EXHIBIT B



BOARD OF TRUSTEES

Bylaw, Policy, and Curriculum Committee Agenda Items

To:

Board of Trustees

From:

Office of the President

Date:

February 16, 2023

The following Bylaw, Policy, and Curriculum Committee items are recommended to the Ocean County College Board of Trustees for approval at its meeting on Thursday, February 23, 2023:

- 1. Recommend approval of the following items as accepted by the College Senate at its meeting on February 2, 2023:
 - a. Revised policy:
 - 1) Policy #5128, Students, Admission, Acceptance and Evaluation of Credits (Exhibit B-1)
 - b. New Program Options
 - 1) Associate in Applied Science Degree in Computer Science/Information Technology, Cybersecurity Option (Exhibit B-2)
 - 2) Associate in Science Degree in Business Administration, Accounting Option (Exhibit B-3)
 - c. New Courses
 - 1) CSIT 145, Computing Fundamentals (Exhibit B-4)
 - 2) CSIT 146, Introduction to Cybersecurity (Exhibit B-5)
 - 3) CSIT 242, Penetration Testing Fundamentals (Exhibit B-6)
 - 4) CSIT 243, Cisco Networking Fundamentals (Exhibit B-7)
 - 5) CSIT 244, Digital Forensics Fundamentals (Exhibit B-8)
 - d. Inactivate Program
 - 1) Associate in Arts Degree in Global Studies (Exhibit B-9)

EXHIBIT B-1

STUDENTS
ADMISSION
Acceptance and
Evaluation of Credits #5128

POLICY

Acceptance and evaluation of credits are subject to the provisions listed below:

- Only courses listed on an official transcript from a college or university accredited by an institutional raccreditator recognized by the United States Department of Education (USDE) egionally accredited member institutions of the American Council on Education are accepted for advanced standing subject to the following conditions:
 - a. Credit will be granted for courses completed with grades of "C" or better or the equivalent numerical classification. Grades of "D" may be accepted for transfer to Ocean County College only if the student was in good academic standing (i.e., a 2.00 CUM GPA or equivalent) upon leaving the sending institution. Grades of "D" earned in the first part of a sequential course may be accepted if followed by a grade of "C" or better in the second half of the sequence.
 - b. Course content must be equivalent to a corresponding course offered at Ocean County College when it is accepted for credit in lieu of a course specified as a general degree or a curriculum requirement (e.g., ENGL 151 for all degrees). A maximum of one-half of the number of semester hours required for the Associate degree may be granted for elective courses at the discretion of the Registrar.
 - c. The maximum credits allowable is one-half of the total number of semester hours required for the Associate degree for the curriculum chosen.
- 2. Credits granted for work done while in the Armed Services:
 - a. Students who have served in the U.S. Armed Forces will be_-granted college credits under the conditions specified by the American Council on Education. All evaluations of credits shall be made on the basis of recommendations issued in its "Guide to the Evaluation of Educational Experiences in the Armed Services." "Request for Military Evaluation" forms will be processed only for matriculated students. For example; Veterans, active duty personnel, reservists, and National Guard members who have completed Basic Military/Recruit Training may apply to receive 3 credits for HEHP 893 in accordance with the American Council on Education guidelines. A copy of DD Form 214, Notice of Basic Eligibility, Commander's Certificate of Eligibility, or any other document that provides proof of completion of recruit training and a request for HEHP credit must be submitted to the Financial Aid Office.
 - b. No credit shall be given for U.S. Armed Forces Institute courses in which the student fails to achieve a score equivalent to "C" or better.

STUDENTS ADMISSION Acceptance and Evaluation of Credits #5128

- Credit may be granted for courses taken under the U.S. Armed Forces Institute C. only when they are completed, with final examination, before the student matriculates at Ocean County College.
- d. The Registrar shall not grant more than one-half of the total number of semester hours required for the Associate degree for U.S. Armed Forces Institute courses, service training courses, and Comprehensive Examination or G.E.D. Test - College Level.
- Advance credit for Military (USAF 1) Comprehensive College Tests will be e. evaluated and accepted according to the following criteria:
 - I. Advanced credit for USAF 1 and/or CLEP tests will be evaluated and accepted on the basis of departmental criteria and approval by the Vice President of Academic Affairs.
 - II. Maximum of one-half of the total number of semester hours required for the Associate degree will be granted.

Advanced Placement (AP) examinations approved for credit by Ocean County College will be evaluated and credit awarded in accordance with Policy 5140.

ADOPTED: August 26, 1968

Revised: April 26, 1971

Revised: June 26, 1972

Revised: May 21, 1973

Revised: February 25, 1974

Revised: August 27, 1979

Revised: June 27, 1988

Revised: December 7, 1992

Revised: December 6, 1993

Revised: April 22, 1996

Revised: March 24, 1997

Revised: February 28, 2000

Revised: November 20, 2000

Revised: March 24, 2003

Revised: December 1, 2008

Revised: March 28, 2011

Revised: May 29, 2012

Revised: June 1, 2017

Revised: February 24, 2022

EXHIBIT B-2



BOARD OF TRUSTEES

RESOLUTION

- WHEREAS, Ocean County College desires to offer a new Cybersecurity Option in its Associate in Applied Science degree in Computer Science/Informational Technology; and
- WHEREAS, the Cybersecurity option is designed to provide students to apply their work experience to earning an associate degree by earning credit for work experience, military experience, trade/proprietary school preparation, apprenticeship programs, certifications, and on-the-job training; and
- WHEREAS, a graduate of this program will be able to explain the current topics and techniques of cybersecurity; apply concepts, principles, and technologies of information security; and demonstrate foundational computer science and cybersecurity knowledge, and an understanding of cryptography, authentication, and intrusion detection technology; and
- WHEREAS, this program prepares students for career advancement in cybersecurity;
- NOW, THEREFORE, BE IT RESOLVED that the Ocean County College Board of Trustees, at its meeting on February 23, 2023, approves the Cybersecurity Option of the Associate in Applied Science Computer Science/Information Technology degree.

