

## **CYPD 631. Cybersecurity Compliance Methodologies Lab I. 3 credits**

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Credits: 3  
Classroom: Online  
Class Hours: Weekly online engagement, 20 hours; biweekly virtual seminars alternate Saturdays 10AM– 12:00 PM, ET

Office Hours: Virtual, by appointment

Instructor: TBD

Phone: TBD

Email: TBD

Prerequisites: CYSE 630 or equivalent, or permission of the instructor

Text: Mastering the Risk Management Framework Revision 2  
by James Broad

Materials: NIST SP 800-53, NIST SP 800-171 and FedRamp documentation

### **Course Description and Objectives:**

In a virtual lab system, students execute the NIST RMF Steps 1-3: Categorization, Security Control Selection and Security Control Assessment, and complete the associated analysis and documentation as required by NIST/FedRAMP/CMMC.

### **Assessment Objectives:**

- Demonstrate the ability to apply risk management compliance methods to categorize the risk exposure of a system
- Demonstrate the ability to identify the controls required to achieve the system risk categorization
- Demonstrate the ability to conduct privacy analysis and produce a privacy assessment
- Demonstrate the ability to develop an Information Systems Continuous Monitoring (ISCM) strategy

### **Course Outline:**

The following is a tentative list of course projects which will enable students to demonstrate the ability to apply the NIST RMF Steps 1-3, in order to:

1. Produce an updated SSP
2. Integrate a FedRAMP SSP
3. Complete a FIPS 199 System Categorization
4. Produce a NIST Security Control Selection
5. Produce a PTA worksheet/template
6. Produce PIA worksheet/template
7. Remediate or write CMMC accreditable security controls

## **Grading**

The grading will be based on course engagement, assignments, and projects.  
The final grade will be determined by weighing each component as follows:

- Asynchronous engagement: 40%
- Virtual seminar engagement: 12%
- Assignments: 24%
- Projects: 24%