



Northeastern University

College of Professional Studies

Transfer Articulation Guide

**Mount Wachusett Community College A.S. Computer Information Systems
to
Northeastern University College of Professional Studies BS Information
Technology**

Mount Wachusett Community College AS in Computer Information Systems Courses			Northeastern University College of Professional Studies BS in Information Technology Equivalencies		
Year 1: Fall (15 credits)					
CIS 109	Introduction to Programming	3	ITC 2100	Introduction to Programming Java	3
<i>Social Science Elective See below list</i>		3		<i>(IC and SI Core)</i>	3
ENG 101	College Writing I	3	ENG 1105 + ENG 1106	College Writing 1 + Lab	3
CIS 128	Introduction to Information Systems	3	MGT 2210	Information within the Enterprise	3
CIS 140	Microcomputer Networking Applications	3	ITC 2200	Networking Foundations	3
Year 1: Spring (15 credits)					
ENG 102	College Writing II	3	ENG 1107 + ENG 1108	College Writing II + Writing Lab II	3
CIS 123	Microcomputer Database Management	3	ITC 1990	ITC Elective (<i>Professional Elective</i>)	3
<i>MAT 126 or higher Take MAT 143</i>	Statistics	3	MTH 2310	Statistics for the Behavioral and Social Sciences (<i>Waive MTH 1100</i>)	3
CIS 143	Computer Service and Repair	3	CET 2100	Essentials of Computer Organization (<i>Professional Elective</i>)	3
<i>Professional Elective Take any</i>		3		<i>(Open Elective)</i>	3

Year 2: Fall (15-16 credits)					
<i>CED 203 or CIS Elective</i> Take any		3		<i>(Professional Elective)</i>	3
<i>Science Elective</i> See list below		3-4		Engaging with the Natural and Designed World <i>(ND Core)</i>	3-4
<i>CIS 144 or 290</i> Take CIS 144	Network Security	3	ITC 4200	Network Security	3
CIS 224	Beginning PI/Sql	3	ITC 3300	Structured Query Language (SQL)	3
<i>ACC/BUS/MGT/ MKT Elective</i> Take any		3		<i>(Open Elective)</i>	3
Year 2: Spring (15 credits)					
CIS 219	Principles of Information Security	3	ITC 4600	Information Security Management	3
CIS 141	Supporting Private Clouds	3	ITC 3990	ITC Elective <i>(Professional Elective)</i>	3
<i>Humanities Elective</i> Take PHL 250	Ethics	3	PHL 2140	Ethical Issues in Science and Engineering	3
<i>CIS 118 or 292</i> Take CIS 118	Mobile and Web Development	3	ITC 2400	Web and Mobile Development	3
<i>Restrictive Elective</i> Take CIS 290	Java I	3	ITC 2990	ITC Elective <i>(Programming Option)</i>	3
Total Credits Completed at Mount Wachusett Community College		60-61	Total Credits Transferred		60-61
			Total Credits Applied to BS Degree		60-61

Social Science Elective Options

ANT 111	Cultural Anthropology	3	ANT 1150	Cultural Anthropology <i>(SI and IC Core)</i>	3
HIS 105	History Of World Civilization I	3	HST 1100	History of the World 1: Pre History to the Renaissance <i>(SI and IC Core)</i>	3
HIS 106	History Of World Civilization II	3	HST 1150	History of the World 2: From Renaissance to Present <i>(SI and IC Core)</i>	3

Science Elective Options

BIO 101	Introduction To Nutrition	3	HSC 1200	Nutrition	3
BIO 109	Biology I	4	BIO 1100 + BIO 1101	Principles of Biology 1 + Lab	4
BIO 110	Biology II	4	BIO 1200 + BIO 1201	Principles of Biology 2 + Lab	4
BIO 199	Anatomy & Physiology I	4	BIO 1600 + BIO 1601	Human Anatomy and Physiology 1 + Lab	4
BIO 204	Anatomy & Physiology II	4	BIO 1700 + BIO 1701	Human Anatomy and Physiology 2 + Lab	4
CHE 107	General Chemistry I	4	CHM 1100 + CHM 1101	General Chemistry 1 + Lab	4
CHE 108	General Chemistry II	4	CHM 1200 + CHM 1201	General Chemistry 2 + Lab	4
PHY 120	Physics for Engineering and Science I	4	PHY 1200 + PHY 1201	Physics 1 + Lab	4
PHY 121	Physics for Engineering and Science II	4	PHY 2200 + PHY 2201	Physics 2 + Lab	4

**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			
ITC 1200	Operating Systems Concepts	3	
ITC 2016	End User Data Analysis Tools	3	
MGT 1100	Introduction to Business	3	
MGT 2310	Organizational Behavior	3	HMG 1100 or MGT 1100
MTH 2400	Technology and Applications of Discrete Mathematics	3	MTH 1100, MTH 1200, or MTH 2100 (Waive pre-requisite)
Business Foundation Total		15	
Major			
ITC 2300	Database Management Systems	3	ITC 2000
ITC 4500	IT Project Management	3	ITC 2100, ITC 2200, ITC 2300 and ITC 2400
ITC 4840	Preparation for IT Project	3	ITC 4500
ITC 4850	Information Technology Project	3	ITC 4840
Major Total		12	
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>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	
<i>Web and Mobile Development (Complete one)</i>			
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		3	
*Open Elective Total		16-17	
Credits to be taken at CPS		59-60	
Total Credits required for CPS BS Information Technology		120	

***IT Course Options (can satisfy Professional Electives)**

Area of Focus: Applications Development			
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 3320	Data Warehousing Technologies	3	ITC 2300

Area of Focus: Infrastructure and Security			
ITC 3220	Mobile and Wireless Networking	3	ITC 2200
ITC 3250	Unix Systems Administration	3	UTC 1200
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

Alternatively, students may choose to complete one of the following minors while satisfying their Open Electives:

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|--------------------------|----------------------------------|
| 1) American Politics | 8) History |
| 2) Biology | 9) International Relations |
| 3) Business | 10) Organizational Communication |
| 4) Creative Writing | 11) Psychology |
| 5) Environmental Science | 12) Sociology |
| 6) Graphic Communication | 13) Technical Communication |
| 7) Healthcare Management | |

For more information about minors, please visit: <http://www.cps.neu.edu/degree-programs/undergraduate/bachelors-degrees/bachelors-minors.php>.

TRANSFER ARTICULATION GUIDE REVIEWED AND APPROVED BY:

MOUNT WACHUSETT COMMUNITY COLLEGE

BY: Vincent Ialenti

PRINT: Dr. Vincent Ialenti

TITLE: Interim Vice President Academic Affairs

DATE: 1/16/18

BY: Veronica Guay

PRINT: Veronica Guay

TITLE: Assistant Dean, The School of Business, Science, Technology & Mathematics

DATE: 1/16/18

BY: Susan Taylor

PRINT: Susan Taylor

TITLE: Professor, Computer Information Systems

DATE: 1-16-18

BY: Linda Velez Scullane

PRINT: Linda Velez Scullane

TITLE: Assistant Director of Articulation & Curriculum Pathways

DATE: 1-16-18

NORTHEASTERN UNIVERSITY COLLEGE OF PROFESSIONAL STUDIES

BY: Lynda Hodgson

PRINT: Lynda Hodgson

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

DATE: 1/8/18