February 23, 2023

Stephan R. Leone Secretary

Program Change Request

Date Submitted: 12/09/22 10:49 am

Viewing: AAS.CS.CY: Computer

Science/Informational Technology - Option in Cybersecurity, Associate in Applied Science

Last approved: 12/08/22 11:34 pm

Last edit: 01/26/23 4:00 pm

Changes proposed by: Susan O'Connor (soconnor)

Program Type

Option

Program Title

Computer Science/Informational Technology - Option in Cybersecurity,

Associate in Applied Science

Option Title

Option in Cybersecurity

Academic School

Science, Technology, Engineering,

Mathematics

Base Program

Computer Science/Information Technology,

Associate in Applied Science

Effective Catalog

2023-2024

Year

Program Code

AAS.CS.CY

CIP Code

110101 - Computer and Information Sciences,

General.

Program Description

In Workflow

- 1. STEM Academic Administrator
- 2. STEM Dean
- 3. Director of Curriculum
- 4. Curriculum

 Committee Chair
- 5. Senate Chair
- 6. Vice President of Academic Affairs
- 7. President's Leadership Team Chair
- 8. President
- 9. Board of Trustees Chair
- 10. Academic

 Administrator for

 Programs

Approval Path

1. 01/19/23 4:29 pm Susan O'Connor (soconnor):

> Approved for STEM Academic

Administrator

2. 01/19/23 4:29 pm Susan O'Connor (soconnor):

Approved for STEM
Dean

3. 01/19/23 4:29 pm Susan O'Connor (soconnor):

Approved for Director of Curriculum

- 4. 01/26/23 4:30 pm
 Heather Sciarappa
 (hsciarappa):
 Approved for
 Curriculum
 Committee Chair
- 5. 02/02/23 4:13 pm Robert Marchie (rmarchie): Approved for Senate Chair
- 6. 02/02/23 4:44 pm
 Joseph Konopka
 (jkonopka):
 Approved for Vice
 President of
 Academic Affairs

History

1. Dec 8, 2022 by Susan O'Connor (soconnor) The Cybersecurity option in the Computer Science/Informational Technology, Associate in Applied Science is designed to provide students the opportunity to apply their work experience to earning an associate degree in applied science. Students can earn credit for their work experience while they prepare for career advancement. Up to 17 credits may be awarded for work experience, including military experience, trade/proprietary school preparation, apprenticeship programs, certifications, and on-the-job-training.

This career program prepares students for entry-level positions in a multitude of computer-related jobs.Both computer scientists and information technologists need a balance of software and hardware applications with specific courses emphasizing effective problem solving.The software development process, (composing and coordinating component of a program) requires that students construct algorithms for problem solving with appropriate documentation.This curriculum has been designed to prepare the student to meet the future needs of integration, design, deployment, and management of computing, resources and services.A graduate of the program will have a firm understanding of modern programming practices and related skills in computer information technology.The department recommends the following minimal criteria for prospective students in the Computer Science/Information Technology program:1.High school diploma or equivalent 2.Cumulative high school grade point average of C or above 3.Ranked in top half of high school graduating class 4.No developmental studies requirement The AAS in Computer Science offers the following concentrations:Information Technology Cloud Computing Data Management Networking Programming

Program Learning

Outcomes

| | Students who successfully complete this program will be able to: |
|--------------------------------|---|
| PLO1 | Explain the current topics and techniques of cybersecurity. Describe the main functions of an operating system. |
| PLO2 | <u>Apply</u> Identify the <u>concepts, principles</u> , <u>basic concepts of the computer system</u> and <u>technologies of information security</u> . <u>computer architecture</u> . |
| PLO3 | Demonstrate foundational computer science and cybersecurity knowledge. Identify the major computer data, instruction and addressing formats: |
| PLO4 | <u>Demonstrate an understanding of cryptography, authentication, and intrusion</u> <u>detection technologies.</u> Recognize the problems involved in program portability and be able to identify the solutions to these problems. |
| PLO5 | Describe the software life cycle. |
| PLO5 PLO6 | $\underline{\underline{x}}$ Identify the requirements and rationale for allocating static, dynamic and virtual memory. |
| <u>PLO6</u> PLO7 | <u>x</u> Discuss the rationale and implement both member and friend examples of operator overloading. |

| | Students who successfully complete this program will be able to: |
|---------------------------------|---|
| PLO7 PLO8 | <u>x</u> Explain the benefits of derived classes (including private, protected and public data members and methods) and implement examples of derived classes. |
| PLO8 | <u>x</u> Analyze (big O) sequential, binary and hashing algorithms. |
| <u>PLO9</u> PLO10 | <u>x</u> Analyze (big O) common selection, exchange and insertion sorting algorithms. |
| PLO10 PLO11 | <u>x</u> Discuss the benefits, resource requirements and implementation of logical sorting algorithms. |
| PLO11 PLO12 | <u>x</u> Explain the concepts, data structure and benefits involved in logically representing common data structures algorithms, such as ordered lists, stacks, queues and trees. |
| PLO12 PLO13 | <u>x</u> Demonstrate independent thinker through mathematical, scientific and philosophical reasoning. |
| PLO13 PLO14 | <u>x</u> Communicate effectively through reading, listening, speaking, and writing. |
| PLO14 PLO15 | $\underline{\mathbf{x}}$ Solve problems by collecting, organizing and evaluating information. |

Learning Outcomes Display (show only)

| Course | PLO |
|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| Code | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |

