Computer & Information Technology (CIT)

CODO Presentation

PURDUE
POLYTECHNIC

Computer & Information Technology (CIT)

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)

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CHARACTERISTICS OF SUCCESSFUL CIT STUDENTS

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

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Computer & Information Technology (General) Major - CNIT

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

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Cybersecurity Major - CSEC

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

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Network Engineering Technology Major - NENT

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

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Systems Analysis & Design Major - SAAD

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)
- Includes Packaged App Software Solutions, Adv. Systems Design & Integration, and Software Development Methodologies as selective options

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

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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

Purdue University - College of Science

MINOR IN MATHEMATICS (MATH)

PRE-REQUISITE COURSES FOR MATH MINOR

To complete the required courses for the Mathematics minor, you will need to first complete the following pre-requisite courses [by completing the course or establishing credit]. These courses are not part of the Mathematics minor.

_____	MA 16100 or MA 16500	Plane Analytic Geometry and Calculus I	4-5 credits
_____	MA 16200 or MA 16600	Plane Analytic Geometry and Calculus II	4-5 credits
_____	MA 26100	Multivariate Calculus	4 credits

The Mathematics Minor provides a strong background in mathematics for students majoring in some other discipline. To qualify for the minor, the following classes must be completed with a C- or better.
ALL COURSES FOR THIS MINOR LISTED BELOW MUST BE TAKEN AT PURDUE UNIVERSITY

To obtain a minor in Mathematics, the following courses must be completed.
No substitutions are allowed. A course can only be used in one area.

3 credits from AREA 1
3 credits from AREA 2
6-7 credits from AREA 3

The three courses used for Areas 2 and 3 cannot all be from the same group.

TOTAL CREDITS FOR MINOR: 12-13 credits

AREA 1: CHOOSE ONE COURSE

_____	MA 35100	Elementary Linear Algebra	3 credits
_____	MA 51100	Linear Algebra with Applications	3 credits
_____	MA 26500*	Linear Algebra **[must be completed with a B- or better]**	3 credits
_____	MA 35300	Linear Algebra II With Applications - **[recommended for students with TR or CR for MA 26500]**	3 credits

AREA 2: CHOOSE ONE COURSE

_____	MA 45300	Elements of Algebra (Algebra group)	3 credits
_____	MA 45000	Algebra (Honors) (Algebra group)	3 credits
_____	MA 34100	Foundations of Analysis (Analysis group)	3 credits
_____	MA 44000	Real Analysis (Honors) (Analysis group)	3 credits

AREA 3: CHOOSE TWO COURSES

	COURSE #	COURSE TITLE	CREDIT HOURS
_____	_____	_____	_____
_____	_____	_____	_____

Area 3 Choices: in addition to courses listed below, approved mathematics selective courses can also be used:
http://www.math.purdue.edu/academic/undergrad/selectives

GROUP
Analysis: MA 30100, 34100, 36200, 51000, 42500
Probability: MA/STAT 41600 OR MA/STAT 51600 OR MA/STAT 51900 [only one]
Algebra: 45300 or 45000
Linear Algebra: MA 35300
Differential Equations: MA 36600** or 30300 or 30400 [only one]

*For many students, MA 26500 may not be adequate preparation for upper division mathematics classes. Students planning a Mathematics Minor should consider taking MA 35100 instead. Only students with a very firm grasp of the MA 26500 material [and a grade of B- or better] should contemplate taking MA 35300 without MA 35100

** MA 26600 with at least a "B-" can be used in place of MA 36600 [only one of MA 26600/36600/30300/or 30400 can be used in Area 3].
MA 26200 will not be accepted for the minor.

DATE: 3/12/2015

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Partial List of Minors for CIT Students

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

Minor	Credit	College
Areospace Studies Minor	14	Polytechnic Institute
Biometrics Minor	15	Polytechnic Institute
Biotechnology Minor	22	Polytechnic Institute
Building Construction Management Minor	16	Polytechnic Institute
Construction Graphics Minor	12	Polytechnic Institute
Disaster Restoration, Demolition, and Reconstruction Management Minor	11	Polytechnic Institute
Electrical Engineering Technology Minor	15	Polytechnic Institute
Military Scienece and Leadership Minor	15	Polytechnic Institute
Naval Science Minor	13	Polytechnic Institute
Organizational Leadership Minor	12	Polytechnic Institute
Product Lifecycle Management Minor	9	Polytechnic Institute
Supply Chain Management Techology Minor	15	Polytechnic Institute
Unmanned Aerial Systems Minor	15	Polytechnic Institute

