

# COURSE SYLLABUS

<b>Course Title:</b>	Information Assurance & Risk Management	<b>Date submitted:</b>	October 2020 (AAC: 20-65)
<b>Department:</b>	STEAM		
<b>Curriculum:</b>	Computer Information Systems		
<b>Course Descriptors:</b> Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	<b>Course Code:</b> (eg. ACC 101)	<b>CST*247</b>	<b>Prerequisites:</b>  C- or better in Introduction to MIS (CST*201)
	<b>Course Type:</b>	<b>L/D</b>	
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: Internship M: Seminar P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/ Clinical/Lab Z: Combined Lecture/Studio		
	<b>Elective Type:</b>	<b>G</b>	
	AH: Art History E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science		
	<b>Credit Hours:</b>	<b>3</b>	<b>Corequisites:</b>  None
	<b>Developmental:</b> (yes/no)	No	
	Lecture:	3	
	Clinical:	0	
	Lab:	0	
Studio	0		
Other:	0		
<b>TOTAL:</b>	<b>3</b>		
<b>Class Maximum:</b>	24	<b>Other Requirements:</b>  None	
<b>Semesters Offered:</b>	F/S		
<b>Catalog Course Description:</b>	Introduces students to information assurance and the management of information related risks. Topics include information assurance vs. information security, compliance requirements, legal and regulatory issues, security policies, business continuity, asset identification, and classification, threats and vulnerabilities, applying risk management, and security controls. Students will also learn how to conduct a security gap analysis, create a risk management plan, and select an appropriate risk control. This course is Part 1 of 3 courses for the preparation for the CISSP exam.		
<b>Topical Outline:</b> <small>List course content in outline format.</small>	<ol style="list-style-type: none"> <li>1. Introduction to Confidentiality, Integrity and Availability (CIA Triad)</li> <li>2. Information Assurance Governance</li> <li>3. Legal and Regulatory Issues and Compliance Requirements</li> <li>4. Disaster Recovery and Business Continuity</li> <li>5. Security Policies, and Procedures</li> </ol>		

	<ol style="list-style-type: none"> <li>6. Asset Identification and Classification</li> <li>7. Asset Ownership and Responsibilities</li> <li>8. Applying Risk Management to protect information</li> <li>9. Asset Management Life cycle</li> <li>10. Selection of Security Controls</li> </ol>
<p><b>Outcomes:</b> Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.</p>	<p><b>Upon successful completion of this course, the student will be able to do the following:</b></p> <ol style="list-style-type: none"> <li>1. Demonstrate an understanding of all aspects of the information assurance landscape.</li> <li>2. Understand risk management fundamentals, perform a risk assessment, and develop a risk management plan.</li> <li>3. Explain the alignment of security governance principles with business goals.</li> <li>4. Understand the role of security policy, standards, procedures and guidelines.</li> <li>5. Explain the difference between Disaster Recovery, and Business Continuity.</li> <li>6. Identify and analyze risks, threats and vulnerabilities impacting an organization.</li> <li>7. Select countermeasures to mitigate the risk posed by threats and vulnerabilities.</li> <li>8. Understand Threat Modeling methodologies.</li> <li>9. Understand the value of security awareness to mitigate the risk of the "human factor"</li> <li>10. Identify and classify information and assets.</li> <li>11. Determine and maintain information and asset ownership.</li> <li>12. Select appropriate risk mitigation technique, and security controls.</li> </ol>
	<p><b>PROGRAM:</b> <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i></p> <p><b>Cybersecurity Associate of Science Degree</b></p> <ol style="list-style-type: none"> <li>3. solve computer-related problems</li> <li>7. synthesize computer information systems knowledge and skills in solving basic information processing systems problems</li> <li>10. knowledge of industry standard networking and communication technology</li> </ol>
	<p><b>GENERAL EDUCATION/TAP OUTCOMES:</b> <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i></p> <ol style="list-style-type: none"> <li>2. <b>Critical Analysis/ Logical Thinking</b> - Students will be able to organize, interpret, and evaluate evidence and ideas within and across disciplines; draw reasoned inferences and defensible conclusions; and solve problems and make decisions based on analytical processes.             <p><b>Demonstrates:</b> Identifies the issue(s); formulates an argument; explains and analyzes relationships clearly; draws reasonable inferences and conclusions that are logical and defensible; provides support by evaluating credible sources of evidence necessary to justify conclusions.</p> <p><b>Does Not Demonstrate:</b> Identifies few or no issues; formulates an argument without significant focus; provides an unclear explanation of analysis and relationships; drawing few reasonable inferences and conclusions that are illogical and indefensible; provides little to no support using credible sources of evidence necessary to justify conclusions.</p> </li> <li>3. <b>Ethical Dimensions</b> - Students will identify ethical principles that guide individual and collective actions and apply those principles to the analysis of contemporary social and political problems.</li> </ol>

	<p><b>Demonstrates:</b> Identifies and reflects critically on ethical issues presented in classroom instruction or in assigned co-curricular or civic activities and/or professional internships and practica.</p>
<p><b>Evaluation:</b> List how the above outcomes will be assessed.</p>	<p><b>Assessment will be based on the following criteria:</b></p> <ol style="list-style-type: none"> <li>1. Hands-on assignments and case studies will demonstrate an understanding of theories.</li> <li>2. Written examinations will demonstrate an understanding of major facts, procedures, and theories.</li> <li>3. A comprehensive project will demonstrate the ability to apply theories and knowledge to a specific situation.</li> </ol>
<p><b>Instructional Resources:</b> List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.</p>	<p><b>Required:</b> Computer Lab or Access to a computer with internet connectivity is required. No special software is required as a pre-requisite.</p> <p><b>Desired:</b> None</p>
<p><b>Textbook(s)</b></p>	<p>Refer to current academic year printout</p>