Computer & Information Technology (CIT)

CODO Presentation
The Department of Computer and Information Technology educates professional practitioners and managers of information technology, accelerates information technology transfer to business and industry, and develops innovations in the application of emerging information technology through learning, engagement, and discovery by its faculty and students.

Computer & Information Technology offers a B.S. in Computer & Information Technology with the following major options:

- Computer & Information Technology (CNIT)
- Cybersecurity (CSEC)
- Network Engineering Technology (NENT)
- Systems Analysis & Design (SAAD)
Successful CIT Students are:

- Inquisitive
- Self motivated
- Organized
  - Capable of planning and meeting deadlines
- Problem solvers
- Willing to work hard
  - Significant out of class time is required for homework, projects, and laboratory activities
Computer and information technology courses provide students with strong technical skills, a thorough understanding of business needs, and the ability to communicate effectively with customers, peers, and industry leaders.

- Most flexible major
- Requires a non-computing minor (15 credits)
  - 15 discipline specific credits from your current major may be considered in lieu of a minor
- Requires two science courses of which at least one must have a lab (both science courses may have a lab)
- Includes one Free Elective

http://catalog.purdue.edu/preview_program.php?catoid=8&poid=9237
CSEC (Cybersecurity)
Keeping data secure is an important goal of any good IT system. Once a system has been breached, personal, financial or classified data becomes vulnerable to exploitation. When you major in cybersecurity at Purdue University, you will learn the skills to create and maintain system integrity as well as ways to track down hackers who aim to breach that security.

• Courses in Cryptography, Cyber Forensics, Incident Response Management, Electronic Systems, & Criminology
• Prescribed Interdisciplinary Selectives
• Requires two science courses of which at least one must have a lab (both science courses may have a lab)
• Cybersecurity selective options: Homeland Security, Advanced coding security, & Malware forensics
• The most prescriptive/least flexible major

http://catalog.purdue.edu/preview_program.php?catoid=8&poid=10105
The world operates on the back of computers – networks of computers. Whether it is wired or wireless, information must be able to travel the network securely, efficiently and accurately. The network engineering technology major provides the necessary background about hardware and software infrastructure to solve networking problems.

- Courses in UNIX Administration, Electronic Systems, & Advanced Networking
- Requires two semesters of PHYS to complete science requirement
- Mostly prescribed courses on the plan (fewer Interdisciplinary Selectives)

http://catalog.purdue.edu/preview_program.php?catoid=8&poid=10140
SAaD (Systems Analysis and Design)

Study how organizations use computer systems and procedures and then design information systems solutions to help them operate more efficiently and effectively. You will combine business processes and practices with programming, applications and databases. In the workforce, systems professionals work in a variety of industries and with people from a variety of professions.

- Opportunity to customize plan by adding non-computing minor (15 credits)
- Requires two science courses of which at least one must have a lab (both science courses may have a lab)

http://catalog.purdue.edu/preview_program.php?catoid=8&poid=10139
Interdisciplinary Selectives

6-15 CREDIT HOURS (DEPENDING ON MAJOR)

May be fulfilled by using one of the following:

• any University recognized non-computing minor
• approved set of related courses in which IT can be applied

**TIP:**
Research the minor requirements for your current major & consider using it to fulfill your Interdisciplinary Selectives.
Partial List of Minors for CIT Students

http://catalog.purdue.edu/content.php?catoid=8&navoid=6137

<table>
<thead>
<tr>
<th>Minor</th>
<th>Credit</th>
<th>College</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areospace Studies Minor</td>
<td>14</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Biometrics Minor</td>
<td>15</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Biotechnology Minor</td>
<td>22</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Building Construction Management Minor</td>
<td>16</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Construction Graphics Minor</td>
<td>12</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Disaster Restoration, Demolition, and Reconstruction Management Minor</td>
<td>11</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Electrical Engineering Technology Minor</td>
<td>15</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Military Science and Leadership Minor</td>
<td>15</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Naval Science Minor</td>
<td>13</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Organizational Leadership Minor</td>
<td>12</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Product Lifecycle Management Minor</td>
<td>9</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Supply Chain Management Technology Minor</td>
<td>15</td>
<td>Polytechnic Institute</td>
</tr>
<tr>
<td>Unmanned Aerial Systems Minor</td>
<td>15</td>
<td>Polytechnic Institute</td>
</tr>
</tbody>
</table>

Computing related minors (such as CS, ECE, CGT, et. al.) are not available as interdisciplinary selectives.
CIT GLOBALIZATION REQUIREMENT

EFFECTIVE FALL 2016

MUST BE COMPLETED PRIOR TO GRADUATION (no additional credits awarded).

May be fulfilled by one of the following:

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

EFFECTIVE FALL 2016

MUST BE COMPLETED PRIOR TO GRADUATION (no additional credits awarded).
May be fulfilled by one of the following:

- 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)
myPurduePlan “What-If” Worksheet

HOW LONG WILL IT TAKE ME TO GRADUATE IF I SWITCH MAJORS?

Catalog Term Fall 2015 and after

A video tutorial is available at: https://mediaspace.itap.purdue.edu/media/mppWhatIf/1_znjslcot
myPurduePlan “What-If” Worksheet

HOW LONG WILL IT TAKE ME TO GRADUATE IF I SWITCH MAJORS?

