

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

Departmental/Program Major Courses (120 credits)

***BOLD** denotes Columbus location course offering

Computer and Information Technology Required Major Courses (51 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 27000 Cybersecurity Fundamentals
- ____(3) CNIT 27200 Database Fundamentals
- ____(3) CNIT 28000 Systems Analysis and Design Methods
- ____(3) CNIT 32000 Policy, Regulation, and Globalization in Information Technology
- ____(3) CNIT 37200 Database Programming or 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)
- ____(15) Information Technology Selectives (any other CNIT **or** CGT 30000 level **or** higher courses, EPCS (3 credits) approved by CIT faculty)

Other Departmental /Program Course Requirements (66 credits)

- ____(3-4) ENGL 10600 English First Year Composition **or** ENGL 10800 Accelerated First-Year Composition **or** ENGL 10100 English Composition I **or** SCLA 10100 Transformative Texts, Critical Thinking & Communication I **or** **ENG W1310** (IUPUI) (*satisfies Written Communication for core*)
- ____(3) COM 11400 Fund of Speech Communication **or** ***COMM R110** (IUPUI) **or** SCLA 10200 Transformative Texts, Critical Thinking & Communication II (*satisfies Oral Communication for core*)
- ____(3) TECH 12000 Design Thinking In Technology (*satisfies Information Literacy & Science, Technology, and Society Selectives 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) TLI 11200 Foundations of Organizational Leadership
- ____(3) Communications Selective (COM 21000, COM 21200, COM 30300, COM 31400, COM 31500, COM 31800, **COM 32000**, COM 32400)
- ____(3) Economics Selective ([AGEC 21700 **or** ECON 21000], ECON 25100, ECON 25200, **ECON E201** [IU], **ECON 202** [IU])
- ____(3) Science Selective (*satisfies Science Selective for core*)
- ____(3) Lab Science Selective (*satisfies Science Selective for core*)
- ____(3) Accounting Selective **MGMT 20000** (Required for MGMT Minor), MGMT 20010 **or** ***BUS A201**(IUPUI)
- ____(3) Statistics Selective (STAT 22500, **STAT 30100**, STAT 50100, STAT 51100)
- ____(3) Professional Speaking Selective (COM 31500, COM 32000, COM 32500, COM 41500, ***COMM R321** ***COMM C322**, ***COMM C325**, ***COMM C380** (IUPUI))
- ____(3) Professional Writing Selective (ENGL 42000, **ENGL 42100**, ***ENG W131**)
- ____(15) Interdisciplinary Selective (*see supplemental information*)
- ____(3) General Business Selective (**TLI 15200**, **TLI 11100**, BUS W100 [IU])
- ____(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>
- ____(0) IT Professional Experience Requirement
- ____(0) Globalization Requirement

Free Elective (3 credits) (*Any non-remedial course: see supplemental information*)

- ____(3) Any non-remedial course **See <https://polytechnic.purdue.edu/sites/default/files/nocreditcourses-2016.pdf>**

University Core Requirements

Human Cultures Humanities	<input type="checkbox"/> <u>UCC Selective</u>	Science, Technology & Society Selective	<input type="checkbox"/> <u>TECH 12000</u>
Human Cultures Behavioral/Social Science	<input type="checkbox"/> <u>UCC Selective</u>	Written Communication	<input type="checkbox"/> <u>ENGL 10100/10600/10800</u>
Information Literacy	<input type="checkbox"/> <u>TECH 12000</u>	Oral Communication	<input type="checkbox"/> <u>COM 11400/SCLA 10200</u>
Science Selective	<input type="checkbox"/> <u>UCC Selective</u>	Quantitative Reasoning	<input type="checkbox"/> <u>MA 16010</u>
Science Selective	<input type="checkbox"/> <u>UCC Selective</u>	Quantitative Reasoning	<input type="checkbox"/> <u>MA 16020</u>