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

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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

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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)

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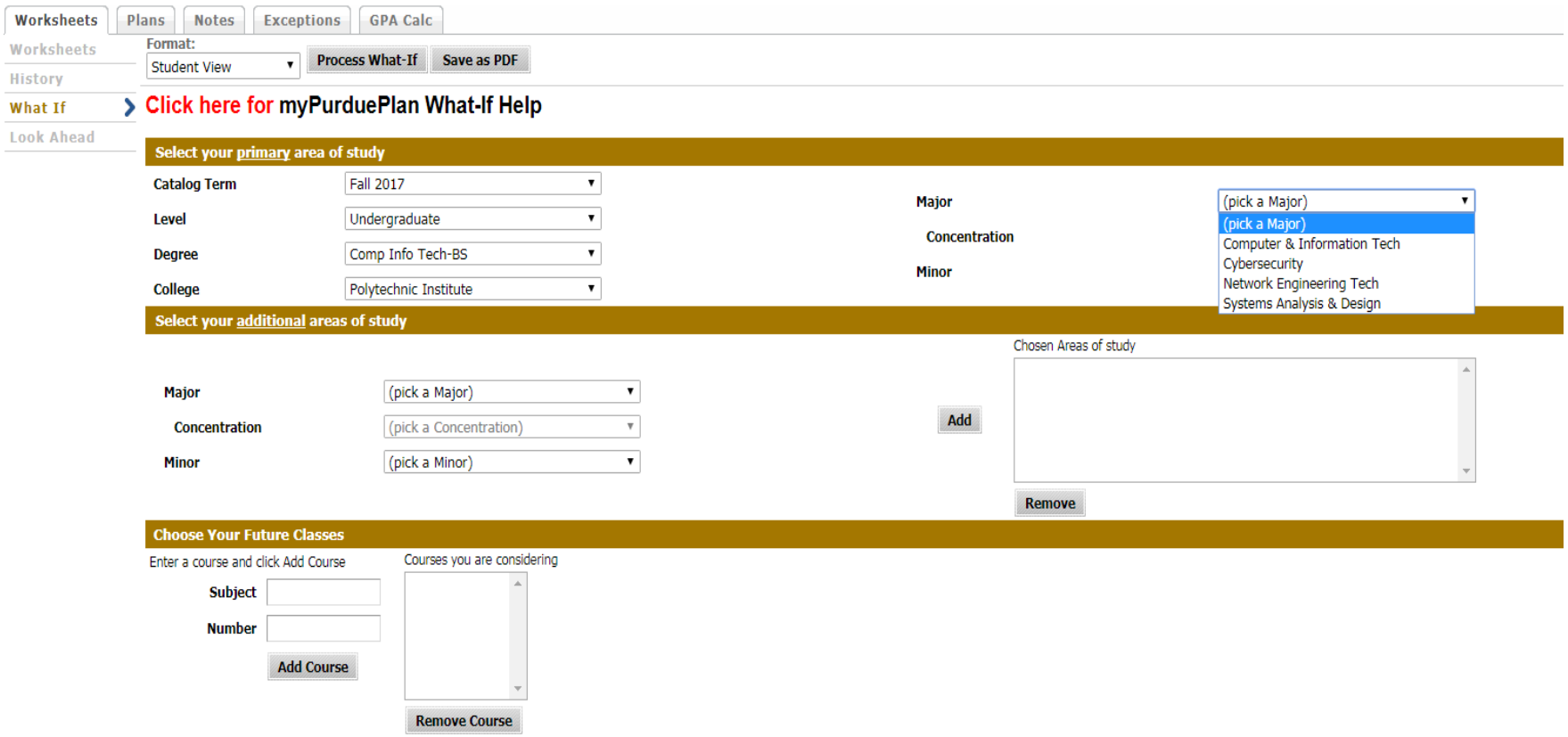
myPurduePlan “What-If” Worksheet

