

<b>Computer, Engineering/Manufacturing Industrial Technologies</b>			
<b>Curriculum Code: 1453 (Effective Fall 2017 – Summer 2022)</b>	<b>Computer Networking and Cybersecurity A.B. Pathway</b>		
<b>Semester I</b>	<b>Course Title</b>	<b>Prerequisites</b>	<b>Credit/ Billing Hours</b>
<b>Math Core Area - <i>Select 1</i></b>			
STAT 170	Introduction to Statistics	(Minimum 2.0 in MATH 105 or MATH 106 or above or Math Level 5) and Reading Level 5 and Writing Level 4	4 / 4
<b>Program of Study Requirements</b>			
CITF 110	Intro Computer Info Systems	Reading Level 4 and Writing Level 4	3 / 3
CITF 140	Information Technology Ethics	Reading Level 5 and Writing Level 6	3 / 3
CITN 120	Networking Concepts	Reading Level 4 and Writing Level 4	3 / 3
CITS 125	Computer Support: A+ Cert Prep	Reading Level 5 and Writing Level 4 and Math Level 3	6 / 6
<b>Credits</b>			<b>19 / 19</b>

Semester II	Course Title	Prerequisites	Credit/ Billing Hours
<b>Writing Core Area - <i>Select 1</i></b>			
ENGL 127 (formerly WRIT 127)	Business Writing	(Reading Level 5 and Writing Level 6) or AASD 105 concurrently	3 / 3
<b>Program of Study Requirements</b>			
CITF 240	IT Project Management	Minimum 2.0 in (CITF 110 or CITF 200) and Reading Level 4 and Writing Level 4	3 / 3
CITN 220	Introduction to Networks	Minimum 2.0 in CITS 125 and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
CITN 225	Routing & Switching Essentials	Minimum 2.0 in (CITN 220 within 2 years or concurrently) and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
CITP 110	Intro to Computer Programming	Reading Level 5 and Math Level 4	4 / 4
			<b>Credits</b>
			<b>16 / 16</b>
Semester III	Course Title	Prerequisites	Credit/ Billing Hours
<b>Program of Study Requirements</b>			
BUSN 118	Introduction to Business	(Reading Level 5 and Writing Level 4) or AASD 105 concurrently	3 / 3
CITF 120	Operating Systems Concepts	Reading Level 5	3 / 3
			<b>Credits</b>
			<b>6 / 6</b>

Semester IV	Course Title	Prerequisites	Credit/ Billing Hours
<b>Science Core Area - <i>Select 1</i></b>			
ISCI 131	Integrated Physical Science	Reading Level 5 and Writing Level 6 and Math Level 4	4 / 6
<b>Program of Study Requirements</b>			
CITN 230	Linux/UNIX Operating System	Minimum 2.0 in (CITF 120 and (CITN 220 or CITS 225)) and Reading Level 5 and Writing Level 6 and Math Level 3	3 / 3

<b>Additional Computer Courses - <i>Select 2</i></b>			
CITN 222	Wireless Networking & Security	Minimum 2.0 in CITS 125 and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
CITN 228	VoIP Fundamentals	Minimum 2.0 in CITN 225 and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
CITN 240	Scaling Networks	Minimum 2.0 in (CITN 225 within 2 years) and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
CITN 244	Securing Networking Devices	Minimum 2.0 in CITN 225 and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
CITN 245	Connecting Networks	Minimum 2.0 in (CITN 240 within 2 years or concurrently) and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
CITN 295	CCNA Review	Minimum 2.0 in CITN 245 and Reading Level 5 and Writing Level 6 and Math Level 4	3 / 3
CITS 285	IT Professional Internship	Department Approval	2-3 / 2-3
			<b>Credits</b>
			<b>12-13 / 14-15</b>

Semester V	Course Title	Prerequisites	Credit/ Billing Hours
<b>Program of Study Requirements</b>			
CITN 250	Microsoft Network Server	Minimum 2.0 in (CITF 120 and (CITN 220 or CITS 225)) and Reading Level 5 and Writing Level 6 and Math Level 3	3 / 3
CITN 280	IT Security Foundations	Minimum 2.0 in (CITN 220 or CITS 225) and Reading Level 5 and Writing Level 6 and Math Level 3	3 / 3
<b>Communication Core Area - <i>Select 1</i></b>			
COMM 110 <i>(formerly SPCH 110)</i>	Oral Comm in the Workplace	(Reading Level 5 and Writing Level 6) or AASD 104 concurrently	3 / 3
COMM 120 <i>(formerly SPCH 120)</i>	Dynamics of Communication	Reading Level 5 and Writing Level 6	3 / 3
COMM 130 <i>(formerly SPCH 130)</i>	Fund of Public Speaking	Reading Level 5 and Writing Level 6	3 / 3
<b>Global Perspectives and Diversity Core Area - <i>Select 1</i></b>			
MGMT 234	Diversity in the Workplace	Reading Level 5 and Writing Level 6	3 / 3
			<b>Credits</b> <b>12 / 12</b>
			<b>Total Credits</b> <b>65-66 / 67-68</b>