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

Phone Number _____

Name _____

Email Address _____

ID _____

FIRST SEMESTER	SUB/EQ	CR	GR	SEM	SECOND SEMESTER	SUB/EQ	CR	GR	SEM
CNIT 18000 (Intro to Systems Development)		3			CNIT 15501 (Intro to Software Development Concepts)		3		
Business Selective ⁹		3			MA 16010 (Applied Calculus I)* Pre-req: ALEKS Score of 75% or MA 15400 or MA 15800 with minimum grade of C-		3		
ENG W1310 (IUPUC) - Composition Selective* ¹		3			COM 11400 - Oral Communications Selective* ²		3		
CNIT 17600 (Info Tech Architectures)		3			Behavioral/Social Sciences Foundational Selective* ¹¹		3		
TECH 12000 (Design Thinking in Technology) *Pre-req: Polytechnic Major		3			TLI 11200 (Foundations of Org Leadership)		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

THIRD SEMESTER	SUB/EQ	CR	GR	SEM	FOURTH SEMESTER	SUB/EQ	CR	GR	SEM
CNIT 27200 (Database Fundamentals) Pre-req: CNIT 15500 or 15501 & CNIT 18000 & Co-Rec CNIT 28000		3			CNIT 24200 (System Administration) Pre-req: CNIT 17600 and Classification 3+		3		
CNIT 25501 (Object-Oriented Programming-Introduction) Prereq: CNIT 15500 or 15501		3			CNIT 28000 (Sys Analysis & Design Methods) Pre-req: CNIT 18000 & Co-Rec CNIT 27200		3		
COM 32000 - Communications Selective ⁵		3			CNIT 27000 (Cybersecurity Fundamentals) Pre-req: CNIT 15501 & 17600		3		
Economics Selective ⁴		3			Statistics Selective ⁷		3		
MA 16020 (Applied Calculus II)* Pre-req: MA 16010 with minimum grade of C-		3			Free Elective ¹⁶		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

FIFTH SEMESTER	SUB/EQ	CR	GR	SEM	SIXTH SEMESTER	SUB/EQ	CR	GR	SEM
Programming Selective (CNIT 31500 or CNIT 32500) Pre-req: CNIT 25500 or 25501		3			CNIT 37200 (Database Programming) Pre-req: CNIT 27200 or CNIT 39200 Pre-req:CNIT 27200 Enterprise Data Management		3		
Information Technology Selective ¹²		3			CNIT 32000 (Policy, Regulation, and Globalization in IT) Pre-req: TECH 12000		3		
Accounting Selective ³		3			Information Technology Selective ¹²		3		
Professional Speaking Selective ⁶		3			ENGL 42100 - Professional Writing Selective ⁸		3		
Interdisciplinary Selective ¹⁵		3			Interdisciplinary Selective ¹⁵		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

SEVENTH SEMESTER	SUB/EQ	CR	GR	SEM	EIGHTH SEMESTER	SUB/EQ	CR	GR	SEM
Lab Science Selective* ¹⁴		3			CNIT 48000 (Managing Info Tech Projects) Pre-req: CNIT 28000 & SR STANDING		3		
Interdisciplinary Selective ¹⁵		3			Information Technology Selective ¹²		3		
Information Technology Selective ¹²		3			Interdisciplinary Selective ¹⁵		3		
Information Technology Selective ¹²		3			Interdisciplinary Selective ¹⁵		3		
Humanities Foundational Selective* ¹⁰		3			Science Selective* ¹³		3		
TOTAL CREDIT HOURS		15			TOTAL CREDIT HOURS		15		

CO-CURRICULAR REQUIREMENTS	SUB/EQ	CR	GR	SEM		SUB/EQ	CR	GR	SEM
Professional IT Experience Requirement ¹⁷		0			Globalization Requirement ¹⁸		0		

*Fulfills University Core

120 Total

- 1) Students must earn a C- or better in all CNIT courses that are a prerequisite to another CNIT course
- 2) 120 semester credits listed above are required for the CIT Bachelor of Science degree
- 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) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, WN, I, and IF)
- 6) Courses in BOLD are essential for the CIT degree critical path to graduation. 32 credits of upper division courses (30000 level or higher) must be taken at the Purdue University location conferring the degree.

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

CIT SUPPLEMENTAL INFORMATION for COMPUTER & INFORMATION TECHNOLOGY MAJOR

All Prerequisites Must Be Met

Bold indicates courses offered at Columbus location.

*Indicates IUPUC course offering for Columbus location only.

See Student Services Coordinator for course availability.

