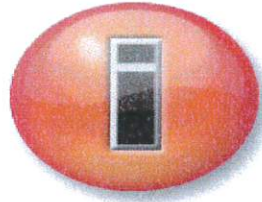


AGENDA



INFORMATION SYSTEMS ADVISORY COUNCIL

November 4, 2022

Bremer Conference Center/109-110

Zoom Link: <https://us02web.zoom.us/j/2174438788>

Working Lunch at 12noon-1:30pm

1. Introductions
2. Review of Curricula
 - Applied Computer Science Degree -- Kathy Hunter
 - Web Design Certificate -- Kathy Hunter
 - Computer Programming Certificate -- Kathy Hunter
 - Communications and Networking Degree and Certificate--Jeff Wise
 - Cisco Certificate--Jeff Wise
3. Future Trends and Needs

Mission Statement

Danville Area Community College is committed to providing quality, innovative, and accessible learning experiences which meet the life-long academic, cultural, and economic needs of our diverse communities and the world we share.

Applied Computer Science AAS
Proposed degree - Nov 2022 Advisory Council

Created: 11/2/22

First Semester	Credits
CBUS 150 Business Computer Systems	3
CSCI 101 Intro to Python Programming	3
CSCI 130 Intro to Web Design HTML5/CSS3	3
<i>MATT 133 Technical Mathematics OR MATH 115 Survey of Statistics</i>	4 / 3
<i>ENGL 121 Communication Skills or ENGL 101 Rhetoric and Composition</i>	3
Total	16
Second Semester	
INFO 100 Orientation to IT Professions	2
CSCI 100 Intro to C++ Programming	3
CSCI 131 Web Programming: JavaScript	3
CSCI 150 Database Operations: SQL	3
CSCI 201 Advanced Python Programming	3
<i>SPCH 101 Speech</i>	3
Total	17
Third Semester	
CSCI 103 Intro to Java Programming	3
CSCI 200 Advanced C++ Programming	3
Technical Elective **	3
Technical Elective **	3
<i>Gen Ed Elective</i>	3
Total	15
Fourth Semester	
CSCI 203 Advanced Java	3
INFO 290 Supervised Occupational Experience OR CSCI 205 Programming Integrated Project	3
Technical Elective **	3
Technical Elective **	3
<i>Gen Ed Elective</i>	3
Total	15

Degree Total: 63

** See list of Technical Electives below

Applied Computer Science AAS
Proposed degree - Nov 2022 Advisory Council

Technical Electives	
Course	Offered
CSCI 151 Database Design Principles	Fall Spring Summer
CSCI 152 Power BI	Fall Spring Summer
CSCI 250 Python for Data Analytics	Fall Spring Summer
CSCI 230 Web Programming: PHP/MySQL	Fall
CSCI 231 Developing Mobile Apps	Spring
CSCI 204 Intro to Game Programming	Fall Spring Summer
CSCI 105 Intro to 3D Computer Graphics	Fall Spring
CSCI 106 Intro to Unreal 3D Design Engine	Fall Spring
INFO 153 A+ Certification Prep	Fall
INFO 173 Linux Operating System	Spring
ROBO 100 Introduction to Robotics	Fall Spring

Possible future courses?

- Database Programming
- Database Administration
- SQL Server Services (SSIS, SSRS)
- Cloud Development
- Tableau

CERTIFICATE PROGRAM

Danville Area Community College
2022-2023

Python Programming

Certificate Program

The certificate program in Python Programming prepares the students for employment as entry level Python programmers. The student receives instruction in Python, and basic web authoring and database languages.

REQUIRED COURSES	HOURS	F,S,I,SU	GRADE
CBUS 150 Business Computer Systems	3		
CSCI 101 Intro to Python	3		
CSCI 201 Adv Python	3		
CSCI 130 Intro to Web Design	3		
CSCI 150 Database Operations: SQL	3		

Total 15

CERTIFICATE PROGRAM

Danville Area Community College
2022-2023

Java Programming

Certificate Program

The certificate program in Java Programming prepares the students for employment as entry level Java programmers. The student receives instruction in Java and basic web authoring and database languages.

REQUIRED COURSES	HOURS	F,S,I,SU	GRADE
CBUS 150 Business Computer Systems	3		
CSCI 101 Intro to Python or CSCI 100 Intro to C++	3		
CSCI 201 Adv Python or CSCI 200 Adv C++	3		
CSCI 103 Intro to Java	3		
CSCI 203 Adv Java	3		
CSCI 130 Intro to Web Design	3		
CSCI 150 Database Operations: SQL	3		

Total 21

CERTIFICATE PROGRAM

Danville Area Community College
2022-2023

C++ Programming

Certificate Program

The certificate program in C++ Programming prepares the students for employment as entry level C++ programmers. The student receives instruction in C++ and basic web authoring and database languages.

