

Cybersecurity (CSEC)

Purdue Polytechnic Institute

Department of Computer and Information Technology

Advising Worksheet

Disclaimer: The Purdue West Lafayette catalog is considered the source for academic and programmatic requirements for students entering programs during the corresponding Fall, Spring, and Summer semesters. The Advising Worksheet assists students in the development of an individualized 8-semester plan. Students are encouraged to use this worksheet and MyPurduePlan* (the online degree auditing tool) as they work with their academic advisor toward the completion of all their degree requirements.

Notification: Each student is ultimately responsible for knowing, monitoring, and completing all degree requirements.

An undergraduate degree in the Purdue Polytechnic Institute requires completion of the following degree requirements.

University Degree Requirements		
Minimum 2.0 Cumulative GPA	Minimum 120 Credits that fulfill degree requirements	32 Residency Credits (30000-level and above) at a Purdue University Campus
University Core Curriculum **		
https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html		
<ul style="list-style-type: none"> Human Cultures: Behavioral/Social Science Human Cultures: Humanities Information Literacy Oral Communication 	<ul style="list-style-type: none"> Quantitative Reasoning Science Science, Technology & Society Selective Written Communication 	
Civics Literacy Proficiency		
https://www.purdue.edu/provost/about/provostInitiatives/civics/		
Required Major Program Courses (see following pages)		
Departmental specific requirement <ul style="list-style-type: none"> Any course taken at Purdue can be attempted no more than three times (inclusive of W, WF, WN, I, and IF) Students must earn a C- or better in all CNIT courses that are a prerequisite to another CNIT course 2.0 Cumulative GPA required for Bachelor of Science degree 2.0 Cumulative GPA in all CNIT courses required for Bachelor of Science degree Students must select courses from Cybersecurity Supplemental Information. Credit cannot be earned for both AGEC 21700 and ECON 21000 to fulfill degree requirements Credit cannot be earned for both COM 31400 and COM 31500 to fulfill degree requirements A single course may not fulfill multiple requirements within the CIT BS degree 		
Pass/No Pass option		
Non-course/Non-credit Requirements		
<ul style="list-style-type: none"> Complete a Professional Requirement. * Complete a Globalization Requirement. 		

* This audit is not your academic transcript and it is not official notification of completion of degree or certificate requirements.

** University Core Curriculum Outcomes may be met through completions of the Purdue Polytechnic Institute curriculum. Students should Consult with their academic advisors and MyPurdue Plan for course selections.

Department of Computer & Information Technology – Cybersecurity (CSEC) Worksheet
Academic Year 2024-2025

Name:
 PUID:
 Email:
 Advisor:

Updated:
 Minor/Cert:
 Additional Programs:
 Notes: (grad early, codo from, etc.)

Recommended Arrangement of CNIT Courses to meet prerequisites/ General Education courses are flexible and may be taken any semester*.
***Intro Composition Selective, Intro to Oral Communication Selective, MA 16010 and MA 16020 are recommended in the first year if space is available.**
See Supplemental Information Tab for Course Options

Fall 1 st Year	CR	Prerequisite	Status	Fulfilled by	Spring 1 st Year	CR	Prerequisite	Status	Fulfilled by
CNIT 17600 Info Tech Architecture	3				CNIT 15501 Intro to Software Dev.	3			
CNIT 18200 System & Organizational Security	3				CNIT 27000 Cybersecurity Fundamentals I	3	CNIT 17600 and (CNIT 15501 may be taken concurrently)		
Intro Composition Selective*	3				Intro Oral Communication selective*	3			
MA 16010 Applied Calculus I* (PREFERRED), or MA 16500 or MA 16100	3	ALEKS Score minimum of 75%			MA 16020 Applied Calculus II* (PREFERRED), or MA 16600 or MA 16200	3	MA 16020: MA 16010 with grade of C- or higher		
TECH 12000 Design Thinking in Tech.*	3				Behavioral/Social Science Selective*	3			
Total Credit Hours	15				Total Credit Hours	15			

