![Northeastern University — College of Professional Studies]

Transfer Articulation Guide

North Shore Community College A.A Computer Information Systems (CIT)
to
Northeastern University College of Professional Studies
BS Information Technology

North Shore Community College AA in Computer Information Systems Courses			Northeastern University College of Professional Studies BS in Information Technology Equivalencies		
First Year Fall (15 credits)					
CMP101	Composition 1	3	ENG 1105 + ENG 1106	College Writing 1 + Lab	3
CPS100	Information Technology and Its Applications	3	ITC 1000	Computer Applications	3
HUM Elective **Recommendation:** **PHI116**	Ethics	3	PHL 2140	Ethical Issues in Science and Engineering	3
SS Elective 1 **Choose from List**		3		*(SI Core: Societies and Institutions)*	3
Mathematics Elective 1 **Recommendation:** **MAT151**	Precalculus 1	3	MTH 1100	College Algebra	3
First Year Spring (14 credits)					
Mathematics Elective 2 **Recommendation:** **MAT241**	Discrete Structures	3	MTH 2400	Technology and Applications of Discrete Mathematics	3
Composition 102-150 **Recommendation:** **CMP102/H**	Composition 2/Honors	3	ENG 1107 + ENG 1108	College Writing 2 + Lab	3
CPS Elective **Recommendation:** **CPS114**	Advanced Microsoft Office	4	ITC 2016 + ITC 2990	End User Data Analysis Tools + ITC Elective	4
CPS101	Computer Science 1 (Java 1)	4	ITC 2100 + ITC 2990	Introduction to Programming (Java) + ITC Elective	4

Second Year Fall (14 credits)					
LS Elective **Choose from list**		4		*(ND Core: Engaging with the Natural and Designed World)*	4
CPS Elective 1 **Recommendation:** **CPS122**	Operating Systems	4	ITC 1200 + ITC 1990	Operating Systems Concepts + ITC Elective	4
HUM Elective 1 **Choose from list**		3		*(IC Core: Interpreting Culture)*	3
SS Elective 1 **Recommendation:** **Choose from list**		3		*(Open Elective)*	3
Second Year Spring (17 credits)					
CPS Elective 2 **Recommendation:** **CPS138**	Internet Networking and Security	4	ITC 2200 + ITC 2990	Networking Foundations + ITC Elective	4
HUM Elective 2 **Recommendation:** **Any HUM Elective**		3		*(Open Elective)*	3
SS Elective 2 **Recommendation:** **Any SS Elective**		3		*(Open Elective)*	3
Open Elective **Recommendation:** **CPS210**	Computer Systems Development	4	ITC 2000 + ITC 2990	Principles of Systems Analysis and Design + ITC Elective	4
SCI Elective **Recommendation:** **Any SCI Elective**		3		*(Open Elective)*	3
Total Credits Completed at North Shore Community College		**60**		**Total Credits Transferred**	**60**
				Total Credits Applied to BS Degree	**60**

SS Elective 1 Course Options

ANT102	Cultural Anthropology	3	ANT 1150	Cultural Anthropology	3
ECO103	Principles of Macroeconomics	3	ECN 1200	Principles of Macroeconomics	3
GOV102	American National Government and Politics	3	POL 1300	American Government	3
HIS103	U.S. History 1	3	HST 1200	American History 1: Precontact to the Civil War	3
HIS104	U.S. History 2	3	HST 1250	American History 2: Reconstruction to the Present	3
HIS126	The World in the 20th Century	3	HST 2150	The World Since 1945	3
SOC106	Introduction to Sociology	3	SOC 1100	Introduction to Sociology	3

LS Elective Course Options

BIO105	Biology 1: General Biology 1	4	BIO 1100 & BIO 1101	Principles of Biology 1 w/Lab	4
BIO106	Biology 2: General Biology 2	4	BIO 1200 & BIO 1201	Principles of Biology 2 w/Lab	4
BIO103	Anatomy and Physiology 1	4	BIO 1600 & BIO 1601	Human Anatomy and Physiology 1 w/Lab	4
BIO104	Anatomy and Physiology 2	4	BIO 1700 & BIO 1701	Human Anatomy and Physiology 2 w/Lab	4
CHE103	General Chemistry 1	4	CHM 1100 & CHM 1101	General Chemistry 1 w/Lab	4
CHE104	General Chemistry 2	4	CHM 1200 & CHM 1201	General Chemistry 2 w/Lab	4

