STUDENT: _____ STUDENT ID NUMBER: _____

KUTZTOWN UNIVERSITY

COLLEGE OF LIBERAL ARTS & SCIENCES • BS/MS • COMPUTER SCIENCE: INFORMATION TECHNOLOGY

Program Code: ULASCSCIC **Version Number:** 2118 - Fall 2011 **Effective Date:** August 29, 2011

GENERAL EDUCATION

I. UNIVERSITY CORE (12 credits)	RC	CR	GR
A. Oral Communication: COM 10 or above			
COURSE:	3		
B. Written Communication: ENG 23, 24, or 25			
COURSE:	3		
C. Mathematics: MAT 17 or above			
COURSE: MAT 140	3		
D. Wellness: Any 3-credit HEA course			
COURSE:	3		

II. UNIVERSITY DISTRIBUTION (15 credits)	RC	CR	GR	CAC
A. Natural Sciences: Any lab or non-lab course with prefix AST, BIO, CHM, ENV, GEL, MAR, NSE, or PHY; or certain GEG courses (see note at right)				
COURSE:	3			
B. Social Sciences: Any course with prefix ANT, CRJ, ECO, HIS, INT, MCS, PSY, POL, SOC, SSE, or SWK; or certain GEG courses (see note at right)				
COURSE:	3			
C. Humanities: Any course with prefix ENG, HUM, PAG, PHI, WRI, WGS, or Modern Language				
COURSE:	3			
D. Arts: Any course with prefix ARC, ARH, ART, CDE, CDH, CFT, DAN, FAR, FAS, MUP, MUS, or THE				
COURSE:	3			
E. Free Elective: Any course carrying university credit				
COURSE:	3			

III. COMPETENCIES ACROSS THE CURRICULUM	RC	CR	GR	CAC
A. Writing Intensive (**WI**) (9 credits)				
COURSE:	3			**WI**
COURSE:	3			**WI**
COURSE:	3			**WI**
B. Quantitative Literacy (**QL**) (3 credits) OR Computer-Intensive (**CP**) (3 credits)				
COURSE:	3			
C. Visual Literacy (**VL**) (3 credits) OR Communication-Intensive (**CM**) (3 credits)				
COURSE:	3			
D. Cultural Diversity (**CD**) (3 credits)				
COURSE:	3			**CD**
E. Critical Thinking (**CT**) (3 credits)				
COURSE:	3			**CT**

A Competency Across the Curriculum (CAC) course is not a separate course, but rather an overlay that is "double counted" as fulfilling both the CAC requirement and another requirement in either General Education (except for the University Core), the major, or the minor.

RC = Minimum required number of credits
CR = Credits earned (fill in number of credits)
GR = Grade earned (fill in letter grade)
CAC = Competency Across the Curriculum (fill in designation)

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in II.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in II.B.

IV. COLLEGE DISTRIBUTION (33 credits)	RC	CR	GR	CAC
A. Natural Science, Mathematics, and Computer Science# (6 credits): Choose one course in each subcategory.				
1. Natural Science with Lab: AST, BIO, CHM, ENV, GEL, PHY, or MAR; or GEG (see note at right)				
COURSE:	3			
2. Elective: AST, BIO, CHM, CSC, ENV, GEG (see note at right), GEL, MAR, MAT, NSE, or PHY				
COURSE:	3			
B. Social Science (9 credits): Choose one course in each subcategory.				
1. Elective: HIS, ANT, GEG (see note at right), or POL				
COURSE:	3			
2. Elective: PSY, SOC, CRJ, or SWK				
COURSE:	3			
3. Elective: ANT, CRJ, ECO, GEG (see note at right), HIS, INT, POL, PSY, SOC, SSE, or SWK				
COURSE:	3			

	RC	CR	GR	CAC
C. Humanities (9 credits): Choose one course in each subcategory.				
1. Elective: PAG*, ENG, WRI, or HUM				
COURSE: WRI 207WICT	3			
2. Elective: Modern Language (103 or above) or PHI				
COURSE: PHI 40 CDCT	3			
3. Elective: PAG*, ENG, WRI, HUM, Modern Language (103 or above), or PHI				
COURSE:	3			
D. Free Electives (9 credits): Choose any university courses that count toward graduation.				
COURSE:	3			
COURSE:	3			
COURSE:	3			

NOTE: GEG courses with a lab and 40, 322, and 323 may be used in IV.A. and GEG courses 40, 204, 274, 304, 322, 323, 324, 347, 380, and 394 may NOT be used in IV.B.

Students in the College of Liberal Arts and Sciences are required to take at least one course in Biological Science (BIO) and at least one course in Physical Science (AST, CHM, ENV, GEL, PHY, MAR, GEG with lab, or GEG 40, GEG 322, or GEG 323), and at least one of which must be a lab (each course may be counted in either sections II.A or IV.A).

