PURDUE UNIVERSITY

Computer and Information Technology (CIT) **Systems Analysis and Design Concentration**
College of Technology – Effective Fall 2014

TCIT-BS
121 CREDITS FOR GRADUATION

"C-"or better required in all CNIT courses that are a prerequisite to CNIT course

Departmental/Program Major Courses (121 credits)

Computer and Information Technology Required Major Courses (43 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 24200 System Administration
- _____(3) CNIT 25501 Object-Oriented Programming Introduction
- _____(3) CNIT 27200 Database Fundamentals
- _____(3) CNIT 28000 Systems Analysis and Design Methods
- _____(4) CNIT 38000 Advanced Analysis & Design
- _____(3) CNIT 39200 Enterprise Data Management
- _____(3) CNIT 48000 Managing Information Technology Projects
- _____(3) Programming Selective (CNIT 31500 Systems Programming **or** CNIT 32500 Object-Oriented Application Development)
- _____(3) CGT 25600 Principles Of User Experience Design
- _____(6) Information Systems Selectives (Any CNIT **or** CGT 30000 level **or** higher courses, EPCS (3 credits) approved by CIT faculty)

Major Cognate Selectives (6 credits from the following selectives options)

- _____(6) CNIT 38301 Packaged Application Software Solutions **or** CNIT 40500 Software Development Methodologies, CNIT 49900 Architecture of IT Solutions

Other Departmental /Program Course Requirements (72 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) PHIL 15000 Principles of Logic
- _____(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)
- _____(3) Science Selective (*satisfies Science Selective for core*)
- _____(3) Science Lab Selective (*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)
- _____(15) Interdisciplinary Selective (*see supplemental information*)
- _____(3) General Business Selective (IT 10400)
- _____(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	☐	**UCC Selective**	*Quantitative Reasoning*	☐	**MA 16010**
Science Selective	☐	**UCC Selective**	*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

Department of Computer and Information Technology (CIT)
CIT-BS Systems Analysis and Design Concentration
Effective Fall 2014

Phone Number_____ Name_____

Email Address_____ ID_____

FIRST SEMESTER	SUB/EQUIV	CR	GR	SEM	SECOND SEMESTER	SUB/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)		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	SUB/EQUIV	CR	GR	SEM	FOURTH SEMESTER	SUB/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		
Communications Selective[1]		3			Economics Selective[2]		3		
PHIL 15000 (Principles of Logic)		3			Statistics Selective[5]		3		
Science Selective*[3]		3			Lab Science Selective*[6]		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

FIFTH SEMESTER	SUB/EQUIV	CR	GR	SEM	SIXTH SEMESTER	SUB/EQUIV	CR	GR	SEM
CNIT 38000 (Advanced Analysis & Design)		4			SAD Cognate Selective [7]		3		
Global and Professional Issues Selective*[12]		3			CNIT 39200 (Enterprise Data Mgmt)		3		
Programming Selective (CNIT 31500 or CNIT 32500) Prereq: CNIT 25500 or 25501		3			Professional Writing Selective[11]		3		
Professional Speaking Selective[8]		3			Interdisciplinary Selective[9]		3		
Accounting Selective[4]		3			CGT 25600 (Principles Of User Experience Design)		3		
TOTAL CREDIT HOURS		16			TOTAL CREDIT HOURS		15		

SEVENTH SEMESTER	SUB/EQUIV	CR	GR	SEM	EIGHTH SEMESTER	SUB/EQUIV	CR	GR	SEM
Interdisciplinary Selective[9]		3			CNIT 48000 (Managing Info Tech Projects) Prereq: CNIT 28000 & SR STANDING		3		
Interdisciplinary Selective[9]		3			Information Systems Selective[10]		3		
SAD Cognate Selective [7]		3			Interdisciplinary Selective[9]		3		
Information Systems Selective[10]		3			Interdisciplinary Selective[9]		3		
Humanities Foundational Selective*[14]		3			Behavioral/Social Sciences Foundational Selective*[15]		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

*Fulfills University Core   **121 Total**

1) Students must earn a C- or better in all CNIT courses that are a prerequisite to CNIT courses.
2) 120 semester credits listed above are required for the CIT Bachelor of Science degree with a SA&D 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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The student is ultimately responsible for knowing and completing all degree requirements.

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SEE REVERSE FOR CIT SUPPLEMENTAL INFORMATION