Fall 2 nd Year	CR	Prerequisite	Status	Fulfilled by	Spring 2 nd Year	CR	Prerequisite	Status	Fulfilled by
CNIT 25501 Object-Oriented Programming	3	CNIT 15501			CNIT 24200 System Administration	3	CNIT 17600		
CNIT 27100 Cybersecurity Fundamentals II	3	CNIT 27000			CNIT 27200 Database Fundamentals	3	CNIT 15501 and (CNIT 18000 or CNIT 18200)		
Economics Selective	3				CSEC Interdisciplinary Selective	3			
Humanities Selective*	3				Statistics Selective	3			
Science Selective* (Non Lab or Lab Science)	3				Lab Science Selective*	3			
Total Credit Hours	15				Total Credit Hours	15			

Fall 3 rd Year	CR	Prerequisite	Status	Fulfilled by	Spring 3 rd Year	CR	Prerequisite	Status	Fulfilled by
CNIT 34000 Unix Administration	3	CNIT 24200			CNIT 37100 Cyberlaw and Ethics	3	TECH 12000 (min grade D-) and CNIT 27000		
CNIT 34400 Network Engineering Fundamentals	3	CNIT 17600 & 24200			CNIT 32300 Basic Cyberforensics	3	CNIT 27100		
CNIT 37000 Introduction to Cryptography	3	CNIT 24200 & CNIT 27000			CNIT 34220 Network Administration	3	CNIT 34000		
CSEC Selective	3				Accounting Selective	3			
Communications Selective	3				CSEC Interdisciplinary Selective	3			
Total Credit Hours	15				Total Credit Hours	15	Total		

Fall 4 th Year	CR	Prerequisite	Status	Fulfilled by	Spring 4 th Year	CR	Prerequisite	Status	Fulfilled by
CNIT 45500 Network Security	3	CNIT 34220 & [CNIT 24000/34400 or 34500]			CNIT 42200 Cyber Criminology	3	Junior or Senior Status		
CNIT 47000 Incident Response Management	3	CNIT 45500 may be taken concurrently			CNIT 47100 Vulnerability Analysis and Testing	3	CNIT 27100 & CNIT 34400		
CSEC Selective	3				CNIT 48000 Managing Information Technology Project	3	((CNIT 18000 or CNIT 18200) and Senior standing and last year)		
CSEC Interdisciplinary Selective	3				CSEC Selective	3			
Professional Speaking Selective	3				Professional Writing Selective	3			
Total Credit Hours	15				Total Credit Hours	15			

- 120 unique semester credits, as applied to your plan of study, and 2.0 Graduation GPA are required for the Bachelor of Science degree.
- 2.0 Graduation GPA in all CNIT courses required for Bachelor of Science degree.
- *Fulfills University Core.
- Students must earn a "C-" or better in all CNIT courses that are a prerequisite to another CNIT course.

- Courses at Purdue University may only be attempted a maximum of three (3) times, including W, I, IF and all graded attempts.
- 32 credit hours of 300-level or higher courses must be completed at Purdue University.
- The Department will provide lists of courses that will be offered fall only or spring only.

8a. Professional Requirement.	Criteria and process located in Brightspace - CIT Student Information Course (CourseTools: Assignments) and Professional IT Experience Tab
8b. Globalization Requirement.	CNIT 37100

The student is ultimately responsible for knowing and completing all degree requirements. Students are encouraged to use this advising worksheet as a resource when planning progress toward completion of degree requirements. An Academic Advisor may be contacted for assistance in interpreting this worksheet. This worksheet is not an academic transcript, and it is not official notification of completion of degree or certificate requirements.

Purdue University Catalog <https://catalog.purdue.edu> is knowledge source for specific requirements.

