



ETHS VIRTUAL CAREER INFORMATION SESSION 2020-2021

Information Technology

Career Panel Speakers

- Ngozi Watts – Google
- Craft Jack – Founder Noah Mishkin
- Linnea Latimer- NU Systems Analysis
- Wallscott Solutions- Founder Bryant Wallace
- Oakton Community College
- Youth Job Center – Ms. Frazier





ETHS Course Selection

- Introduction to Computer Programming
- Introduction to Computer (women in programming)
- Game Design & Programming
- Information Technology Internship
- AP Computer Science Principles
- Cybersecurity
- Web Design
- Tech Apps for Young Adults



ETHS Career Panel - IT Focus Games & Cloud Technologies



Ngozi Watts, JD/MBA

Unity and Google Cloud



Ngozi's Background

<https://www.linkedin.com/in/ngoziwaatts/>

Northwestern - Engineering and Law Schools

University of Michigan - MBA

Daughter (Zari - ETHS Class of 2014) and Son (Ngozi - ETHS Class of 2016)



Let's Chat Careers in Gaming

- ❖ Have you thought about these eight careers in gaming?
 - Games Designer. Are you brimming with ideas for video games? ...
 - Software Developer and Game Programmer. ...do you like writing code
 - Audio Engineer...is music production or creation your thing
 - Games Animator. ...
 - Games Artist. ...do you like 2D or 3D
 - Interpreters and Translators. ...are you bi-lingual
 - Game Play Tester. ...do you like playing and thinking of improving Games
 - Professional Gamer...better be as good as LeBron James at Bball to excel here :-)

Careers in Cloud Computing

- ❖ Ever considered pursuing a Professional Certification to get a job instead of going to college for four (4) years and amassing a lot of debt?
- ❖ There is a lot of value in a college education but there are other potential options
 - Here are Three (3) to consider:
 - AWS Cloud Practitioner
 - <https://aws.amazon.com/certification/certified-cloud-practitioner/>
 - Google Certified Professional Cloud Architect
 - <https://cloud.google.com/certification>
 - Microsoft Certified: Azure Fundamentals
 - <https://docs.microsoft.com/en-us/learn/certifications/azure-fundamentals>



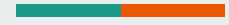
Cloud Certified Careers...

How Much Money Can I Make?

According to the 2020 [Global Knowledge report](#), the top-paying cloud certifications for the year are (drumroll, please):

- Google Certified Professional Cloud Architect — \$175,761
- AWS Certified Solutions Architect - Associate — \$149,446
- AWS Certified Cloud Practitioner — \$131,465
- Microsoft Certified: Azure Fundamentals — \$126,653
- Microsoft Certified: Azure Administrator Associate — \$125,993

Source: <https://acloudguru.com/blog/engineering/what-are-top-paying-cloud-certifications-for-2020>



Questions



CRAFTJACK

My Story

- Former architect turned digital and social entrepreneur specializing in creative marketing, user experience, product ideation, and strategic leadership.
- Founder and co-founder of several consumer products and digital marketing brands, is a founding investor and mentor of various start-up companies, ranging from feature film, software technology, social media, sporting goods, to wine manufacturing and distribution.

“ WE LOOK FOR
SKILLED
COMMUNICATORS &
CREATIVE
THINKERS WHO THRIVE
ON WORKING TOWARDS
SUCCESS.”

NOAH MISHKIN
CRAFTJACK | FOUNDER
& VP OF OPERATIONS



The CraftJack Story



Northwestern Information Technology

Data Management & Analytics

About Me 😊

My name is Linnea Latimer. I am a lifelong, proud Evanstonian; raised in the 5th ward.

Educational background includes Finance and Information Technology.

Systems Analyst for Northwestern University.

Community activist and advocate.

I am motivated by the next generation of leaders and aspire to create an environment that will foster their personal growth and development.

NIT Organization & Mission

The mission of Northwestern University Information Technology (NIT) is to support the University in meeting its strategic and operational objective through leadership and support of appropriate information technology solutions and services.

Alignment

With the University plans and objectives.

Developing relationships

With schools, departments, and other Northwestern organizations; faculty, students, staff, and community members within them.

Collaboration

Fostering close, transparent collaboration with other campus IT and service providers.

Partnerships

Partnering with other universities, and external organizations and businesses with similar objectives.