HUM Elective 1 Course Options

LIT202	British Literature 1: Eighth Century to Nineteenth	3	ENG 2230	English Literature 1	3
LIT204	British Literature 2: Nineteenth Century to Present	3	ENG 2231	English Literature 2	3
LIT210	American Literature 1: Colonial Period to the Civil War	3	ENG 2450	American Literature 1	3
LIT212	American Literature 2: Civil War to the Modern Age	3	ENG 2451	American Literature 2	3

BS in Information Technology
Courses to be Completed at CPS

General Foundation			Prerequisite
ENG 3105	Writing for the Professions–Science & Engineering	3	(ENG 1103 + ENG 1104) or (ENG 1105 + ENG 1106); ENG 3105 and ENG 3106 are co-requisites
ENG 3106	Lab for ENG 3105	1	
General Foundation Total		**4**	
Information Technology Foundation			
MGT 1100	Introduction to Business	3	
MGT 2310	Organizational Behavior	3	HMG 1100 or MGT 1100
Business Foundation Total		**6**	
Major			
ITC 2300	Database Management Systems	3	ITC 2000
ITC 2400	Web and Mobile Development	3	
ITC 4500	IT Project Management	3	ITC 2100, ITC 2200, ITC 2300 and ITC 2400
ITC 4600	Information Security Management	3	ITC 2200 and ITC 2300
ITC 4840	Preparation for IT Project	3	ITC 4500
ITC 4850	Information Technology Project	3	ITC 4840
Major Total		**18**	
Major Areas			
Systems Analysis and Design (Complete one)			
Systems Analysis and Design Total		**0**	
Programming (Complete one)			
GET 2100	Computer Engineering Programming & Analysis	3	(MTH 2100, MTH 2105, MTH 2110, or MTH 2400) and GET 1100
CET 2200	Data Structures and Algorithms	3	GET 2100 or ITC 2100
CET 2300	Object-Oriented Programming	3	CET 2200
ITC 3100	Advanced Applications Development	3	ITC 2100, GET 2100, or CET 2200
Programming Total		**3**	
Networking (Complete one)			
ITC 3220	Mobile and Wireless Networking	3	ITC 2200
ITC 4200	Network Security	3	ITC 2200
Networking Total		**3**	
Human-Computer Interaction (Complete one)			
TCC 3450	Writing for the Web	3	ENG 1107 and TCC 2200
ITC 1100	Human-Computer Interfaces	3	
Human-Computer Interaction Total		**3**	

Database (Complete one)			
ITC 3300	Structured Query Language (SQL)	3	ITC 2300
ITC 3150	Database Websites with PHP/MySQL	3	ITC 2300 and ITC 2400
ITC 3320	Data Warehousing Technologies	3	ITC 2300
	Database Total	**3**	
Web and Mobile Development (Complete one)			
ITC 3400	Web Design and Multimedia	3	ITC 2400
ITC 3150	Database Websites with PHP/MySQL	3	ITC 2300 and ITC 2400
	Web and Mobile Development Total	**3**	
	Professional Elective Total	**9**	
	Open Elective Total	**8**	
	Credits to be Completed at CPS	**60**	
Total Credits required for CPS BS Information Technology		**120**	

IT Course Options (can satisfy Professional and Open Electives)

Area of Focus: Applications Development			
CET 2200	Data Structures and Algorithms	3	GET 2100 or ITC 2100
CET 2300	Object-Oriented Programming	3	CET 2200
CET 4240	Software Engineering	3	(CET 2200 or ITC 2100) and CET 2300
ITC 2430	E-Commerce Systems	3	MGT 1100
ITC 3100	Advanced Applications Development	3	ITC 2100, GET 2100, or CET 2200
ITC 3150	Database Websites with PHP/MySQL	3	ITC 2300 and ITC 2400
ITC 3300	Structured Query Language (SQL)	3	ITC 2300
ITC 3320	Data Warehousing Technologies	3	ITC 2300
ITC 3400	Web Design and Multimedia	3	ITC 2400

Area of Focus: Infrastructure and Security			
ITC 3220	Mobile and Wireless Networking	3	ITC 2200
ITC 3250	Unix Systems Administration	3	ITC 1200
ITC 4200	Network Security	3	ITC 2200
ITC 4210	Web Server Administration	3	ITC 3250
ITC 4260	Database Administration	3	ITC 3300
ITC 4650	Compliance and Risk Issues in Information Technology	3	ITC 4600