

## Appendix A

<b>Transfer Agreement for BS in Computer Science</b>					
<b>Kennesaw State University and National Changhua University of Education (NCUE) Taiwan</b>					
<i>KSU Course</i>	<i>KSU Course Title</i>	<i>Credit</i>	<i>FT Course</i>	<i>NCUE Course</i>	<i>Credit</i>
<b>Transfer Agreement for BS in Computer Science</b>					
<b>Kennesaw State University and NCUE, Taiwan</b>					
<b><i>KSU Course</i></b>	<b><i>KSU Course Title</i></b>	<b><i>Credit</i></b>	<b><i>NCUE Course</i></b>	<b><i>NCUE Course Title</i></b>	<b><i>Credit</i></b>
<i>Number</i>	<i>Title</i>	<i>Hours</i>	<i>Number</i>	<i>Title</i>	<i>Hours</i>
<b>Area A Essential Skills (6 hours)</b>					
ENGL 1101	English Composition I (A1)	3		<b>Might transfer but on individual case, student has to have 79 or above TOEFL</b>	
ENGL 1102	English Composition II (A1)	3			
Math 1113	Pre-Calculus	3		PLA Option from KSU Math Department	3
ECON 1000	Comp Economic Issues (B1)	2			
COM 1100	Human Communication (B2)	3			
<b>Area C Humanities/Fine Arts (3 hours)</b>					
C1	Literature of the world	3			
C2	Arts & Culture of the World (C2)	3			
<b>Area D Science/Mathematics (10-11 hours) science sequence (8 hrs) and one math course (3 hrs)</b>					
MATH 1190 Calculus I		4	1EICS0015030	Calculus I	3
			1EICS0014730	Linear Algebra	1
PHYS 2211	Physics I	3		General Physics (I)	3
PHYS 2212	Physics II	3		General Physics (II) Need lab credit	3
PHYS 2211/L	Physics I Lab	1			
PHYS 2211/L	Physics II Lab	1			
Bio 1107/L		4			
<b>Area E Social Sciences (12 hours)</b>					
	US Government (E1)	3			
	US History (E2)	3			
	World History (E3)	3			
	Social Sciences (E4) or Econ 1101	3			

<b>Area F: Lower Division Requirements (18 hrs)</b>					
MATH 2202 Calculus II		4	1EICS0015130	Calculus II	3
			1EICS0014730	Linear Algebra	1
CSE 1321	Programming and Problem Solving I	3	1EICS0026030	Java Programming	3
CSE 1322	Programming and Problem Solving II	3	1EICS01535300	Advanced Program Design	3
CS 1321L	Programming and Problem Solving I Lab	1	1EICS0026230	Object Orientated Program Design	1
CS 1322L	Programming and Problem Solving II Lab	1	1EICS0026230	Object Orientated Program Design	1
Biol 1107, Chem 1211	Varies	4			
<b>Upper Level Major Requirements (31 hrs)</b>					
CS 3305	Data Structures	3	1EICS0022430	Data Structures	3
CS 3305L					
CS 3503	Computer Organization, Architecture	3	1EICS0023730	Computer organization	3
CS 3503L					
CS 3502	Operating Systems	3	1EICS0023230	Operating Systems	3
CS 3410	Database systems	3	1EICS0022130	Database system	3
CS 4305	Software Engineering	3			
CS 4306	Algorithm Analysis	3	1EICS0021530	Computer Algorithms	3
CS 4504	Distributed Computing	3	1EICS0026830	Distributed systems	3
CS 4308	Concepts of Programming languages	3	1EICS0152430	Theory and Practice of Programming Language	3
CSE 3801	Professional Practices and Ethics	2			
CS 4850	Senior Project	3			
<b>Additional Requirements 12 Hrs</b>					
TCOM 2010	Technical Writing	3			
Math 2345	Discrete Mathematics	3	1EICS0014930	<b>Discrete Mathematics</b>	3
Math 3332	Probability and Inference	3	1EICS0014830	Probability Theory	3
<b>Upper Division Math Elective-Choose 1</b>					
Math 3322	Graph Theory		1EICS0156630	Graph theory	3
Math 3260	Linear Algebra 1	3			

Math 3261	Numerical Methods I				
Math 3272	Intro. To Linear Programming				
Math 2255	Calculus III				
<b>Upper Level Major Electives (12 hrs)</b>					
CS 4242	Artificial Intelligence	3	1EICS0019930	Artificial Intelligence	3
CS 4265	Big Data Analytics	3			
CS 4267	Machine Learning	3			
CS 4270	Intelligent Systems in Bioinformatics	3			
CS 4322	Mobile Software Development	3			
CS 4412	Data Mining	3	1EICS0022530	Data Mining	3
CS 4490	Special Topics in CS	3			
CS 4512	Systems Programming	3	1EICS0020030	System Programs	3
CS 4514	Real-Time Systems	3			
CS 4522	HPC & Parallel Programming	3	1EICS0021030	Parallel Computing	3
CS 4523	Programming Massively Parallel Processors	3			
CS 4524	Cloud Computing	3	1EICS0128630	Mobile computing	
CS 4612	Secure Software Development	3	1EICS0017530	Network Security	3
CS 4622	Computer Networks	3	1EICS0128330	Computer Networks	3
CS 4632	Modeling and Simulation	3			
CS 4712	user interface engineering	3			
CS 4720	Internet Programming	3			
CS 4722	Computer Graphics and Multimedia	3	1EICS0023130	Computer Graphics	3
CS 4732	Digital Image Processing	3	1EICS0129930	Digital Image Processing	3
SWE 3633	Software Architecture and Design	3			
SWE 3643	Software Testing & Quality Assurance	3			
SWE 3683	Embedded Systems Analysis and Design	3	1EICS0023530	Embedded systems	3
SWE 3843	Embedded Systems Construction and Testing	3			
SWE 4633	Component-Based Software Development	3			
	<b>FREE ELECTIVES (5 Hrs)</b>	5	1EICS0022030	Program Design	3
			1EICS0129630	Statistics	3
<b>Total Hours</b>		<b>120</b>			<b>72</b>

## **Appendix B**

### Kennesaw State BS in Computer Science Admission Requirements

- Quota: It will be determined by both sides yearly.
- TOEFL/IELTS Score (See Attachment B)
- Official college transcript sealed in an envelope by the school
- Statement of Purpose
- Undergraduate degree or equivalent
  
- A completed application for admission on HobsonsRadius  
(<http://graduate.kennesaw.edu/admissions/apply/program-information/compsci.php>)
- Copy of pass port

**Appendix C**  
Kennesaw State English Language Requirement

In addition to meeting all admission requirements outlined in Attachment A, NCUE students must fulfill the English language requirement for admission in one of the following:

- a score of 500 on the paper-based TOEFL
- a score of 173 on the computer-based TOEFL(CBT)
- a score of 61 on the internet-based TOEFL (iBT)
- a score of 5.0on the International English Language Testing System(IELTS)
- In case that TOEFL is below 80 (or 6.5), students may be admitted to take English courses at KSU.