CDS522 Cyber Resilience GRC
(3 credit hours)
Course Syllabus

Course Description

Cyber Resilience GRC will cover governance, risk, and compliance as they relate to cybersecurity. This course will cover the management aspects of governance in a cybersecurity setting, the processes of risk identification, analysis, and management, and how to maintain corporate compliance. This course will also teach students how to identify, detect, respond to and recover from a cyber-attack. This course will cover key elements of a cyber resilience process, the principles behind effective cyber security, the elements of a robust business continuity management system, mitigating cyber risks and recovering from cyber-attacks.

Course Learning Outcomes

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

1. Describe how an organization establishes GRC priorities and processes.
2. Formulate strategies to identify, measure, and manage risk
3. Describe how an organization analyzes its context, culture, and stakeholders to establish cyber resilience objectives and strategies.
4. Describe a strategy to align performance, risk, and compliance objectives, strategies and criteria to organizational needs.
5. Develop a plan to address threats, opportunities and requirements through the application of proactive, detective, and responsive actions and controls.
6. Develop a plan to monitor and improve design and operating effectiveness of all actions and controls to ensure their alignment to GRC strategies and objectives.

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

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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.

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 research paper on a topic of your choice related to the course content will also be required with individual elements due at various times throughout the course. A PowerPoint will be developed in order to present your research paper to your classmates.

Key Assessment (Taskstream Submission)

This TU course features a "Key Assessment" that provides you the opportunity to demonstrate your program's core competencies. It also shows how the course fits within the broader curriculum. For this course, the Activity 4.2 Asset Management Plan in Week 4 was designated as a Key Assessment. You will upload it both to the assignment and to Activity 4.2b: Taskstream Assignment.

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	175
Assignments 100	Assignments 50 25	Assignments 100 50	Assignments 100	Assignments 100	Assignments 100	Assignments 100 100	825
Reflection (Extra Credit) 10			Reflection (Extra Credit) 10	Reflection (Extra Credit) 10	Reflection (Extra Credit) 10		
125	100	175	125	125	125	225	1000

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 - Introduction to Cyber Resilience & Threat Identification

☐ WED: Activity 1.1 Meet Your Peers - Initial Post

☐ WED: Activity 1.2: Cyber Resilience Motivations & Governmental Compliance - Initial Post

☐ SAT: Activity 1.2: Cyber Resilience Motivations & Governmental Compliance - Secondary Posts

☐ SUN: Activity 1.3: Assessing Cyber Risk & Compliance

☐ SUN: Activity 1.4: Reflection (Extra Credit)

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Week 2 - Infrastructure Security

☐ WED: Activity 2.1: CISA Guiding Principles - Initial Post

☐ SAT: Activity 2.1: CISA Guiding Principles - Secondary Posts

☐ SUN: Activity 2.2: Critical Risks

☐ SUN: Activity 2.3: Final Paper Topic

Week 3 - Governance Frameworks

☐ WED: Activity 3.1: Presidential Policy Directive-21 - Initial Post

☐ SAT: Activity 3.1: Presidential Policy Directive-21 - Secondary Posts

☐ SUN: Activity 3.2: Compare and Contrast Governance Frameworks

☐ SUN: Activity 3.3: Final Paper Introduction

Week 4 - Components of a Resilient Organization & Asset Identification and Classification

☐ WED: Activity 4.1: Resiliency - Initial Post

☐ SAT: Activity 4.1: Resiliency - Secondary Posts

☐ SUN: Activity 4.2: Asset Management Plan

☐ SUN: Activity 4.3: Reflection (Extra Credit)

Week 5 - Risk Management Strategies

☐ WED: Activity 5.1: Risk Management - Initial Post

☐ SAT: Activity 5.1: Risk Management - Secondary Posts

☐ SUN: Activity 5.2: Final Paper Literature Review

☐ SUN: Activity 5.3: Reflection (Extra Credit)

Week 6 - Business Continuity Management

☐ WED: Activity 6.1: Cyber-Physical Interdependencies - Initial Post

☐ SAT: Activity 6.1: Cyber-Physical Interdependencies - Secondary Posts

☐ SUN: Activity 6.2: Business Continuity Management Plan

☐ SUN: Activity 6.3: Reflection (Extra Credit)

Week 7 - Governance and Compliance Decision Making Processes

☐ WED: Activity 7.1: Cyber Resilience Awareness - Initial Post

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☐ SAT: Activity 7.1: Cyber Resilience Awareness - Secondary Posts

☐ SUN: Activity 7.2: Final Paper

☐ SUN: Activity 7.3: Final Paper Presentation

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:

  o Fully participate in all learning activities.

  o Complete assignments as described in rubrics or other instructions.

  o Submit all work on time and in the specified format (e.g. APA format for citations).

  o Utilize and incorporate instructor provided feedback to improve your work.

  o Ask questions so you can better understand course material or assignments.

  o Use the highest standards of intellectual honesty and integrity. For more information, see the TU Library guide: Digital Literacy: Netiquette and Internet Safety.

  o 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.

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- 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 or by calling 419-448-3021.

Technical Support

For Moodle support, either email 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

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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.