

2019-2020 Course Catalog



Urban Ed, Inc.
2041 MLK Jr. Ave, SE, Suite M-2
Washington, DC 20020
202-610-2344
www.urbaned.org



Cisco Networking Academy®



CompTIA Education to Careers Academy®



Course Catalog - Table of Contents

About Urban Ed - Building Community	6
About the STEM Acad - Get Ready to Work	7
Enroll in a Course	7
Explore the Possibilities	8
Career Pathways to Today’s IT Jobs	9
Career Pathway Descriptions	9
<i>Industry Classification: Hardware, Services & Infrastructure</i>	10
<i>Industry Classification: Networking & Cloud Technologies</i>	10
<i>Industry Classification: Information Security</i>	11
<i>Industry Classification: Software Development</i>	11
Courses of Study Summary & Scheduling.....	12
Enrollment Requirements	13
Tuition And Fees	17
Payment Options	18
Student’s Right To Cancel.....	18
Refund Policy.....	18
Financial Assistance	19
Courses - Prerequisites.....	20
Introduction to Cybersecurity	20
<i>Course Details</i>	21
<i>Curriculum Objectives</i>	21
<i>Curriculum Outline (Intro Cybersecurity)</i>	21
<i>Required Textbook/Materials – Introduction to Cybersecurity</i>	22
<i>Specific Details</i>	23
Courses - Prerequisites.....	24
IT Essentials (A+).....	24
<i>Course Details</i>	25
<i>Curriculum Description</i>	25
<i>Curriculum Objectives</i>	25
<i>Curriculum Outline (CompTIA 1000 series)</i>	26