Required Qualifications

Program Requirements

| Credit Hours |
|----------------------------|
| 3 |
| <u>3</u> |
| 4 |
| 3 |
| 3 |
| <u>Jsing Unix</u> <u>3</u> |
| ent 3 |
| |

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MATH 151 A Survey of Mathematics
  MATH 171 Finite Mathematics
  MATH 181 Introduction to Probability
  or Higher than MATH 181
             Credit Hours
                                                           16
Second Semester
ENGL 152
             English II
                                                           3
                                                           4
CSIT 166
             Programming II
CSIT 176
             Computer Organization & Architecture
Computer Science/Information Technology Program Electives6
CSIT 185
             Networking I
                                                           3
                                                           3
CSIT 145 - Computing Fundamentals
                                                           <u>3</u>
CSIT 242 - Penetration Testing Fundamentals
             Credit Hours
                                                           16
Third Semester
Computer Science/Information Technology Program Electives6
Lab Science Gen. Ed. Requirement
                                                           4
                                                           3
COMM 154 Fundamentals of Public Speaking
                                                           3
Humanities or Social Science Gen. Ed. Requirement
                                                           3
CSIT 186
             Networking II
CSIT 200
             Information Security Fundamentals
                                                           <u>3</u>
Any Gen. Ed. Requirement
                                                           8
             Credit Hours
                                                           14
Fourth Semester
                                                           3
CSIT 213
             Database Management
Computer Science/Information Technology Program Electives6
             Introduction to Python Programming
CSIT 168
                                                           2
             Ethical Hacking: Hacker Techniques and Tools
CSIT 240
                                                           3
                                                           3
CSIT 243 - Cisco Networking Fundamentals (CCNA)
CSIT 244 - Digital Forensics Fundamentals
                                                           3
Elective(s) to make 60 credits
                                                           3
             Credit Hours
                                                           14
             Total Credit Hours
                                                           60
Computer Science/Information Technology Computer Science/Information Technology Electives
Course List Code Title Credit Hours Students can choose any CSIT course (CSIT 115 or higher). Students are not
required to select a specific area of interest/concentration.
Business Studies Elective
ACCT 161 Principles of Accounting 1
BUSN 131Introduction to Business Administration3
BUSN 134Principles of Marketing
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How does this option differ from it's base program?

Outside of the General education changes, there are 6 new courses here totaling 18 credits.

They replace computer science electives and free elective. This is within the boundaries of a formal option.

Degree Requirements Breakdown

| GCOM | Course Code & Title | Credits | | |
|-------------------|--------------------------------------|------------------------|--|--|
| | ENGL 151 | 3 | | |
| | ENGL 152 | 3 | | |
| GHUM | Course Code & Title | Credits | | |
| | HUMN GEN ED REQ | 3 | | |
| | <u>X</u> | <u>x</u> | | |
| GSOC | Course Code & Title | Credits | | |
| | SOCIAL SCIENCE GEN ED REQ | 3 | | |
| | <u>x</u> | <u>×</u> | | |
| GSOC/ GHUM | Course Code & Title | Credits | | |
| | SOCIAL SCIENCE OR HUMN GEN ED REQ | 3 | | |
| GMAT/ GSCI/ GTEC | Course Code & Title | Credits | | |
| | MATH LAB SCIENCE GEN ED REQ | <u>3</u> 4 | | |
| General Education | Course Code & Title | Credits | | |
| | ANY GEN ED REQ COMM 154 | <u>8</u> 3 | | |
| Concentration | Course Code & Title | Credits | | |
| Courses | CSIT 166 | 4 | | |
| | CSIT 176 | 3 | | |
| | <u>COMP</u> COMP/IT PROGRAM ELECTIVE | <u>5</u> 18 | | |
| | CSIT 213 | 3 | | |

AAS.CS.CY: Computer Science/Informational Technology - Option in Cybersecurity, Associate in Applied Science

| Course Code & Title | Credits |
|---|----------|
| CSIT 165 | 4 |
| <u>CSIT 144</u> BUSN ELECTIVE | 3 |
| <u>CSIT 185</u> MATH 151, 171, OR 181 OF HIGHER | 3 |
| <u>CSIT 240</u> | <u>3</u> |
| <u>CSIT 241</u> | <u>3</u> |
| <u>CSIT 186</u> | <u>3</u> |
| <u>CSIT 200</u> | <u>3</u> |

Elective Courses

| Course Code & Title | Credits |
|----------------------------|-------------------------|
| ELECTIVE N/A (this is AAS) | <u>3</u> N/A |

Board Approval

History of Board

approval dates

NEW DECEMBER 2022 CREATED AS OPTION - Susan entered the base program and then edited the option into it. This is not actually a revision but a new option.

Reviewer

Comments

Key: 104

EXHIBIT B-3



BOARD OF TRUSTEES RESOLUTION

- WHEREAS, Ocean County College desires to offer a new Accounting Option in its Associate in Science degree in Business Administration; and
- WHEREAS, the Data Analytics option is designed to prepare students for entry-level positions in the accounting profession; and
- WHEREAS, a graduate of this program will be able to analyze and journalize transactions, prepare financial statements of companies, and learn the managerial aspects involved in accounting, as well as understand the basic roles of sole proprietorships, corporations, and partnerships; and
- WHEREAS, this program prepares students to transfer to a baccalaureate program in accounting;
- NOW, THEREFORE, BE IT RESOLVED that the Ocean County College Board of Trustees, at its meeting on February 23, 2023, approves the Accounting Option of the Associate in Science Business Administration degree.

