

Item #7.2
January 24, 2020

Illinois Community College Board

NEW UNITS OF INSTRUCTION

The Illinois Community College Board is requested to approve new units of instruction for the following community colleges:

RECOMMENDED ACTION

It is recommended that the following motion be adopted:

The Illinois Community College Board hereby approves the following new units of instruction for the community colleges listed below:

TEMPORARY PROGRAM APPROVAL

Waubonsee Community College

➤ Cybersecurity Associate in Applied Science (A.A.S.) degree (60 credit hours)

BACKGROUND

Waubonsee Community College

Cybersecurity A.A.S. degree (60 credit hours)

Program Purpose: This program will prepare individuals for entry-level employment as cybersecurity specialists in a variety of settings.

Catalog Description: This program is designed to provide entry-level skills in managing information security systems, consists of preserving information confidentiality and protection, risk management, data and system integrity, availability, authenticity, utility and combines fundamental information technology and IT security core curriculum. The program is based on information security concepts, principles, methods, techniques, practices, and procedures that guide today’s IT security professionals. Graduates will be qualified for entry-level careers in cybersecurity and information assurance in federal, state and local agencies, and the private sector as IT security specialists, firewall and VPN specialists and data assurance specialists. In addition, students will be prepared for COMPTIA, Net+, A+, CCENT and CCNA certifications.

Curricular Information: The curriculum includes 15 credit hours of required general education, and 45 credit hour of required career and technical education coursework. The career and technical component includes instruction in business information systems, information technology professional, networking essentials, management network environments, security awareness, penetration testing, cloud technology, ethical hacking, firewalls and VPNs, introductory programming, Java programming, Linux/UNIX Operating systems, CISCO I and II, and introductory scripting. Assessment of student learning will be achieved through evaluation of the student’s performance on comprehensive projects and practice credentialing exams for assessment purposes. The program will prepare graduates for industry credentialing in CompTIA Net+ and A+, and CISCO Certified Entry Networking Technician (CCNET) and Certified Network Associate (CCNA).

Accrediting Information: The college plans to seek optional program accreditation through the Center of Academic Excellence 2-Year (CAE2Y), established by the National Security Agency (NSA) and Department of Homeland Security (DHS), with the support of the National Science Foundation (NSF) and CyberWatch for program who have successfully mapped outcomes to their training standards.

Justification for Credit hours required: NA.

Supporting Labor Market Data (including employer partners): Labor market information provided by the college supports the interest in and the need for a degree program in this field of study. According to the Illinois Department of Employment Security (IDES), employment growth in related cybersecurity occupations is expected to increase statewide between 6.6 – 22.9%, and by 17% within the college’s district, through the year 2026. The college was recently approved to offer a related basic Cybersecurity Certificate, which fully articulates towards the proposed degree. The proposed degree will provide an educational ladder opportunity for those individuals as well as those who have taken related information technology coursework, such as in networking.

Table 1: Employer Partners

Employer	Location
IBM-US Midwest	Batavia, IL
APS Data Technologies	Aurora, IL

Table 2: Projected Enrollments

Cybersecurity AAS degree	First Year	Second Year	Third Year
Full-Time Enrollments:	10	15	20
Part-Time Enrollments:	5	10	10
Completions:	-	10	20

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Financial / Budgetary Information: The program will require two (2) existing full-time and four (4) existing part-time faculty the first year. Qualified faculty will hold at least a Bachelor’s degree, in an IT Cybersecurity-focus area, hold at least one year related work experience and one year teaching experience. No new costs are anticipated to implement the proposed program. All facilities are adequately in place to support the program which will share existing resources with the current Information Technology programs being offered. The program will otherwise be supported fiscally through student tuition and fees.

Table 3: Financial Information

	First Year	Second Year	Third Year
Faculty Costs	\$0	\$0	\$0
Administrator Costs	0	0	0
Other Personnel costs	0	0	0
Equipment Costs	0	0	0
Library/LRC Costs	0	0	0
Facility Costs*	0	0	0
Other	0	0	0
TOTAL NEW COSTS	\$0	\$0	\$0

Table 4: Faculty Requirements

	First Year		Second Year		Third Year	
	Full-time	Part-time	Full-Time	Part-time	Full-Time	Part-time
New Faculty	0	0	0	0	0	0
Existing Faculty	2	4	2	4	2	4

Rationale for Temporary Approval: Temporary approval of this program for a period of three years is requested to allow the college to monitor program and student progress, particularly for those students currently working full-time and while the college pursues program accreditation. CAEYA designation requires the program be in existence for three years and have one year of students completed.