Required Textbook/Materials – IT ESSENTIALS31

Specific Details32

Courses – Cloud33

Amazon Web Services (AWS) Cloud Practitioner Essentials.....33

Course Details34

Curriculum Description34

Curriculum Objectives34

Curriculum Outline (AWS Cloud Essentials)35

Required Textbook/Materials – AWS Cloud Practitioner Essentials36

Specific Details36

Courses – Cloud37

Amazon Web Services (AWS) Cloud Computing Architecture37

Course Details38

Curriculum Description38

Curriculum Objectives38

Curriculum Outline (AWS Cloud Computing Architecture).....39

Required Textbook/Materials – AWS Cloud Computing Architecture.....40

Specific Details40

Courses – Cloud41

Salesforce Certified Administrator41

Course Details42

Curriculum Description42

Curriculum Objectives42

Curriculum Outline (Salesforce Administrator).....44

Required Textbook/Materials – Salesforce Administrator49

Specific Details50

Courses - Cisco51

CCENT (Cisco Certified Entry Level Technician) 51

Course Details52

Curriculum Description52

Curriculum Objectives 53



Curriculum Outline (Cisco CCENT).....54

Required Textbook/Materials - CCENT.....55

Specific Details56

Courses - Cisco.....57

CCNA Routing & Switching (Cisco Certified Network Associate R&S) 57

Course Details58

Curriculum Objectives.....58

Curriculum Outline (Cisco CCNA)60

Required Textbook/Materials – CCNA R&S.....61

Specific Details61

Courses - Cisco.....62

CCNA Security (Cisco Certified Network Associate Security)..... 62

Course Details63

Curriculum Objectives.....63

Curriculum Outline (Cisco CCNA Security)64

Required Textbook/Materials – CCNA Security66

Specific Details67

Courses - Programming.....68

NDG Linux Essentials 68

Course Details69

Curriculum Objectives.....69

Curriculum Outline (NDG Linux Essentials).....70

Required Textbook/Materials – Linux Essentials.....71

Specific Details71

Courses - Programming.....72

NDG Linux I & II..... 72

Course Details73

Curriculum Objectives.....74

Curriculum Outline (NDG Linux I & II).....75

Required Textbook/Materials – Linux I & II77

Specific Details 78



Cisco Networking Academy®

aws educate

CompTIA Education to Careers Academy®



Courses - Programming.....79

CPA: Programming Essentials in C++ 79

Course Details80

Curriculum Objectives.....80

Curriculum Outline (C++ Programming Essentials)81

Required Textbook/Materials – Programming Essentials in C++.....83

Specific Details83

Courses - CompTIA.....84

CompTIA Network+ 84

Course Details85

Curriculum Description85

Curriculum Objectives.....85

Curriculum Outline (CompTIA Network+).....86

Required Textbook/Materials – Network+90

Specific Details90

Courses - CompTIA.....91

Security+ 91

Course Details92

Curriculum Description92

Curriculum Objectives.....92

Curriculum Outline (CompTIA Security+).....93

Required Textbook/Materials – Security+95

Specific Details95

Courses - Career Enhancement.....96

Help Desk Institute-Customer Service Representative (HDI-CSR) 96

Course Details97

Curriculum Description97

Curriculum Objectives.....97

Curriculum Outline (HDI-CSR).....98

Required Textbook/Materials – HDI-CSR100

Specific Details100



Cisco Networking Academy®



CompTIA Education to Careers Academy®



Courses - Career Enhancement.....101

IT Infrastructure Library (ITIL) Foundation 101

Course Details102

Curriculum Description102

Curriculum Objectives.....102

Curriculum Outline (ITIL Foundation 2016 Edition)103

Required Textbook/Materials – ITIL Foundation106

Specific Details107

Online Learning System Requirements 108

Meet Urban Ed’s Faculty and Career Support Team110

Meet Urban Ed’s Board of Directors113



Cisco Networking Academy®

aws educate

CompTIA Education to Careers Academy®



About Urban Ed- Building Community

In September 2015, Urban Ed started the expansion of our IT training to scale it up, broaden our reach and impact more lives. Part of our strategy to do this was to partner with Cisco Systems who has been a force for change in the global economy since 1997, enhance on our existing partnership with Skillsoft Corporation and develop a new partnership with Amazon Web Services (AWS) in 2017.

Urban Ed is now a Cisco Networking Academy partner becoming part of more than 9,000 institutions in 170+ countries that prepares students for successful careers in a connected world.

Skillsoft provides cloud-based learning solutions to a customer base ranging from high-end global enterprises, higher education and the federal government to mid-sized and small businesses. They currently serve over 6,000 customers with more than 19 million learners worldwide and have supported Urban Ed for over 10 years.

With the increasing demand for cloud employees, AWS Educate provides an academic gateway for the next generation of IT and cloud professionals. AWS Educate is Amazon's global initiative to provide students and educators with the resources needed to accelerate cloud-related learning endeavors. Urban Ed is aligning with Amazon to open up a powerful career pathway to the number of cloud jobs in demand.

Urban Ed is grounded in neighborhoods most in need and serving those with multiple barriers and challenges to employment, yet have a strong desire to navigate entry into the high-paying IT field. Located in the Anacostia neighborhood in the District of Columbia, Urban Ed's mission is to provide District of Columbia children, youth and adults with technology-driven education, information and skill development for sustained futures.

We carry out our mission by addressing current community issues and getting to root causes by working with young/adults, teens, middle school youth and our Lil Bitties (children 5-7 years of age). Technology education is central to everything we do at Urban Ed.



Cisco Networking Academy®

aws educate

CompTIA Education to Careers Academy®



About the STEM Acad- Get Ready to Work

Urban Ed's **STEM Acad** prepares students for a rewarding career in a connected world. We help students learn what they need to know to become certified and go to work.

- **Courses:** Study the latest networking, security, and cloud technologies and practice what students learn via hands-on labs and using simulation tools.
- **Certification:** Prepare for a professional certification recognized by employers worldwide.
- **Career Pathways:** Connect to a global community of employers and alumni to find a job.

We offer both classroom and online courses covering entry-level and associate-level Cisco certification content as well as AWS & CompTIA certification content. Urban Ed is an approved Cisco Networking Academy, an AWS partner, and an authorized CompTIA Education to Careers Academy giving the organization an elite advantage over most community-based schools. Urban Ed is also an authorized Pearson Vue global testing center where students can take their industry exam onsite at our facility.

