Overview
As communication systems become ever more complex, the skills needed to design, support, and secure them also increase. In Francis Tuttle’s Cyber Security program, students acquire the knowledge and skills they will need to provide and maintain the level of security that modern work demands. Students learn to configure routers and switches, maintain wide area networks, and develop processes essential for adequate system security.

After receiving the training and education included in this program, students will be eligible to take a variety of certification exams, such as the Cisco Certified Entry Network Associate (CCENT), Cisco Certified Network Associate (CCNA), Cisco Certified Network Associate Security (CCNAS), CompTIA, Security+, A+, and Network+. In addition, students will have the opportunity to select optional courses in Linux.

Employment Opportunities
Banks, Cisco Partners, E-Commerce Providers, Government Agencies, Government Contractors, Educational Facilities Including Public and Private schools, Insurance Companies, Hospitals

About This Occupation
In Cyber Security, strong problem solving skills are essential. Successful professionals generally enjoy solving problems, are detail oriented, and are open to continuing their education and developing new skills throughout their career. Strong reading skills and the ability to follow detailed directions are also important.

Majors:
Enterprise Network Technician - 760 hours
Enterprise Network Routing and Switching Associate - 1040 hours
Enterprise Network Security Associate - 1040 hours
Enterprise Tier I Security Analyst – 1040 hours
Information Systems Security (INFOSEC) Professional – 1,150 hours
Cyber Security Professional - Networking - 1,350 hours
Virtualization Technology Associate - 1150 hours
Linux Network Operating System Associate - 1150 Hours

Program Instructor:
Greg Porter
Johnny Clark

Nondiscrimination Policy
It is the policy of Francis Tuttle not to discriminate with regard to race, color, religion, gender, national origin, age, marital or veteran status, or disabilities. This policy shall be followed in the operation of its educational programs and activities, recruitment, admissions, employment practices, and other educational services. Inquiries concerning application of this policy may be directed to the Human Resources Director, who serves as the Coordinator of Title IX; Section 504; and Americans with Disabilities Act for all campuses, at 12777 N. Rockwell, Oklahoma City, OK 73142-2789, (405) 717-7799
Enterprise Network Technician

Who Can Attend: Adults, High school juniors, High school seniors  
Total Hours Required: 760

Financial Aid Eligibility: This career major is eligible for financial aid.

Salary Range: $17.50 - $30.00 per hour

Program Length: Full-time: 7 months of instruction  
Part-time: 14 months of instruction  
Program length may vary based on progress rate and/or summer school attendance.

Locations: Portland Campus, Bruce Gray Center

Times: Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm Monday - Friday  
High school students and part-time adults enroll in either the AM or PM session. Full-time adult students enroll in both sessions.

Licensure/Certifications: A+ Essentials - $94.00  
A+ Practical Applications - $94.00  
MTA-Security Fundamentals - $69.00

Costs

Tuition and Fees:  
In-State Tuition - $1,672.00  
Out-of-State Tuition - $3,344.00  
Application Fee (non-refundable) - $15.00  
(Adult students pay tuition/fees)

Textbooks, Supplies and Certifications (Estimate):  
Textbook (adults only) - $450.00  
Certifications - Up to $257.00

Total Estimated Cost:  
In-State Adult Students – Up to $2,394.00  
Out-of-State Adult Students – Up to $4,066.00  
High School Students – No cost unless optional certifications are desired

Francis Tuttle will pay up to $100.00 for a first certification for all students. Students may subtract up to $100.00 from the total certification cost/estimated totals. If a student does not plan to obtain all certifications, the cost of any excluded certifications may also be subtracted. Certification examinations are optional for high school students.