¹COMPOSITION SELECTIVE

ENGL 10100 English Composition I

ENGL 10600 First Year Composition

ENGL 10800 Accelerated First Year Composition

SCLA 10100 Transformative Texts, Critical Thinking & Communication I

***ENG W1310 Reading, Writing, & Inquiry I (IU Statewide Locations)**

³ACCOUNTING SELECTIVE

MGMT 20000 Introductory Accounting (Required for MGMT Minor)

MGMT 20010 Business Accounting

8BUS A201 Introduction to Financial Accounting (IU Statewide Locations)

⁵COMMUNICATIONS SELECTIVE

COM 21000 Debating Public Issues

COM 21200 Approaches to the Study of Interpersonal Communication

COM 30300 Intercultural Communications

COM 31400 Advanced Presentational Speaking

COM 31500 Speech Communication of Technical Information

COM 31800 Principles of Persuasion

COM 32000 Small Group Communication

COM 32400 Introduction to Organizational Communication

⁶PROFESSIONAL SPEAKING SELECTIVE

COM 31500 Speech Communication of Technical Information

COM 32000 Small Group Communication

COM 32500 Interviewing: Principles and Practice

COM 41500 Discussion of Technical Problems

***COMM R321 Persuasion**

***COMM C322 Advanced Interpersonal Communication**

***COMM C325 Interviewing Principles & Practice**

***COMM C380 Organizational Communication**

²ORAL COMMUNICATIONS SELECTIVE

COM 11400 Fundamentals of Speech Communication

SCLA 10200 Transformative Texts, Critical Thinking & Communication II

***COMM R110 Fundamentals of Speech Communication (IU)**

⁴ECONOMICS SELECTIVE

AGEC 21700 Economics or ECON 21000 Principles of Economics

ECON 25100 Microeconomics

ECON 25200 Macroeconomics

***ECON E201 Introduction to Microeconomics (IU Statewide Locations)**

***ECON E202 Introduction to Macroeconomics (IU Statewide Locations)**

⁷STATISTICS SELECTIVE

STAT 22500 Introduction to Probability Models

STAT 30100 Elementary Statistical Methods

STAT 50100 Experimental Statistics I

STAT 51100 Statistical Methods

⁸PROFESSIONAL WRITING SELECTIVE

ENGL 42000 Business Writing

ENGL 42100 Technical Writing

***ENG W2310 Professional Writing Skills**

⁹BUSINESS SELECTIVE

TLI 15200 Business Principles for Organizational Leadership

TLI 11100 Introduction to Manufacturing and Supply Chain Systems

BUS W100 Principles of Business Administration (IU Statewide Locations)

¹⁰HUMANITIES FOUNDATIONAL SELECTIVE: see http://catalog.purdue.edu/preview_program.php?catoid=7&poiid=6694 (Human Cultures: Humanities (H))

¹¹BEHAVIORAL/SOCIAL SCIENCES FOUNDATIONAL SELECTIVE: see http://catalog.purdue.edu/preview_program.php?catoid=7&poiid=6694 (Human Cultures: Behavioral/Social Sciences (BSS))

¹²INFORMATION TECHNOLOGY SELECTIVE (15 credits)

Any non-required 30000 level or higher CNIT course or EPICS (EPCS): participation in EPICS requires CIT faculty approval; CGT courses 30000 level or higher

At least nine credits must be CNIT courses

¹³SCIENCE SELECTIVE See approved list at: http://catalog.purdue.edu/preview_program.php?catoid=7&poiid=6694 (Science (S))

See *Lab Science Selective*.

¹⁴LAB SCIENCE SELECTIVE (must take at least 3 credits of Science Selective with a Lab Component)

See http://catalog.purdue.edu/preview_program.php?catoid=7&poiid=6694 (Science (S)). *Verify the course has a lab component in myPurdue Schedule of Classes.*

