Bachelor of Science in Information Technology

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KENNESAW STATE UNIVERSITY

Updated 6/9/2022

Catalog Year: 2022

Total Degree Credit Hours: 120

General Education Requirements (See Degreeworks for Prerequisites)

A-1	**ENGL 1101** Composition I	3	
	ENGL 1102 Composition II	3	
A-2	**MATH 1113** Precalculus	3	

Area A: Essential Skills (9 credit hours)
All Area A courses must be completed within the first 30 credit hours with a grade of C or higher.

B-1	**ECON 1000** Contemporary Economic Issues	2	
B-2	**AADS/AMST/ASIA/GWST/LALS/PAX/RELS 1102, COM 1100, FL 1002, LDRS 2300, PERS 2700** *or* **POLS 2401**	3	

Area B: Institutional Options (5 credit hours)
Choose 1 course from B-2. COM 1100 is recommended.

C-1	Literature: **ENGL 2110, 2120, 2130, 2300** *or* **PHIL 2010**	3	
C-2	Arts and Culture: **ART 1107, MUSI 1107, DANC 1107,** *or* **TPS 1107**	3	

Area C: Humanities, Fine Arts, and Ethics (6 cr hrs)
Choose one course from each area.

D-1	**MATH 1190** Calculus I	4	
D-2	**BIOL 1107/L, BIOL 1108/L, CHEM 1211/L, CHEM 1212/L, PHYS 1111/L, PHYS 1112/L, PHYS 2211/L, PHYS 2212/L**	4 4	

Area D: Science, Math, and Technology (11-12 cr hrs)
Information Technology majors must complete two 4-credit hour science courses. "L" denotes the corresponding lab course. Students **may not** take both PHYS 1111/L and PHYS 2211/L or PHYS 1112/L and PHYS 2212/L. A total of 12 hours are completed for this area with 2 credits carried over to Area F and Upper Div. Major courses.

E-1	**POLS 1101** American Government	3	
E-2	**HIST 2111** *or* **2112** US History	3	
E-3	**HIST 1100, 1111,** *or* **1112** World History	3	
E-4	**CRJU 1101, GEOG 1101, PSYC 1101, SOCI 1101, STS 1101, ANTH 1102,** *or* **ECON 2106**	3	

Area E: Social Sciences (12 credit hours)
Choose one course from each area for E-2, E-3, & E-4.

Area F Lower Division Major Requirements

	Prerequisites		
IT 1114 Programming Principles **AND** **IT 1114L** Programming Principles lab	Lecture & Lab must be taken together	4	
CSE 1321 Programming & Problem Solving I **AND** **CSE 1321L** Programming & Problem Solving I Lab	Lecture & Lab must be taken together	4	
TCOM 2010 Technical Writing	ENGL 1102	3	
STAT 2332 Probability and Data Analysis	MATH 1190	3	
MATH 2345 Discrete Mathematics *or* **CSE 2300** Discrete Structures for Computing	MATH 1113 or 1190 (MATH 1113 or 1190) & CSE 1321/L with 'B' or better	3	
Carryover credit hour from Area D Group 2 Science Lab	See Area D Science requirement	*1*	

Students should start in IT 1114 & IT 1114L then move on to CSE 1321 & CSE 1321L.

'C' or better grade required for all courses in Area F and Upper Division (flip sheet over)

Free Electives (5 credit hours)

Upper Division Major Courses

	Prerequisites		
CSE 3153 Database Systems	IT 1114/L or IT 1113 or CSE 1322/L	3	
CSE 3801 Professional Practices and Ethics	CSE 1322/L or IT 3123*	2	
IT 3123 Hardware & Software Concepts	IT 1114/L or CSE 1321/L	3	
IT 3003 Professional Development & Entrepreneurship	IT 3123*	3	
IT 3203 Intro to Web Development	IT 1114/L or CSE 1321/L	3	
IT 3223 Software Acquisition & Project Management	IT 1114/L or CSE 1321/L	3	
IT 3423 Operating Systems Concepts & Administration	IT 3123 or CS 3503	3	
IT 3883 Advanced Application Development	(IT 1114/L or CSE 1321/L) and CSE 3153	4	
IT 4323 Data Communications & Networks	IT 3123 or CS 3503	3	
IT 4683 Management of IT & Human Computer Interaction	CSE 3153	3	
IT 4723 IT Policy and Law	IT 3123 & IT 3223	3	
IT 4823 Information Security Administration & Privacy	(CSE 2300 or MATH 2345) & (IT 3123 or CS 3503)	3	
IT 4983 IT Capstone	IT 3423, IT 3223, IT 3203 & IT 4323*, IT 4823*	3	
1 Credit hour is carried over from MATH 1190 Calculus 1 – 'C' grade is required		1	

All major courses must have a minimum grade of 'C'.

* - can be done concurrently with course

Concentration (15 credit hours)

Choose **ONE** concentration. Four of the five courses must be completed from the chosen concentration. The fifth course may be from the same or any concentration, IT 4490 Special Topics, or CSE 4983 Computing Internship.

Enterprise Systems	Prerequisites		
IT 3503 Foundations of Health IT	ENGL 1102	3	
IT 4153 Advanced Database	CSE 3153	3	
IT 4333 Network Configuration & Administration	IT 4323 or ECET 3400 or CS 4622	3	
IT 4673 Virtual IT Systems	(IT 3423 or CS 3502), CSE 3153 & IT 4323	3	
IT 4403 Advanced Web and Mobile Applications	IT 3203	3	

Data Analytics and Tech.	Prerequisites		
IT 3703 Introduction to Data Analytics and Technology	IT 3123 & CSE 3153*	3	
IT 4713 Business Intelligence Systems	IT 3703	3	
IT 4733 Big Data System Administration	IT 3703	3	
IT 4773 Machine Learning for Enterprise Applications	IT 3703	3	
IT 4793 Applied Data Driven Solutions	IT 3703	3	

* - can be done concurrently with course

Cyber Operations Security	Prerequisites		
IT 4833 Wireless Security	IT 4323 or ECET 3400 or CS 4622	3	
IT 4843 Ethical Hacking for Effective Defense	IT 4323 or ECET 3400 or CS 4622	3	
IT 4853 Computer Forensics	IT 4323 or ECET 3400 or CS 4622	3	
IT 4883 Infrastructure Defense	IT 4323 or ECET 3400 or CS 4622	3	
IT 4893 Internet of Things: Applications & Security	IT 4823 & IT 4323	3	
IT 4863 Web and Mobile Application Security	IT 3203	3	

Technology & Innovation	Prerequisites		
IT 4603 Introduction to Blockchain Technologies	CSE 3153	3	
IT 4613 Machine Learning Technology in Banking and Investment	IT 4603	3	
IT 4623 Blockchain Technologies Security & Privacy	IT 4603 and IT 4823	3	
FTA 4001 Foundations of FinTech	None	3	
FTA 4002 Financial Technologies	None	3	

FTA 4005 Intro to Financial Data Analytics can be taken as the 5th course for this concentration in addition to the other options (1 course from any concentration)