessed from nearly everywhere. The Master of Computer Science with a Specialization in Information Security and Assurance is intended for students interested in aspects of security and assurance in modern e-commerce applications. Students must satisfy general Master of Computer Science requirements and complete four specialization courses.

The U.S. government's Information Assurance Courseware Evaluation (IACE) program has certified the computer science department's courses as meeting the national training standards for Information Systems Security Professionals (NSTISSI 4011) and Systems Certifiers (NSTISSI 4015). These standards describe course content for studying telecommunications security and automated information systems security.

Course Li	ist
-----------	-----

Code	Title	Credit Hours
Specialization Cours	es	(12)
Select a minimum of	f four of the following courses:	12
<u>CS 458</u>	Intro to Information Security	3
<u>CS 525</u>	Advanced Database Organization 1	3
<u>CS 549</u>	Cryptography	3
<u>CS 550</u>	Advanced Operating Systems 1	3
<u>CS 558</u>	Advanced Computer Security	3
<u>CSP 544</u>	System and Network Security	3
Total Credit Hours		12

1 CS 525 serves simultaneously as a specialization course and a Programming core course. CS 550 serves simultaneously as a specialization course and a Systems core course.

Master of Computer Science with Specialization in Networking and Communications

30 credit hours

This program is designed to provide an in-depth knowledge of the theory and practice of computer networking and telecommunications. Students must satisfy general Master of Computer Science requirements and complete four specialization courses.

		Course List	
Code	Title		Credit Hours
Specialization Courses			(12)
Select a minimum of fou	r courses from the following:		12
<u>CS 455</u>	Data Communication		3
<u>CS 542</u>	Computer Netwrks I:Fundamentls 1		3
<u>CS 544</u>	Computer Ntwrks II: Ntwrk Svc 1		3
<u>CS 547</u>	Wireless Networking 1		3
<u>CS 548</u>	High-Speed Networks		3
<u>CS 549</u>	Cryptography		3
<u>CS 555</u>	Anlytc Mdls Simul Comp Syst 1		3

1 CS 542, CS 544, CS 547, and CS 555 all serve simultaneously as specialization courses and Systems core courses.

Master of Computer Science with Specialization in Software Engineering

30 credit hours

Code

This program is designed to provide an in-depth knowledge of theory and practices in software engineering, including hands-on experience in software design, development, and maintenance. Students must satisfy general Master of Computer Science requirements and complete four specialization courses. Lict ~

	Course List	
Code	Title	Credit Hours
Specialization Courses	5	(12)
Select a minimum of f	12	
<u>CS 487</u>	Software Engineering	3
<u>CS 521</u>	Object-Oriented Analysis/Dsgn	3
<u>CS 536</u>	3	
<u>CS 537</u>	3	
<u>CS 586</u>	Software Systems Arch 1	3
<u>CS 587</u>	Software Project Management	3
<u>CS 589</u>	Software Testing and Anlys	3
Total Credit Hours		12

1 CS 536 serves simultaneously as a specialization course and a Theory core course. CS 586 serves simultaneously as a specialization course and a Systems core course.

What are the		
learning goals for		
this program?		
In what semesters		
will the data be		
collected to assess		
this learning goal,		
and by whom?		
Provide the name		
of the rubric that		
will be used to		
assess the extent to which students are		
achieving this		
learning goal.		
How often and by whom will the data		
be analyzed? What		
benchmarks or		
targets will be used		
to interpret your		
results?		
Briefly describe the		
process that will be		
used to share the		
results with faculty		
and use these to		

Attach Additional Assessment Document(s)

Co-Terminal Degree Requirements

Undergraduate Degree Requirements

Minimum credit hours	148
Specialization required?	Optional
Notes about specialization requirement	
Minor required?	No
Required minimum GPA for admission	3.25 3.00
Number of shared credit hours allowed.	9
Which courses may be shared? CS 400- or 500-level ele	ctives

Proposed General Curriculum

Degree credit hours 127 required

Specialization credit 12 hour requirement

List Major Course Requirements

List Mathematics Requirements

List Science Requirements

List Computer Science Requirements

List Humanities and Social Sciences Requirements

List Interprofessional Project (IPRO) Requirements

List Technical Elective Course Options				
List Free Elective Credit Hours (if applicable)	12			
Semester-by- semester plan of study for the degree program				

Professional Master's Degree

Minimum credit hours					
400-level credit hour limit?	Yes		How	many hours allowed?	10
500-600-level credit ho	our limits:	Minimum: 2	20	Maximum: 30	
700-level credit hour r	maximum: 0				
Project course required?	No				
Comprehensive exam required?	No				
Seminar/Colloquium required?	Not Required				
Required Specialization?	Optional				
Specialization credit h	our requirement:				
Notes about the specialization/ concentration requirement	Certain specializa degree.	tions have pro	gram requ	irements different from	the general track of the
Is there a general trac	k for this degree?				
	Yes				
Proposed Genera	al Curriculum				
List Core Course Requirements					
List Elective Course					

Options

Specialization

Report to Faculty Council

Reviewer	Gady Agam (agam) (05/02/18 10:13 pm): The change to maximum MS credits as 32 is a mistake. It should
Comments	be 30.
	Eunice Santos (esantos2) (05/02/18 11:11 pm): Rollback: Per Gady Agam's request
	Sarah Pariseau (sparisea) (05/03/18 7:59 am): Increasing admission GPA requirement to 3.25.