

**Program Map: Computer Science Technology-Cyber Security Option  
Engineering Technology Department, College of Science and Technology**

**Name:**  
**Start Date:**

**SID:**  
**Catalog Date:**

**Advisor:**  
**Expected Graduation Date:**

Freshman	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	ENGL 1101*	Composition I Pre-requisite: None	3	ENGL 1102*	Composition II Pre-requisite: ENGL 1101	3	
MATH 1113*	Pre-Calculus Pre-requisite: MATH 1111	3	MATH 2101	Calculus I Pre-requisite: MATH 1113	4		
HUMN 1201	Critical Thinking & Communication Pre-requisite: None	3	PHYS 1111K**	Introductory Physics I Pre-requisite: MATH 1113	4		
COST 1103	COST First Year Experience Pre-requisite: None	2	ELET 3101K	Electric Circuit I Pre-requisite: MATH 1113	4		
CSCI 1130	Computer & its Applications Pre-requisite: None	3					
CSCI 1301	Computer Science I Pre-requisite: MATH 1111	3					
<b>Fall Milestones</b>			<b>Total</b>	<b>Spring Milestones</b>			<b>Total</b>
Students must take MATH 1113 and CSCI 1301 to prevent delay in graduation			17				15

Sophomore	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	MATH 2111	Calculus II Pre-requisite: MATH 2101	4	MATH 2301	Discrete Mathematics Pre-requisite: MATH 1113	3	
PHYS 1112K	Introductory Physics II Pre-requisite: PHYS 1111K	4	ENGT 2101K	Computer Graphics Pre-requisite: MATH 1113	3		
ELET 3301K	Digital Systems I Pre-requisite: ELET 3101K	4	CSCI 2231K	Introduction to UNIX Pre-requisite: CSCI 1301 or CSCI 1371	3		
CSCI 2601K	Information Security Fundamentals Pre-requisite: None	3	CSCI 1302	Computer Science II Pre-requisite: CSCI 1301	4		
<b>Fall Milestones</b>			<b>Total</b>	<b>Spring Milestones</b>			<b>Total</b>
Students must take CSCI 2601K and ELET 3301K to prevent delay in graduation			15				13

Junior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	CSCI 3385K	Computer Network & Design Pre-requisite: CSCI 1301 or CSCI 1371	3	CSCI 4010K	Ethical Hacking and Penetration Testing Pre-requisite: CSCI 2601K	4	
CSCI 3000	Data Structure & Algorithm Pre-requisite: CSCI 1302	3	CSCI 4310	Compiler Construction Pre-requisite: CSCI 3000	3		
ELET 3411K	Microcontrollers Pre-requisite: ELET 3301K	4	CSCI 4210	Database Management Pre-requisite: CSCI 4110	3		
Area C Elective	Pre-requisite: Varies	3	ELET 3412K	Cyber Security and Embedded System Pre-requisite: ELET 3411K	4		
Area C Elective	Pre-requisite: Varies	3					
<b>Fall Milestones</b>			<b>Total</b>	<b>Spring Milestones</b>			<b>Total</b>
Students must take CSCI 3000, ELET 3411K to prevent delay in graduation.			16				14

Senior	Fall Courses			Spring Courses			Notes
	Course	Name	Hours	Course	Name	Hours	
	CSCI 4020K	Mobile Computing Pre-requisite: CSCI 3000	4	CSCI 4622K	Cyber Forensics Pre-requisite: CSCI 4110	4	
CSCI 4110	Operating System Pre-requisite: CSCI 3000	3	MAJOR	MATH Elective Pre-requisite:	3		
Area E Elective	Pre-requisite: Varies	3	AFRS 1501	Survey African American History Pre-requisite: None	2		
POLS 1101	American Government Pre-requisite: None	3	Area E Elective	Pre-requisite: None	3		
ELET 4402K	Network Defense and Counter Measures Pre-requisite: CSCI 3385K	4	HIST 2111 or 2112	U.S. History Pre-requisite: None	3		
<b>Fall Milestones</b>			<b>Total</b>	<b>Spring Milestones</b>			<b>Total</b>
			17				15