Innovation

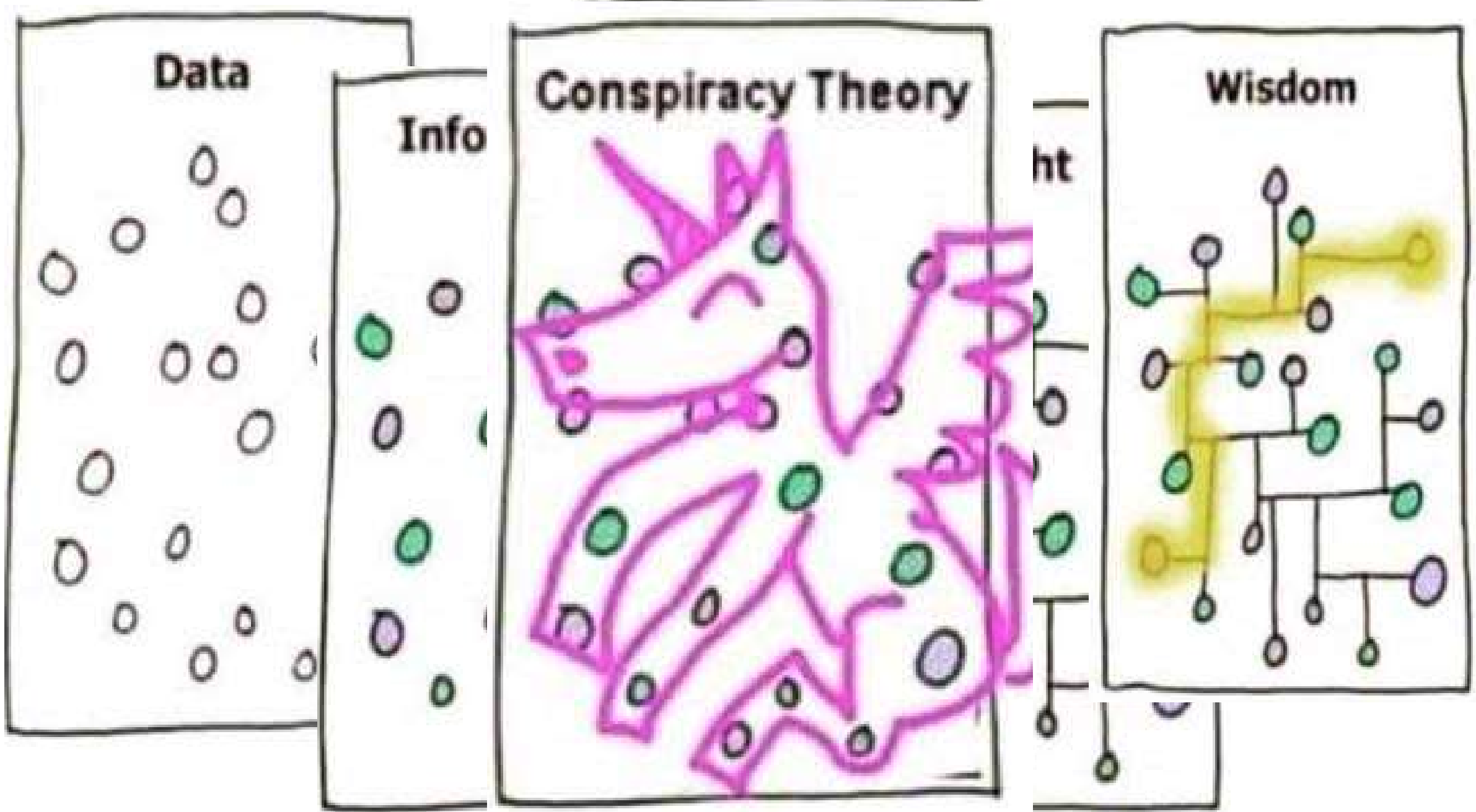
Fostering and supporting innovation in solutions.

Human Resources

Developing HR to ensure we are leaders in understanding, deploying, and supporting current and future information technology solutions to support Northwestern's competitiveness, influence, and reputation.

Sustainability

Responsibly and effectively using University resources.



Data

Info

Conspiracy Theory

Wisdom

ht

Opportunities & Alternate Career Paths

Northwestern | BOOT CAMPS

– www.bootcamp.northwestern.edu

Northwestern | SCHOOL OF
PROFESSIONAL STUDIES

• www.sps.northwestern.edu/pre-college

Questions & Unsolicited Advice

Do not be afraid to ask questions.

Do not apologize for being at the table.

Always think outside the box.

Be curious.

Never stop learning.

Do not be afraid to ask for help.

Challenge the status quo.

Learn how to deal with difficult people.

