

# **GLOBAL MODULE FOR CTI120**

## **NETWORK AND SECURITY FOUNDATION**

### **MODULE 1 – Technology in Today’s Global World**

**Description of module:** Students will understand how technology impacts the way organizations conduct themselves in a global environment including communication methods, interactions with stakeholders and security requirements. The module will focus on Europe and the European Union.

**Upon completion of the module, students will have:**

1. Identified and discussed the Wide Area Network (WAN) technology media and protocol that allow global communications in US and Europe.
2. Researched and discussed how technology has impacted the way an organization and/or an individual functions in the US and Europe.
3. Researched and explained import and export laws for encrypted software between the US and Europe.

### **Global Student Learning Activities**

#### **Sakai Discussion Forums**

Students will be required to discuss research topics as presented by the instructor in Sakai discussion forums and respond to two classmates’ initial posts.

1. Research and discuss in the Sakai discussion forum how technology has affected the way a business conducts activities in Germany, Sweden or France. Post your results in the Sakai Discussion Forum due by Friday (09/01/17). Respond to the initial posts of two classmates by comparing notes with your classmates about their research due by Sunday (09/03/17).
2. Research and discuss in the Sakai discussion forum how technology impacts an individual in Germany, Sweden or France’s ability to access medical care, current events and education. Post your results in the Sakai Discussion Forum due by Friday (09/15/17). Respond to the initial posts of two classmates by comparing notes with your classmates about their research due by Sunday (09/17/17).
3. Research and discuss in the Sakai discussion forum the entertainment and recreational benefits of technology in Germany, Sweden or France. Post your

results in the Sakai Discussion Forum due by Friday (09/22/17). Respond to the initial posts of two classmates by comparing notes with your classmates about their research due by Sunday (09/24/17).

**Grading the Sakai Discussion Forums: Rubric**  
**100 possible points per post**

<b>Category</b>	<b>Did Not Meet Requirements (0 points)</b>	<b>Met Requirement (100 points)</b>
<b>Promptness (20 points)</b>	No posting credit at all for postings out of the date range.	Met timeline requirements.
<b>Delivery of Post (20 points)</b>	Poor spelling and grammar; format is difficult to read and/or unprofessional by common business standards.	Overall format is clear.
<b>Relevance of Post (20 points)</b>	Missing details required per the project directions.	Covers all details required per the project directions.
<b>Quality of References/Resources Used (20 points)</b>	References used were not scholarly resources or from a credible resource. No citations.	Used scholarly and credible resources.
<b>Quantity of References/Resources Used (20 points)</b>	Posts contained less than 3 resources directly credited.	Post contained at least 3 resources directly credited.

**Research Reports**

1. Students will choose a country in Europe and write a short report about import and export laws about encrypted software and data files. Report must be at least 2 pages long and have a minimum of 3 resources. Report will be submitted by Sunday (October 23).
2. Students will choose a technology media and protocol that can be implemented on a WAN between the US and Europe and complete a report on the advantages, disadvantages and cost of each. Report must be at least 2 pages long and have a minimum of 3 resources. Report will be submitted by Sunday (November 6).

**Grading the Short Reports**  
**Research Report: Rubric**  
**100 possible points per post**

Category	Did Not Meet Requirements (0 points)	Met Requirement (100 points)
<b>Promptness (20 points)</b>	No credit at all for report out of the date range.	Met due date requirements.
<b>Delivery of Report (20 points)</b>	Poor spelling and grammar; format is difficult to read and/or unprofessional by common business standards.	Overall format is clear.
<b>Relevance of Report (20 points)</b>	Missing details required per the project directions.	Covers all details required per the project directions.
<b>Quality of References/Resources Used (20 points)</b>	References used were not scholarly resources or from a credible resource. No citations.	Used scholarly and credible resources.
<b>Quantity of References/Resources Used (20 points)</b>	Report contained less than 3 resources directly credited.	Report contained at least 3 resources directly credited.

### **Methodology**

Lectures, videos, discussion forums, websites, journals, articles, newspapers, magazines

### **Time**

6 out of 64 hours

### **Materials**

Access to high speed internet; access to a computer or laptop with audio capabilities so content can be heard; access to a reasonably current web browser (Firefox or Chrome are recommended); access to standard browser plugins such as Adobe Acrobat and Flash; ability to access and use the Sakai online platform; a way to save documents one may find useful for the course (e.g. travel drive); a Durham Tech email account, the ability to use Microsoft's PowerPoint, Excel and Word; and the ability to convert documents into a PDF file.

### **Resources**

Textbooks: *Security Awareness: Applying Practical Security in Your World*, 5th edition, and *Network+ Guide to Networks*, 7th edition

### **Assessment**

The final grade of this course will be comprised of the following components:

<b>CTI 120 – Fall 2017 Network and Security Fundamentals</b>	<b>Percentage</b>
<b>Technology in Today’s Global World Import/Export Laws Research Report</b>	5%
<b>Technology in Today’s Global World WAN Media and Protocol Research Report</b>	5%
<b>(4) Technology in Today’s Global World Sakai Discussion Forums</b>	10%
<b>Tests</b>	20%
<b>MTA Exams</b>	5%
<b>Final Project</b>	15%
<b>Class Participation</b>	10%
<b>Assignments</b>	30%

The two research reports (10%) and three discussion boards (10%) are combined for the module and will equate to a total of 20% of the student’s course grade.

