Computer & Information Technology (CIT)

CODO Presentation

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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) Available beginning Fall 2017
- Data Analytics, Technologies and Applications (DATA) beginning Fall 2021
- **Network Engineering Technology (NENT) (Prior to Fall 2021)**
    - **Computer Infrastructure and Networking Technology (INET) Effective Fall 2021**
- 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
- Team oriented
    - 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)
    - These credits fulfill Interdisciplinary Selectives
    - 15 discipline specific credits from your current major may be considered in lieu of a minor
- Requires six credits of Science of which at least three credits must have a lab component (student may choose to fulfill the six credits with all lab science course credits)
- Includes one Free Elective

https://polytechnic.purdue.edu/degrees/computer-and-information-technology

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Computing Infrastructure and Network Engineering Technology- INET

Effective Fall 2021 **Replaces:** Network Engineering Technology – NENT – **Available until Summer 2021**

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
- Prior to catalog term Fall 2020, requires two semesters of Physics to complete science requirement
- Fall 2020 and later, requires six credits of Science of which at least three credits must have a lab component (student may choose to fulfill the six credits with all lab science course credits)
    - Students may change catalog term year to this later plan.

https://polytechnic.purdue.edu/degrees/computing-infrastructure-and-network-engineering-technology

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Data Analytics, Technologies and Applications Major - DATA

Our digital lives consist of data and information. Industry and other organizations need to use that data and information to strengthen their decision-making processes, which means that they need information technology professionals who can enable, support and use data analytics and applications.

  - Develop strong foundations in statistical and machine learning techniques. Apply analytics approaches, techniques and tools to solve problems.
  - Evaluate such approaches, techniques and tools for effective use.

- Application Focus area (18 credits) by completing the Statistics minor and 9 credits in the Application focus areas of the Applications in Data Science Certificate or 18 non-CNIT credits from the Application focus are in the Applications in Data Science Certificate.
- Requires six credits of Science of which at least three credits must have a lab component (student may choose to fulfill the six credits with all lab science course credits)
- Includes one Free Elective

https://polytechnic.purdue.edu/degrees/data-analytics-technologies-and-applications

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Cybersecurity Major - CSEC

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 six credits of Science of which at least three credits must have a lab component (student may choose to fulfill the six credits with all lab science course credits)
- Cybersecurity selective options: Homeland Security, Advanced coding security, & Malware forensics and many more
- The most prescriptive/least flexible major

https://polytechnic.purdue.edu/degrees/cybersecurity

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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 six credits of Science of which at least three credits must have a lab component (student may choose to fulfill the six credits with all lab science course credits)
- Includes Packaged App Software Solutions, Adv. Systems Design & Integration, and Software Development Methodologies as selective options

https://polytechnic.purdue.edu/degrees/systems-analysis-and-design

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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 to which IT can be applied

TIP:

Research the minor requirements for your current major & consider using it to fulfill your Interdisciplinary Selectives

Minor options for CIT Students *

https://catalog.purdue.edu/content.php?catoid=13&navoid=16362

(you may choose your catalog term year)

*Computing related minors such as CS, ECE, CGT (exception the CGT PLM minor) minors, are not available as interdisciplinary selectives

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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)

*participation in EPICS requires CIT faculty approval

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PLAN OF STUDY CATALOG TERM

A student's catalog term, typically the semester you started at Purdue, will be used to determine the Major Change criteria that applies to you. Students can find their catalog term at the top of their myPurduePlan below the degree progress bar and FAQs.

Your default catalog term is the term that you started at Purdue, however, students may choose to pursue a major in a later catalog term if those degree requirements are preferred, or to pursue a new major that was added after you started at Purdue.

