The Information Assurance and Security Certificate offers coursework to successfully apply information technology theory and principles to address real world business opportunities and challenges. The coursework provides students with technical skills and interactive, hands-on experience in information systems, wireless networking, cyber security, cryptography, and systems security. This certificate concentrates on the concepts and principles of securing and protecting the information assets of the organization.

### CERT/IAS 001 Requirements

The Information Assurance and Security Certificate requires a minimum of 18 credits, which may come from a combination of required and elective courses.

**CIS207 Information Systems Fundamentals**
This course introduces the fundamentals of computer systems and the role of information processing in today's business environment. An overview is presented of information systems, systems development, operating systems and programming, database management, networking and telecommunications, and the Internet. (3 credits)

**CMGT245 Information Systems Security**
This course introduces general concepts of information systems security. Content includes governmental views, positions, and risk assessment and management. Coursework explores other concepts, including contingency and business resumption planning, backup schemes and implementation strategies, as well as various types of invasive actions and prevention measures. (3 credits)

**NTC247 Wireless Networking Concepts**
This course explores concepts of wireless networking systems, including wireless networking, topologies; hardware protocols; hardware selection and implementation; interfaces with LAN, MAN, and WAN networks; basic wireless security; and network integration concepts. (3 credits)

**POS221 Windows Server Configurations**
This course is a survey of Windows Server® Configuration. Topics emphasize the structure and the various applications supported by Windows Server®. The course includes access to hands-on Windows® lab exercises. (3 credits)

**CMGT230 Fundamentals Of Sscp**
This course introduces the basics of systems security. Emphasis is placed on access controls, networking, auditing, security operations, and malicious code activity. This course is aligned to the Systems Security Certified Practitioner (SSCP®) exam. (3 credits)

**CMGT232 Fundamentals Of Cyber Security And Cryptography**
This course introduces the basics of cyber security and cryptography encryption concepts. This course will provide an overview of the various security and encryption methods used in today's information technology and communication environments. (3 credits)

**IT200 Digital Skills For The 21st Century**
Digital Skills for the 21st Century is a course focus on the impact of digital technology on today's businesses, the economy, and society. Rapid advances in technologies are creating benefits and efficiencies for those businesses that recognize their advantages and pitfalls, and harness them to its advantages; those who can't are left behind with competitive disadvantages. Today's workforce need to understand these trends, recognize key differences among features and approaches of these technologies, and apply them effectively. Specific topics in this course includes cloud computing, unified communication platforms, cyber security, social media and mobile computing. (3 credits)

For more information about this program, including important consumer disclosures, please visit [http://www.phoenix.edu/content/altcloud/en/programs/ge/default/cert-ias.html](http://www.phoenix.edu/content/altcloud/en/programs/ge/default/cert-ias.html).

University of Phoenix is accredited by the Higher Learning Commission (http://hlcommission.org). For more information about University of Phoenix accreditations and licenses, please visit [http://www.phoenix.edu/about_us/accreditation.html](http://www.phoenix.edu/about_us/accreditation.html).

Please note: A typical schedule, including progression and title of courses, may vary by location and modality. Please contact an Enrollment Representative for more information.