Courses:

IT Essentials - 140 hours  
CCNA Routing and Switching I - 150 hours  
Linux Essentials - 130 hours  
Security Essentials - 130 hours  
CCNA Routing and Switching II - 150 hours  
Capstone Career Preparation- 60 hours

Gainful Employment information: This program leads to gainful employment in a recognized occupation. For more information on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see [http://www.francistuttle.edu/Media/Website%20Resources/GE/EnterpriseNetworkTechnician.html](http://www.francistuttle.edu/Media/Website%20Resources/GE/EnterpriseNetworkTechnician.html)
Enterprise Network Routing and Switching Associate

Who Can Attend: Adults, High school juniors, High school seniors.  
Total Hours Required: 1040

Financial Aid Eligibility: This career major is eligible for financial aid.

Salary Range: $17.50 - $30.00 per hour

Program Length: Full-time: 9 months of instruction  
Part-time: 18 months of instruction  
Program length may vary based on progress rate and/or summer school attendance.

Locations: Portland Campus, Bruce Gray Center

Times: Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm Monday - Friday  
High school students and part-time adults enroll in either the AM or PM session. Full-time adult students enroll in both sessions.

Licensure/Certifications:  
A+ Essentials - $94.00  
A+ Practical Applications - $94.00  
MTA-Security Fundamentals - $69.00

Costs
Tuition and Fees: In-State Tuition - $2,288.00  
Out-of-State Tuition - $4,576.00  
Application Fee (non-refundable) - $15.00  
(Adult students pay tuition/fees)

Textbooks, Supplies and Certifications (Estimate):  
Textbook (adults only) - $600.00  
Certifications - Up to $257.00

Total Estimated Cost: In-State Adult Students - Up to $3,160.00  
Out-of-State Adult Students - Up to $5,448.00  
High School Students - No cost unless optional certifications are desired

Francis Tuttle will pay up to $100.00 for a first certification for all students. Students may subtract up to $100.00 from the total certification cost/estimated totals. If a student does not plan to obtain all certifications, the cost of any excluded certifications may also be subtracted. Certification examinations are optional for high school students.

Courses:  
IT Essentials - 140 hours  
Security Essentials - 130 hours  
CCNA Routing and Switching I - 150 hours  
CCNA Routing and Switching II - 150 hours  
CCNA Routing and Switching III - 140 hours  
CCNA Routing and Switching IV - 140 hours  
Linux Essentials - 130 hours  
Capstone Career Preparation- 60 hours

Gainful Employment information: This program leads to gainful employment in a recognized occupation. For more information on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see http://www.francistuttle.edu/Media/Website%20Resources/GE/EnterpriseNetworkRoutingandSwitchingAssociate.html
## Enterprise Network Security Associate

**Who Can Attend:** Adults, High school juniors, High school seniors  
**Total Hours Required:** 1040

**Financial Aid Eligibility:** This career major is eligible for financial aid.

**Salary Range:** $17.50 - $30.00 per hour

**Program Length:**  
- Full-time: 9 months of instruction  
- Part-time: 18 months of instruction  
  Program length may vary based on progress rate and/or summer school attendance.

**Locations:** Portland Campus, Bruce Gray Center

**Times:**  
Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm Monday - Friday  
High school students and part-time adults enroll in either the AM or PM session. Full-time adult students enroll in both sessions.

**Licensure/Certifications:**  
- A+ Essentials - $94.00  
- A+ Practical Applications - $94.00  
- MTA-Security Fundamentals - $69.00

**Costs**  
**Tuition and Fees:**  
- In-State Tuition - $2,288.00  
- Out-of-State Tuition - $4,576.00  
- Application Fee (non-refundable) - $15.00  
  (Adult students pay tuition/fees)

**Textbooks, Supplies and Certifications (Estimate):**  
- Textbook (adults only) - $400.00  
- Certifications - Up to $257.00

**Total Estimated Cost:**  
- In-State Adult Students - Up to $2,960.00  
- Out-of-State Adult Students - Up to $5,248.00  
- High School Students - No cost unless optional certifications are desired

  Francis Tuttle will pay up to $100.00 for a first certification for all students. Students may subtract up to $100.00 from the total certification cost/estimated totals. If a student does not plan to obtain all certifications, the cost of any excluded certifications may also be subtracted. Certification examinations are optional for high school students.

