

## **Attachment A**

### **Kennesaw State MS in Computer Science Admission Requirements**

#### **附件 A**

#### **肯尼索州立大學資訊科學碩士學位入學條件**

- **Applicants have to enroll in CSIE, NCUE for at least one semester and take at least 12 credits.**  
研究生須於彰師大碩士班至少修讀一學期，修畢彰師大第一學期課程 12 學分(含)以上表現優良。
- **Quota: It will be determined by both sides yearly.**  
名額:每年由本系與肯尼索州立大學商議後公佈。
- **TOEFL/IELTS Score (See Attachment B)**  
英語能力標準(請參閱附件 B)
- **Official college transcript sealed in an envelope by the school**  
由學校彌封之正式成績單
- **Statement of Purpose**  
讀書計畫
- **Undergraduate degree or equivalent**  
具本科學歷或同等學歷
- **A completed application for admission on HobsonsRadius**  
(<http://graduate.kennesaw.edu/admissions/apply/program-information/compsci.php>)  
完成國際線上申請
- **Copy of pass port**  
護照影本

**Attachment B**  
Kennesaw State English Language Requirement  
附件 B  
肯尼索州立大學英語語言標準

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:

除滿足附件 A 所列之入學要求，彰師大學生另須符合下列其中一項英語語言標準：

- a score of 550 on the paper-based TOEFL  
paper-based TOEFL 須達 550 分
- a score of 213 on the computer-based TOEFL(CBT)  
computer-based TOEFL 須達 213 分
- a score of 80 on the internet-based TOEFL (iBT)  
internet-based TOEFL 須達 80 分
- a score of 6.5 on the International English Language Testing System(IELTS)  
International English Language Testing System(IELTS)須達 6.5 分
- In case that TOEFL is below 80 (or 6.5), students may be admitted to take English courses at KSU.

若英語能力檢定未達上述標準，學生仍可選擇在 KSU 參加英語課程而參加本雙聯學制。

**Attachment C**  
**Kennesaw State University and National Changhua University of Education**  
**Course mapping**

肯尼索州立大學與彰化師範大學課程對照表

Graduate students may transfer no more than 9 credit hours to KSU  
 研究生修習彰師大課程後最多可在肯尼索所州立大學抵免 9 學分

<b>Transfer Agreement for MS in Computer Science</b>					
<b>Kennesaw State University and National Changhua University of Education, Taiwan</b>					
<i>KSU Course</i>	<i>KSU Course Title</i>	<i>Credit</i>	<i>NCUE Course</i>	<i>NCUE Course</i>	<i>Credit</i>
<i>Number</i>	<i>Title</i>	<i>Hours</i>	<i>Number</i>	<i>Title</i>	<i>Hours</i>
<b>Required Common Core (12 hours)</b>				NCUE Common Core	
CS 6021	Advanced Computer Architecture	3	1EICS2020530	Advanced Computer Architecture	3
CS 6041	Theory of Computation	3			
CS 6045	Advanced Algorithms	3	1EICS2019730	ADVANCED COMPUTER ARCHITECTURE	3
CS 6025 or CS 6027	Advanced Operating Systems	3			
	Advanced Computer Networking	3			
<b>CS Elective Track (6 hours)</b>					
<b>High Performance Computing Track</b>					
CS 7125	Cloud Computing	3			
CS 7172	Parallel and Distributed Computing	3	1EICS2151830	OPTIMIZED PARALLEL COMPUTING	3
CS 7174	Modeling and Simulation	3	1EICS2025430	QUEUING THEORY	3
<b>Big Data Track</b>					
CS 7260	Advanced Database Systems	3	1EICS2024430	SPECIAL TOPICS IN ADVANCED DATABASE	3
CS 7263	Text Mining	3	1EICS2154530	DATA MINING	3
CS 7265	Big Data Analytics	3			
CS 7267	Machine Learning	3			
<b>Media, Graphics, and HCI Track</b>					
CS 7327	Computer Graphics and Multimedia	3	1EICS2023030	COMPUTER GRAPHICS	3
CS 7367	Machine Vision	3	1EICS2017230	DIGITAL IMAGE PROCESSING	3
CS 7375	Artificial Intelligence	3	1EICS2132730	ARTIFICIAL INTELLIGENCE	3
<b>Mobile and Game Track</b>					
CS 7425	Wireless and Mobile Computing	3	1EICS2018530	WIRELESS COMMUNICATION NETWORKS	3
CS 7455	Mobile App Development	3			
CS 7457	Game Design and Development	3			
<b>Cybersecurity Track</b>					

