

## **CDS630 Global Cyber Operations**

### **(3 credit hours)**

### **Course Syllabus**

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### **Course Description**

Global Cyber Operations will provide students with a solid background in the cyber global landscape. It will examine cyber operations in nation states, business, criminal organizations, and other organizations.

### **Course Learning Outcomes**

By the end of this course, you will be able to:

1. Analyze the current trends of threats arising in cyberspace to address the risks posed to enterprises.
2. Describe threat actors and motivations in cyber security.
3. Develop a strategy for countering and fighting cyber warfare.
4. Describe the political theories and legal arrangements pertinent to cyber security.
5. Explain how interpersonal trust and trust among nations is applied to the domain of cybersecurity.
6. Propose a security system that increases resilience and dependability capabilities.

### **Prerequisites/Corequisites**

None.

### **Required Textbook(s) and Resources**

Links to all required reading materials will be provided within the online course.

Be sure to also review the weekly **Explore** sections for additional library or web resources. For access to databases, research help, and writing tips, visit the [Tiffin University Library](#). You might consider registering for one of the library's many webinars on library research, source evaluation, copyright, and other topics, at the [Library Events - Upcoming Events](#) web page. For further assistance email a librarian, at: [library@tiffin.edu](mailto:library@tiffin.edu).

### **Time Commitment**

Effective time management is possibly the single most critical element to your academic success. To do well in this online class you should plan your time wisely to maximize your

learning through the completion of readings, discussions, and assignments. Because of our accelerated, seven-week term, TU online courses are designed with the expectation that you dedicate a little over **six (6)** hours per credit hour to course activities and preparation **each week**. For example, for successful completion of a three-credit, seven-week online course you should reserve roughly **twenty (20) hours per week**.

To help plan your time and keep on track toward successful course completion, note the distinctive rhythm of assignment due dates:

1. All times assume Eastern Time (GMT-4).
2. Weeks begin at 12:00 a.m. ET on Monday and end at 11:55 p.m. ET on Sunday.
3. Unless otherwise noted, initial assignments or discussion posts are due by **11:55 p.m. ET on Wednesdays**.
4. Additional assignments or follow-up discussion posts are due by **11:55 p.m. ET on Saturdays, and**
5. Major assignments and reflections are typically due by **11:55 p.m. ET on Sundays**.

## Learning Activities

There will be different types of activities to assess your progress through the course topics. You can estimate three activities per week on average. There will be a weekly discussion forum and written assignments. A strategy paper to countering cyber warfare will also be required with individual elements due at various times throughout the course.

## Grading

The chart below identifies the individual contributions from each type of activity, per week.

Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Total
Discussions 25	Discussions 25	Discussions 25	Discussions 25	Discussions 25	Discussions 25	Discussions 25	<b>175</b>
Assignments 100	Assignments 125	Assignments 100	Assignments 100	Assignments 150	Assignments 100	Assignments 150	<b>825</b>
Extra Credit -	Extra Credit 10	Extra Credit 10	Extra Credit 10	Extra Credit 10	Extra Credit 10	Extra Credit 10	
<b>125</b>	<b>150</b>	<b>125</b>	<b>125</b>	<b>175</b>	<b>125</b>	<b>175</b>	<b>1000</b>

## Grading Scale

A: 90-100%

B: 80-89%

C: 70-79%

F: <70%

Please see the [Academic Bulletin](#) for grade appeal information.

## Course Schedule and Weekly Checklist

### Week 1 - Global Cyber Operations

- WED: Activity 1.2: Cyber Threat Typologies - Initial Post
- SAT: Activity 1.2: Cyber Threat Typologies - Secondary Posts
- SUN: Activity 1.3: Tools, Tactics, and Procedures (TTPs) of Threat Actors

### Week 2 - Threat Trends in Cyberspace

- WED: Activity 2.1: AI Powered Cyber Attacks - Initial Post
- SAT: Activity 2.1: AI Powered Cyber Attacks - Secondary Posts
- SUN: Activity 2.2: Cloud Vulnerabilities
- SUN: Activity 2.3: Reflection (Extra Credit)

### Week 3 - Human Behavior and Susceptibility to Cyber Attacks

- WED: Activity 3.1: Cyberpsychology in Cyber Security - Initial Post
- SAT: Activity 3.1: Cyberpsychology in Cyber Security - Secondary Posts
- SUN: Activity 3.2: Perception of Risk to Cyber Users
- SUN: Activity 3.3: Reflection (Extra Credit)

### Week 4 - Cyber Trust

- WED: Activity 4.1: Trust & Consumer Confidence - Initial Post
- SAT: Activity 4.1: Trust & Consumer Confidence - Secondary Posts
- SUN: Activity 4.2: Writing Assignment: Cyber Mistrust
- SUN: Activity 4.3: Reflection (Extra Credit)

