PURDUE UNIVERSITY

Kokomo Department of Computer and Information Technology (CIT)
PICIT-BS CSEC Cybersecurity Major
Effective Fall 2020

Phone Number_____ **Name**_____

Email Address_____ **ID**_____

FIRST SEMESTER	SUB/EQ	CR	GR	SEM	SECOND SEMESTER	SUB/EQ	CR	GR	SEM
CNIT 18000 (Intro to Systems Development) with minimum grade of C-		3			**CNIT 15501 (Intro to SW Dev Concepts)** with minimum grade of C-		3		
TLI 11200 (Foundations of Org Leadership) ^		3			**CNIT 17600 (Info Tech Architectures)** with minimum grade of C-		3		
Composition Selective*[1]^		3			Oral Communications Selective*[2]^		3		
MA 16010 (Applied Calculus I)* Pre-req: ALEKS Score of 75%, SATR Math 620, SAT Math 600, ACT Math 26 or MA 15400 or MA 15800 with minimum grade of C-		3			MA 16020 (Applied Calculus II)* Pre-req: MA 16010 with minimum grade of C-		3		
TECH 12000 (Design Thinking in Technology)*^		3			Accounting Selective[3]		3		
TOTAL CREDIT HOURS		**15**			**TOTAL CREDIT HOURS**		**15**		

THIRD SEMESTER	SUB/EQ	CR	GR	SEM	FOURTH SEMESTER	SUB/EQ	CR	GR	SEM
CNIT 27200 (Database Fundamentals) Pre-req: CNIT 15500 or 15501 & CNIT 18000 & Co-Rec CNIT 28000 with minimum grade of C-		3			**CNIT 24200 (System Administration)** **Pre-req: CNIT 17600 and Classification 3+**		3		
CNIT 28000 (Sys Analysis & Design Methods) Pre-req: CNIT 18000 & Co-Rec CNIT 27200 with minimum grade of C-		3			CNIT 25501 (Object-Oriented Programming) Pre-req: CNIT 15500 or 15501		3		
Humanities Foundational Selective*[10]		3			CNIT 27000 (Cybersecurity Fundamentals) Pre-req: CNIT 17600 & CNIT 15501		3		
Economics Selective[4]		3			Statistics Selective[7]^		3		
Science Selective*[13]		3			Lab Science Selective*[14]		3		
TOTAL CREDIT HOURS		**15**			**TOTAL CREDIT HOURS**		**15**		

FIFTH SEMESTER	SUB/EQ	CR	GR	SEM	SIXTH SEMESTER	SUB/EQ	CR	GR	SEM
CNIT 31500 (Systems Programming) Prereq: CNIT 25500 or 25501		3			CNIT 32000 (Policy, Regulation, and Globalization in IT) Pre-req: TECH 12000		3		
CNIT 32200 (Research Method and Design)** with minimum grade of C- Pre-req: CNIT 27000		3			**CNIT 34220 (Network Administration)** with minimum grade of C- **Pre-req: CNIT 34000 or CNIT 34010**		2		
CNIT 34010 (Unix Fundamentals) ** with minimum grade of C- **Pre-req: CNIT 24200**		1			**CNIT 34400 (Network Engr Fundamentals)** with minimum grade of C- **Pre-req: CNIT 24200 & 27000**		3		
CNIT 37000 (Introduction to Cryptography) with minimum grade of C- **Pre-req: CNIT 24200 & CNIT 27000**		3			Professional Writing Selective[8]		3		
Professional Speaking Selective[6]		3			Interdisciplinary Selective[15]		3		
Interdisciplinary Selective[15]		3							
TOTAL CREDIT HOURS		**16**			**TOTAL CREDIT HOURS**		**14**		

SEVENTH SEMESTER	SUB/EQ	CR	GR	SEM	EIGHTH SEMESTER	SUB/EQ	CR	GR	SEM
CNIT 45500 (Network Security) ** with minimum grade of C-, **Pre-req: (CNIT 34200 or 34220) & (CNIT 34500 or 34400)**		3			CNIT 42000 (Basic Cyber Forensics) Pre-req: Classification 4+ in CIT		3		
CNIT 47000 (Incident Response Management) **Pre-req: CNIT 32000 and (CNIT 34400 or 34500) Co-rec CNIT 45500		3			CNIT 42200 (Cyber Criminology) Pre-Req: CNIT 32200		3		
Cybersecurity Selective[16]		3			CNIT 47100 (Vulnerability Analysis & Testing) Pre-req: CNIT 37000 & CNIT 45500**		3		
Cybersecurity Selective[16]		3			**CNIT 48000 (Managing Info Tech Projects)** **Pre-req: CNIT 28000 & SR STANDING**		3		
Communications Selective[5]		3			Behavioral/Social Sciences Foundational Selective[11]		3		
TOTAL CREDIT HOURS		**15**			**TOTAL CREDIT HOURS**		**15**		

