

COURSE OUTLINE: NASA205 - CISSP PREP

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NASA205: CISSP PREPARATION		
2196: NETWRK ARCH & SEC AN		
COMPUTER STUDIES		
19W		
This course provides a comprehensive review of information security concepts and industry best practices. Students will learn concepts and best practices from the eight domains of the CISSP Common Body of Knowledge: Security and Risk Management, Asset Security, Security Engineering, Communications and Network Security, Identity and Access Management, Security Assessment and Testing, Security Operations, and Software Development Security.		
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There are no pre-requisites for this course.		
There are no co-requisites for this course.		
 EES 2 Respond to written, spoken, or visual messages in a manner that ensures effective communication. EES 3 Execute mathematical operations accurately. EES 4 Apply a systematic approach to solve problems. EES 5 Use a variety of thinking skills to anticipate and solve problems. EES 7 Analyze, evaluate, and apply relevant information from a variety of sources. EES 10 Manage the use of time and other resources to complete projects. EES 11 Take responsibility for ones own actions, decisions, and consequences. 		
Passing Grade: 50%,		
Grade Definition Grade Point Equivalent A+ 90 - 100% 4.00 A 80 - 89% 4.00 B 70 - 79% 3.00 C 60 - 69% 2.00 D 50 - 59% 1.00 F(Fail) below 50% 0.00 CR (Credit) Credit for diploma requirements has been awarded. S Satisfactory achievement in field/clinical placement or non-graded subject area. U Unsatisfactory achievement in field/clinical placement or non-graded subject area. X A temporary grade limited to situations with extenuating circumstances giving a student additional time to complete the requirements for a course.		

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		n the course without academic penalty.	
	OTHER EVALUATION CONS	SIDERATIONS	
	test/quiz average of 50% or be 50% or better. A student who	the student must obtain an overall etter, as well as, an overall assignment average of is not present to write a particular test/quiz, and beforehand of their intended absence, may be subject to a	
	2. There will be no supplement course unless there are exten	ntal or make-up quizzes/tests in this uating circumstances.	
	professor. Late assignments v	nitted by the due date according to the specifications of the will normally be given a mark of zero. Late assignments will on of the professor in cases where there were extenuating	
		ubmissions, deemed to be copied, will ssigned to all students involved in	
	5. It is the responsibility of the requirements.	student to ask the professor to clarify any assignment	
	6. The professor reserves the to meet any changing needs of	right to modify the assessment process of the class.	
	Attendance:		
	performance and class attend are encouraged to attend all o arriving on time and remaining	student success. There is a direct correlation between academic lance, therefore, for the benefit of all its constituents, all students of their scheduled learning and evaluation sessions. This implies g for the duration of the scheduled session. It is the departmental n door has been closed, the learning process has begun. Late dmission to the room.	
		ther unavoidable circumstances should be discussed with the and may be assessed. The penalty depends on course hours and	
	Final penalties will be reviewe	ed and assessed at the discretion of the professor.	
Books and Required Resources:	CISSP: Certified Information Systems Security Professional Official Study Guide by Mike Chapple, James M. Stewart, Darril Gibson Publisher: Sybex Edition: 8th ISBN: 9781119475934 eText ISBN: 9781119475873		
		Learning Objectives for Course Outcome 1	

Learning Objectives:	Security and Risk Management	 Understand and apply concepts of confidentiality, integrity, and availability Evaluate and apply security governance principles Determine compliance requirements Understand legal and regulatory issues that pertain to information security in a global context Understand, adhere to, and promote professional ethics Develop, document, and implement security policy, standards, procedures, and guidelines Identify, analyse, and prioritise Business Continuity Requirements Contribute to and enforce personnel security policies and procedures Understand and apply risk management concepts Understand and apply threat modeling concepts and methodologies Apply risk-based management concepts to the supply chain Establish and maintain a security awareness, education, and training program
	Course Outcome 2	Learning Objectives for Course Outcome 2
	Asset Security	 Identify and classify information and assets Determine and maintain information and asset ownership Protect privacy Ensure appropriate asset retention Determine data security controls Establish information and asset handling requirements
	Course Outcome 3	Learning Objectives for Course Outcome 3
	Security Architecture and Engineering	 Implement and manage engineering processes using secure design principles Understand the fundamental concepts of security models Select controls based upon systems security requirements Understand security capabilities of information systems Assess and mitigate the vulnerabilities of security architectures, designs, and solution elements Assess and mitigate vulnerabilities in web-based systems Assess and mitigate vulnerabilities in mobile systems Assess and mitigate vulnerabilities in embedded devices Apply cryptography Apply security principles to site and facility design Implement site and facility security controls
	Course Outcome 4	Learning Objectives for Course Outcome 4
	Communication and Network Security	 Implement secure design principles in network architectures Secure network components Implement secure communication channels according to design
	Course Outcome 5	Learning Objectives for Course Outcome 5
	Identity and Access Management	 Control physical and logical access to assets Manage identification and authentication of people,

 Management
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	 devices, and services Integrate identity as a third-party service Implement and manage authorisation mechanisms Manage the identity and access provisioning lifecycle 	
Course Outcome 6	Learning Objectives for Course Outcome 6	
Security Assessment and Testing	 Design and validate assessment, test, and audit strategies Conduct security control testing Collect security process data Analyse test output and generate report Conduct or facilitate security audits 	
Course Outcome 7	Learning Objectives for Course Outcome 7	
Security Operations	 Understand and support investigations Understand requirements for investigation types Conduct logging and monitoring activities Securely provisioning resources Understand and apply foundational security operations concepts Apply resource protection techniques Conduct incident management Operate and maintain detective and preventive measures Implement and support patch and vulnerability management Understand and participate in change management processes Implement recovery strategies Implement Disaster Recovery processes Test Disaster Recovery Plans Participate in Business Continuity planning and exercises Implement and manage physical security Address personnel safety and security concerns 	
Course Outcome 8	Learning Objectives for Course Outcome 8	
Software Development Security	 Understand and integrate security in the Software Development Life Cycle Identify and apply security controls in development environments Assess the effectiveness of software security Assess security impact of acquired software Define and apply secure coding guidelines and standards 	

Evaluation Process and Grading System:	Evaluation Type	Evaluation Weight
	Class Participation	5%
	Take-Home Quizzes	20%
	Test: Domain 1-2	19%
	Test: Domain 3	10%
	Test: Domain 4-6	29%
	Test: Domain 7-8	17%
Date:	September 19, 2019	

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Addendum:

Please refer to the course outline addendum on the Learning Management System for further information.

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