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

**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 Humanities Humanities for core*). See approved list at: [http://www.purdue.edu/provost/initiatives/curriculum/course.html](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](http://www.purdue.edu/provost/initiatives/curriculum/course.html)

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**University Core Requirements**

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<th>Human Cultures Humanities</th>
<th>UCC Selective</th>
<th>Science, Technology &amp; Society Selective</th>
<th>TECH 12000</th>
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<td>Human Cultures Behavioral/Social Science</td>
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The student is ultimately responsible for knowing and completing all degree requirements.

*myPurduePlan* is knowledge source for specific requirements and completion

Effective Fall 2014

Revised 05/09/14
# Purdue University

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

### Phone Number

### Email Address

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<th>FIRST SEMESTER</th>
<th>SUB/EQUIV</th>
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**TOTAL CREDIT HOURS**

### THIRD SEMESTER

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**TOTAL CREDIT HOURS**

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**TOTAL CREDIT HOURS**

### SEVENTH SEMESTER

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</table>

**TOTAL CREDIT HOURS**

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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 WIN 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, WIN, I and IF).

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

**SEE REVERSE FOR CIT SUPPLEMENTAL INFORMATION**

Updated 05/09/14
CIT SUPPLEMENTAL INFORMATION for SYSTEMS ANALYSIS AND DESIGN CONCENTRATION
All prerequisites Must Be Met

1. COMMUNICATIONS SELECTIVE
   COM 21000 Debating Public Issues
   COM 21200 Approaches to the Study of Interpersonal Communication
   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

2. ECONOMICS SELECTIVE
   AEIC 21700 Economics or ECON 21000 Principles of Economics, ECON 25100 Microeconomics, ECON 25200 Macroeconomics

3. SCIENCE SELECTIVE &
   4. LAB SCIENCE SELECTIVE (must take at least 3 credits of Science Selective with a Lab Component)
      See approved list at: http://www.purdue.edu/provost/initiatives/curriculum/course.html and check schedule of classes to ensure the course is being offered with a lab component.
      The following courses are typically offered with a lab component:
      - BIOL 11000 Fundamentals of Biology
      - BIOL 11100 Fundamentals of Biology II*
      - BIOL 13500 First Year Biology Laboratory
      - BIOL 14501 First Year Biology Laboratory with Neuro Research Project
      - BIOL 14502 First Year Biology Laboratory with Micro Research Project
      - BIOL 14600 Introduction to Biology*
      - BIOL 20300 Human Anatomy and Physiology*
      - BIOL 20400 Human Anatomy and Physiology*
      - BIOL 20500 Biology for Elementary Teachers*
      - BIOL 20600 Biology for Elementary Teachers*
      - BTNY 11000 Introduction to Plant Science*
      - CHM 1110U General Chemistry*
      - CHM 11200 General Chemistry*
      - CHM 11500 General Chemistry*
      - CHM 11600 General Chemistry*
      - CHM 12500 Introduction to Chemistry I*
      - CHM 12600 Introduction to Chemistry II*
      - CHM 13600 General Chemistry Honors*
      - CHM 20000 Fundamentals of Chemistry*
      - CHM 12901 General Chemistry with Biological Focus*
      - EAPS 10200 Earth Science for Elementary Education*
      - EAPS 10900 The Dynamic Earth*
      - HURI 1100U Fundamentals of Horticulture*
      - PHYS 17200 Modern Mechanics*
      - PHYS 21800 General Physics*
      - PHYS 21900 General Physics II*
      - PHYS 22000 General Physics*
      - PHYS 22100 General Physics*
      - PHYS 27200 Electric and Magnetic Interactions*

4. ACCOUNTING SELECTIVE
   MGMT 20000 Introductory Accounting (Required for MGMT Minor)
   MGMT 2010 Business Accounting

5. STATISTICS SELECTIVE
   STAT 22500 Introduction to Probability Models
   STAT 30100 Elementary Statistical Methods
   STAT 50100 Experimental Statistics I
   STAT 51100 Statistical Methods

7. CIT-SAD COGNATE SELECTIVE OPTIONS (6 CREDITS):
   CNIT 38301 Packaged Application Software Solutions
   CNIT 40500 Software Development Methodologies
   CNIT 49900 Architecture of IT Solutions

8. Professional 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

9. Interdisciplinary Selectives (15 credits)
   Any University recognized minor with at least 15 credits will fulfill this requirement.
   http://www.purdue.edu/advisors/courses_majors/minors.html

   - COM 32400 Introduction to Organizational Communication
   - ECET 22400 Electronic Systems
   - ECET 37400 Digital Telecommunications
   - ENTR 20000 Introduction to Entrepreneurship and Innovation
   - ENTR 31000 Marketing and Management for New Ventures
   - IET 45100 Monetary Analysis for Industrial Decisions
   - IT 34200 Introduction to Statistical Quality
   - IT 34500 Automatic Identification and Data Capture
   - IT 45000 Production Cost Analysis
   - MET 45100 Manufacturing Quality Control
   - MET 45100 Manufacturing Quality Control
   - MFET 24300 Automated Manufacturing I
   - MFET 4000 Computer Integrated Manufacturing
   - MFET 45100 Manufacturing Quality Control
   - MGMT 20100 Management Accounting I
   - MGMT 30400 Introduction to Financial Management
   - MGMT 32700 Introduction to Market Analysis
   - MGMT 44301 Management of Human Resources
   - MGMT 45500 Corporate Training Methods
   - OLS 37600 Human Resource Issues
   - OLS 38600 Leadership for Organizational Change
   - OLS 47700 Conflict Management
   - OLS 48400 Leadership Strategies for Quality and Productivity
   - PSY 27200 Introduction to Industrial Organizational Psychology

16. INFORMATION SYSTEMS SELECTIVE (6 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

17. PROFESSIONAL WRITING SELECTIVE
   ENGL 42000 Business Writing or ENGL 42100 Technical Writing

18. GLOBAL AND PROFESSIONAL ISSUES SELECTIVE
   CNIT 32000 Policy, Regulation, and Globalization in IT

19. HUMANITIES FOUNDATIONAL SELECTIVE: see http://www.purdue.edu/provost/initiatives/curriculum/course.html

20. BEHAVIORAL/SOCIAL SCIENCES FOUNDATIONAL SELECTIVE: see http://www.purdue.edu/provost/initiatives/curriculum/course.html

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