CO-CURRICULAR REQUIREMENTS									
Professional IT Experience Requirement[17]		0							

*Fulfills University Core/ ^Critical Course   **120 Total**

1) Students must earn a C- or better in all CNIT courses that are a prerequisite to another CNIT course
2) 120 semester credits listed above are required for the Bachelor of Science degree
3) 2.0 Graduation GPA and GPA in all CNIT courses required for Bachelor of Science degree
4) ANY COURSE TAKEN AT PURDUE CAN BE ATTEMPTED NO MORE THAN THREE TIMES (INCLUSIVE OF W, WF, WN, I, and IF)

5) Courses in BOLD are essential for the CIT degree critical path to graduation
6) A single course may not fulfill multiple requirements within the CIT BS degree
7) **Some courses have limited semester offerings, refer to Critical Path Documents

SEE REVERSE FOR CIT SUPPLEMENTAL INFORMATION

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

[1]COMPOSITION SELECTIVE
SCLA 10100 Transformative Texts, Critical Thinking & Communication I

[2]ORAL COMMUNICATIONS SELECTIVE
SCLA 10200 Transformative Texts, Critical Thinking & Communication II

[3]ACCOUNTING SELECTIVE
MGMT 20000 Introductory Accounting (Required for MGMT Minor)
MGMT 21200 Business Accounting

[4]ECONOMICS SELECTIVE
AGEC 21700 Economics **or** ECON 21000 Principles of Economics **(credit in only one)**
ECON 25100 Microeconomics
ECON 25200 Macroeconomics

[5]COMMUNICATIONS SELECTIVE
COM 25100 Communication, Information, and Society
COM 22400 Communicating in the Global Workplace

[6]PROFESSIONAL SPEAKING SELECTIVE
COM 31500 Speech Communication of Technical Information
COM 41500 Discussion of Technical Problems

[7]STATISTICS SELECTIVE
STAT 22500 Introduction to Probability Models
STAT 30100 Elementary Statistical Methods
STAT 50100 Experimental Statistics I
STAT 51100 Statistical Methods

[8]PROFESSIONAL WRITING SELECTIVE
ENGL 41900 Multimedia Writing
ENGL 42000 Business Writing
ENGL 42100 Technical Writing

[10]HUMANITIES FOUNDATIONAL SELECTIVE: see ***http://www.purdue.edu/provost/initiatives/curriculum/course.html*** (Human Cultures: Humanities (HUM))

[11]BEHAVIORAL/SOCIAL SCIENCES FOUNDATIONAL SELECTIVE: see ***http://www.purdue.edu/provost/initiatives/curriculum/course.html*** *(*Human Cultures: Behavioral/Social Sciences (BSS))
- *SOC 10000 or PSY 12000 are recommended*

[13]SCIENCE SELECTIVE See approved list at: ***http://www.purdue.edu/provost/initiatives/curriculum/course.html*** (Science (SCI))

[14]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*** (Science (SCI))
Verify the course has a lab component in myPurdue Schedule of Classes.

[15]Interdisciplinary Selectives (6 credits)
- Honors courses (HONR)
- Courses that are part of a university recognized non-computing minor
  See http://catalog.purdue.edu/content.php?catoid=10&navoid=13436
  - Suggested minors include: Forensics Science, Law & Society, Psychology
- Foreign language courses that are a pre-requisite to a foreign language minor

OR

- *Choose from the following list of a*dditional approved courses:

ECET 35901 Computer Based Data Acquisition Applications
ENTM 22810 Forensic Investigation
TLI 313 Technology Innovation And Integration: Bar Codes to Biometrics
MGMT 25400 Legal Foundations of Business
MGMT 45500 Legal Background for Business I
PSY 27200 Introduction to I/O Psychology
PSY 31000 Sensory and Perceptual Processes

PSY 34200 Introduction to Psychology of Personality
PSY 35000 Abnormal Psychology
SOC 32400 Criminology
SOC 32700 Crime, Deviance, and the Mass Media
SOC 32800 Criminal Justice
SOC 33800 Global Social Movements

[16]CYBERSECURITY SELECTIVES (6 credits)
CNIT 41500 Advanced Coding Security
CNIT 42100 Mobile Forensics
CNIT 45600 Wireless Security & Management

CNIT 51100 Homeland Security
CNIT 51200 Managing Resources and Applications for Homeland Security

[17]PROFESSIONAL IT EXPERIENCE REQUIREMENT (Complete one of the following options)
- 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)
*A three page reflection paper on what you learned from your experience is required for all options – submit to CIT-Prof-IT@purdue.edu

[9] & [12] are intentionally omitted

myPurduePlan Programming updates

Minimum grade programming for CNIT courses

Don't include EPCS as each project requires faculty approval; advisors will map