February 23, 2023

Stephen R. Leone Secretary

Program Change Request

Date Submitted: 01/24/23 3:37 pm

Viewing: AS.BA.ACCT: Business Administration -

Option in Accounting, Associate in Science

Last approved: 01/24/23 12:51 pm

Last edit: 01/26/23 3:47 pm

Changes proposed by: Susan O'Connor (soconnor)

Program Type

Option

Program Title

Business Administration - Option in Accounting, Associate in Science

Option Title

Option in Accounting

Academic School

Business and Social Sciences

Base Program

Business Administration, Associate in Science

Effective Catalog

2023-2024

Year

Program Code

AS.BA.ACCT

CIP Code

52.0201 - 52.0201

Program Description

In Workflow

- 1. BS Academic Administrator
- 2. BS Dean
- 3. Director of Curriculum
- 4. Curriculum

 Committee Chair
- 5. Senate Chair
- 6. Vice President of Academic Affairs
- 7. President's Leadership Team Chair
- 8. President
- 9. Board of Trustees Chair
- 10. Academic

 Administrator for

 Programs

Approval Path

1. 01/24/23 3:38 pm Susan O'Connor (soconnor): Approved for BS Academic

Administrator

- 2. 01/24/23 3:38 pm Susan O'Connor (soconnor): Approved for BS Dean
- 3. 01/24/23 3:39 pm Susan O'Connor (soconnor):

Approved for Director of Curriculum

- 4. 01/26/23 4:30 pm
 Heather Sciarappa
 (hsciarappa):
 Approved for
 Curriculum
 Committee Chair
- 5. 02/02/23 4:13 pm Robert Marchie (rmarchie): Approved for Senate Chair
- 6. 02/02/23 4:45 pm
 Joseph Konopka
 (jkonopka):
 Approved for Vice
 President of
 Academic Affairs

History

1. Jan 24, 2023 by Susan O'Connor (soconnor)

The <u>Associate</u> AS in <u>Science (A.S.) Degree in Accounting</u> Business Administration is designed for those students desiring to transfer to a <u>business curriculum with an emphasis in accounting studies</u>. baccalaureate program in <u>business</u>. This program is designed to transfer to four-year institutions and to prepare students for entry-level <u>positions in the accounting profession</u>. Students will be able to analyze and journalize transactions, prepare financial <u>statements</u>, and learn the managerial aspects involved in accounting. They will also understand the basic roles of <u>sole proprietorships</u>, corporations, and partnerships.

This degree is a broad program of study that provides students with specific skills as well as a general overview of businesstopics.

Program Learning
Outcomes

| | Students who successfully complete this program will be able to: |
|------|---|
| PLO1 | <u>Prepare and analyze financial statements of companies.</u> Analyze the concepts, principles, and operations of the private enterprise system. |
| PLO2 | <u>Prepare financial transactions and consider their impact on businesses.</u> Compare and contrast types of businesses and forms of business ownership. |
| PLO3 | Solve mathematical ratios to analyze company performance. Evaluate the impact of global markets and international competition. |
| PLO4 | Recognize and explain ethical issues related to businesses. Discuss the role of management in developing an organizational structure. |
| PLO5 | <u>Define the needs of users of accounting data and demonstrate the ability to communicate such data effectively.</u> Describe the relationship between production and consumption. |
| PLO6 | Recognize situations where fraud risk exists and define preventative internal control measures to protect companies Examine the marketing function and describe the concepts and processes involved in designing product strategy, promotional strategy, distribution strategy, and pricing strategy. |
| PLO7 | Apply cost accounting methods to evaluate and project business performance. Develop awareness of how government decisions can influence the business environment. |
| PLO8 | Develop an awareness of factors which would enhance leadership activities. |
| PLO9 | Creatively explore concepts and question-established ideas. |

| Learning Outcomes Display (show only) | | | | | | | | | |
|---------------------------------------|-------|-------|-------|---------|--------|-------|-------|-------|-------|
| Course Code | PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 | PLO 6 | PLO 7 | PLO 8 | PLO 9 |
| | | | | FirstSe | mester | | | | |
| ENGL 151 | | | | | | | | _ | |
| MATH 156 ☑ | | | | | | | | | |
| ACCT 161 | | | | | | | | | |

| Course Code | PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 | PLO 6 | PLO 7 | PLO 8 | PLO 9 |
|-------------------------|-------|-------|-------|---------|----------|-------|-------|-------|-------|
| STSC 150 | | | | | | | | | |
| | | | | Seconds | Semester | | | | |
| ENGL 152 | | | | | | | | | |
| ACCT 162 | | | | | | | | | |
| ECON 151 | | | | | | | | | |
| <u>CSIT</u> 123 ☑ | | | | | | | | | |
| | | | | ThirdS | emester | | | | |
| BUSN 210 | | | | | | | | | |
| BUSN 271 | | | | | | | | | |
| ECON 152 | | | | | | | | | |
| | | | | Fourth! | Semester | | | | |
| BUSN 134 | | | | | | | | | |
| BUSN 251 | | | | | | | | | |

