STATE UNIVERSITY OF NEW YORK
COLLEGE OF TECHNOLOGY
CANTON, NEW YORK

MASTER SYLLABUS

CYBR 485 – CYBERSECURITY PRACTICE

Created by: Minhua Wang
A. **TITLE:** Cybersecurity Practice

B. **COURSE NUMBER:** CYBR 485

C. **CREDIT HOURS:** 6 credits (equivalent to 240 hours of internship)

D. **WRITING INTENSIVE COURSE:** No

E. **GER CATEGORY:** No

F. **SEMESTER(S) OFFERED:** Fall & Spring

G. **COURSE DESCRIPTION:** This course is an internship course which integrates classroom work and practical experience for senior level students in Cybersecurity B.S. program. It is a structured field experience in which an intern acquires and applies knowledge and skills while working in a responsible role. Working with a supervisor, the student will perform prescribed work within an administrative or operational setting. The internship will be tailored to the individual student’s career interests and the needs of the supervising organization.

H. **PRE-REQUISITES/CO-REQUISITES:**
   a. Pre-requisite(s): Senior status in Cybersecurity B.S. program
   b. Co-requisite(s): None

I. **STUDENT LEARNING OUTCOMES:**

<table>
<thead>
<tr>
<th>Course Student Learning Outcome [SLO]</th>
<th>PSLO</th>
<th>ISLO</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Apply classroom theories, knowledge, skills and tactics to real world situations</td>
<td>3. Use a variety of computer hardware and software and other technological tools appropriate and necessary for the performance of tasks</td>
<td>2 [CA,IA,PS]</td>
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<tr>
<td></td>
<td>5. Analyze and resolve Cybersecurity problems through the application of systematic approaches, and complete all work in compliance with relevant policies, practices, processes, and procedures</td>
<td>3 [IM,QTR]</td>
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<td></td>
<td>6. Adapt to new situations and demands by applying and/or updating his/her knowledge and skills</td>
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2 [CA,IA,PS]
b. Assemble written course reports and revise them under the guidance of the faculty mentor

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<th>ISLO #</th>
<th>Institutional Student Learning Outcomes [ISLO 1 – 5]</th>
<th>ISLO &amp; Subsets</th>
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<td>1</td>
<td>Communication Skills</td>
<td>Oral [O], Written [W]</td>
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<td>2</td>
<td>Critical Thinking</td>
<td>Critical Analysis [CA], Inquiry &amp; Analysis [IA], Problem Solving [PS]</td>
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<td>3</td>
<td>Foundational Skills</td>
<td>Information Management [IM], Quantitative Lit./Reasoning [QTR]</td>
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<td>4</td>
<td>Social Responsibility</td>
<td>Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]</td>
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<td>Industry, Professional, Discipline Specific Knowledge and Skills</td>
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J. **APPLIED LEARNING COMPONENT:** Yes __X____ No _______

- Internship

K. **TEXTS:** None

L. **REFERENCES:** None

M. **EQUIPMENT:** Specific to internship

N. **GRADING METHOD:** A – F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

- Biweekly reports
- Final report
- Portfolio
- Field assessment(s)
- Oral presentation
P. **DETAILED COURSE OUTLINE:**

I. **Journal**
   A. Daily hours worked
   B. Daily activities/observations
   C. Notation of relevance to course work

II. **Biweekly reports**
   A. Cumulative hours worked
   B. Relevant activities and observations for the week
   C. Reflections on activities

III. **Final report**
   A. Cumulative hours worked
   B. Formal Report
   C. Screenshots and other appropriate documentation
   D. Summary of internship experience formatted according to instructions in the internship manual

IV. **Portfolio**
   A. Journal
   B. Cumulative biweekly reports with instructor feedback
   C. Final report
   D. Site supervisor evaluations
   E. Oral presentation slides

V. **Oral presentation**
   A. Arrange oral presentation with the instructor
   B. Oral presentation to faculty and/or students

Q. **LABORATORY OUTLINE:** Not applicable