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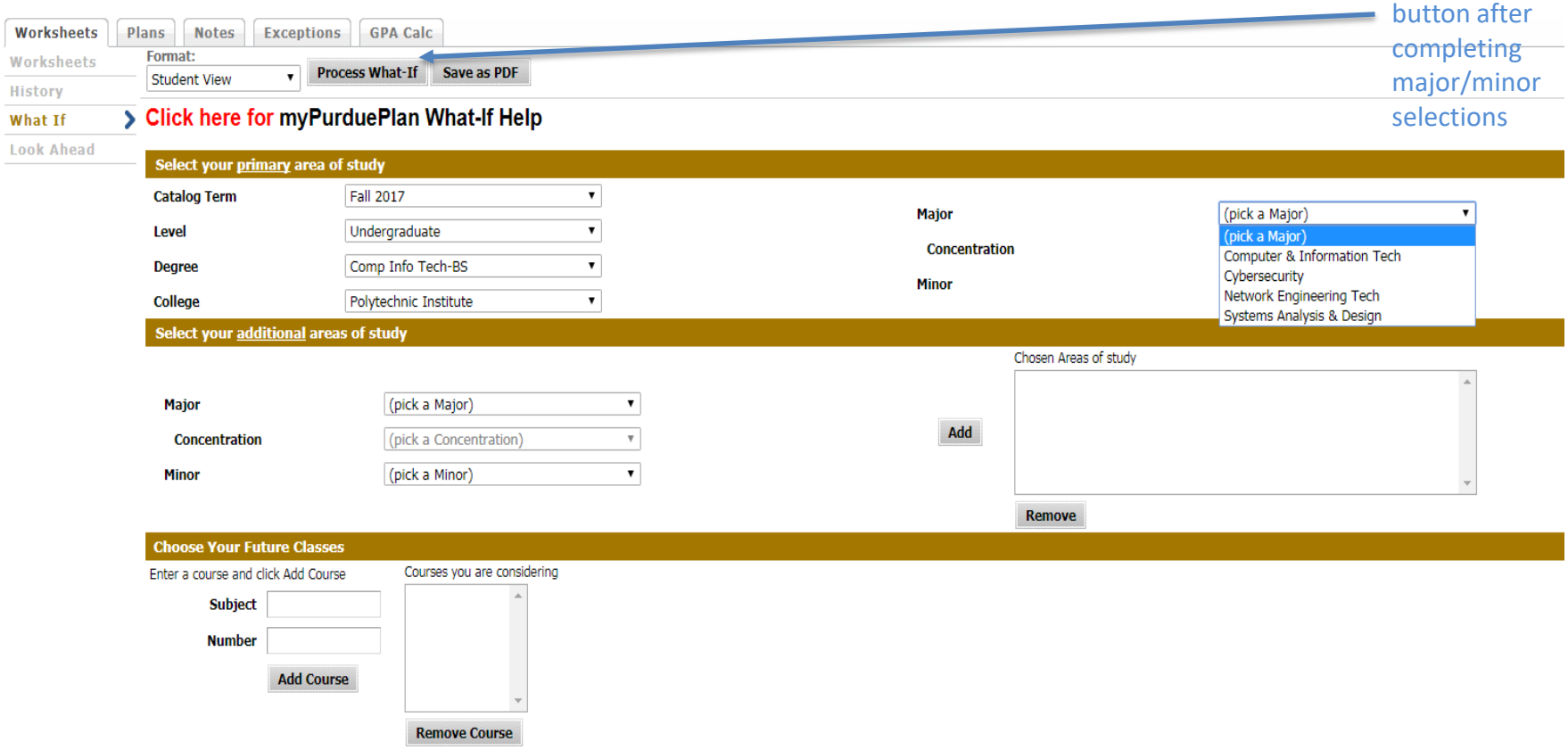
myPurduePlan "What-If" Worksheet