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

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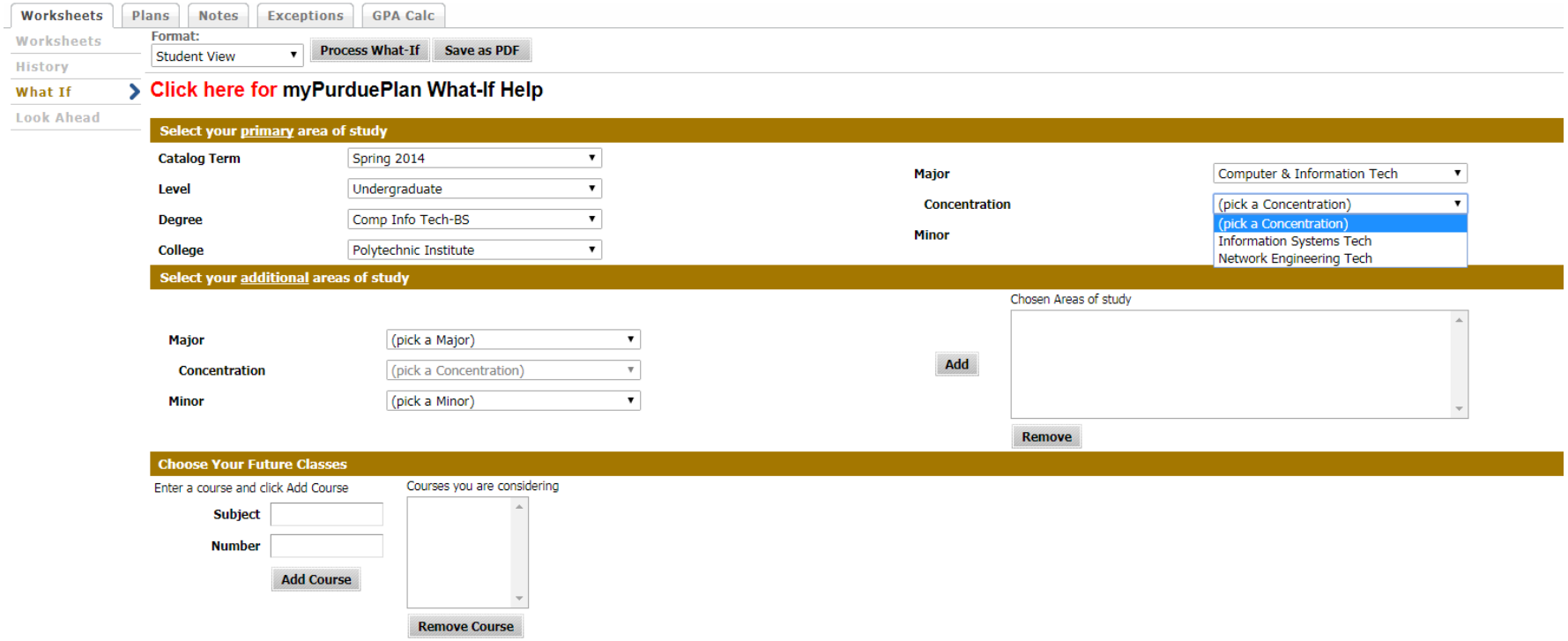
myPurduePlan “What-If” Worksheet

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

Catalog Term Prior to Fall 2015



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

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PLACEMENT

Average Starting Salaries*

2011-2012: $57,042

2012-2013: $59,890

2013-2014: $61,493

2014-2015: $62,522

2016-2017- $61,842**

*self reported

**data will be complete November 2017

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

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GRADUATE JOB TITLES & EMPLOYERS

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 (Interactive Intelligence)
- Intel
- Google
- John Deere
- Microsoft
- NSA
- Salesforce
- State of Indiana
- USAA
- US Secret Service

Deloitte.

Lilly

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Job Placement Resources & CIT Student Orgs

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

Polytechnic TechConnect (Portal for Technology Opportunities)
https://www.purdue.edu/polytechnic-portal/

Purdue Center for Career Opportunities: https://www.cco.purdue.edu

On Campus Career Fairs

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

Minority Technology Association (MTA)
https://boilerlink.purdue.edu/organization/minoritytechnologyassociation

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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.
    - SCLA 10100 (or ENGL 10600; ENGL 10100; ENGL 10300; ENGL 10800) or SCLA 10200 (or COM 11400 or ENGL 11000)
    - Calculus I (MA 16010 or 22300/16100/16500)
    - CNIT 18000 or CNIT 17600
- GPA calculators are available in myPurduePlan or Krannert http://www.krannert.purdue.edu/undergraduate/current-students/gpa.php

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CODO Process

To CODO in to 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
  - 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.