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Polytechnic Institute

2024-2025 CSEC SUPPLEMENTAL INFORMATION (All prerequisites must be met.)**INTRO COMPOSITION SELECTIVE (3 credits)**

SCLA 10100 Transformative Text, Critical Thinking and Communication I: Antiquity to Modernity - **Preferred**

ENGL 10600 First-Year Composition (restricted offerings)

ENGL 10800 Accelerated First Year Composition (restricted offerings)

HONR 19903 Interdisciplinary Approaches to Writing (GPA 3.0 Required)

Credit will be accepted in any University Core Curriculum approved Written Communication Course: <https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html> See Written Communication (WC)

Credit will also be accepted for transfer courses with the Course Code: IXUWC

PROFESSIONAL WRITING SELECTIVE (3 credits)

ENGL 41900 Multimedia Writing

ENGL 42000 Business Writing

ENGL 42100 Technical Writing

ENGL 42400 Writing for High Technology Industries (prereq Engl Comp + Tech 120 waives ENGL 30900 prereq)

INTRO ORAL COMMUNICATION SELECTIVE (3 credits)

COM 11400 Fundamentals Of Speech Communication

SCLA 10200 Transformative Texts, Critical Thinking And Communication II: Modern World

EDPS 31500 Collaborative Leadership: Interpersonal Skills

Credit will be accepted in any University Core Curriculum approved Oral Communication Course: <https://www.purdue.edu/provost/students/s-initiatives/curriculum/courses.html> See Written Communication (OC)

Credit will also be accepted for transfer courses with the Course Code: IXUOC

COMMUNICATION SELECTIVE (*COM 11400 prereq) (3 credits)

COM 21000* Debating Public Issues

COM 21200 Approaches to the Study of Interpersonal Communication

COM 22400 Communicating in the Global Workplace

COM 25100 Communication, Information and Society

COM 30300 Intercultural Communication

COM 31400* OR COM 31500* Speech Communication of Technical Information (credit can only be used for one course)

COM 31800 Principles of Persuasion

COM 32000 Small Group Communication

COM 32400 Introduction to Organizational Communication

PROFESSIONAL SPEAKING SELECTIVE (*COM 11400 prereq) (3 credits)

COM 31400* OR COM 31500 *Speech Communication of Technical Information (credit can only be used for one course)

COM 32000 Small Group Communication

COM 32500 Interviewing: Principles and Practice

COM 41500 Discussion Of Technical Problems

ACCOUNTING SELECTIVE (3 credits)

MGMT 21200 Business Accounting (Preferred)

MGMT 20000 Introductory Accounting

BEHAVIORAL SOCIAL SCIENCE SELECTIVE (3 credits)

<http://www.purdue.edu/provost/initiatives/curriculum/course.html> See: Human Cultures: Behavioral/Social Sciences (BSS)

Credit will also be accepted for transfer courses with the Course Code: IXBSS

(Consider PSY 12000 or SOC 10000)

CYBERSECURITY INTERDISCIPLINARY SELECTIVES (See Separate Tab for Options) (9 credits)**CYBERSECURITY SELECTIVE (CSEC) SELECTIVE (9 credits)**

Each semester there will be a list provided of approved courses to fulfill this requirement.

Not all courses will be offered each semester Examples Include:

CNIT 31500, CNIT 32200, CNIT 34600, CNIT 41500, CNIT 41700, CNIT 42100, CNIT 42300, CNIT 44500, CNIT 45600, CNIT 47700, CNIT 48300, CNIT 51100, CNIT 51200, CNIT 52300, CNIT 52500, CNIT 54600, CNIT 55500, CNIT 55600, CNIT 55700

ECONOMICS SELECTIVE (3 credits)

AGEC 21700 Economics OR ECON 21000 Principles of Economics (credit can be only used for one course)

ECON 25100 Microeconomics

ECON 25200 Macroeconomics

HUMANITIES SELECTIVE (3 credits)

<http://www.purdue.edu/provost/initiatives/curriculum/course.html>

See: Human Cultures: Humanities (HUM) Credit will also be accepted for transfer courses with the Course Code: IXHUM