### **Resources**

Textbooks: *Security Awareness: Applying Practical Security in Your World*, 5th edition, and *Network+ Guide to Networks*, 7th edition

#### **Library Resources**

Durham Technical Community College Library’s LibGuides

(Technology in Today's Global World: Video Resources):

<http://durhamtech.libguides.com/technology-todays-world>

NC LIVE provides a wide range of research resources—articles, videos, e-books, etc.—to library users across North Carolina. Here are some resources that contain information related to doing business in Europe:

- [ProQuest Computing Database](#) provides "comprehensive coverage of computer topics," including telecommunication technologies, information systems and computer security.
- [ProQuest Telecommunications Database](#) covers telecommunications, including digital and analog modes of communication. Dating back to the early 1990s, this resource is useful for tracking changes in technology methods and their applications over time.

- [ABI/INFORM Collection](#) is a ProQuest database that "features thousands of full-text journals, dissertations, working papers, key business and economics periodicals such as the Economist, country-and industry-focused reports, and downloadable data. Its international coverage gives researchers a complete picture of companies and business trends around the world."
- [ABI/INFORM Trade & Industry](#) is included in ABI/INFORM Collection. It "includes in-depth coverage of companies, products, executives, trends and other topics. With ABI/INFORM Trade & Industry users can study and compare specific trades and industries, including telecommunications, computing, transportation, construction, petrochemicals and many others."
- [ProQuest Asian & European Business Collection](#) contains articles from academic journals, newspapers, magazines and other sources related to business in Asia and Europe.
- [ProQuest Business Market Research Collection](#) includes Hoover's Company Profiles, OxResearch, US and Worldwide Industry & Market Reports from Barnes Reports and Snapshots.
- [ProQuest European Newsstream](#) contains primarily newspaper articles, but also articles from trade journals and magazines.

#### Free Online Resources

UNC Center for European Studies Business Briefs: <http://europe.unc.edu/business/resources/>: Policy briefs summarizing hot topics—such as Brexit, terrorism and data privacy—of interest to people in the United States who want to do business with the European Union.

<http://www.bbc.com/news/world/europe>

European news from the British Broadcasting Corporation.

[https://www.forbes.com/home\\_europe/](https://www.forbes.com/home_europe/)

Forbes: Europe

<http://news.cnet.com/>

CNET provides technology news and product reviews.

<http://knowledge.wharton.upenn.edu/>

Research on Europe's business and economy from one of the United States' leading business schools. Choose "Europe" from the "Regions" drop-down menu.

<http://www.mckinsey.com/global-themes/europe>

McKinsey & Company: Europe. For insights into European business, check out McKinsey & Company's in-depth reports.

CNN

- <http://www.cnn.com/europe>  
European news from CNN.
- [CNN Technology](#)  
Tech news from CNN Money.

<http://www.nationmaster.com>

"Compare countries on just about anything!" You can compare multiple countries or review a profile of a specific country. Data categories include GDP, poverty, health and many others.

<http://fita.org/countries/eur.html>

The Federation of International Trade Associations. Links to 450,000+ trade associations worldwide.

Click on "Selling and buying" for each country:

- [France](#)
- [Germany](#)
- [Sweden](#)

The European Union

- [http://europa.eu/european-union/index\\_en](http://europa.eu/european-union/index_en)

This is the official website of the European Union. It is a good starting point if you are looking for information and services provided by the EU.

U.S. Federal Government resources

- [The World Factbook: Europe](#)

The U.S. Central Intelligence Agency provides The World Factbook. See a country's profile and click on "communications" to find more information about telephony, broadcasting and internet communications.

- <https://www.export.gov/welcome>

Export.gov is a service of the United States government to help U.S. business sell goods and services in international markets. Explore the resources below for information about exporting to France, Germany or Sweden.

- [export.gov - France](#)
- [export.gov - Germany](#)
- [export.gov - Sweden](#)

## Video Resources

### Films on Demand

Search [Films on Demand](#)'s 20,000+ videos for quality information. You can also browse the most recently added videos, most popular videos and videos by subject.

- [IT Networks](#)
- [Faster Wireless Connectivity—European Inventor Award 2016](#)
- [Made in Germany: Europe's Economic Superstar](#)
- [Spy on Me, I'd Rather Be Safe: A Debate](#)
- [Breaking the Wall of Uninformed Cities: How Open Data Makes Urban Life Smarter](#)

<http://www.cnbc.com/technology/>

Get the latest technology news from CNBC.

<http://www.euronews.com/news/business>

Business news from "the most-watched news channel in Europe."

<http://www.csreurope.org/videos>

The European Business Network for Corporate Social Responsibility provides video and other resources.

<https://www.businesseurope.eu/video-gallery>

Videos from an entrepreneurs' trade group in Europe.

### Books and e-books

<http://durhamtech.libguides.com/c.php?g=664119&p=4668306>

Durham Tech's LibGuide, "Technology in Today's Global World," on the "Books and E-books" tab: check out especially the "Network security and support" box. Here are a number of books

and e-books that Durham Tech students can use for information about telecommunications and networking.