**Courses:**  
- IT Essentials - 140 hours  
- CCNA Routing and Switching II - 150 hours  
- Security Essentials - 130 hours  
- Network Security – 140 hours  
- CCNA Routing and Switching I - 150 hours  
- Linux Essentials – 130 hours  
- CCNA Security - 140 hours  
- Capstone Career Preparation - 60 hours

**Gainful Employment information:** This program leads to gainful employment in a recognized occupation. For more information on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see [http://www.francistuttle.edu/Media/Website%20Resources/GE/EnterpriseNetworkSecurityAssociate.html](http://www.francistuttle.edu/Media/Website%20Resources/GE/EnterpriseNetworkSecurityAssociate.html)
Enterprise Tier I Security Analyst

Who Can Attend: Adults, High school juniors, High school seniors

Total Hours Required: 1040

Financial Aid Eligibility: This career major is eligible for financial aid.

Salary Range: $17.50 - $30.00 per hour

Program Length: Full-time: 9 months of instruction
Part-time: 18 months of instruction
Program length may vary based on progress rate and/or summer school attendance.

Locations: Portland Campus, Bruce Gray Center

Times: Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm Monday - Friday
High school students and part-time adults enroll in either the AM or PM session. Full-time adult students enroll in both sessions.

Licensure/A+ Essentials - $94.00
Certifications: A+ Practical Applications - $94.00
MTA-Security Fundamentals - $69.00
CCNA Cyber Ops - $250
Cyber Ops - $250

Costs
Tuition and Fees:
In-State Tuition - $2,288.00
Out-of-State Tuition - $4,576.00
Application Fee (non-refundable) - $15.00
(Adult students pay tuition/fees)

Textbooks, Supplies and Certifications (Estimate):
Textbook (adults only) - $400.00
Certifications - Up to $757.00

Total Estimated Cost:
In-State Adult Students - Up to $3,460.00
Out-of-State Adult Students - Up to $5,748.00
High School Students - No cost unless optional certifications are desired
Francis Tuttle will pay up to $100.00 for a first certification for all students. Students may subtract up to $100.00 from the total certification cost/estimated totals. If a student does not plan to obtain all certifications, the cost of any excluded certifications may also be subtracted. Certification examinations are optional for high school students.

Courses:
IT Essentials - 140 hours
CCNA Routing and Switching II - 150 hours
Security Essentials - 130 hours
Network Security – 140 hours
CCNA Routing and Switching I - 150 hours
Linux Essentials – 130 hours
CCNA CyberOps - 140 hours
Capstone Career Preparation - 60 hours

Gainful Employment information: This program leads to gainful employment in a recognized occupation. For more information on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see http://www.francistuttle.edu/Media/Website%20Resources/GE/EnterpriseNetworkSecurityAssociate.html
Information Systems Security (INFOSEC) Professional

Who Can Attend: Adults, High school juniors, High school seniors  
Total Hours Required: 1,150

Financial Aid Eligibility: This career major is eligible for financial aid.

Salary Range: $17.50 - $30.00 per hour

Program Length: Full-time: 10 months of instruction  
Part-time: 20 months of instruction  
Program length may vary based on progress rate and/or summer school attendance.

Locations: Portland Campus, Bruce Gray Center

Times:  
Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm Monday - Friday  
High school students and part-time adults enroll in either the AM or PM session. Full-time adult students enroll in both sessions.

Licensure/Certifications:
- CNSS 4011 - $150.00
- Linux+ - $388.00
- A+ Essentials - $94.00
- A+ Practical Applications - $94.00
- Security+ - $311.00

Costs
Tuition and Fees:
- In-State Tuition - $2,530.00
- Out-of-State Tuition - $5,060.00
- Application Fee (non-refundable) - $15.00  
(Adult students pay tuition/fees)

Textbooks, Supplies and Certifications (Estimate):
- Textbook (adults only) - $900.00
- Certifications - Up to $1,037.00

Total Estimated Cost:
- In-State Adult Students - Up to $4,482.00
- Out-of-State Adult Students - Up to $7,012.00
- High School Students - No cost unless optional certifications are desired

Francis Tuttle will pay up to $100.00 for a first certification for all students. Students may subtract up to $100.00 from the total certification cost/estimated totals. If a student does not plan to obtain all certifications, the cost of any excluded certifications may also be subtracted. Certification examinations are optional for high school students.

