

# Perspectives on Stackable Certificates

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# Today's Topics

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- Why are stackables appealing to students?
- What makes stackables effective for programs?
- How do colleges develop and implement stackables?

# Definition

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- The U.S. Department of Labor definition –  
a stackable credential is “a sequence of credentials that can be accumulated over time to build up an individual’s qualifications and help them to move along a career pathway or up a career ladder to different and potentially higher-paying jobs.”
- Building blocks where each earned short-term credential builds into a higher-level credential.

<https://higherlearningadvocates.org/resource/publications/stackable-credentials-background/>

<https://wdr.doleta.gov/directives/attach/TEGLI5-10.pdf>

# Definition

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- “Stackable” conjures up Lego blocks and the metaphor of assembly
- Degrees are no longer a single monolithic thing

<https://www.nytimes.com/2019/02/22/education/learning/stackable-degree-continuing-education.html>

# Lansing Community College

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- 12 stackable pathways that range from 16 to 34 credits
- Stackables could lead to 5 different degrees

# Lansing - Cisco Certified Network Stackable

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## **REQUIRED**

- \* CITN 220 - Introduction to Networks - 3 credits
- \* CITN 225 - Switch Route Wireless Essentials - 3 credits
- \* CITN 240 - Intro Network Security Automation - 3 credits
- \* CITS 125 - Computer Support A+ Cert Prep - 6 credits

## **PROGRAM OF STUDY REQUIRED COURSES (Choose 1)**

- \* CITN 120 - Networking Concepts - 3 credits
- \* CITN 222 - Wireless Networking & Security - 3 credits
- \* CITN 224 - Securing Networking Devices - 3 credits

• TOTAL CREDITS = 18

•→ **Networking and Cybersecurity Degree, AB**

# Lansing - Computer Programmer/Analyst

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## **REQUIRED**

- \* BUSN 118 - Introduction to Business - 3 credits
- \* CITD 120 - SQL Concepts - 2 credits
- \* CITF 120 - Intro to Computer Info Systems - 3 credits
- \* CITP 110 - Intro to Python Programming - 4 credits
- \* CITW 150 - Internet Literacy - 3 credits

## **PROGRAM OF STUDY REQUIRED COURSES (Choose 1)**

- \* CITP 150 - Intro to VB.NET Programming - 4 credits
- \* CITP 180 - Intro to C#.NET Programming - 4 credits
- \* CITP 190 - Intro to Programming in JAVA - 4 credits
- TOTAL CREDITS = 19

→ **Computer Programmer/Analyst, AB**

# Lansing - Other Stackables

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- Computer Security and Controls (25 credits) → Networking and Cybersecurity Degree,AB OR Computer Support Technician,AAS
- Computer Software Tester (33 credits) → Computer Programmer/Analyst,AB
- Computer Technician (31 credits) → Computer Support Technician,AAS
- Computer Technology Basics (22 credits) → Computer Support Technician,AAS
- E-Business (32 credits) → E-Business,AB
- Information Technology Foundations (19 credits) → Networking and Cybersecurity Degree,AB OR Computer Support Technician,AAS
- IOT Specialist (33 credits) → Networking and Cybersecurity Degree,AB OR Computer Support Technician,AAS
- Microsoft Office Specialist (21) → Computer Support Specialist,AB
- Mobile Application Developer (34 credits) → Computer Programmer/Analyst, AB
- Web Site Developer (16 credits) → E-Business,AB



# Lansing - Current Pros/Cons for Stackables

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- **PROS**

- Students have choices
- Earn skills to get a job in a timely manner
- Upskill or reskill based on industry need
- “Easy” for the college to create

- **CONS**

- Auditing/Reporting – not automated
- 100% Student success – stackables don't count
- Advisor confusion

# Lansing - The Future

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- Upskill – learn new skills that can apply to current role or advanced to a related position
- Reskill – learn new skills to take on an entirely new job or profession
- Micro-degrees/Industry Certificate stacking – By completing a series of education and small training programs student can earn industry certifications in a relative short time period.