REQUIRED COURSES	HOURS	F,S,I,SU	GRADE
CBUS 150 Business Computer Systems	3		
CSCI 100 Intro to C++	3		
CSCI 200 Advanced C++	3		
CSCI 130 Intro to Web Design	3		
CSCI 150 Database Operations: SQL	3		

Total 15

CERTIFICATE PROGRAM

Danville Area Community College
2022-2023

Web Design

Certificate Program

The certificate program in Internet Design prepares the students for employment as **entry level** web designers. The student receives instruction in the HTML programming and current web authoring tools.

REQUIRED COURSES	HOURS	F,S,I,SU	GRADE
CBUS 150 Business Computer Systems	3		
INFO 135 Concepts in Programming: C++ Chg to: CSCI-101 Intro to Python	3		
INFO 153 A+ Software Preparation Chg to: CSCI-130 Intro to Web Design	3		
INFO 165 Intro to C# Programming (pre: INFO 135) Remove	3		
CSCI 131 Web Programming: JavaScript	3		
CSCI 230 Web Programming: PHP/MySQL	3		
CSCI 231 Developing Mobile Apps	3		
ENGL 121 Communication Skills Remove	3		
MATT 133 Technical Mathematics Remove	4		

Total 28

New: **18**

Computer & Network Administration

Networking & Cybersecurity

Associate in Applied Science Degree

This program will provide training and education for individuals interested in developing their knowledge and skills as a local area network administrator. The courses emphasize practical skills required to perform duties in the work environment under the supervision of an experienced local area network administrator. Students will participate in occupational work-site experiences. This program prepares the student for the Microsoft Certified Professional (MCP) examination and the Cisco certification exam, CCNA. This is an occupational program typically not designed to transfer; however, this program has been articulated to some senior institutions. Please contact a counselor for specific details.

This program will provide training and education for individuals interested in developing their knowledge and skills as a computer network administrator. The courses emphasize practical skills required to perform duties such as PC repair and troubleshooting, network administration, server administration, and cloud administration, with all courses focusing on network and information security. Students will participate in occupational work-site experiences. This program prepares the student for several industry certification exams. This is an occupational program typically not designed to transfer; however, this program has been articulated to some senior institutions. Please contact a counselor for specific details.

First time degree seeking students must complete INST101, Success in College, as a requirement for graduation.

REQUIRED COURSES	HOURS	F,S,I,SU	GRADE
First Semester			
CBUS 150 Business Computer Systems	3		
INFO 133 Cisco I	3		
INFO 153 A+ Certification Prep	3		
INFO 163 Client Operating Systems INFO 166 Server Administration	3		
INFO 100 Orientation to IT Professions	2		
Total	42	14	
Second Semester			
INFO 183 Cisco II (pre: INFO 133)	3		
INFO 190 Worksite Seminar	4		
INFO 213 Server Operating Systems INFO 167 Virtualization	3		
INFO 173 Linux Operating System	3		
INFO 235 Cloud Technology	3		
ENGL 121 Communication Skills or ENGL 101 Rhetoric and Composition I	3		
Total	46	15	
Third Semester			
INFO 203 Cisco Network Academy III	3		
INFO 253 Managing a Network Environment INFO 266 Microsoft Security	3		
INFO 294 Wireless Networking	3		
MATT 133 Technical Mathematics or MATH 115 Survey of Statistics	4 / 3		
ENGL 122 Technical Communication Gen Ed Elective	3		
INFO 245 Employment Seminar	4		
Total	47	16	
Fourth Semester			
INFO 263 Network Security Ethical Hacking	3		
INFO 273 Cisco IV	3		

Social Science Elective Gen Ed Elective	3		
INFO 290 Supervised Occupational Exp	3		
SPCH 101 Oral Communication Gen Ed Elective	3		
SPCH 113 Group Discussion INFO 267 IoT (Internet of Things)	3		
Total	18		

Total Hours 63

CERTIFICATE PROGRAM

Danville Area Community College 2022-2023

Cisco Certificate Program

This program will provide intense training and education for individuals with prior knowledge in the networking field. This sequence of courses is designed to meet employment standards for the networking industry. This program prepares the student for the Cisco certification exam: Cisco Certified Networking Associate (CCNA).

REQUIRED COURSES	HOURS	F,S,I,SU	GRADE
INFO 133 Cisco I	3		
INFO 183 Cisco II (pre: INFO 133)	3		
INFO 203 Cisco III (pre: INFO 183)	3		
INFO 273 Cisco IV (pre: INFO 203)	3		
ENGL 121 Communication Skills	3		
MATT 133 Technical Mathematics (pre: MATT 132 or Placement Exam)	4		
Total	19		

+Knowledge of keyboard or enrollment in BOFF 115 is encouraged.

Enrollment in developmental classes may increase the length of time it takes to complete a certificate.

Gainful Employment:

For program costs, completion and graduate information see
<https://www.dacc.edu/assets/pdfs/cguides/2021-2022/GEA/Cisco.pdf>