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**Core Curriculum (Programmed Preferred Options in Bold)**

Area B – Institutional Options 5 hrs

- i. AFRS 1501 Survey of African-American Experience 2 hrs
- ii. HUMN 1201 Critical Thinking & Communication 3 hrs

Area C – Humanities/Fine Arts, and Ethics 6 hrs,

1. Select one of the following:
  - i. ENGL 2111 World Literature I 3 hrs
  - ii. ENGL 2112 World Literature II 3 hrs
  - iii. ENGL 2121 British Literature I 3 hrs
  - iv. ENGL 2122 British Literature II 3 hrs
  - v. ENGL 2131 American Literature I 3 hrs
  - vi. ENGL 2132 American Literature II 3 hrs
  - vii. ENGL 2222 African American Literature 3 hrs
  - viii. PHIL 2010 Introduction to Philosophy 3 hrs
  - ix. PHIL 2030 Introduction to Ethics 3 hrs
2. Select one of the following:
  - i. ARTS 1101 Introduction to Visual Art 3 hrs
  - ii. DNCE 2010 Dance Appreciation 3 hrs
  - iii. ENGL 2521 Introduction to Film 3 hrs
  - iv. HUMN 2011 Humanities 3 hrs
  - v. MUSC 1101 Introduction to Music 3 hrs
  - vi. THEA 2101 Introduction to Theatre 3 hrs

Area D – Natural Sciences, Math & Technology 10 hrs

1. Select one of the following:
  - i. BIOL 1107 Principles of Biology I 3 hrs
  - ii. BIOL 1108 Principles of Biology II 3 hrs
  - iii. CHEM 1211 Principles of Chemistry I 3 hrs
  - iv. CHEM 1212 Principles of Chemistry II 3 hrs
  - v. CISM 1130 Computer Applications 3 hrs
  - vi. CSCI 1130 Computer Applications 3 hrs**
  - vii. CSCI 1301 Computer Science I 3 hrs
  - viii. ENVS 1140 Environmental Issues 3 hrs
2. Select two of the following lab sciences:
  - i. BIOL 1107/1107L Principles of Biology I 4 hrs
  - ii. BIOL 1108/1108L Principles of Biology II 4 hrs
  - iii. CHEM 1211/1211L Principles of Chemistry 4 hrs
  - iv. CHEM 1212/1212L Principles of Chemistry 4 hrs
  - v. PHYS 1111K Introductory Physics I 4 hrs**
  - vi. PHYS 1112K Introductory Physics II 4 hrs**
  - vii. PHYS 2211K Principles of Physics I 4 hrs**
  - viii. PHYS 2212K Principles of Physics II 4 hrs**

Area E – Social Science 12 hrs

- i. POLS 1101 American Government 3 hrs
2. Select one of the following:
  - i. HIST 2111 U.S. History to the Post-Civil War Period 3 hrs
  - ii. HIST 2112 U.S. History from the Post-Civil War to Pre 3 hrs
3. Select two of the following:
  - i. AFRS 2000 Introduction to Africana Studies 3 hrs
  - ii. ANTH 1101 Introduction to Anthropology 3 hrs
  - iii. ECON 2105 Principles of Macro-Economics 3 hrs
  - iv. GEOG 1101 Introduction to Human Geography 3 hrs
  - v. HIST 1111 World Hist to Early Modern Times 3 hrs
  - vi. HIST 1112 World History Early Modern Times to Pres 3 hrs
  - vii. POLS 2401 Global Issues 3 hrs
  - viii. PSYC 1101 Intro to General Psychology 3 hrs
  - ix. PSYC 2103 Human Growth & Development 3 hrs
  - x. SOCI 1101 Introduction to Sociology 3 hrs
  - xi. SOCI 1160 Social Problems 3 hrs