# Sinclair Community College

Secure Systems Administration Degree (61 Credits)					
		Certificate	Certificate	Certificate	Certificate
Course Title	Credit Hours	Information Systems Security (15 Credits)	IT Fundamentals (18 Credits)	Linux Security & Network Essentials (12 Credits)	Microsoft Certified Solutions Associate (18 Credits)
COMPLEX REQUIREMENT {ACC 1100 OR ACC 1210}	3				
BIS1120 - Introduction to Software Applications	3		X		
CIS1107 - Introduction to Operating Systems	3	X	X	X	X
CIS1111 - Introduction to Problem Solving & Computer Programming	3		X		
CIS1130 - Network Fundamentals	3	X	X	X	X
CIS1140 - Information Systems Analysis & Design	3		X		
CIS2165 - Database Management	3		X		
CIS2510 - Microsoft Windows Server Operating System	3	X			X
CIS2515 - Windows Network Infrastructure	3				X
CIS2520 - Windows Directory Services Administration	3				X
CIS2550 - Linux Operating System	3			X	
CIS2630 - Securing a Windows Network Environment	3	X			
CIS2640 - Network Security	3	X		X	X
COM2225 - Small Group Communication	3				
ECO2160 - Principles of Macroeconomics	3				
ENGL1101 - English Composition I	3				
MAN2150 - Management & Organizational Behavior	3				
Ohio Transfer Module: Arts & Humanities Elective	3				
SCC1101 - First Year Experience	1				
COMPLEX REQUIREMENT {CIS 2178 OR CIS 2170}	3				
COMPLEX REQUIREMENT {MAT 1120 OR Ohio Transfer Module: Mathematics Elective}	3				

# Florida State College at Jacksonville

	AS Degree Core classes	Network Support Technician CCC - 16 credits	Network Infrastructure CCC- 21 credits	Advanced Network Virtualization CCC 34 Credits	Digital Forensics CCC - 32 credits	Microsoft Advanced Server- 29 credits
<b>General Education</b>	<b>15</b>					
<b>Core</b>						
CTS 1131 - Hardware Configuration	3	3	3	3	3	3
CTS 1133 - Software Configuration	3	3	3	3	3	3
CET 2600 - Network Fundamentals	3		3			
CTS 2655 - Routing and Switching Fundamentals	4		4			
CNT 1015 - Operating Systems Foundations	3				3	
CTS 1334 - Server Configuration (410)	4	3		4		4
CTS 1120 - Fundamentals of Information Security	3				3	
CTS 1154 - Technical Support	3	3				
CNT 2942 Internship	2					
Total Credits from Core	<b>28</b>	<b>12</b>	<b>13</b>	<b>10</b>	<b>12</b>	<b>10</b>
<b>Professional Electives</b>						
CNT 2102 - Advanced Routing and Switching (Cisco 3)			4			
CNT 2210 - WAN Fundamentals (Cisco 4)			4			
CTS 2317 - Advanced Information Security					4	
CET 2662 - Computer Hacking and Incident Handling					4	
CAP 2140 - Data Forensics I					4	
CAP 2141 - Data Forensics II					4	
CNT 2404 - Intrusion Detection Systems and Auditing					4	
CTS 2371 - Virtual Infrastructure: Deployment and Security				4		
CTS 2370 - Virtual Infrastructure: (VMware 1)				4		
CTS 2372 - Virtualized Server Implementation I				4		
CTS 2411 Information Storage Management (ISM)				4		
CTS 2302 Server Administration (411)				4		4
CTS 2303 Configure Advanced Server Services (412)						4
CTS 2304 Server Infrastructure (413)						4
CTS 2305 Advanced Server Infrastructure (414)						4
CTS 2306 Server Capstone						4
Total Credits from Electives or CCC		<b>0</b>	<b>8</b>	<b>20</b>	<b>20</b>	<b>20</b>
Credits Available for Additional Core and Electives		<b>33</b>	<b>24</b>	<b>15</b>	<b>13</b>	<b>15</b>
Total Credits needed for Program	<b>60</b>					

# Florida State College at Jacksonville

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[Link to FSCJ Programs](#)



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# Thank you!

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Fall 2018 presentation on stackables:

[nationalctc.nationalctcwiki.org/recruitment\\_retention\\_and\\_marketing](http://nationalctc.nationalctcwiki.org/recruitment_retention_and_marketing)

## Please take the five-question survey



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