## Week 5 - Cyber Political Theories

- WED: Activity 5.1: Discourse Theories - Initial Post
- SAT: Activity 5.1: Discourse Theories - Secondary Posts
- SUN: Activity 5.2: Theoretical Cyberspace Models
- SUN: Activity 5.3: Reflection (Extra Credit)

## Week 6 - Countering Cyber Warfare

- WED: Activity 6.1: The Triad - Initial Post
- SAT: Activity 6.1: The Triad - Secondary Posts
- SUN: Activity 6.2: Strategy Paper
- SUN: Activity 6.3: Reflection (Extra Credit)

## Week 7 - Case Studies in Global Cyber Operations

- WED: Activity 7.1: Latent Aggression in Cyber Operations - Initial Post
- SAT: Activity 7.1: Latent Aggression in Cyber Operations - Secondary Posts
- SUN: Activity 7.2: Decision Loop for Cyber Deterrence
- SUN: Activity 7.3: Reflection (Extra Credit)

## Tips for Success

Online learning requires self-discipline and self-direction. As seekers of the truth, we should be willing to challenge one another's academic work in a spirit of respectful comradery. Your course is a place for you to grow as you benefit from the expertise, experience, and diverse perspectives of your instructor and peers. Constructive feedback will challenge you to stretch your own thinking, thereby expanding your knowledge and understanding.

To get the most out of your learning experience, you should actively engage (participate) in **ALL** course activities. Course elements are arranged chronologically. To complete a week, simply work your way "down the page" through all of the course materials and activities.

### Your Instructor Will Expect You to:

- Thoroughly review orientation materials (Start Here) within the first 48 hours of the term.
- Monitor your TU email account **daily** for important updates and announcements.
- Take ownership of your learning experience and act in a proactive, self-directed manner. That means:

- Fully participate in all learning activities.
- Complete assignments as described in rubrics or other instructions.
- Submit all work on time and in the specified format (e.g. APA format for citations).
- Utilize and incorporate instructor provided feedback to improve your work.
- Ask questions so you can better understand course material or assignments.
- Use the highest standards of intellectual honesty and integrity. For more information, see the TU Library guide: [Digital Literacy: Netiquette and Internet Safety](#).
- Treat others respectfully and demonstrate "netiquette" (online politeness and respectfulness) at all times. TU celebrates cultural uniqueness and expects all students to be considerate and thoughtful throughout their learning experiences.

### **You Should Expect Your Instructors to:**

- Post an introductory announcement/email at the beginning of each week to provide updates and help you prepare for the week's activities.
- Maintain an active and engaged presence in all course activities and throughout the course.
- Respond to your emailed questions within 48 hours, if not sooner.
- Clearly communicate any absences or expected non-participation due to extenuating circumstances. For example, "I will be traveling to attend a funeral this week and may not be able to respond to questions or participate in forums for a couple of days."
- When grading your work:
  - clearly indicate their grading approach (what they like to see in submitted work as well as what types of errors they tend to penalize more harshly),
  - thoroughly review and evaluate your submissions in a timely manner (in less than 5 days for most assignments), and
  - provide constructive feedback that indicates the strengths and weaknesses of your work and provides suggestions on how you can improve your performance on future assignments.
- Advocate for your success as a learner and help guide you toward successful completion of the course activities and most importantly, attainment of the course learning outcomes.

### **Accommodations (Disability Services)**

The Office of Disability Services supports the institutional commitment to diversity by providing educational opportunities for qualified individuals with disabilities through accessible

programs and services in compliance with Section 504 of the Rehabilitation Act of 1973 and Title III of the Americans with Disabilities Act (ADA) of 1990. If you need reasonable accommodations due to a documented disability, contact the Office for Equity, Access, & Opportunity via email at [disabilityservices@tiffin.edu](mailto:disabilityservices@tiffin.edu) or by calling 419-448-3021.

## Technical Support

For Moodle support, either email [moodlesupport@tiffin.edu](mailto:moodlesupport@tiffin.edu) or call the 24/7 Technical Support Call Center at 855-664-1200 (3430, Option 2, from on-campus). For non-Moodle support, contact the Tiffin University ITS helpdesk at the number above or submit a [support ticket](#).

## Veterans

The Veteran and Military Resource Center assist veterans, active Military, and spouses of current service members in utilizing their education benefits. VMRC provides information regarding benefit processes and procedures, as well as support in navigating the transition from military to academic life by facilitating connections with the appropriate support services on campus. More information can be found on the Veteran and Military Resource Center website, at <http://www.tiffin.edu/va>.

## Comments or Concerns

TU's online programs are designed to be student *driven*: to empower you with a voice and stake in your learning. Our courses feature multiple and varied ways that you can share feedback, and we invite you to become an active voice and help drive our improvement efforts. In addition to providing in-course feedback, we encourage you to submit questions or comments directly to the online team at [online@tiffin.edu](mailto:online@tiffin.edu).