PURDUE UNIVERSITY

Computer and Information Technology (CIT) **Network Engineering Concentration**
College of Technology – Effective Fall 2014

TCIT-BS
122 CREDITS FOR GRADUATION

"C-"or better required in all CNIT courses that are a prerequisite to CNIT course
Departmental/Program Major Courses (122 credits)
Computer and Information Technology Major Courses (45 credits)

_____(3)   CNIT 15501 Introduction to Software Development Concepts
_____(3)   CNIT 17600 Information Technology Architectures
_____(3)   CNIT 18000 Introduction to Systems Development (Gateway to CIT)
_____(3)   CNIT 24000 Data Communications and Networking
_____(3)   CNIT 24200 System Administration
_____(3)   CNIT 25501 Object-Oriented Programming Introduction
_____(3)   CNIT 27200 Database Fundamentals
_____(3)   CNIT 28000 Systems Analysis and Design Methods
_____(3)   CNIT 31500 Systems Programming
_____(3)   CNIT 34000 UNIX Administration
_____(3)   CNIT 34200 Advanced System and Network Administration
_____(3)   CNIT 34600 Wireless Local Area Networks
_____(3)   CNIT 48000 Managing Information Technology Projects
_____(6)   Information Systems Selectives (any other CNIT **or** CGT 30000 level **or** higher courses, EPCS (3 credits) approved by CIT faculty)

Major Cognate Requirements (6 credits)

_____(6)   CNIT 34500 Internetwork Design And Implementation **and** CNIT 45500 Enterprise Application Development: **(Required for NET concentration)**

Other Departmental /Program Course Requirements (71 credits)

_____(3)   ENGL 10600 English First Year Composition **or** ENGL 10800 Accelerated First-Year Composition *(satisfies Written Communication for core)*
_____(3)   COM 11400 Fundamentals of Speech Communication *(satisfies Oral Communication for core)*
_____(3)   TECH 12000 Design Thinking In Technology *(satisfies Information Literacy Selective for core)*
_____(3)   MA 16010 Applied Calculus I (*satisfies Quantitative Reasoning Selective* for core)
_____(3)   MA 16020 Applied Calculus II (*satisfies Quantitative Reasoning Selective* for core)
_____(3)   OLS 25200 Human Relations in Organizations
_____(3)   Communications Selective (COM 21000, COM 21200, COM 31400, COM 31500, COM 31800, COM 32000, COM 32400)
_____(3)   Economics Selective ([AGEC 21700 **or** ECON 21000], ECON 25100, ECON 25200)
_____(4)   PHYS 21800 **or** PHYS 22000 *(satisfies Science Selective for core)*
_____(4)   PHYS 21900 **or** PHYS 22100 *(satisfies Science Selective for core)*
_____(3)   Accounting Selective MGMT 20000 (Required for MGMT Minor), MGMT 20010
_____(3)   Statistics Selective (STAT 22500, STAT 30100, STAT 50100, STAT 51100)
_____(3)   Professional Speaking Selective (COM 31500, COM 32000, COM 32500, COM 41500)
_____(3)   Professional Writing Selective (ENGL 42000, ENGL 42100)
_____(3)   Global and Professional Issues Selective (CNIT 32000)
_____(8)   Interdisciplinary Selective *(see supplemental information)*
_____(3)   General Business Selective (IT 10400)
_____(3)   Interdisciplinary Selective (ECET 22400)
_____(4)   Interdisciplinary Selective (ECET 37400)
_____(3)   Humanities Selective *(satisfies Human Cultures Humanities for core). See approved list at:* **http://www.purdue.edu/provost/initiatives/curriculum/course.html**
_____(3)   Behavioral/Social Science Foundational Selective *(satisfies Human Culture Behavioral/Social Science for core). See approved list at:* **http://www.purdue.edu/provost/initiatives/curriculum/course.html**

University Core Requirements

Human Cultures Humanities	☐ **UCC Selective**	*Science, Technology & Society Selective*	☐ **TECH 12000**
Human Cultures Behavioral/Social Science	☐ **UCC Selective**	*Written Communication*	☐ **ENGL 10600/10800**
Information Literacy	☐ **TECH 12000**	*Oral Communication*	☐ **COM 11400**
Science Selective	☐ **PHYS 21800 or PHYS 22000**	*Quantitative Reasoning*	☐ **MA 16010**
Science Selective	☐ **PHYS 21900 or PHYS 22100**	*Quantitative Reasoning*	☐ **MA 16020**

The student is ultimately responsible for knowing and completing all degree requirements.
myPurduePlan is knowledge source for specific requirements and completion.

