

CITY - CYBERSECURITY - ASSOCIATE OF SCIENCE DEGREE

PROPOSAL INFORMATION

Action Proposed:Program Revision

Proposal Originator:David Kennemer

Origination

Date:06/07/2020

Proposed Start:Fall 2021

Need for Proposal:

2-year program review; Revise program and award description; Revise career options; Remove INWT 111, INWT 205, and INWT 210 from courses required to the major; Remove INWT 105, INWT 135, and BUSE 092 from required elective; Add CISC 179 and INWT 125 to courses required for the major; Add INWT 205 and INWT 210 to required electives; Update INWT 200 with revised course title. Updated consortium recommendation for revision from November 13, 2020 meeting attached.

Attached Documents:

[Advisory Approval](#)

[COE LMI - Cloud Technician Occupations 1](#)

[COE LMI - Computer Occupations All Other](#)

[COE LMI - Information Technology \(Imperial County\)](#)

[COE LMI - Information Security Analysts](#)

[COE LMI - Information Technology Administrators](#)

[COE LMI - Software Developers Applications](#)

[OccProfile, CA LMI SOC15-1122](#)

[OccProfile, CA LMI SOC15-1132](#)

[OccProfile, CA LMI SOC15-1142](#)

[OccProfile, CA LMI SOC15-1151](#)

[OccProfile, CA LMI SOC15-1199](#)

[Narrative Fall 2021](#)

[Regional Consortium Recommendation 2020-11-13_V1](#)

[Regional Consortium Recommendation 2020-11-13_V2](#)

[2018 Regional Consortia Recommendation](#)

PROGRAM & AWARD INFORMATION

Award Description:

The Associate of Science in Cybersecurity follows the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework with the common goal of developing critical knowledge, skills, and abilities to perform cybersecurity tasks. The curriculum includes hand-on experience in virtual environments that simulate real-world scenarios in the domains of security provisions, operations and maintenance, governance, protection and defense, analysis, collection, and investigation. This pathway includes preparation for industry-recognized certifications geared towards preparing students for a successful career in cybersecurity workforce roles that have an impact on an organization's ability to protect its data, systems, and operations.

Program Description:

The expanding field of Information Technology (IT) comprises various facets, including network administration and cybersecurity, telecommunications, computer support, computer science, software programming, and system analysis and design. Almost every company's business strategy relies on the use of information systems in order to succeed and grow into the future. For this reason, San Diego City College's Computer Information Systems Program offers a bridge between business, computer science, and information technology.

The Computer Information Systems program offers transfer and certification programs in the information system and information technology fields. These programs include computer literacy; application, web, and database programming; database administration; and a variety of vendor specific and vendor neutral industry-standard certification training. The roles of the various information system professionals are to design, implement, operate, and maintain a computer information system. These professionals also provide services in the networking areas such as systems engineers, systems administrators, security analysts, and network specialists.

Graduates of the program possess an applied knowledge of fields, such as web programming, system infrastructure, databases, networking, e-business, project management, data center management, security, and information assurance.

Program Goals:

This section is no longer updated in CurricUNET.

Program Emphasis:

Career Options:

Some careers in the cybersecurity field require education beyond the associate degree in either Cybersecurity or Information Assurance. Careers in the cybersecurity or information assurance field include: information security consultant, security administrator, security analyst, security engineer, security auditor, incident responder, penetration tester, vulnerability assessor, support technician, systems administrator, network administrator, and network specialist.

COURSES REQUIRED FOR THE MAJOR:

UNITS

CISC 179	Python Programming *Active*	4
INWT 101	Introduction to Information Security *Active*	3
INWT 120	Network+ Certification Training *Active*	4
INWT 125	Cloud+ Certification Training *Approved*	3
INWT 140	Security+ Certification Training *Active*	3
INWT 145	Linux+ Certification Training *Active*	4
INWT 170	Cybersecurity Analyst+ (CySA+) Certification Training *Active*	3
INWT 200	Ethical Hacking and Penetration Testing *Approved*	4

SELECT ONE COURSE FROM THE FOLLOWING:

UNITS

INWT 100	A+ Certification Training *Active*	4
INWT 205	CompTIA Advanced Security Practitioner (CASP) Certification Training *Active*	4
INWT 210	Introduction to Computer Forensics Investigation *Active*	3

Total Units

31 - 32

DATES & CODES

CIC Approval: 12/10/2020

Board Approval: 03/11/2021

State Approval:

TOP Code: 0708.00

State Approval (Unique) Code: 36915

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