



State University of New York  
**Thomas J. Watson School of Engineering and Applied Science**

**Bachelor of Science in Industrial & Systems Engineering (56G) &  
 Master of Science in Systems Science  
 Health Systems Concentration - (4 + 1 Program) (R1C)  
 Proposed Course of Study / Graduation Check**

STUDENT'S NAME:  ID NUMBER:   
 SEMESTER OF MATRICULATION:  ADVISOR'S NAME:

*The combined BS and MS degree program is available for students working towards their BS ISE who have a GPA of 3.5 after five semesters (i.e., at the end of the fall semester in their junior year) and a B+ or better in both ISE 261 and ISE 362.*

*Students begin the combined program at the start of their senior year and take three graduate courses that count both toward their senior technical-elective requirement and toward their MS degree requirements.*

*Each 4+1 program student must have a Proposed Course of Study for this BS ISE and MS SS Degrees prior to the beginning of your senior semester and each semester thereafter to ensure that you are on track with your degrees. It is strongly recommended that you review your Course of Study with your Academic Advisor or Graduate Director. At the time of declaration of candidacy (final semester) for degree, you must recheck this form. An incomplete grade could delay your graduation. Please Note: A student must be continuously registered and matriculated in order to graduate.*

**PROGRAM OF STUDY**

	Course Name & Number	Credits	Sem	Year	Instructor	Grade	Comments
<b>Requirements – Senior Year/Fall Semester</b>							
1.	ISE 421. Modeling & Simulation	4					
2.	ISE 491. Systems Design	4					
3.	SSIE 501. Introduction to Systems Science	3					Counted as BS ISE Tech elective for UG credit & toward MS Requirement.
4.	ISE 420. Optimization & Operations Res II	4					
<b>Senior Year/Spring Semester</b>							
1.	ISE 492. Systems Design Project	4					
2.	Gen Ed Elective (N)	4					
3.	SSIE 506. Systems Problem Solving	3					Counted as BS ISE Tech elective for UG credit & toward MS Requirement.
4.		3					Counted as BS ISE Tech elective for UG credit & toward MS Requirement. Approved 500 level SSIE Course Elective 1
5.		3 or 4					Free Elective

**NOTE: Approved Graduate-Level Electives from Department:** (one must be a 600 Level SSIE & one must be from approved health-care-related courses): Non-Thesis 7 electives (1 as UG & 6 as Graduate Student); Thesis 5 electives (1 as UG & 4 as Graduate Student); Subject to graduate director's approval, the student may elect to substitute up to two graduate-level courses from a non-SSIE department. Project/Thesis (must be healthcare related in consultation with advisor): Non-Thesis (SSIE 595) min 3 credits; Thesis (SSIE 599) min 6 credits

**Graduate Year/Fall Semester**

1.		3				Approved Graduate Elective 2
2.		3				Approved Graduate 600 Level SSIE Course Elective 3
3.		3				Approved Graduate Elective 4 for non-thesis or SSIE 599 for thesis
4.		3				Approved Graduate Elective 5

**Graduate Year/Spring Semester**

1.		3				Approved Graduate Elective 6
2.	<b>SSIE 537. ISE in Health Care</b>	3				
3.	<b>SSIE 520. Modeling and Simulation</b>	3				
4.	<b>SSIE 595. MS SS Term Project or SSIE 599. Thesis</b>	3				Non-thesis = 3 credits; Thesis = 6 credits
Total Credit Hours:						

**NOTE: Minimum Credits for Non-Thesis = 33; Minimum Credits for Thesis = 30; Cumulative minimum GPA of 3.0 required for graduation. Minimum credits per semester for full-time status = 12 credit hours.**

<b>Above course of student is academically sound</b>	_____	_____	<b>Sem</b>	<b>Academic Advisor or Grad Director Review/Initials</b>
	Academic Advisor's /Graduate Director's Signatures	Date	1 (Sr.)	
<b>Program Completion Approval</b>	_____	_____	2 (Sr.)	
	Graduate Coordinator's Signature	Date	1	
			2	

3/22/12