# Bachelor of Arts in Applied Computer Science

KENNESAW
STATE UNIVERSITY
College of Computing and
Software Engineering
Department of Computer Science

Catalog Year: 2016-2017 Total Degree Credit hours: 120

## General Education Requirements (See DegreeWorks or catalog for prerequisites)

۸ 1	ENGL 1101 Composition I	3	
A-1	ENGL 1102 Composition II	3	
A-2	MATH 1113 Pre-Calculus	3	

B-1	ECON 1000 Contemporary Economic Issues	2	
B-2	FL 1002 Intro to Foreign Lang I or COM	2	
	1100 Human Communication	3	

C-1	ENGL 2000-level Literature	3	
C-2	ART/DANC/MUSI/TPS 1107	,	
C-2	Arts and Culture of the World	3	

D-1	MATH 1190 Calculus I	4	
	CHEM 1211/L or CHEM 1151/L or PHYS		
D-2	1111/L or PHYS 2211/L or BIOL 1107/L	0	
D-2	CHEM 1212/L or CHEM 1152/L or PHYS	0	
	1112/L or PHYS 2212/L or BIOL 1108/L		

E-1	POLS 1101 American Government	3	
E-2	HIST 2111/2112 US History	3	
E-3	HIST 1100/1111/1112 World History	3	
E-4	CRJU/GEOG/PSYC/SOCI/STS 1101, ANTH	2	
	1102 or ECON 2100	3	

#### Area A: Essential Skills 9 credit hours

Must complete all three requirements in this area within first 30 credit hours.

Students must have C or better on all classes in this area.

#### Area B: Institutional Options 5 credit hours

If you take COM 1100 you must still complete the FL 1002 before taking FL 2001 in Area F, unless you test into FL 2001 or obtain CLEP credit for FL 1002.

### Area C: Humanities/Arts 6 credit hours

Choose one course from both groups.

#### Area D: Science, Math & Technology 11 credit hours

Must complete a science sequence. "L" denotes accompanying lab section.

Chem 1211/L is a prerequisite of BIOL 1107/L.

#### Area E: Social Sciences 12 credit hours

Choose one course from each group for requirements E-2 to E-4.

KSU 1101 First Year Seminar	3	
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# Area F Lower Division Major Requirements (18 credit hours)

		Prerequisites		
F-1	ACST 2301 Problem Solving and Computer Game Programming	No Prerequisite	4	
F-2	ACST 2312 Programming with .NET Framework	ACST 2301	4	
F-3	IS 2200 Info Systems and Communication	ENGL 1101 and (MATH 1111 or higher)	3	
F-4	FL 2001 Intermediate Foreign Lang I	FL 1002	3	
F-5	FL 2002 Intermediate Foreign Lang II	FL 2001	3	

Students must have a C or better on all courses included in Area F. Notes:

Students should begin ACST 2301 within their first or second semester in the major.

Student may wish to take the Department of Foreign Languages computerized adaptive placement exam to determine proper placement into the appropriate starting level language course. Students who place at a lower level (1001/1002) must work their way up to FL 2001 and FL 2002.

+ 1 hr from STAT 1107

# Additional Requirements (3 credit hours – 1 credit goes to Area F)

Prerequisites

STAT 1107 Introduction to Statistics	MATH 1111 or higher	3	
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Students must have a C or better in STAT 1107

### **Upper Division Major Courses (27 credit hours)**

#### **Prerequisites**

CS 3410 or CSE 3153 Database Systems	ACST 2312 *	3	
CSE 3203 Overview of Mobile Systems	ACST 2312 *	3	
ACST 3330 Data Structures and DB Applications	ACST 2312	3	
ACST 3340 Modern Languages: Theory, Scripting, R,	ACST 3330	3	
HPC, Fortran	AC31 3330	3	
ACST 3510 Computer Architecture from Foundations	ACST 2313	3	
to Cloud	AC31 2313	3	
ACST 3530 Linux Operating Systems	ACST 2312	3	
ACST 3710 Digital Game Design & Team Project	ACST 2312	3	•
ACST 4620 Computing Security	ACST 3530	3	
LDRS 3000 Foundations of Leadership	ENGL 1102	3	

<sup>\*</sup> Will require override from CCSE Advising – http://ccse.kennesaw.edu/ advising/forms/prereqbypass.php

Students must have a C or better in all Upper Division courses.

# **Interdisciplinary Concentration (25-29 hours)**

Must have C or better in all courses in the minor and concentration.

Please see advisor or coordinator to discuss courses in concentration and minors.

Students may propose an alternative concentration/minor. Must have coordinator approval.

Computing and Natural Sciences
Computing and Mathematical Sciences
Applied Computing
Computing in Arts and Humanities
Computing and Business

After choosing your concentration, please fill in this table to mark progress. Concentration and minor courses and their prerequisites may be found by going to http://catalog.kennesaw.edu

Concentration Courses	Prerequisites	Credits
ACST 4850 Interdisciplinary Project and Portfolio Preparation	ACST 3340	4
Minor Courses   Total credits	Prerequisites	Credits

### Free Electives (0-4 hours)