

Computer & Information Technology Degree  
**Networking Option**

**Associate Degree Requirements (64 cr. hrs.)**

FIRST SEMESTER					SECOND SEMESTER				
REQUIRED COURSES	SUB/EQUIV	CR	GR	SEM	REQUIRED COURSES	SUB/EQUIV	CR	GR	SEM
C&IT 141 - Internet Foun,Tech,& Dev	CIS 252	3			C&IT 155 - Intro to Obj-Oriented Prog	CIS 232 and 237	3		
C&IT 176 - Info Tech Architectures	CIS 106	3			C&IT 180 - Intro to Systems Dev	CIS 201	3		
MA 154 - Algebra & Trigonometry II	MAT 132	3			MA 223 - Intro Analysis I (Calculus I)	MAT 201 or 211	3		
ENGL 101 - English Comp I	ENG 111	3			ENGL 102 - English Comp II	ENG 112	3		
General Business Selective <sup>1</sup>		3			COM 114 - Fund of Speech Comm	COM 101	3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

THIRD SEMESTER					FOURTH SEMESTER				
REQUIRED COURSES	SUB/EQUIV	CR	GR	SEM	REQUIRED COURSES	SUB/EQUIV	CR	GR	SEM
C&IT 255 - Prog for the Internet	Take at PNC	3			C&IT 276 - Sys Soft & Networking	CIS 202	3		
C&IT 272 - Database Fundamentals	CIS 231	3			C&IT 280 - Sys Analy & Design Mth	CIS 203	3		
OLS 252 - Human Rel in Org	BUS 208	3			C&IT 295 - Object-Oriented Prog	CIS 116 and 236	3		
PHYS 220 - General Physics I	PHY 101	4			MGMT 200 - Introductory Accounting	ACC 101	3		
Economics Selective <sup>2</sup>		3			Statistics Selective <sup>4</sup>		3		
Speech Communication Selective <sup>3</sup>		3							
TOTAL CREDIT HOURS		19			TOTAL CREDIT HOURS		15		

**Bachelor Degree Requirements (125 cr. hrs.)**

FIFTH SEMESTER					SIXTH SEMESTER				
REQUIRED COURSES	SUB/EQUIV	CR	GR	SEM	REQUIRED COURSES	SUB/EQUIV	CR	GR	SEM
C&IT 304 - Operating Systems		3			C&IT 330 - LAN & Systems Admin		3		
C&IT 372 - Database Programming		3			Information Systems Selective <sup>6</sup>		3		
ECET 109 - Digital Fundamentals		3			ECET 159 - Digital Applications <sup>#</sup>		3		
PHYS 221 - General Physics II		4			Liberal Arts Selective <sup>7</sup>		3		
Professional Speaking Selective <sup>5</sup>		3			Professional Writing Selective <sup>8</sup>		3		
TOTAL CREDIT HOURS		16			TOTAL CREDIT HOURS		15		

SEVENTH SEMESTER					EIGHTH SEMESTER				
REQUIRED COURSES	SUB/EQUIV	CR	GR	SEM	REQUIRED COURSES	SUB/EQUIV	CR	GR	SEM
C&IT 343 - Adv Sys & Network Admin		3			C&IT 404 - Adv Network Topics		3		
C&IT 480 - Managing Info Tech Projs		3			C&IT 455 - Network Security		3		
Liberal Arts Selective <sup>7</sup>		3			Liberal Arts Selective <sup>7</sup>		3		
Economics Selective <sup>2</sup>		3			Speech Communications Selective <sup>3</sup>		3		
Interdisciplinary Selective <sup>9</sup>		3			Interdisciplinary Selective <sup>9</sup>		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

Note: a minimum grade of "C" is required in a prerequisite C&IT course before moving on to its postrequisite course(s).

Also, a minimum GPA of 2.00 calculated for all C&IT courses is required to graduate with any CIT degree.

Students may only repeat a C&IT course a maximum of two times, including withdrawals.