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

Catalog Term Fall 2015 and after **(Do not select a concentration)**

Click the Process What-If button after completing major/minor selections



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

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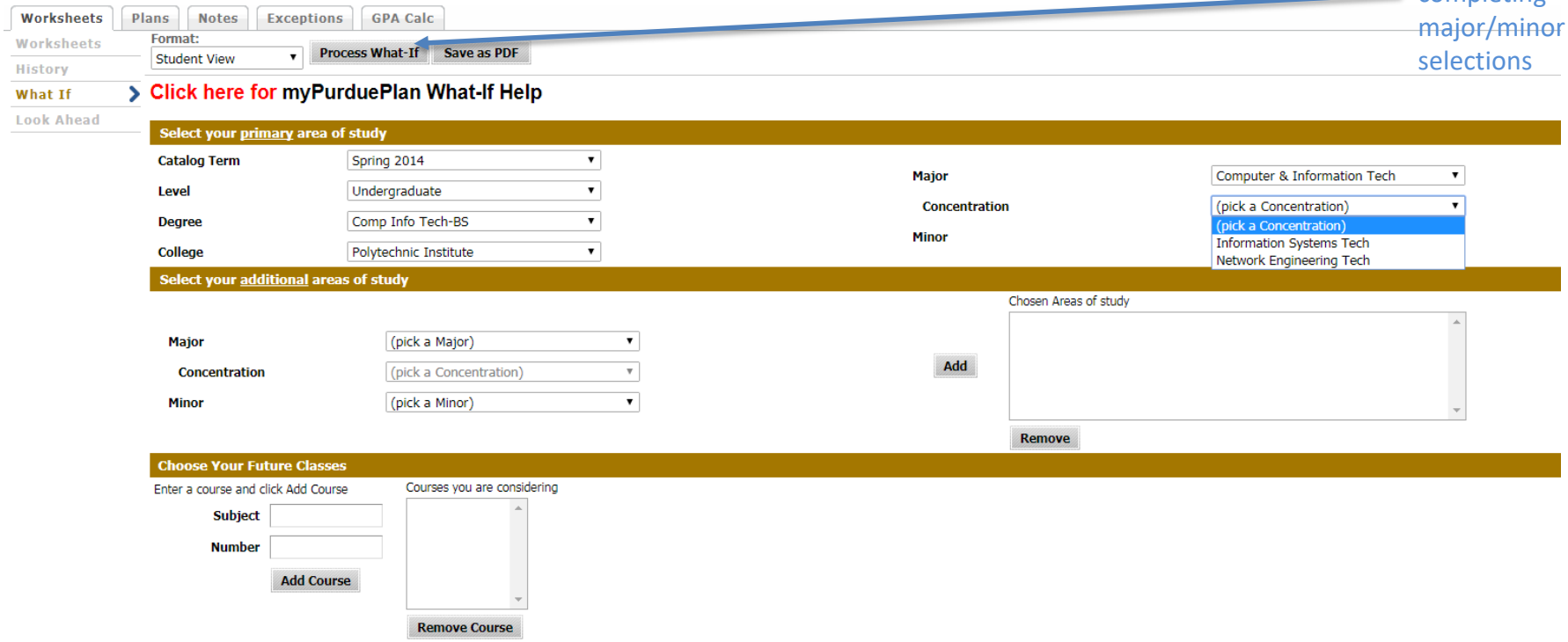
myPurduePlan "What-If" Worksheet

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

Catalog Term Prior to Fall 2015 (must first choose the Major: Computer & Information Technology, and only choose a Concentration if pursing Network Engineering Technology)