SCIENCE SELECTIVE 6 credits total required (3 CR minimum in a lab science)

<http://www.purdue.edu/provost/initiatives/curriculum/course.html>

See: Science (SCI)

Credit will also be accepted for transfer courses with the Course Code: IXSCI

STATISTICS SELECTIVE (3 credits)

STAT 22500 Introduction to Probability Models

STAT 30100 Elementary Statistical Methods

STAT 50100 Experimental Statistics I

STAT 51100 Statistical Methods

CNIT Duplicate Credit Courses - Credit may be established toward degree requirements in only one course from each list

CNIT 15501 OR 10500

CNIT 18000 OR 18200

CNIT 32300 OR 42000

CNIT 32000 OR 37100

Professional IT Experience (See Separate Tab for Options)

Cybersecurity Interdisciplinary Selective (9 credits)

The Cybersecurity Interdisciplinary Selective requirement can be met in four ways:

1. Courses that are part of a university recognized non-computing minor or certificate

• CGT, CNIT, CS and ECE are considered computing minors and are not acceptable as interdisciplinary selectives.

• Foreign language courses that are a pre-requisite to a foreign language minor; other courses that are pre-requisites to minors will be considered.

2. Nine credit hours within one subject such that:

• At least three credit hours in advanced courses at the 30000-level or higher with a required prerequisite in the same subject

• Up to three credit hours may be introductory-level courses at the 20000-level or higher without a prerequisite from the same subject

• No more than three credit hours may be an introductory-level course at the 100000-level without a pre-requisite from the same subject.

3. Nine credits from the following list: not all courses are offered every semester (pre-requisites)

ECET 35901 - Computer Based Data Acquisition Applications (ECET 17700 & ECET 17900 with minimum grade D-)

ENTM 22810 - Forensic Investigation

IET 31300 - Technology Innovation And Integration: Bar Codes To Biometrics

MGMT 25400 - Legal Foundations Of Business I (restricted to School of Business College)

MGMT 45500 - Legal Background For Business I

PSY 27200 - Introduction To Industrial-Organizational Psychology (PSY 12000 with minimum grade of D-)

PSY 31000 - Sensory And Perceptual Processes (PSY 20000 and PSY 20100 minimum grade D-)

PSY 34200 - Introduction To Psychology Of Personality (PSY 12000 AND [PSY 20100 OR PSY 20300] minimum grades of D-)

PSY 35000 - Abnormal Psychology (PSY 12000 with minimum grade of D-)

SOC 32400 - Criminology

SOC 32700 - Crime, Deviance And Mass Media

SOC 32800 - Criminal Justice

SOC 33800 - Global Social Movements

HONR courses

4. A department-approved set of non-computing courses in (a) subject area(s) to which Information Technology can be applied. This option allows a student to create a set of complementary courses across subjects that collectively meet an over-arching objective. To choose this option, submit a one-page document detailing your objective and list the courses proposed to meet the fifteen credit-hour requirement and how each will contribute to the over-arching objective.

PROFESSIONAL INFORMATION TECHNOLOGY(IT) EXPERIENCE REQUIREMENT

The Professional IT internship must meet the following requirements:

- Six-week (at 40 hours a week) minimum duration OR 240 hours of IT employment OR 240 hours of documented volunteer IT work
- Completed Employer Verification Form
- Completed Reflection Paper

OR

Service-Learning Course: project must be preapproved prior to completion: (CNIT 39000, EPCS: Engineering Projects in Community Service, TDM: The Data Mine, OR VIP- Vertically Integrated Projects, or Equivalent) with responsibility for an IT component (3 credit hours minimum) – this option does not require an Employer submission. Grade of C- or Better required.

Completed Reflection Paper

Upon completion of the Professional IT Experience, you will prepare a three-page, double-spaced Reflection Paper.

If you are graduating in the same semester of completion, the due date for the Employer Verification Form and the Reflection Paper is before the end of the 12th week. **It is highly recommended that you complete the documentation as soon as you finish your experience.**