Contact Information

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<https://www.linkedin.com/in/linnea-latimer>

Cyber Security

MORE THAN TECHNOLOGY!



WallScott Solutions
Strategic IT Service Provider

Bryant O.C. Wallace



- CEO Founder of WallScott Solutions 1999
- Microsoft Certified Systems Engineer 1997
- STEM Speaker
- Volunteer at ETHS Youth Technology Club (YTC)



Soft Skills:

- Active listening and clear verbal and written communication
- Attention to detail
- Humility and the curiosity to seek new skills and information
- Creative and technical problem solving
- Adaptability and a team mindset
- Radiating calm when it feels like a storm

Technical Skills:

- Explain technical topics
- Computer science fundamentals
- Pick up a subfield and become an expert in it
- Know at least one programming or scripting language
- Being familiar with the attack tools/techniques
- Information management



THANK YOU



WallScott Solutions
Strategic IT Service Provider

Reza Dai

Chair, Computer Networking & Systems

Distinguished Professor, Electronics, Local Area Networks & Mathematics

Oakton Community College

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CompTIA Career Roadmap

What Is a Career Path Planning Tool?

CompTIA's IT career path planning tool helps you visualize your next move from beginner to intermediate to advanced IT jobs within five categories:

- [IT Support](#)
- [IT Networking](#)
- [Cybersecurity](#)
- [Software and Web Development](#)
- [Data Analytics](#)

On the overview page, you see five IT pros in different beginner roles for their specialties. But when you click on the box with their title, you get more details about that role. Let's click through the IT support pathway to see what could be in store for you if you're an IT support specialist, [help desk technician](#) or similar tech support role.

Your Next Move: IT Support Specialist

An IT support specialist installs software, sets up computer workspaces and solves technical issues. According to the roadmap, the median national salary for an IT support specialist is \$50,981, and there are approximately 230,000 job postings each year. The job is expected to grow by 13% from 2018 to 2028. And this is all on that first page of the road map. By clicking the red button that says Learn More, you can begin to visualize what your IT support career might look like.



IT Networking Specialists



What is an IT Networking Specialist?

IT Networking Specialist analyze, troubleshoot and evaluate computer network problems. More advanced IT pros may be responsible for building and designing communication networks as well. They play an important role in maintaining an organization's network and keeping them safe and secure through both hardware configuration and end-user training. Network specialists and administrators are responsible for day-to-day operations and network architects and engineers design and build local area networks (LANs), wide area networks (WANs), and Intranets. Depending on the size of the company, these roles may be combined.

Experience Level	Beginner	Intermediate	Advanced
Median annual salary*	\$61,294	\$74,304	\$85,053
Job Postings*	23,239	56,666	28,555