Courses:
- IT Essentials - 140 hours
- CCNA Routing and Switching I - 150 hours
- Linux Essentials - 130 hours
- Introduction to Scripting - 130 hours
- Capstone Career Preparation – 60 hours
- Security Essentials - 130 hours
- CCNA Routing and Switching II - 150 hours
- Network Security- 130 hours
- Principles of Information Assurance - 130 hours

Gainful Employment information: This program leads to gainful employment in a recognized occupation. For more information on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see http://www.francistuttle.edu/Media/Website%20Resources/GE/InformationSystemsSecurityINFOSECProfessional.html
Cyber Security Professional – Networking Emphasis

Who Can Attend:  Adults, High school juniors, High school seniors  Total Hours Required: 1,350

Financial Aid Eligibility:  This career major is eligible for financial aid.

Salary Range:  $17.50 - $30.00 per hour

Program Length:  Full-time: 12 months of instruction
                 Part-time: 24 months of instruction
                 Program length may vary based on progress rate and/or summer school attendance.

Locations:  Portland Campus, Bruce Gray Center

Times:  Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm Monday - Friday
        High school students and part-time adults enroll in either the AM or PM session. Full-time adult
        students enroll in both sessions.

Licensure/ Certifications:  A+ Essentials - $94.00
                             A+ Practical Applications - $94.00
                             MTA-Security Fundamentals - $69.00
                             Linux+ - $388.00

Costs
Tuition and Fees:  In-State Tuition - $2,970.00
                  Out-of-State Tuition - $5,940.00
                  Application Fee (non-refundable) - $15.00
                  (Adult students pay tuition/fees)

Textbooks, Supplies and Certifications (Estimate):
                  Textbook (adults only) - $1,000.00
                  Certifications - Up to $645.00

Total Estimated Cost:  In-State Adult Students - Up to $4,630.00
                        Out-of-State Adult Students - Up to $7,600.00
                        High School Students - No cost unless optional certifications are desired

Francis Tuttle will pay up to $100.00 for a first certification for all students. Students may subtract
up to $100.00 from the total certification cost/estimated totals. If a student does not plan to obtain
all certifications, the cost of any excluded certifications may also be subtracted. Certification
examinations are optional for high school students.

Courses:  CCNA Routing and Switching I - 150 hours
           IT Essentials - 140 hours
           Security Essentials - 130 hours
           Linux Essentials - 130 hours
           Introduction to Scripting - 130 hours
           Enterprise Security Management – 65 hours
           CCNA Routing and Switching II - 150 hours
           Digital Forensics - 70 hours
           Principles of Information Assurance - 130 hours
           Network Security - 130 hours
           Regulatory Compliance and Auditing - 65 hours
           Capstone Career Preparation – 60 hours

Gainful Employment information:  This program leads to gainful employment in a recognized occupation. For more information
on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see
http://www.francistuttle.edu/Media/Website%20Resources/GE/CyberSecurityProfessionalNetworkingEmphasis.html
Linux Network Operating System Associate

Who Can Attend: Adults, High school juniors, High school seniors. Total Hours Required: 1,150

Financial Aid Eligibility: This career major is eligible for financial aid.

Salary Range: $17.50 - $30.00 per hour

Program Length: Full-time: 10 months of instruction
Part-time: 20 months of instruction
Program length may vary based on progress rate and/or summer school attendance.

Locations: Portland Campus, Bruce Gray Center

Times: Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm Monday - Friday
High school students and part-time adults enroll in either the AM or PM session. Full-time adult students enroll in both sessions.