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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

PURDUE UNIVERSITY

DEPARTMENT OF COMPUTER & INFORMATION TECHNOLOGY
CIT Academic Policies and Guidelines for Admitted Students

The following information outlines CIT policies and expectations for your success.

At the time of your admission, you will be provided with a plan of study that outlines the requirements of the current curriculum. You are bound by the curriculum that is in effect at the time of your admission. It is your responsibility to maintain regular contact with departmental academic advisor, to monitor progress toward graduation, and to assure that all requirements are fulfilled to meet your planned graduation date.

In order to uphold the high quality of its educational program, CIT has established certain academic policies as outlined below: (CIT courses appear with the prefix CNIT)

- To be eligible to enroll in a CNIT course, a CIT major must have earned a grade of "C-" or better in any prerequisite CNIT course(s). If you do not earn this grade, you will automatically be dropped from the post-requisite course. **If you earn a "D" in a CNIT course that is not used as a prerequisite, you need NOT retake the class.**
- CNIT courses may be taken no more than three times (inclusive of "W", "WP", or "WN", and "I" grades) in order to fulfill the above requirement. If the student has taken a course three times and does not fulfill the above requirement, the student will not be able to continue in the CIT program.
- A minimum grade point average of 2.0 is required in all CNIT courses in order to be certified for any CIT degree.
- The only course allowed to be taken pass/fail (Pass/Not-Pass Option) for credit in an undergraduate student's plan of study is the free elective.
- You may register for up to 18 hours of coursework. Credit hours in excess of 18 hours will be closely monitored by academic advisor and requires advisor approval with minimum GPA of 3.0.
- CIT discourages students from taking more than three CNIT lab courses in the same semester.
- CIT students may earn credit by exam in up to four CNIT courses on their plan of study. To be eligible for credit by exam a student must be either newly admitted to the program or a currently enrolled student who has not received any grade (including W, WP, WF, WN, or I) or a directed grade in the course for which he/she seeks credit by exam. The student must also not have previously taken any part of the equivalency test for the course in question. The student is expected to be well-versed with all of the course objectives and course topics either through similar courses taken at another educational institution and/or through practical experiences. CNIT courses available for credit by exam are: CNIT 15501, 17600, 18000, 25501 and 27200. Contact the instructor of record for more information.

Faculty may have policies beyond those stated above. Be sure to read your syllabus for each course.

Your major responsibility is to work at a high academic level and to strive for academic excellence in all studies. In order to achieve these goals, students should adhere to the following guidelines:

- Prepare for and attend registration meetings in order to register for upcoming semesters.
- Take personal responsibility for reading and understanding all course materials, including the syllabus, textbooks, lab materials, and assignments.
- Show respect for faculty, staff, property, and other students.
- Conduct yourself in a professional, courteous manner in the classroom and throughout your academic career.
- Take responsibility for your grades. Grades are earned by results and require effort.
- Do your own work – academic dishonesty is not tolerated.
- Read CIT Announcements distributed via email to your @purdue.edu email address.
- Read and abide by the Student Bill of Rights and the University Regulations.
  https://www.purdue.edu/studentregulations/student_conduct/studentrights.html
  http://www.purdue.edu/studentregulations/

The CIT faculty and staff are here for your success! If you have questions, don't hesitate to ask!

Faculty provide office hours in course syllabi and posted on their office doors.

Academic Advisors office hours are posted at: *https://polytechnic.purdue.edu/degrees/computer-and-information-technology/advising*. If you have questions visit your advisor during posted office hours. You do not need to email to make an appointment during these times.

I have read and understand the CIT policies:

Imogene Alice Student	Imogene Alice Student	01-01-17	765-494-0000
Printed Name	Signature	Date	Phone Number

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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 012345678

(Name) LAST FIRST MIDDLE PUID

Student to complete information above and item 1, read items 6 & 7 and sign at the bottom after meeting with current college.

REQUEST FOR UNDERGRADUATE CHANGE OF CURRICULA

1. I am a student in the College/School of _____ majoring in_____.

I am interested in moving to Purdue Polytechinic (College/School) and CNIT/NENT/SAAD/CSEC (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.

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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

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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

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