IT Networking Specialists

Job Titles

- IT Specialist
- Network Support Technician
- Jr. System Administrator

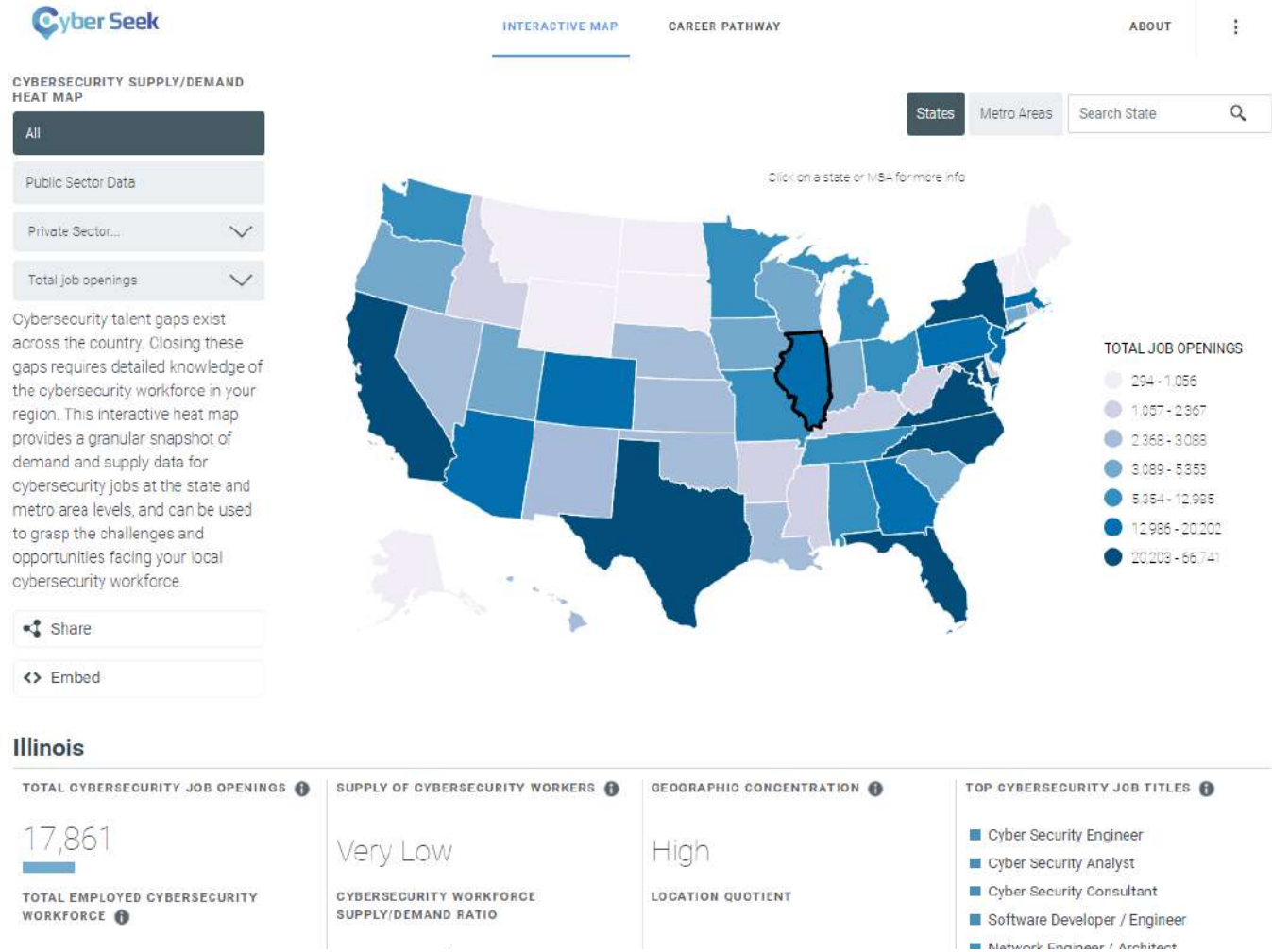
[Other IT Jobs You Can Get With Certifications](#)

Required skills at this level

- Make data easily accessible to those who need it
- Connect devices to the network and ensure they function properly and securely
- Ensure a secure transfer of data over internal and external networks
- Back up network data
- Evaluate and optimize network performance
- Document network support activities
- Provide end-user support



Cybersecurity Supply/Demand Heatmap



IT Academies at Oakton

- Cisco Academy
- Microsoft Academy
- CompTIA Academy
- RedHat Academy
- Palo Alto Acedmy
- Vmware IT Academy



Computer Information Systems

John Stryker

Distinguished Professor and Chair, Computer Technologies and
Information Systems, Oakton Community College

Co-Coordinator, Computer Information Systems Program

Computer Information Systems



Covers many different areas of computer studies

- Programming/Software Development
- Web Development
- Databases
- PC Support
- IT Project Management
- Management Information Systems

Computer Information Systems



- Certificate
 - Offered by educational institution
 - Represents a completed course of study
 - “Mini-Diploma”
- Certification
 - Offered by a third party (vendor or independent organization)
 - Represents passing an exam or exams
- Which is better?
 - Depends on prospective employer’s views
 - Best: both!

Stackable Credentials

- First earn a shorter certificate to gain a skill
- Continue your studies while you work
- Can eventually build into Associates Degree





Web Site Developer Certificate

Web Site Developer Certificate

16 Semester Credit Hours; Curriculum: 0463

Courses for a Certificate:

Credit Hours

ART 259 Introduction to Web Design 3

CIS 131 Web Page Development 4

CIS 148 Introduction to Database-Driven Web Sites 3

CIS 152 Web Development Tools 3

Additional Web-related courses in CIS; contact an academic advisor for a list of acceptable courses 3

Total Semester Credit Hours for Certificate: 16

Web Site Support and Maintenance Certificate



Web Site Support and Maintenance Certificate

28 Semester Credit Hours; Curriculum: 0460

Courses for a Certificate:	Credit Hours
CAB 140 Database Applications Using Access	3
CAB 172 Adobe Photoshop	3
CIS 111 Fundamentals of the Internet	2
CIS 131 Web Page Development	4
CIS 148 Introduction to Database-Driven Web Sites	3
CIS 152 Web Development Tools	3
CIS 171 Advanced Web Page Development	3
CIS 214 Web Site Maintenance and Management	4
Additional Web-related courses in CIS, ART, CAB, CNS, EGL, and MKT; contact an academic advisor for a list of acceptable courses	3
Total Semester Credit Hours for Certificate:	28