CS 7530	Computing Security	3	1EICS2014630	CRYPTOGRAPHY & INFORMATION SECURITY	3
CS 7535	Computing Security: Implementation and Application	3			
CS 7537	Digital Forensics	3			
<b>Additional CS Electives</b>					
CS 7050	Data Warehousing and Mining	3			
CS 7060	Mobile Intelligence	3			
CS 7070	Advanced Networking Protocols	3	1EICS2025730	INTERNET PROTOCOLS	3
CS 7385	Human Factors	3			
CS 7827	Real Time Systems	3			
CS 7843	Theory of Programming Languages	3			
CS 7990	Special Topics in Computer Science	3	1EICS2152720 1EICS2153120 1EICS2152920	NETWORKED COMMUNICATION PROJECT I RESEARCH ON SOFTWARE DEVELOPMENT I THE RESEARCH PROJECT OF SYSTEM INTEGRATION I	2 2 2
CS 7991	Advanced Topics in Computer Science	3			
CS 7992	Directed Studies	3	1EICS2013730 1EICS2013830	THESIS SUPERVISION I THESIS SUPERVISION II	3 3
CS 7995	Internship	3			
CS 7xxx	Seminar (To be proposed)	1	1EICS2133810	SEMINAR	1
<b>Thesis (6 – 9 hours)</b>					
CS 7999	Thesis	3	1EICS2028100	THESIS	0
<b>Approved Interdisciplinary Track Options (6 hours)</b>					
<b>Option One: Information Technology (6 Credit Hours)</b>					
IT 6203	IT Design Studio	3			
IT 6413	IT Service Delivery	3			
IT 6423	IT System Acquisition & Integration	3			
IT 6823	Information Security Concepts & Administration	3			
IT 7833	IT Strategy, Policy, and Governance	3			
<b>Option Two: MS in Applied Statistics (6 Credit Hours)</b>					
STAT 7020	Statistical Computing and Simulation	3			
STAT 7100	Statistical Methods	3			
STAT 8020	Advanced Programming in SAS	3			
STAT 8210	Applied Regression Analysis	3			
STAT 8220	Time Series Forecasting	3			
STAT 8320	Applied Multivariate Data Analysis	3			
<b>Option Three: Software Engineering (6 Credit Hours)</b>					

SWE 6613	SWE 6613 - Requirements Engineering	3			
SWE 6623	Software Engineering	3	1EICS2026430	OBJECT-ORIENTED SOFTWARE ENGINEERING	3
SWE 6633	Software Project Planning & Management	3			
SWE 6673	Software Quality Engineering & Assurance	3			
SWE 6743	Object-Oriented Analysis & Design	3			
SWE 6823	Embedded Systems Analysis and Design	3	1EICS2023430	EMBEDDED SYSTEMS	3
SWE 6843	Embedded Systems Design and Construction	3			
<b>Total Hours</b>		<b>36</b>			

**Attachment D**  
**Agreement for Co-advising of Master's Dissertation**  
**雙聯學制碩士論文指導申請表與合約書**

1. 學生個人基本資料 Student Personal Information

姓名：Name:  
出生地：Place of birth:  
生日：年 月 日 Date of birth: \_\_\_\_ day \_\_\_\_ month \_\_\_\_\_ year  
國籍：Nationality:  
性別：Gender:  
電子信箱：Email address:

2. 修課、研究與論文 Coursework, Research, and Dissertation

學生課業修習與研究工作預計至少四學期，且必須於兩校修習論文以完成學位；在特別的情形下得依雙方指導教授的共同計畫書而延長，此乃取決於簽署此協議書兩系間的特殊協議。

The student will take courses and conduct research for at least four semesters, and a thesis is also required in order to complete the degree. Under special circumstances, the time of study may be extended according to the joint project plan of both advisors supervising the student and in association with those representatives signing the agreement between the two Departments.

研究主題 Research topic: \_\_\_\_\_

指導教授 Supervised by:

KSU，由資訊科學學系 \_\_\_\_\_ 教授指導

Advisor: Prof. \_\_\_\_\_ of Computer Science Department at KSU University

NCUE，由資訊工程學系 \_\_\_\_\_ 教授指導

Advisor: Prof. \_\_\_\_\_ of the CSIE Department at NCUE University

(1) 論文的準備時間將輪流分配於兩校，該生分別在兩校的停留時間皆不得少於\_\_個月。

Preparation of the dissertation should be done at both universities. The student must remain at each university for a minimum of (number) months.

(2) 論文主要以\_\_\_\_\_文撰寫，摘要則分別以\_\_\_\_\_文及\_\_\_\_\_文各撰寫一篇。

The dissertation shall be written in the \_\_\_\_ language. The abstract shall be written in the \_\_\_\_ and \_\_\_\_\_ languages.

(3) 口試委員會之組成至少三位，兩校之指導教授為當然之口試委員。

There should be at least three members in the dissertation defense committee. Advisors from both universities are ex officio members.

(4) 口試日期預定於20\_\_年\_\_月。論文口試採用\_\_\_\_\_文，但於口試最後總結部份，仍須以\_\_\_\_\_文重述一次。

The oral defense is scheduled to take place in (month) of 20\_\_. The oral defense shall take place in the \_\_\_\_\_ language. However, the conclusion part of the oral defense shall be in the \_\_\_\_\_ language.

碩士生 Master candidate 中文姓名Chinese Name & Surname : (_____, ____) 簽署 Signature : _____  英文姓名English Name & Surname : (_____, ____) 簽署 Signature : _____  日期 Date :            /            /	
KSU指導教授 KSU Advisor: _____ (Prof. _____)  日期 Date :            /            /	NCUE指導教授 NCUE Advisor: _____ (Prof. _____)  日期 Date :            /            /
KSU 資訊科學學系主任Chair of Department of Computer Science at KSU : _____ (Dr. _____)  日期 Date :            /            /	NCUE 資訊工程學系主任 Chair of Department CSIE at NCUE : _____ (Dr. _____)  日期 Date :            /            /