| Required | Qualifi | cations |
|----------|---------|---------|
| | | |

Plan of Study Grid

First Semester Credit Hours

ENGL 151 English I 3

MATH 161 or Higher-1

ECON 151 Macroeconomic Principles 3

| Humanities Gen. Ed. Requir | ement | 3 |
|---------------------------------|---|--|
| MATH 156 | Introduction to Statistics | <u>3</u> |
| or MATH 191 OR HIGHE | or Course MATH 191 OR HIGHER Not Found | _ |
| ACCT 161 | Principles of Accounting I | <u>3</u> |
| Lab Science Gen. Ed. Requir | rement | <u>3</u> <u>4</u> 2 |
| STSC 150 | Student Success Seminar | 2 |
| or <u>STSC 170</u> | or Student Success Seminar for Business Major | rs |
| | Credit Hours | 15 |
| Second Semester | | |
| ENGL 152 | English II | 3 |
| MATH 191 or Higher 1 | | 3 |
| BUSN 134 | Principles of Marketing | 3 |
| ACCT 162 | Principles of Accounting II | <u>3</u> |
| ECON 151 | Macroeconomic Principles | <u>3</u> <u>3</u> 3 |
| <u>CSIT 123</u> | Integrated Office Software | 3 |
| ECON 152 | Microeconomics Principles | 3 |
| Any Gen. Ed. Requirement | | <u>3</u> |
| | Credit Hours | 15 |
| Third Semester | | |
| ACCT 161 | Principles of Accounting 1 | 3 |
| BUSN 251 | Business Law I | 3 |
| Humanities or Social Science | ce Gen. Ed. Requirement | 3 |
| Lab Science Gen. Ed. Requi | rement | 4 |
| Elective 2 | | 3 |
| <u>BUSN 210</u> | Business Communications | <u>3</u> |
| <u>BUSN 271</u> | Principles of Management | <u>3</u> <u>3</u> 3 |
| ECON 152 | Microeconomics Principles | = |
| Accounting Program Elective | <u>/e(s) ¹</u> | <u>3</u> <u>2</u> |
| Any Gen. Ed. Requirement | | <u>2</u> |
| | Credit Hours | 14 |
| Fourth Semester | | |
| ACCT 162 | Principles of Accounting II | 3 |
| BUSN 271 | Principles of Management | 3 |
| COMM 154 | Fundamentals of Public Speaking | 3 |
| <u>BUSN 134</u> | <u>Principles of Marketing</u> | <u>3</u> |
| <u>BUSN 251</u> | Business Law I | 3 <u>1</u> 3 <u>1</u> 3 <u>1</u> |
| Accounting Program Elective | | <u>3</u> |
| <u>Humanities Gen. Ed. Requ</u> | | 3 |
| Elective to meet 60 credits | | 3 |
| | Credit Hours | 15 |
| 1 | Total Credit Hours | 59 |
| 1. | | |

Accounting Program Electives: include any ACCT (except ACCT 121) and/or any INTR course in the area of Accounting (with a 3 credit maximum in INTR).

²BUSN 131 is a recommended elective.

How does this option differ from it's base program?

18 credits have been changed in total. Of primary importance, 9 credits have been altered in the concentration area to focus more on accounting studies versus general business studies. In addition, 9 credits have been altered to general education courses in order to align with transfer needs for accounting programs at four-year institutions.

Degree Requirements Breakdown

| GCOM | Course Code & Title | Credits |
|-------------------|---|---------|
| | ENGL 151 | 3 |
| | ENGL 152 | 3 |
| GHUM | Course Code & Title | Credits |
| | HUMN | 3 |
| GSOC | Course Code & Title | Credits |
| | ECON 151 SOSE | 3 |
| GSOC/ GHUM | Course Code & Title | Credits |
| | ECON 152 HUMN/SOSC | 3 |
| GMAT/ GSCI/ GTEC | Course Code & Title | Credits |
| | Math 156 MATH 161 or Math 191 or higher Higer | 3 |
| | CSIT 123 | 3 |
| | LSCI Gen ed | 4 |
| General Education | Course Code & Title | Credits |
| | Any Gen Ed Course MATH 191 or Higher | 3 |
| | Any Gen Ed Course ECON 152 | 3 |

Concentration Courses

| Course Code & Title | Credits | |
|-------------------------------------|---------|--|
| BUSN 134 | 3 | |
| ACCT 161 | 3 | |
| BUSN 251 | 3 | |
| ACCT 162 | 3 | |
| BUSN 271 | 3 | |
| <u>BUSN 210</u> ECON 151 | 3 | |

Elective Courses

| Course Code & Title | Credits |
|-------------------------------------|---------|
| STSC 150 <u>or STSC 170</u> | 3 |
| Elective (to 60) COMM 154 | 3 |
| Accounting Program Elective (to 60) | 6 |

Board Approval

History of Board

approval dates

The base AS.BA program was entered into CL by soconnor and saved on 1/24/22 in order to be edited into the final option (in order to show changes). This version is the edited version which shows the edits. - SOC

Reviewer

Comments

Key: 105

EXHIBIT B-4

Course Change Request

New Course Proposal

Date Submitted: 11/15/22 7:23 am

Viewing: CSIT 145: Computing Fundamentals

Last edit: 01/26/23 4:03 pm

Changes proposed by: Joseph Brickley (jbrickley)

Programs referencing this

course

AAS.CS.CY: Computer Science/Informational Technology - Option in

Cybersecurity, Associate in Applied Science

Learning Outcomes
Display (show only)

In Workflow

- 1. STEM Academic Administrator
- 2. STEM Dean
- 3. Director of Curriculum
- 4. Curriculum

 Committee Chair
- 5. Senate Chair
- 6. Vice President of Academic Affairs
- 7. President's Leadership Team Chair
- 8. President
- 9. Board of Trustees Chair
- 10. STEM Academic Administrator
- 11. Colleague

Approval Path

- 1. 09/26/22 10:07 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
- 2. 09/26/22 10:26 am Sylvia Riviello (sriviello): Rollback to Initiator
- 3. 09/26/22 11:03 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator

- 4. 09/26/22 12:04 pm Sylvia Riviello (sriviello): Approved for STEM Dean
- 5. 10/10/22 3:49 pm Susan O'Connor (soconnor): Rollback to Initiator
- 6. 10/18/22 9:51 am
 Cynthia Fallon
 (cfallon): Approved
 for STEM Academic
 Administrator
- 7. 10/18/22 10:17 am Susan O'Connor (soconnor): Rollback to Initiator
- 8. 11/09/22 9:53 am