PURDUE UNIVERSITY

Phone Number_____   Name_____

Email Address_____   ID_____

FIRST SEMESTER	EQUIV	CR	GR	SEM	SECOND SEMESTER	EQUIV	CR	GR	SEM
CNIT 18000 (Intro to Systems Development) Prereq: PC Literacy		3			CNIT 15501 (Intro to Software Development Concepts) Prereq: PC Literacy		3		
ENGL 10600 or ENGL 10800* (First Year Composition or Accelerated First Year Composition)		3-4			CNIT 17600 (Info Tech Architectures)		3		
IT 10400 (Industrial Organization) Business Selective		3			COM 11400 (Fund of Speech Communication)*		3		
MA 16010 (Applied Calculus I)* Prereq: ALEKS Score of 75% or MA 15400 or MA 15800 with minimum grade of C-		3			MA 16020 (Applied Calculus II)* Prereq: MA 16010 with grade C- or better		3		
TECH 12000 (Design Thinking in Technology) * Prereq: COT Major		3			OLS 25200 (Human Relations in Organizations)		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

THIRD SEMESTER	EQUIV	CR	GR	SEM	FOURTH SEMESTER	EQUIV	CR	GR	SEM
CNIT 25501 (Object-Oriented Programming Introduction) Prereq: CNIT 15500 or 15501		3			CNIT 24200 (System Administration) Prereq: CNIT 17600 and Classification 3+		3		
CNIT 27200 (Database Fundamentals) Prereq: CNIT 15500 or 15501 & CNIT 18000		3			CNIT 28000 (Systems Analysis & Design Methods) Prereq: CNIT 18000 & CNIT 27200		3		
CNIT 24000 (Data Communications & Networking) Prereq: Sophomore Standing		3			ECET 22400 Electronic Systems Prereq: MA 15300, 22100 or 22300 or 16010		3		
Accounting Selective[3]		3			Statistics Selective[4]		3		
PHYS 21800 OR PHYS 22000*		4			PHYS 21900 OR PHYS 22100*		4		
TOTAL CREDIT HOURS		16			TOTAL CREDIT HOURS		16		

FIFTH SEMESTER	EQUIV	CR	GR	SEM	SIXTH SEMESTER	EQUIV	CR	GR	SEM
CNIT 34000 (UNIX Administration) Prereqs: CNIT 24200		3			CNIT 34200 (Advanced System and Network Admin) Prereqs: CNIT 34000		3		
CNIT 34500 (Internetwork Design & Implemen) Prereqs: CNIT 24000 & 24200 & Concurrent: ECET 37400		3			CNIT 34600 (Wireless Local Area Networks) Prereqs: CNIT 24000 & 24200		3		
ECET 37400 (Digital Communications) Prereqs: CNIT 24000, MA 16020 or 22400, PHYS 21900 OR 22100 AND ECET 22400		4			Professional Writing Selective[8]		3		
Professional Speaking Selective[5]		3			Interdisciplinary Selective[6]		3		
Economics Selective[2]		3			Global and Professional Issues Selective[9]		3		
TOTAL CREDIT HOURS		16			TOTAL CREDIT HOURS		15		

SEVENTH SEMESTER	EQUIV	CR	GR	SEM	EIGHTH SEMESTER	EQUIV	CR	GR	SEM
CNIT 45500 (Network Security)		3			CNIT 48000 (Managing Info Tech Projects) Prereq: CNIT 28000 & SR STANDING		3		
CNIT 31500 (Systems Programming) Prereq: CNIT 25500 or 25501		3			Information Systems Selective[7]		3		
Communications Selective[1]		3			Interdisciplinary Selective[6]		3		
Information Systems Selective[7]		3			Interdisciplinary Selective[6]		2-3		
Humanities Foundational Selective*[10]		3			Behavioral/Social Sciences Foundational Selective*[11]		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		14		

*Fulfills University Core   **122 Total**

1) Students must earn a C- or better in all CNIT courses that are a prerequisite to CNIT courses.

2) 122 semester credits listed above are required for the CIT Bachelor of Science degree with a NET concentration.

3) 2.0 Graduation GPA required for Bachelor of Science degree.

4) 2.0 Graduation GPA in all CNIT courses required for Bachelor of Science degree.

5) CNIT COURSES MAY BE TAKEN NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF or WN and I GRADES): STUDENTS NOT FULFILLING THIS POLICY MUST WITHDRAW FROM THE PROGRAM.

6) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, WN, I and IF).
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