***AST A105 Stars and Galaxies**

ASTR 26300 Descriptive Astronomy: The Solar System

ASTR 26400 Descriptive Astronomy: Stars and Galaxies

***ANTH A103 Human Origins & Prehistory**

BIOL 11000 Fundamentals of Biology I

BIOL 11100 Fundamentals of Biology II

BIOL 13500 First year biology lab

BIOL 14501 First year biol lab with neuro res project

BIOL 14600 Introduction to Biology

BIOL 20300 Human Anatomy and Physiology

BIOL 20400 Human Anatomy and Physiology

***BIOL K101 Concepts of Biology I**

***BIOL K103 Concepts of Biology II**

***BIOL N108 Plants, Animals, and Environments**

BTNY 11000 Intro to Plant Science

CHM 11100 General Chemistry

***CHEM C101 + C121 Elementary Chemistry I**

***CHEM C105 + C125 Principles of Chemistry I**

CHM 11200 General Chemistry

CHM 11500 General Chemistry

CHM 11600 General Chemistry I

CHM 12500 Introduction to Chemistry

CHM 12600 Introduction to Chemistry II

CHM 12901 General Chemistry with Biology focus

CHM 13600 General Chemistry Honors

CHM 20000 Fundamentals of Chemistry

EAPS 10200 Earth Science for Elementary Education

EAPS 10900 The Dynamic Earth

EAPS 11100 Physical Geology

EAPS 11200 Earth Through Time

EAPS 24300 Earth Materials I

EAPS 24400 Earth Materials II

***GEOL G109 Fundamentals of Earth History**

***GEOL G110 +G120 Physical Geology**

ENTM 22810 Forensic Investigation

ENTM 22820 Forensic Analysis

HORT 10100 Fundamentals of Horticulture

PHYS 17200 Modern Mechanics

PHYS 21500 Physics for Elementary Education

PHYS 21800 General Physics I

PHYS 21900 General Physics II

PHYS 22000 General Physics

PHYS 22100 General Physics

***PHYS 25100 Heat, Electricity, & Optics**

PHYS 27200 Electric and Magnetic Interactions

SLHS 30600 Introduction to Phonetics

¹⁵**Interdisciplinary Selectives (15 credits)**

Any University recognized non-computing minor with at least 15 credits or a department approved set of related courses in which Information Technology can be applied.

See <http://catalog.purdue.edu/content.php?catoid=7&navoid=6137> for a complete listing of minors.

¹⁶**FREE ELECTIVE:** Any non-remedial course. See supplemental information.

¹⁷**PROFESSIONAL IT EXPERIENCE REQUIREMENT (Complete one of the following options)**

- Professional IT internship (six week minimum duration)
- 240 hours of IT employment
- 240 hours of documented volunteer IT work
- Service Learning Course (EPCS, CNIT 39000, or Equivalent) with responsibility for an IT component (3 credit hours minimum)

*A three page reflection paper on what you learned from your experience is required for all options – submit to CIT-Prof-IT@purdue.edu

¹⁸**GLOBALIZATION REQUIREMENT (Complete one of the following options)**

- Complete any university-sponsored study abroad program lasting at least 7 days*
- Complete an internship or approved international research project that involves at least 7 days of international travel*
- Provide documentation of having lived/traveled outside home country for at least 15 days after a student's 12th birthday*

* **The above options require a three page reflection paper on what you learned from your experience – submit to CIT-Global@purdue.edu**

- Earn credit in Level I and II courses (6 credit hours) in any one foreign language
- Earn six credit hours in foreign culture study:

AGEC 34000 International Economic Development

AGR 20100 Communication Across Cultures

ANTH 20500 Human Cultural Diversity

ANTH 21200 Culture, Food and Health

ANTH 23000 Gender Across Cultures

ANTH 34000 Global Perspectives on Health

ANTH 37900 Native American Culture

ARAB 28000 Arabic Culture

CLCS 18100 Classical World Civilizations

COM 30400 Intercultural Communications

HIST 24300 South Asian History and Civilizations

HIST 24500: Introduction to the Middle East History and Culture

HIST 250 US Relations with the Middle East & N. Africa

HIST 30000 Eve of Destruction: Global Crises and World Organization in the 20th Century

HIST 33400 Sci & Tech in West Civilization II

HIST 34000: Modern China

HIST 34400: History of Modern Japan

HTM 37200: Global Tourism Geography

POL 23100 Intro to US Foreign Policy

POL 23500 Rich and Poor Nations

POL 23700 Modern Weapons & International Relations

POL 32700 Green Global Politics

POL 34500 West European Democracies in the Post-Industrial Era

SOC 33800 Global Social Movements

SOC 33900 Introduction to the Sociology of Developing Nations

TECH 33000 Technology and the Global Society

WGSS 38000: Gender and Multiculturalism