 Cynthia Fallon

 (cfallon): Rollback to

 Initiator
- 9. 11/10/22 10:02 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
- 10. 11/10/22 10:53 am Sylvia Riviello (sriviello): Rollback to Initiator
- 11. 12/05/22 12:10 pm Carolyn Showalter (cshowalter): Approved for STEM Academic Administrator
- 12. 12/08/22 12:38 pm Sylvia Riviello (sriviello): Approved for STEM Dean

13. 01/19/23 4:29 pm
Susan O'Connor
(soconnor):
Approved for
Director of
Curriculum

14. 01/26/23 4:30 pm
Heather Sciarappa
(hsciarappa):
Approved for
Curriculum
Committee Chair

15. 02/02/23 4:13 pm Robert Marchie (rmarchie): Approved for Senate Chair

16. 02/02/23 4:45 pm
Joseph Konopka
(jkonopka):
Approved for Vice
President of
Academic Affairs

1. Course Information

Subject

CSIT - Computer Science/ Information

Technology

Course Number

145

School

Science, Technology, Engineering,

Mathematics

Course Title

Computing Fundamentals

2. Hours

Semester Hours

3

Lecture

3

Lab

0

Practicum

0

3. Catalog Description

For display in the online catalog

This course provides a deep understanding of hardware, operating systems, software troubleshooting, basic networking knowledge basic security concepts, mobile devices, virtualization Type 1-2, and cloud computing. Designed around the CompTIA A+ certification, this course will discuss all of the hardware components of computers, such as Central Processing Units (CPUs), Random Access Memory (RAM), Motherboards, Power Supplies, and Mass storage devices consisting of Solid-State Drives (SSDs) and Hard Drives.

4. Requisites

Prerequisites

Corequisites

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

Students in the cybersecurity field will benefit from understanding and knowing how to utilize current computing fundamentals to be successful in their academic and professional careers.

7. General Education

Will the college submit this course to the statewide General Education Coordinating Committee for approval as a course, which satisfies a general education requirement?

If the course does not satisfy a general education requirement, which of the following does it satisfy:

Elective

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiatives of the College

Please describe how this course is consistent with Ocean County College's current Vision Statement, Mission Statement, Academic Master Plan, and the strategic initiatives of the College:

| | Add item |
|---|---|
| 1 | Demonstrating the college's commitment to offer comprehensive educational programs that develop intentional learners of all ages. (Mission Statement) |
| 2 | Seeking to ensure that students will thrive in an increasingly diverse and complex world. (Vision Statement) |
| 3 | Preparing students for successful transfer to other educational institutions and/or entrance into the workforce. (Academic Master Plan) |
| 4 | Seeking to empower students through the mastery of intellectual and Practical Skills. (Academic Master Plan) |
| 5 | Challenging students to transfer information into knowledge and knowledge into action. (Academic Master Plan) |

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution Bergen CC

Course Title Introduction to Information Technology

Course Number INF-101

Number of Credits 3

Comments

Institution Salem CC

Course Title Introduction to Computer Hardware and Operation

Course Number CSC131

Number of Credits 3

Comments

Institution Mercer County CC

Course Title Computer Concepts/Applications

Course Number IST-101

Number of Credits 3

Comments

Institution Passaic County CC

Course Title Information Technology Fundamentals and Applications

Course Number CIS 107

Number of Credits 3

Comments

Transferability of Course

Georgian Court

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| EC Elective Credit, 3 | Elective | |

Kean University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CPS1031 Intro to Computers, 4 | Required | |

Monmouth

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|---------------------------|------------------------------------|
| CS001 100 Level Computer | Computer Science Elective | |
| Science Elective, 3 | | |

Rowan University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|---------------------------|------------------------------------|
| CST 06111, Computer Hardware | Computer Science Elective | |
| and Operations, 3 | | |

Rutgers - New Brunswick, Mason Gross School of the

Arts

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|--|---------------------------|------------------------------------|
| 01:198:110, Introduction to Computers and Their Application, | Computer Science Elective | Unable to determine status |
| 3 | | |

Stockton University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CSISEC computer Science & Info | Elective | |
| Systems Elective, 4 | | |

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

| | Students who successfully complete this course will be able to: | |
|------|--|--|
| CLO1 | Assemble components based on customer requirements | |
| CLO2 | Install, configure, and maintain PCs, mobile devices, and software for end users. | |
| CLO3 | Recognize the basics of networking and security forensics. | |
| CLO4 | Properly and safely diagnose, resolve, and document common hardware and software issues. | |
| CLO5 | Apply troubleshooting skills. | |
| CLO6 | Provide appropriate customer support. | |
| CLO7 | Recognize the basics of scripting, virtualization, desktop imaging, and deployment. | |

11. Topical Outline

(include as many themes/skills as needed)

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| ТО1 | Computer Hardware 1. Installing Motherboards and Connectors 2. Installing System Devices 3. Troubleshooting PC Hardware 4. Comparing Local Networking Hardware | Readings Labs Videos | Quiz Exam | CLO1, CLO4 |
| TO2 | Installing, Configuring, and Maintaining Operating Systems, Mobile Devices, and Applications (Computer Software) 8. Supporting Mobile Devices 10. Configuring Windows 11. Managing Windows 12. Identifying OS Types and Features 13. Supporting Windows | Readings Labs Videos | Quiz Exam | CLO2, CLO4 |

2/13/23, 4:42 PM

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| | 15. Managing Linux and macOS18. Supporting MobileSoftware | | | |
| ТОЗ | Fundamental Networking and Security Techniques 5. Configuring Network Addressing and Internet Connections 6. Supporting Network Services 14. Managing Windows Networking 16. Configuring SOHO Network Security 17. Managing Security Settings | Readings Labs Videos | Quiz Exam | CLO3, CLO4 |
| TO4 | Scripting, Troubleshooting, and Ticketing 19. Using Support and Scripting Tools 20. Implementing Operational Procedures | Readings Labs Videos | Quiz Exam | CLO4, CLO5, CLO6, CLO7 |
| TO5 | Supporting Virtualization and Printers 7. Summarizing Virtualization and Cloud Concepts 9. Supporting Print Devices | Readings Labs Videos | Quiz Exam | CLO1, CLO4, CLO5 |

12. Methods of Instruction

In the structuring of this course, what major methods of

.

instruction will be

utilized?