* Excludes PAG 011 and PAG 012

BS Computer Science: Information Technology (60 CR)

Program Code: ULASCSCIC **Version Number: 2162 - Spring 2016** **Effective Date: January 19, 2016**

Major Program: 57 credits		
1. Required Courses: 33 credits	CR	GR
CSC 125: Discrete Math for CS I		
CSC 130: IT Fundamentals		
CSC 135: Comp Sci I		
CSC 136: Comp Sci II		
CSC 242: Web Programming		
CSC 253: IT Systems		
CSC 311: Computer Networks		
CSC 341: Information Security		
CSC 356: Introduction to Database Sys		
CSC 354: Software Engineering I		
CSC 355: Software Engineering II		

Concomitant Courses: 3 credits		
1. Required Courses: 3 credits	CR	GR
MAT 105: College Algebra or above		
MAT 140: Applied Stat Methods*	X	X
WRI 207: Writing for Workplace*	X	X
PHI 040: Intro to Ethics*	X	X
*accounted for in general education		
2. Internship – optional (Gen Ed free elective)	CR	GR
CSC 280: Cooperative Internship I	1-6	
CSC 380: Cooperative Internship II	1-6	

2. CS Elective Courses: 24 credits of additional CSC courses, number 125 or above and not previously used for above requirements.	CR	GR

Recommendations
Consider taking a Minor in an Application Domain such as Math, Entrepreneurial Leadership, Business, Psychology, Sociology, Biology, or any Science.
Consider taking a second speech course in General Education II E
CSC-prefix courses below 125-level, CSC 280 and CSC 380 do not count toward the major requirements for a BS in Computer Science/Information Technology (they can count in general education).
Before taking any 300-level course a student must have completed 18 credit hours in CSC courses numbered 125 or above with a GPA of 2.25 in the CSC courses.

Internal Transfer: 2.25 GPA required
Graduation Requirement: 2.25 GPA Major

Degree Requirements		
1. Semester Hours (Total: 120)	Req	Earned
a. General Education	60	
b. Major Program	57	
c. Concomitant Courses	3	
2. GPA		
a. Overall	2.0	
b. Major	2.25	
3. Passed Comprehensive Exam	Semester:	

Five-Year Combined BS/MS in CSC Program

120 credits	BS in Computer Science:Information Technology – Five Year BS/MS Undergraduate Program
30 credits	MS in Computer Science:Information Technology
–12 credits	Additional 12 credits of 400-level CSC courses counted toward the 120 credits for the BS above the 45 credit limit for the undergraduate degree counted for the MS
138 credits	Total credits needed to receive both the BS and MS in Computer Science :Information Technology

BS in CSC is awarded after 120 undergraduate credits; B average or higher in CSC courses required for admission to Graduate School.

Undergraduate admission to the Combined BS/MS Program in Computer Science: Junior status (60 or more credits taken overall) and at least 24 CSC course credits with 3.00 GPA or higher and a B or better in CSC 125, 130, 135, 253 each

Degree Requirements for the Master of Science in Computer Science: Information Technology track

1. Candidates for the MS degree in Computer Science must complete a total of 30 credits. A candidate must complete all degree requirements for the MS within six (6) calendar years after his or her acceptance into the program
2. Students must select either the thesis option or the comprehensive exam option. The thesis option requires the completion of 24 credits of courses and 6 credits of thesis. The comprehensive exam option requires the completion of 30 credits of courses and passing the comprehensive exams. Comprehensive exams are given the last week of class in the Fall and Spring semesters.
3. Students must complete at least 18 credits of 500-level courses.
4. Students must complete at least one depth component in their program. Depth components require the student to choose at least two courses (including one 500-level) from at least one depth area.

Depth Area	**Courses**
Networking	411, 512
Web	421, 464, 521
Database	456, 556
IT Systems & Management	540, 554
Security	441, 555

Required: 3 credits	CR	Date
CSC 441: Advanced Information Security		
Foundational Courses: 15-27 credits		
CSC 411: Networking I		
CSC 421: Web-Based Software Design		
CSC 456: Database I		
CSC 464: Human Computer Interaction		
CSC 512: Networking II		
CSC 521: Advanced Web-Based Soft. Dev		
CSC 543: Multiprocessing & Concurrent Prg		
CSC 552: Advanced UNIX Programming		
CSC 554: Project Management		
CSC 556: Database II		
Optional Thesis: 0 or 6 credits		
CSC 599: Thesis – 6 credits		

Elective Courses: 0-6 credits	CR	Date
CSC 402: Data Structures II		
CSC 415: Design & Analysis of Algors I		
CSC 425: Compiler Design I		
CSC 447: Artificial Intelligence I		
CSC 480: Special Topics		
CSC 520: Advanced Object Oriented Prog.		
CSC 526: Compiler Design II		
CSC 540: Engineering Enterprise OO Sys		
CSC 548: Artificial Intelligence II		
CSC 555: Applied Cryptography		
CSC 580: Special Topics		

Program Code: GLASCSCIB
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