Advanced Web Site Developer Certificate



Advanced Web Site Developer Certificate*

41 Semester Credit Hours; Curriculum: 0461

Courses for a Certificate:	Credit Hours
CAB 140 Database Applications Using Access	3
CIS 111 Fundamentals of the Internet	2
CIS 131 Web Page Development	4
CIS 152 Web Development Tools	3
CIS 171 Advanced Web Page Development	3
CIS 180 Introduction to Visual Basic .NET Programming or CIS 211 Java Programming	4
CIS 188 Active Server Pages	4
CIS 214 Web Site Maintenance and Management	4
CIS 232 Web Scripting	4
CIS 248 Web Database Management	4
One course from: CSC 155, CSC 156, or CSC 157	3
Additional Web-related courses in CIS, ART, CAB, CNS, EGL, and MKT; contact an academic advisor for a list of acceptable courses	3
Total Semester Credit Hours for Certificate:	41

**Prior to pursuing this certificate, it is strongly recommended that students have taken a computer literacy course (e.g., CIS 103) or a software applications course (e.g., CAB 130, CAB 135) or possess equivalent knowledge. Credits earned in these courses may not be applicable to this certificate. Consult the coordinator for further information.*

Computer Programmer AAS, Web Track



Associate in Applied Science Degree*

Computer Programmer

63 Semester Credit Hours; Curriculum: 0120

General Education Requirements: (see pages 34-36 for more information)	Credit Hours
Area A — Communications	
EGL 101	3
One course from EGL 102, EGL 111, EGL 211, EGL 212, SPE 103 (EGL 111, EGL 212, or SPE 103 recommended)	3
Area B — Mathematics	6
Courses from Area B (Mathematics) (MAT 111 or higher required. MAT 111 recommended)	
Area C — Science (No course needed)	0
Area D — Social and Behavioral Sciences	3
One course from a social or behavioral science discipline (PSY 221 recommended)	
Area E — Humanities/Fine Arts	3
One course from a humanities or fine arts discipline	
Area F — Global Studies**	0-3
One course that satisfies Global Studies requirement	
Area G — U.S. Diversity Studies†	0-3
One course that satisfies U.S. Diversity Studies requirement	
Total General Education Requirements:	18

Major Requirements:

CIS 101 Introduction to Computer Information Systems	3
CIS 131 Web Page Development	4
CIS 143 Introduction to SQL	3
CIS 201 Information Systems for Business	3
CIS 204 Introduction to Systems Analysis and Design	3
CIS 241 Database Management	3
CAB 140 Database Applications Using Access	3
CNS 105 Networking Fundamentals or any higher-numbered CNS course	3
One course from: CSC 155, CSC 156, or CSC 157	3
Non-programming elective component: One course from CIS 203, CIS 205, or CIS 251	3
Courses to total a minimum of 14 semester credit hours within one of the following tracks:	14

Web Developer Track

Programming language elective	3-4
CIS 214 or CIS 232 or a course approved by the program coordinator	
CIS 171 Advanced Web Page Development	4
CIS 188 Active Server Pages	4
CIS 248 Web Database Management	4

Total Semester Credit Hours for Associate in Applied Science Degree: 63

Discover Oakton Community College

Office of Admission

admissions@oakton.edu



Degree Options: 80 + programs of study



Goal: Transfer

2+2 programs

Guaranteed Admission Programs

Associate of Arts/Sciences

Goal: Career

Associate of Applied Sciences

Certificates

Admissions Support

Questions or need application support?

Karin Kushino



ETHS Website, Naviance, Senior College Application Guide, and in the Class of 2021 and 2022 Google Classroom under "Materials" or request information from the ETHS college and Career Services Office.

kkushino@oakton.edu

[Oakton.edu/visit](https://oakton.edu/visit)



Youth Job Center W-220



Ms. Djuwanna Frazier
YJC/ETHS Career Advisor
Outpost @ ETHS W220D (Hub)
Work Cell (847)864-5627 ext.24

dfrazier@youthjobcenter.org

frazierd@eths202.org

Virtual Hours 8:00am-4:00pm
Please call or email to schedule an appointment

<https://tinyurl.com/ETHSCCSVirtualRequest>

