WILMINGTON UNIVERSITY
COLLEGE OF TECHNOLOGY
MASTERS OF SCIENCE - INFORMATION SYSTEMS TECHNOLOGIES
BASIC COURSE INFORMATION

COURSE TITLE: Operating System and Computer Systems Security
COURSE NUMBER: SEC 6030

I. RATIONALE:

This course provides technical knowledge and develops employability skills necessary for success in the business-world of cybersecurity. Instructional Goals are based on NWCET (National Workforce Center for Emerging Technologies) IT Skills Standards and are closely aligned with the President's Critical Infrastructure Protection Board, National Strategy to Secure Cyberspace.

II. MAJOR INSTRUCTIONAL GOALS:

GOAL A: The student will learn about security models that rely on technology, operations, and finally literacy, awareness, training, and education

Learning Outcome: The students will be able to:
A-1 Identify, analyze, and evaluate infrastructure and network vulnerabilities
A-2 Develop, assess, and document security policies, practices, and procedures

GOAL B: The student will gain knowledge, skill, and ability (KSAs) in the areas of management, acquisition, design, implementation, operation, and testing of security systems

Learning Outcome: The students will be able to:
B-1 Develop data/information assurance plans
B-2 Implement data/information assurance strategies

GOAL C: The student will learn to focus on internalization and accommodation of KSAs through research, analysis, evaluation and judgment

Learning Outcomes: The student will be able to:
C-1 Identify and assess current and anticipated security risks and vulnerabilities
C-2 Evaluate current and emerging tools and technologies

III. SUPPLEMENTAL OBJECTIVES:

GOAL D: The student will become familiar with the American Psychological Association (APA) format for writing style

Learning Outcomes: The student will be able to:
D-1 Cite references in APA format
D-2 Construct a research manuscript (document) in APA format
D-3 Document tables and figures, headings, quotations, etc… in APA format
IV. METHODOLOGY

A. Teaching Methods
Teaching methods will include a combination of lectures, discussion, and structured in-class lab activities. A cooperative and participative learning strategy will be employed with every expectation that the student will contribute heavily, in a self-directed action-learning mode, to this education experience. Students should anticipate that assignments, and this syllabus, will be adjusted to match the pace of the course, the class size, and to meet the needs of individual students.

SEC 6030 is a Blackboard–Enhanced course. Students will be enrolled in Blackboard-enabled activities that accompany the service, and will be expected to regularly participate in assigned activities, which may be moderated by the instructor.

B. Evaluation Procedure
Research papers will be graded by rubrics, which are located in Blackboard (BB). Late assignments will be lowered on rubric grade level. Rubric scores will be converted (conversion table is also located in BB) to a numeric equivalent and assigned a grade based on Wilmington University grading scale, reflected below.

When an “Incomplete” is given as a class grade, the highest resulting “make-up grade will be a “B” (unless there is extenuating justification, such as serious medical issues or hospitalization).

Grades are determined by considering the following aspects of each student’s course experience:

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>Active class participation and discussion</td>
<td>10%</td>
</tr>
<tr>
<td>Labs (use Lab Manual)</td>
<td>10%</td>
</tr>
<tr>
<td>Quizzes (4)</td>
<td>15%</td>
</tr>
<tr>
<td>2 Research Papers due weeks 3 &amp; 5</td>
<td>15%</td>
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<tr>
<td>Midterm Exam</td>
<td>15%</td>
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<tr>
<td>Structured External Assignment (SEA) due week 7</td>
<td>20%</td>
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<tr>
<td>Final Exam (Comprehensive)</td>
<td>15%</td>
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V. CLASS PARTICIPATION:

Students are expected to attend class and participate actively and in a positive way. Questions and relevant observations are encouraged and enrich the experience of the entire class.

Computers in the classrooms are intended to be used as tools to enhance the students' learning experience. Instant messaging, gaming, emailing, and surfing the web are distractions to the student, the surrounding students, and the instructor and constitute inappropriate behavior. Students are ethically obliged to avoid these and similar practices.

VI. CLASS SCHEDULE - OUTLINES – READINGS:
Note: A cooperative and participative learning strategy will be deployed with every expectation that the student will contribute heavily, in a self-directed action-learning mode, to this educational experience. Students should anticipate that assignments, and this syllabus, will be adjusted to match the pace of the course, the class size, and to meet the needs of individual students.