



Northeastern University

College of Professional Studies

Transfer Articulation Guide

**Middlesex Community College A.S. Liberal Studies - Information Technology –
Cybersecurity Transfer**

to

Northeastern University College of Professional Studies

BS Information Technology

Middlesex Community College AS in Liberal Studies - Information Technology – Cybersecurity Courses			Northeastern University College of Professional Studies BS in Information Technology Equivalencies		
Semester 1 - Fall (17 credits)					
ITC 101	Introduction to IT	4	ITC 1990	ITC Elective	4
NST 121	Computer Systems Fundamentals	4	ITC 1200 + MTH 2400	Operating Systems Concepts + Technology and Applications of Discrete Mathematics	4
NST 181	Networking I	3	ITC 2990	ITC Elective <i>(Professional Elective)</i>	3
ENG 101	English Composition I	3	ENG 1105 + ENG 1106	College Writing 1 + Lab	3
<i>MAT 177 or MAT 120 Take MAT 177</i>	Statistics	3	MTH 2310	Statistics for the Behavioral and Social Sciences <i>(Waive MTH 1100)</i>	3
Semester 2 - Spring (13 credits)					
NST 231	Networking II	3	ITC 2200	Networking Foundations	3
NST 281	Computer Network Security I	3	ITC 3990	ITC Elective <i>(Professional Elective)</i>	3
ITC 111	Scripting for Security	4	ITC 2100 + ITC 2990	Introduction to Programming + ITC Elective	4
ENG 102	English Composition II: Introduction to Literature	3	ENG 1200	Introduction to Literature	3

Semester 3 – Fall (16 credits)					
NST 282	Computer Network Security II	3	ITC 4200	Network Security	3
ITC 201	Virtualization and Cloud Infrastructure	4	ITC 3990	ITC Elective (Professional Elective)	4
<i>Humanities elective</i> Take ETH 102	Business Ethics	3	PHL 2100	Business Ethics	3
<i>Behavioral Science Elective</i> Take ANT 101	Cultural Anthropology	3	ANT 1150	Cultural Anthropology (IC + SI Core)	3
<i>Social Science Elective</i> Take any		3		(Open Elective)	3
Semester 4 - Spring (15 credits)					
ITC 211	Information Storage Management	4	ITC 4990	ITC Elective (Professional Elective)	4
ITC 240	Ethical Hacking	4	ITC 3620 + ITC 3990	Legal and Ethical Issues in Cybersecurity + ITC Elective	4
ITC 250	Security Capstone	3	ITC 4990	ITC Elective (Professional Elective)	3
<i>Science Elective</i> See Note Below		4		(ND Core: Engaging with the Natural and Designed World)	4
Total Credits Accepted for Transfer					61
Total Transfer Credits Applied to BS Degree					61

Science Elective Course Options

BIO 131	General Biology I	4	BIO 1100 + BIO 1101	Principles of Biology 1 + Lab	4
BIO 231	Human Anatomy and Physiology I	4	BIO 1600 + BIO 1601	Human Anatomy and Physiology 1 + Lab	4
CHE 121 or CHE 131	Introduction to Chemistry <i>or</i> College Chemistry I	4	CHM 1100 + CHM 1101	General Chemistry 1 + Lab	4

BS in Information Technology
Courses to be taken at CPS

General Foundation			Prerequisite
ENG 1107	College Writing 2	3	
ENG 1108	Lab for ENG 1107	1	ENG 1105 + ENG 1106
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		8	
Information Technology Foundation			
ITC 2016	End User Data Analysis Tools	3	
MGT 1100	Introduction to Business	3	
MGT 2310	Organizational Behavior	3	HMG 1100 or MGT 1100
Business Foundation Total		9	
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			
<i>Systems Analysis and Design (Complete one)</i>			
ITC 2000	Principles of Systems Analysis and Design	3	
CET 4240	Software Engineering	3	(CET 2200 or ITC 2100) and CET 2300
Systems Analysis and Design Total		3	
<i>Programming (Complete one)</i>			
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 Total		0	
<i>Human-Computer Interaction (Complete one)</i>			
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 3150	Database Websites with PHP/MySQL	3	ITC 2300 and ITC 2400
ITC 3400	Web Design and Multimedia	3	ITC 2400
Web and Mobile Development Total		3	
Professional Elective Total		0	
*Open Elective Total		9	
Credits to be taken at CPS		59	
Total Credits required for CPS BS Information Technology		120	

Optional Concentrations (credits satisfy Professional Electives and Open Electives)

Applications Development Concentration (effective fall 2018)			
<i>Complete 5 courses from the following that have not been taken to fulfill major requirements.</i>			
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
Applications Development Concentration Total		15	
Cybersecurity and Systems Administration Concentration (effective fall 2018)			
<i>Complete 5 courses from the following that have not been taken to fulfill major requirements.</i>			
ITC 3220	Mobile and Wireless Networking	3	ITC 2200
ITC 3250	Unix Systems Administration	3	ITC 1200
ITC 3620	Legal and Ethical Issues in Cybersecurity	3	
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
ITC 4660	Encryption Concepts	3	ITC 4220
ITC 4670	Software Vulnerabilities	3	ITC 3100 or CET 2300
ITC 4680	Forensics in Information Technology	3	ITC 4200
Cybersecurity and Systems Administration Concentration Total		15	

TRANSFER ARTICULATION GUIDE REVIEWED AND APPROVED BY

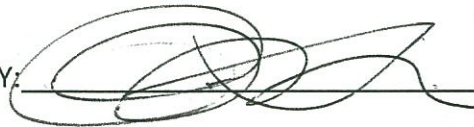
MIDDLESEX COMMUNITY COLLEGE

BY: James C. Mabry

PRINT: James Mabry

TITLE: President

DATE: 3/26/18

BY: 

PRINT: Philip Sisson

TITLE: Provost

DATE: 3/2/18

BY: _____

PRINT: Kathleen Sweeney

TITLE: Dean, STEM

DATE: Kathleen Sweeney

BY: 

PRINT: Ellen Grondine

TITLE: Dean of Education, Transfer & Articulation

DATE: 2/28/18

NORTHEASTERN UNIVERSITY COLLEGE OF PROFESSIONAL STUDIES

BY: 

PRINT: Lynda Hodgson

TITLE: Assistant Teaching Professor, Lead Faculty for BS Information Technology

DATE: 2/27/18