Licensure/Certifications:
- Linux+ - $388.00
- A+ Essentials - $94.00
- A+ Practical Applications - $94.00
- Security+ - $311.00
- CCENT - $125.00

Costs
Tuition and Fees:
- In-State Tuition - $2,530.00
- Out-of-State Tuition - $5,060.00
- Application Fee (non-refundable) - $15.00
(Adult students pay tuition/fees)

Textbooks, Supplies and Certifications (Estimate):
- Textbook (adults only) - $800.00
- Certifications - Up to $1,012.00

Total Estimated Cost:
- In-State Adult Students - Up to $4,357.00
- Out-of-State Adult Students - Up to $6,887.00
- High School Students - No cost unless optional certifications are desired

Francis Tuttle will pay up to $100.00 for a first certification for all students. Students may subtract up to $100.00 from the total certification cost/estimated totals. If a student does not plan to obtain all certifications, the cost of any excluded certifications may also be subtracted. Certification examinations are optional for high school students.

Courses:
- IT Essentials - 140 hours
- CCNA Routing and Switching I - 150 hours
- Linux Essentials - 130 hours
- Linux 2 - 130 hours
- Capstone Career Preparation – 60 hours
- Security Essentials - 130 hours
- CCNA Routing and Switching II - 150 hours
- Linux 1- 130 hours
- Network Security – 130 hours

Gainful Employment information: This program leads to gainful employment in a recognized occupation. For more information on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see http://www.francistuttle.edu/Media/Website%20Resources/GE/LinuxNetworkOperatingSystemsAssociate.html
Virtualization Technology Associate

Who Can Attend:  Adults, High school juniors, High school seniors

Total Hours Required: 1,150

Financial Aid Eligibility: This career major is eligible for financial aid.

Salary Range:  $17.50 - $30.00 per hour

Program Length:  Full-time: 10 months of instruction  
Part-time: 20 months of instruction  
Program length may vary based on progress rate and/or summer school attendance.

Locations:  Portland Campus, Bruce Gray Center

Times:  Daytime classes: 2 Sessions: 8:00 am - 10:55 am and 12:30 pm - 3:25 pm Monday - Friday  
High school students and part-time adults enroll in either the AM or PM session. Full-time adult students enroll in both sessions.

Licensure/Certifications:

- Linux+ - $388.00  
- A+ Essentials - $94.00  
- A+ Practical Applications - $94.00  
- MTA-Security Fundamentals - $69.00  
- CCENT - $125.00

Costs

Tuition and Fees:  In-State Tuition - $2,530.00  
Out-of-State Tuition - $5,060.00  
Application Fee (non-refundable) - $15.00  
(Adult students pay tuition/fees)

Textbooks, Supplies and Certifications (Estimate):

- Textbook (adults only) - $800.00  
- Certifications - Up to $770.00

Total Estimated Cost:

- In-State Adult Students - Up to $4,115.00  
- Out-of-State Adult Students - Up to $6,645.00  
- High School Students – No cost unless optional certifications are desired  

Francis Tuttle will pay up to $100.00 for a first certification for all students. Students may subtract up to $100.00 from the total certification cost/estimated totals. If a student does not plan to obtain all certifications, the cost of any excluded certifications may also be subtracted. Certification examinations are optional for high school students.

Courses:

- IT Essentials - 140 hours  
- CCNA Routing and Switching I - 150 hours  
- Linux Essentials - 130 hours  
- VMware Assoc. Data Center Virtualization – 130 hours  
- VMware Prof. Data Center Virtualization – 130 hours  
- Capstone Career Preparation – 60 hours  
- Security Essentials - 130 hours  
- CCNA Routing and Switching II - 150 hours  
- Network Security – 130 hours

Gainful Employment information: This program leads to gainful employment in a recognized occupation. For more information on occupational outcomes, job placement rates, on-time completion rates, loan debt, and other useful information, see http://www.francistuttle.edu/Media/Website%20Resources/GE/VirtualizationTechnologyAssociate.html