Catalog Term Prior to Fall 2015

Select your primary area of study

Catalog Term: Spring 2014
Level: Undergraduate
Degree: Comp Info Tech-BS
College: Polytechnic Institute

Major: (pick a Major)
Concentration: (pick a Concentration)
Minor: (pick a Minor)

Select your additional areas of study

Major: (pick a Major)
Concentration: (pick a Concentration)
Minor: (pick a Minor)

Choose Your Future Classes

Enter a course and click Add Course

Subject
Number
Add Course

Courses you are considering
Remove Course

A video tutorial is available at:
https://mediaspace.itap.purdue.edu/media/mppWhatIf/1_znjslcot
Average Starting Salaries*

2011-2012: $57,042
2012-2013: $59,890
2013-2014: $61,493
2014-2015: $62,522
2016-2017- $61,842**

Job Placement Rates

Graduates with jobs or in graduate school within 6 months
93%

Percentage Employed in Indiana
25%

Total Number of 2016-2017 Graduates
111

*Self reported
**Data will be complete November 2017
Job Titles:
• Application developer
• Business analyst
• Data analyst
• Database administrator
• IT Consultant
• Network administrator
• Network consulting engineer
• Security specialist
• Software engineer
• Systems Analyst

Some (not all) Employers:
• Apple
• CIA
• Cisco
• Cummins
• Deloitte
• DoD
• Eli Lilly
• FBI
• Genesys
• Intel
• Google
• John Deere
• Microsoft
• NSA
• Salesforce
• State of Indiana
• USAA
• US Secret Service
Job Placement Resources & CIT Student Orgs

Student Employment (Federal Work Study and Student Employment Opportunities)
http://www.purdue.edu/dfa/studentjobs.php

Purdue Center for Career Opportunities: https://www.cco.purdue.edu
CIT Career Fair
Typically held in early September

Purdue Polytechnic Career Fair
Typically held in February

Student Organizations

CIT Student Council
https://www.citstudentcouncil.org
Cyber Forensics Club
https://www.boilerlink.purdue.edu/organization/pcf
Association for Information Technology Professionals (AITP)
http://aitp.tech.purdue.edu
Women in Technology
https://boilerlink.purdue.edu/organization/womenintechnology
Association for Computing Machinery-Women (ACM-W) Purdue Chapter
https://boilerlink.purdue.edu/organization/acm-w
Minority Technology Association (MTA)
https://boilerlink.purdue.edu/organization/minoritytechnologyassociation
CODO Requirements

CODO students are considered on a semester-by-semester basis.

Students on academic probation may not CODO into the CIT program.

There are two levels that students can qualify for CODO application:

• Application Requirements Level I - 3.25 cumulative GPA and completion of all courses listed below with a C- or above will automatically be admitted to CIT.

• Application Requirements Level II - 3.0 cumulative GPA with completion of all courses listed below with a C- or above will be considered for admission on space available basis.
  o ENGL 10600 (or ENGL 10100; ENGL 10300; ENGL 10800) or COM 11400 or ENGL 11000
  o Calculus I (MA 16010 or 22300/16100/16500)
  o CNIT 18000 or CNIT 17600

• GPA calculators are available in myPurduePlan or Krannert http://www.krannert.purdue.edu/undergraduate/current-students/gpa.php
To CODO into CIT, a student must do the following:

- Complete this on-line CODO tutorial
  - Pass the associated quiz
- Come to CODO walk-in office hours with:
  - Print-out from CODO quiz
  - Signed copy of CIT policies and guidelines form
  - MyPurduePlan “What-If” report
    - Instructional Video on how to do a “What-If”
    - [https://mediaspace.itap.purdue.edu/media/mppWhatIf/1_znjslcot](https://mediaspace.itap.purdue.edu/media/mppWhatIf/1_znjslcot)
  - Unofficial transcript
    - available on myPurdue
  - CODO papers
    - Two copies signed by you and your current advisor
      - Available from your current advisor

Students enrolled in appropriate courses and who meet the minimum GPA at the end of the semester will be considered on a space-available basis.

If accepted to CIT, attendance at a group registration meeting for the following semester is required. You will be notified of the meeting time and location via an e-mail from the CIT-Announcements list.
Policies and Guidelines Form

Available Here

✓ Complete Academic Policies and Guidelines form provided

✓ Print and sign your name

✓ Include your cell/local phone number

✓ Submit the white copy to advisors
CODO Forms

- Submit 2 copies of your completed CODO forms
- With required signatures
- Due prior to the end of classes each semester
- Available from your current advisor

Purdue Pete P

REQUEST FOR UNDERGRADUATE CHANGE OF CURRICULA

1. I am a student in the College/School of __________ majoring in __________.
   I am interested in moving to __________ (College/School) and __________ (Major).

2. Discuss your plans with your current academic advisor. If, after discussing your plans, you still want to make a change, have the dean, head, or designee affix his/her signature below.

Signature of Dean, Head, or Designee Date Printed Legal Name

This student will have exceeded their available time in our program and is not eligible to return should a conditional CODO be denied.
Helpful Links

CIT Website
https://polytechnic.purdue.edu/departments/computer-and-information-technology

CIT Advising
https://polytechnic.purdue.edu/degrees/computer-and-information-technology/advising/registration

• Pre-Requisite Lists
• Independent Study Forms (may earn up to 6 credit hours)
• Registration Meeting Presentations
• Critical Path Documents
• Additional Resources
What’s next?

• Once grades are released at the end of the semester, they will be checked to ensure you have met CODO GPA and course requirements

• If accepted for CODO and all paperwork has been submitted, you will be notified by e-mail and added to the CIT-Announcements e-mail listserv

• Requests for 200 level and above courses will be considered during open registration periods

• Review Registration Meeting Presentation for updates on the CIT Advising webpage:
  https://polytechnic.purdue.edu/degrees/computer-and-information-technology/advising/registration
Follow us on social media!
@PurdueCIT