- a. Class Lecture
- b. Discussion
- c. Demonstrations
- d. Labs
- e. Online presentations, online activities, and assessments.

13. General Education Goals Addressed by this Course (this section is to fulfill state requirements)

| Information | | | | | | | |
|---|-----|--|--|--|--|--|--|
| Communication-Written and Oral | | | | | | | |
| Quantitative Knowledge and Skills | - | | | | | | |
| Scientific Knowledge and Reasoning | | | | | | | |
| Technological Competency | Yes | | | | | | |
| Related Course CL01-CL07 Learning Outcome | | | | | | | |
| Related Outline T01-T05 Component | | | | | | | |
| Assessment of General Education Goal (Recommended but not limited to) | | | | | | | |
| N/A. | | | | | | | |
| Information Literacy | Yes | | | | | | |
| Related Course CL01-CL07 Learning Outcome | | | | | | | |
| Related Outline T01-T05 Component | | | | | | | |
| Assessment of General Education Goal (Recommended but not limited to) | | | | | | | |
| N/A. | | | | | | | |

| Society and Human Behavior | | | | | |
|---|-----|--|--|--|--|
| Humanistic Perspective | | | | | |
| Historical Perspective | | | | | |
| Global and Cultural Awareness | | | | | |
| Ethical Reasoning and Action | | | | | |
| Independent/Critical Thinking | Yes | | | | |
| Related Course CL01-CL07 Learning Outcome | | | | | |
| Related Outline T01-T05 Component | | | | | |
| Assessment of General Education Goal (Recommended but not limited to) | | | | | |
| N/A. | | | | | |

14. Needs

Instructional

Materials (text

etc.):

Appropriate textbook(s) will be selected. Please contact the department for current adoptions.

Technology Needs:

Please contact the department for current adoptions.

Human Resource

Needs (Presently

Employed vs. New

Faculty):

Please contact the department for current adoptions.

Facility Needs:

Please contact the department for current adoptions.

Library needs:

Please contact the department for current adoptions.

15. Grade Determinants

The final grade in the course will be the cumulative grade based on the following letter grades or their numerical equivalents for the course assignments and examinations

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

For more detailed information on the Ocean County College grading system, please see Policy #5154.

Reviewer

Comments

Sylvia Riviello (sriviello) (09/26/22 10:26 am): Rollback: I do not want CSIT 110 to be pre-req Susan O'Connor (soconnor) (10/10/22 3:49 pm): Rollback: Hi: Some questions/possible edits. In the course learning outcomes section 10 (CLO3 and CL7), can you please replace the verb "understand" with a verb from the bloom's taxonomy list. The use of "understand" always ends up being a long debate about whether understanding is truly assessible. You may want to avoid all that. Second, what course number in section 1 did you think would be best for this course (do you imagine it will be freshman-100s-or sophomore - 200s- level course, for example)? I can add in the course number if you give me an idea of what you are thinking. For the mapping to the master plan/strategic plan in section 8, can you tell the reader where exactly you got each point from, since there are a few possibilities? Lastly, did you run the transfer content past Laura Wills, transfer advisor? Let me know if you want to go over any of these items - extension 2978 or email soconnor@ocean.edu. - Susan OC

Susan O'Connor (soconnor) (10/18/22 10:17 am): Rollback: Email sent with explanation on 10/18: I sent the following comments in Courseleaf (italic below). I see that some were edited

based on my comments, but I do not have the answer to the highlighted section below. For all three proposed CSIT courses, I am particularly interested in Laura Wills comments on these courses and their transferability/possible overlap with existing courses. I will also need that answer about 100/200 for all three courses. You can add your responses right to reviewer comments in CL for the course. I will return them to Joseph to respond or edit. Second, what course number in section 1 did you think would be best for this course (do you imagine it will be freshman-100s-or sophomore - 200s- level course, for example)? I can add in the course number if you give me an idea of what you are thinking. For the mapping to the master plan/strategic plan in section 8, can you tell the reader where exactly you got each point from, since there are a few possibilities? Lastly, did you run the transfer content past Laura Wills, transfer advisor? Let me know if you want to go over any of these items - extension 2978 or email soconnor@ocean.edu. - Susan OC Delete Comment Also, I am happy to review these live if you want to set up a meeting on my calendar. Sometimes, that can be easier than email and comments.

Cynthia Fallon (cfallon) (11/09/22 9:53 am): Rollback: At your request Sylvia Riviello (sriviello) (11/10/22 10:53 am): Rollback: Same comments. Let Susan give you suggestions.