**(Course selectives are listed on the back of this sheet.)**

<sup>#</sup> Students following the Networking option, who wish to receive a Minor in ECET in addition to their CIT degree, can do so by taking two additional ECET courses. Refer to the ECET Department web site at <http://www.pnc.edu/te/ecet/ECETMinor.pdf>

**Selectives:** (Some may not be offered each semester. Ivy Tech substitutions are red and in parentheses.)

<sup>1</sup>GBG 127 (BUS 101), IET 104 (Note: before choosing this selective, review the prerequisites for the Interdisciplinary Selectives below.)

<sup>2</sup>ECON 210 (ECN 101), ECON 251 (ECN 202), ECON 252 (ECN 201) (Note: before choosing this selective, review the prerequisites for the Interdisciplinary Selectives below.)

<sup>3</sup>(COM 102), COM 314, COM 315, COM 320 (COM 202), COM 415, COM 491 (Business Communication Only)

<sup>4</sup>STAT 213 (MAT 135), STAT 225, STAT 301 (MAT 115) (Note: before choosing this selective, review the prerequisites for the Interdisciplinary Selectives below.)

<sup>5</sup>COM 315, COM 320, COM 325, COM 415

<sup>6</sup>C&IT 392 - Enterprise Data Management, C&IT 475 - Electronic Commerce and Business Implementation,  
C&IT 481 - Information Systems Management

<sup>7</sup>Select courses from these departments only: ANTH, A&D, CDFS, COM, ECON, ENGL, Modern Languages (beyond Level I), HIST, IDIS, MUS, PHIL, POL, PSY, SOC, SWRK, THTR

<sup>8</sup>ENGL 420, ENGL 421

<sup>9</sup>Students must choose one selective in two of the six Interdisciplinary Areas below. Neither a selective nor its substitute (*sub:*) can be used for more than one Interdisciplinary Area.

<i>Interdisciplinary Area</i>	<i>Interdisciplinary Selectives</i>	<i>Prerequisites</i>
Business Law	GBG 259 - Law and Society GBG 260 - Business Law OLS 368 - Personnel Law	None GBG 127 None
Finance	IET 250 - Fundamentals of Production Cost Analysis ( <i>sub:</i> IET 451) IET 451 - Monetary Analysis for Industrial Decisions ( <i>sub:</i> IET 250) MGMT 201 - Managerial Accounting	IET 104+MA 153 IET 104+MA 153 MGMT 200 or equivalent
Manufacturing	CIMT 243 - Automated Manufacturing I IET 204 - Techniques of Maintaining Quality ( <i>sub:</i> MET 451) IET 224 - Production Planning and Control IET 268 - Facilities Planning IET 352 - Operations Management MET 451 - Manufacturing Quality Control ( <i>sub:</i> IET 204)	IET 104 MA 154+(STAT 213 or STAT 301) IET 104+MA 154 IET 104 None MA 154+(STAT 213 or STAT 301)
Marketing	GBM 329 - Principles of Marketing MGMT 323 - Introduction to Marketing Analysis	GBG 127+MGMT 200+(ECON 251 or 252) None
Organiz Behavior & Human Res	COM 324 - Introduction to Organizational Communication OLS 375 - Training Methods OLS 376 - Human Resources Issues OLS 386 - Leadership for Organizational Change OLS 388 - Leadership through Teams PSY 372 - Introduction to Industrial/Organizational Psychology	COM 114 OLS 252 OLS 252 OLS 252+OLS 274 OLS 252+OLS 274 PSY 120
Quality Control	IET 204 - Techniques of Maintaining Quality ( <i>sub:</i> MET 451) IET 364 - Total Quality Management ( <i>sub:</i> OLS 484) MET 451 - Manufacturing Quality Control ( <i>sub:</i> IET 204) OLS 484 - Leadership Strategies for Quality & Productivity ( <i>sub:</i> IET 364)	MA 154+(STAT 213 or STAT 301) IET 104 MA 154+(STAT 213 or STAT 301) OLS 376 or Consent