Click the Process What-If button after completing major/minor selections



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

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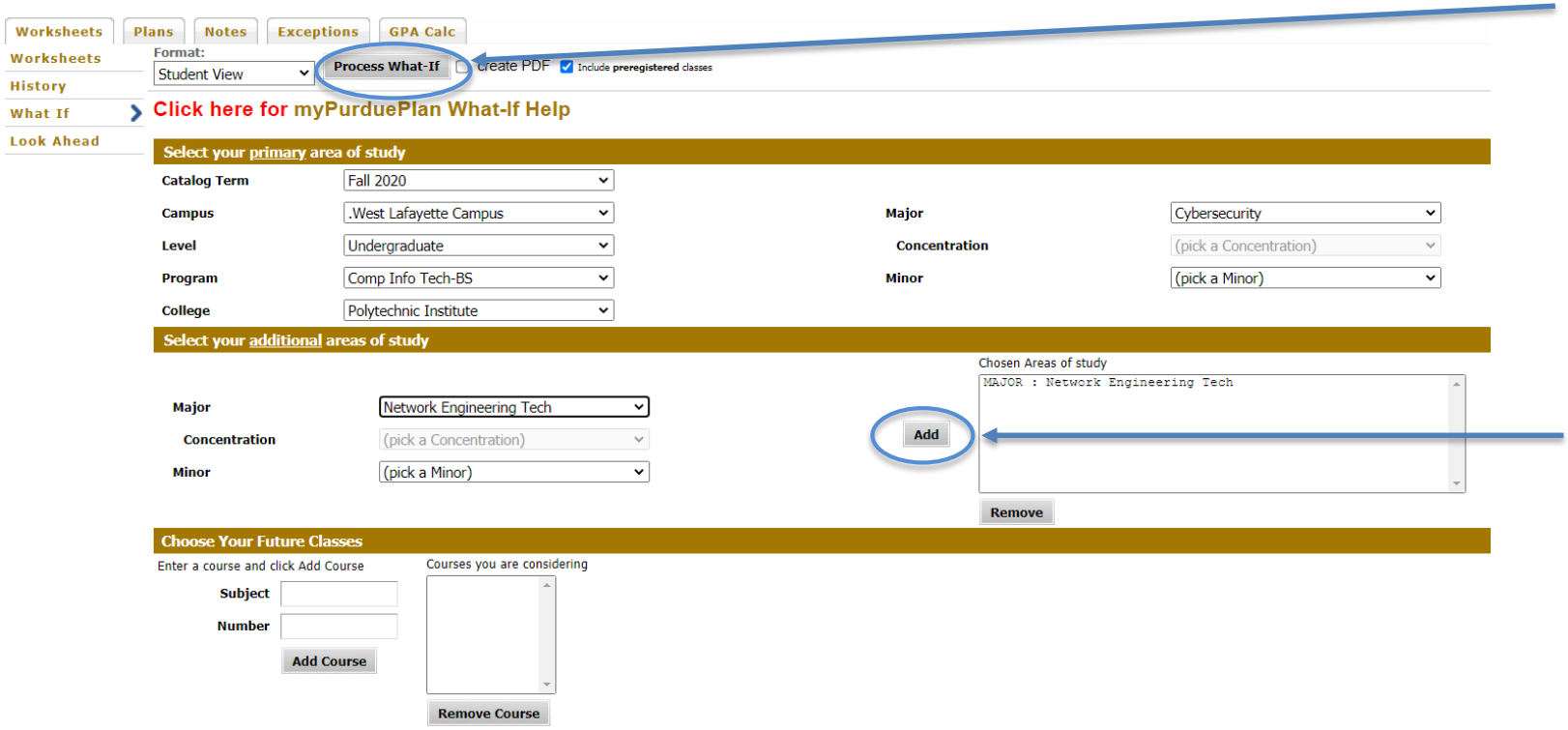
MYPURDUEPLAN "WHAT-IF" WORKSHEET

HOW LONG WILL IT TAKE ME TO GRADUATE IF I SWITCH MAJORS AND PLAN TO DOUBLE MAJOR?



Click the Process What-If button after completing major/minor selections

Select the additional area of study and click the Add button

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

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PLACEMENT

Graduates with jobs or in graduate school within 6 months

86.3%

Average Starting Salary

$64,613

Data published by https://polytechnic.purdue.edu/data-dashboard

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GRADUATE JOB TITLES & EMPLOYERS

Potential Job Titles:

- Application developer
- Business analyst
- Cyber Risk Consultant
- Data analyst
- Database administrator
- IT Consultant
- Network administrator
- Network consulting engineer
- Security specialist
- Software engineer
- Systems Analyst
- Technical Support Analyst
- Web Developer

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.

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Job Placement Resources & CIT Student Orgs

Student Employment (Federal Work Study and Student Employment Opportunities)
https://www.purdue.edu/dfa/types-of-aid/work-study.html

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

CIT Affiliated On Campus Career Fairs

CIT-AITP 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

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

Women in Technology
https://boilerlink.purdue.edu/organization/womenintechnology

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CODO Requirements

CODO students are considered on a semester-by-semester and space availability basis

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

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

- 3.25 cumulative GPA and completion of all courses listed below with a C- or above will be *accepted* on space available basis.
- 3.24- 3.00 cumulative GPA with completion of all courses listed below with a C- or above will be *considered* for admission on space available basis.
    - CNIT 18000 or CNIT 17600,
    - Calculus I (MA 16010/16100/16500),

      and
    - SCLA 10100 (or ENGL 10600; ENGL 10100; ENGL 10300; ENGL 10800; ENGL 11000)

      or
    - SCLA 10200 (or COM 11400)
- GPA calculators are available in myPurdue Plan 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 the online CODO presentation
  - Pass the associated quiz (**be sure to take a screenshot**)
- Email CIT-Advising@purdue.edu with the following:
  - Statement of desired CIT major
  - Attachment of CODO quiz screenshot
  - Attachment of myPurdue Plan What-If (**recommended**)
  - Attachment of signed form or acknowledgement statement in your email of CIT Academic Policies and Guidelines
- Students will be contacted by CIT Advising with next steps and meeting options.
- Students who have completed or are enrolled in appropriate courses and who meet the minimum GPA at the end of the semester will be considered on a space-available basis.