Urban Ed is located within the Anacostia Professional building with a state of the art 2300 square foot facility. We have two computer labs with the latest technology to include virtualization and touch screen technology.

Urban Ed's **STEM Acad** is licensed under DC Law 1-104 Higher Education Licensure Commission, Title 38, Chapter 13.

Enroll in a Course

Through our partnerships with the AWS, Cisco and CompTIA academies, Urban Ed works with educators and employers worldwide to identify job trends and shape local programs like our **STEM Acad** to get students hired. Most courses of study fall between a 3 to 12 week period with students meeting at least 3 days a week for classroom training and at a guided pace for online learning. See the courses schedule on page 12 for exact timeframes. Generally the **STEM Acad** program has three course terms throughout the year, a winter, spring and fall term. These terms are as follows:

- Winter term (second Tuesday in Jan)
- Spring term (first Tuesday in May)
- Fall term (first Tuesday in Sep or Oct)
- *Check the schedule for other possible terms & changes*
- *Online courses are ongoing*

Join the elite team by taking a course at Urban Ed's **STEMAcad**. Before taking any course at Urban Ed, learners should have the minimum prerequisites:

- Basic computer literacy
- Basic Internet usage skills
- Basic PC operating system navigation skills
- GED/HS Diploma
- Currently only local District-Maryland-Virginia (DMV) resident applications accepted

See pages 13-16 for more details on enrollment requirements and eligibility.

Explore the Possibilities

The next wave of innovation will create many opportunities for creative, tech-savvy people everywhere. Whether students have always been passionate about technology or just discovered IT, for those who sign up – their future starts here.



Career Pathways to Today's IT Jobs

Each year thousands of jobs go unfilled because employers cannot find skilled talent. There are plenty of employment opportunities in the DC area. Let Urban Ed help you get started on a path to these jobs. Review this course catalog to learn more about the courses that map to strong career pathways.



Career Pathway Descriptions

Certification/Certificate Courses currently offered at Urban ED

- ✓ AWS Cloud Practitioner
- ✓ AWS Solutions Architect-Associate
- ✓ CCENT
- ✓ CCNA Routing & Switching
- ✓ CCNA Security
- ✓ CPA: Essentials in C++
- ✓ HDI-CSR
- ✓ Intro to Cybersecurity
- ✓ IT Essentials (A+)
- ✓ ITIL
- ✓ NDG Linux Essentials
- ✓ NDG Linux I & II
- ✓ Network +
- ✓ Salesforce Administrator
- ✓ Security +

Industry Classification: Hardware, Services & Infrastructure

Career → Technical Support

Students that like fixing things, are constantly learning, and appreciate an elegant solution to a complex problem, might like jobs in tech support. Support providers are good at solving problems, friendly, and easy to talk to. People who work in support become experts in their product or support area so it's a good path to advancement. Their default expression is a smile.

Job Titles:

Help Desk Operator, Support Technician, Support Engineer, Network Support Technician, Network Support Engineer

Courses:

- ✓ IT Essentials (A+)
- ✓ CCENT
- ✓ CCNA
- ✓ HDI-CSR

Industry Classification: Networking & Cloud Technologies

Career → Network & Systems Administration

People who see the big picture and care about the details are systems thinkers. Systems may include any combination of computers, devices, software, networks, as well as people, business functions and operations. Be ready to communicate plans, collaborate with colleagues, create a budget, and build a team.

Job Titles:

Network Administrator, Network Designer, Network Engineer, Solution Provider, Cloud Architects, DevOps Engineer, Solution Architects, Cloud Practitioner Associate

Courses:

- | | |
|-------------------|------------------------|
| ✓ AWS | ✓ NDG Linux Essentials |
| ✓ CCENT | ✓ NDG Linux I & II |
| ✓ CCNA | ✓ Network + |
| ✓ ITIL Foundation | ✓ Salesforce Admin |