

**Articulation Agreement:  
Portland Community College's Computer Information Systems Associate of Applied Science Degree  
&  
ITT Technical Institute's Data Communication Systems Technology Bachelor of Science Degree**

It is agreed that students transferring from Portland Community College's Computer Information Systems degree to ITT Technical Institute's Data Communication Systems Technology degree will be given full credit for all selected courses listed on the attached document. This agreement is based on the evaluation of the rigor and content of the general education and technical core courses at both Portland Community College and ITT Technical Institute and is subject to a yearly reevaluation by both schools for continuance. This agreement is dated September 20, 2007.

Baccalaureate students at ITT Technical Institute must complete a minimum of 92 credit hours of core technical courses, 56 credit hours of general education courses, and 32 credit hours of unspecified elective courses before a degree will be awarded. General education courses include courses in the humanities, composition, mathematics, the sciences and the social sciences. Unspecified general education courses must include at least one course in each of the following categories: the humanities, composition, mathematics and the social sciences. All credits must be 100-level or above to be considered for transfer into a Baccalaureate degree at ITT Technical Institute.

Transfer students interested in pursuing their bachelor's degree at ITT Technical Institute must inquire at the school and provide a copy of their transcript from Portland Community College and any/all other secondary educational institutions attended. Interested students will need to provide an official transcript(s) to the registrar to complete the application process.

By \_\_\_\_\_  
Wayne Matulich  
College Director  
ITT Technical Institute

By \_\_\_\_\_  
Taylor Hanna  
Department Chair, Computer Information Systems  
Portland Community College

By \_\_\_\_\_  
Robert Schaefer  
Dean of Academics  
ITT Technical Institute

By \_\_\_\_\_  
John McKee  
Division Dean, Sciences & Computer Technologies  
Portland Community College

### Technical Core Courses

Data Communication Systems Technology ITT Technical Institute Courses	Credits	Computer Information Systems Portland Community College Course Equivalents	Credits
IT103 Operating Systems	4	CIS120 Computer Concepts I	4
IT104 Introduction to Computer Programming	4	CIS122 Software Design	4
IT109 Microsoft Desktop Operating System	4	CIS121 Computer Concepts II	4
IT116 Intermediate Programming	4	Programming Elective	4
IT203 Database Development	4	CIS 275 Data Modeling & SQL Intro	4
IT220 Network Standards and Protocols	4	CIS179 Data Communication Concepts I	4
IT221 Microsoft Network Operating System I	4	CIS/CS140X Operating Systems	4
IT222 Microsoft Network Operating System II	4	CIS Elective	4
IT250 Linux Operating System	4	CIS Elective	4
IT302 Linux System Administrator	4	CIS Elective	4
IT320 WAN Technology and Application	4	CIS Elective	4
IT321 Network Technology and Service Integration	4	CIS Elective	4
IT330 Network Systems Management	4	CIS244 Structured Systems Analysis	4
IT331 Network Development Capstone Project	4	CIS Elective	4
Total	56	Total	56

### General Education Courses

Data Communication Systems Technology ITT Technical Institute Courses	Credits	Computer Information Systems Portland Community College Course Equivalents	Credits
GE117 Composition I+	4	Students must take at least one course in each category: **Humanities Course **Social Science Course **Science Course **Mathematics Course **Composition Course <b>= 24 credit minimum</b>	
GE127 College Mathematics I+	4		
GE184 Problem Solving+	4		
GE 192 College Mathematics II+	4		
GE 217 Composition II+	4		
GE 273 Microeconomics+	4		
GE 361 Writing and Critical Analysis+	4		
Total	28	Total	24

\*\* Social Science courses include history, economics, political science, geography, sociology, anthropology, research techniques, and general psychology, but exclude courses such as practical psychology, selling techniques or business behavior.

\*\*Humanities courses include courses in fields such as literature, philosophy, logic, art, music appreciation, rhetoric, a foreign language other than the student's native language, and speech. A writing course that is not used to fulfill a Composition requirement may also be considered a Humanities course. Courses not to be considered Humanities include Business English, spelling, letter writing, and word study.

\*\*Mathematics courses include mathematics theory and analysis, including algebra, trigonometry, geometry, calculus, and other advanced mathematics courses. Courses in basic computations or business mathematics do not qualify to be considered for transfer credit in Mathematics.

\*\*Science courses include biology, chemistry, physics, geology, environmental science, and astronomy.

\*\*Composition courses include composition, written communications and creative writing. Composition courses do not include Business English, spelling, letter writing, and word study.

### Unspecified Elective Courses

Computer Information Systems Portland Community College Course Equivalents	Credits
(Carry 16 credits from "unused/leftover" core courses at Portland Community College)	16
Business Elective	3
Business Elective	3
CIS Elective	4
CIS Elective	4
WR214/122 Bus. Comm./Eng Comp <i>if applicable</i> OR 2 more unspecified credits	4 (or 2)
Total	34 (or 32)