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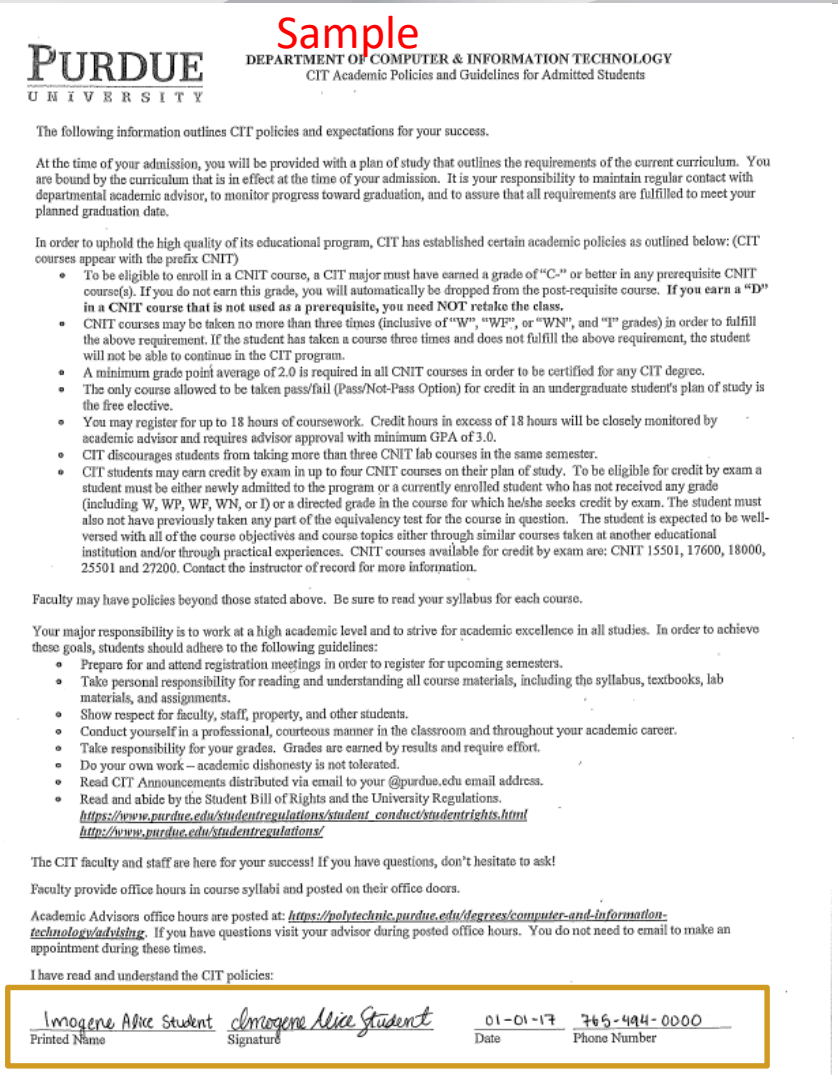
Academic Policies and Guidelines Form

Available Here

- ✓ Save a copy of the CIT Policies and Guidelines for your records
- ✓ Sign the form and attach or note in your email that you have read and acknowledge the policies.



Sample

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", "WF", 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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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 documents have been submitted, you will be notified by e-mail and added to the *CIT-Announcements* e-mail listserv
- CNIT course requests for 10000 and 20000 level courses will be considered on a space available basis. Submit the courses during your Registration meetings. If space is available, you will receive a seat, if not, during open registration you will need to resubmit your course request to be considered.
- Review Registration Meeting Presentation for semester updates: https://polytechnic.purdue.edu/degrees/computer-and-information-technology/advising/registration

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CIT ADVISORS

Melody Carducci

Lisa Klein

Lauren Lucas

Angie Murphy

Zach Oborne

CIT Advising Contact Information:
polytechnic.purdue.edu/cit/advising

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