Key: 2273

Preview Bridge

EXHIBIT B-5

Course Change Request

New Course Proposal

Date Submitted: 11/15/22 7:23 am

Viewing: CSIT 146: Introduction to Cybersecurity

Last edit: 01/26/23 4:08 pm

Changes proposed by: Joseph Brickley (jbrickley)

Learning Outcomes
Display (show only)

In Workflow

- 1. STEM Academic Administrator
- 2. STEM Dean
- 3. Director of Curriculum
- 4. Curriculum

 Committee Chair
- 5. Senate Chair
- 6. Vice President of Academic Affairs
- 7. President's Leadership Team Chair
- 8. President
- Board of Trustees Chair
- 10. STEM Academic Administrator
- 11. Colleague

Approval Path

- 1. 10/18/22 9:52 am
 Cynthia Fallon
 (cfallon): Approved
 for STEM Academic
 Administrator
- 2. 10/18/22 10:17 am Susan O'Connor (soconnor): Rollback to Initiator
- 3. 11/09/22 9:54 am
 Cynthia Fallon
 (cfallon): Rollback to
 Initiator

- 4. 11/10/22 10:03 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
- 5. 11/10/22 10:52 am Sylvia Riviello (sriviello): Rollback to Initiator
- 6. 12/05/22 12:12 pm Carolyn Showalter (cshowalter): Approved for STEM Academic Administrator
- 7. 12/08/22 12:42 pm Sylvia Riviello (sriviello): Approved for STEM Dean
- 8. 01/19/23 4:29 pm Susan O'Connor (soconnor): Approved for Director of Curriculum
- 9. 01/26/23 4:30 pm Heather Sciarappa (hsciarappa): Approved for Curriculum Committee Chair
- 10. 02/02/23 4:13 pm Robert Marchie (rmarchie): Approved for Senate Chair
- 11. 02/02/23 4:45 pm Joseph Konopka (jkonopka): Approved for Vice

President of Academic Affairs

1. Course Information

Subject CSIT - Computer Science/ Information

Technology

Course Number 146

School Science, Technology, Engineering,

Mathematics

3

Course Title Introduction to Cybersecurity

2. Hours

Semester Hours 3

Lecture

Lab 0

Practicum 0

3. Catalog Description

For display in the

online catalog

This introductory course focuses on the importance cybersecurity, cybersecurity principles, and the impact technology has in the field of security. The course will cover legal and ethical concerns, capabilities and limitations of communications, history, current methodology, system operating environments, existing and emerging security technology, security policies, and the growing need for cybersecurity. As an introduction course, students will enter with various degrees of cybersecurity knowledge and will be expected to improve their knowledge of professional cybersecurity practice. This course will focus on building student's knowledge base of cybersecurity, recognize the fundamentals of cybersecurity, and grant hands on knowledge of cybersecurity application.

4. Requisites

Prerequisites

N/A

Corequisites

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

This can be used as an elective in Computer Science/Engineering program. This course will introduce students to low level cybersecurity principles and allow interested students to explore potential enrollment in our cybersecurity focused degree programs.

7. General Education

Will the college submit this course to the statewide General Education Coordinating Committee for approval as a course, which satisfies a general education requirement?

No

If the course does not satisfy a general education requirement, which of the following does it satisfy:

Elective

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiatives of the College

Please describe how this course is consistent with Ocean County College's current Vision Statement, Mission Statement, Academic Master Plan, and the strategic initiatives of the College:

| | Add item | |
|---|---|--|
| 1 | Demonstrating the college's commitment to offer comprehensive educational | |
| | programs that develop intentional learners of all ages. (Mission Statement) | |

| | Add item |
|---|---|
| 2 | Seeking to ensure that students will thrive in an increasingly diverse and complex world. (Vision Statement) |
| 3 | Preparing students for successful transfer to other educational institutions and/or entrance into the workforce. (Academic Master Plan) |
| 4 | Seeking to empower students through the mastery of intellectual and Practical Skills. (Academic Master Plan) |
| 5 | Challenging students to transfer information into knowledge and knowledge into action. (Academic Master Plan) |

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution

Brookdale CC

Course Title

Introduction to Security

Course Number

NETW-107-DE01B

Number of Credits

3

Comments

Institution

Camden County College

Course Title

Computer and Network Security

Course Number

CST-204

Number of Credits

3

Comments

Institution

Hudson County CC

Course Title

Cybersecurity

Course Number

ımber CSC-232

Number of Credits

3

Comments

Institution

Mercer County CC

Course Title

Network Security

Course Number

NET 240

Number of Credits

3

Comments

Transferability of Course

Georgian Court

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---|-------------------|------------------------------------|
| CSCISEC Comp. Science/Info Systems Elective, 3 | Elective | |

Kean University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|---|------------------------------------|
| TECH2498 Cybersecurity , 3 | Required course for B.S. in Computer Science (Cybersecurity Option) | |

Monmouth

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| FE001 100-Level Free, 3 | Elective | |

Rowan University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| INTR 01.266, Computers and | Elective | |
| Society, 3 | | |

Rutgers - New

Brunswick, Mason

Gross School of the

Arts

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status | |
|----------------------------------|-------------------|------------------------------------|--|
| 01:198:419, Computer Security, 4 | Elective | Will not transfer | |

Stockton University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CSISEC computer Science & Info | Elective | |
| Systems, 4 | | |

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

| | Students who successfully complete this course will be able to: |
|------|---|
| CLO1 | Recognize basic computer network security. |
| CLO2 | Classify basic cybersecurity policies. |
| CLO3 | Comprehend different types of malware and spyware. |
| CLO4 | Describe basic database security requirements and best practices. |
| CLO5 | Properly and safely distinguish cybersecurity incident response techniques. |
| CLO6 | Examine current cybersecurity ethical and legal issues. |

11. Topical Outline

(include as many themes/skills as needed)

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| TO1 | Basic Network Cybersecurity -CIA Triad -Hardware -Software Vulnerabilities -Access Control -Types of Harm -Types of Threats | Reading Class discussion Research | Exam Quiz | CL01 |
| TO2 | Cybersecurity Policies and Controls -Controls -Access Policies -Implementing Access Control -Access Control List -Encryption Terminology -Types of Encryption | Reading Class discussion Research | Exam Quiz | CL02 |
| ТОЗ | Types of Malware -Buffer Overflows -Potential Harm -Countermeasures -Race Conditions -Types of Malware -History of Malware | Reading Class discussion Research | Exam Quiz | CL03 |
| TO4 | Database Security -Database Overview -Security Features -Admin Responsibilities -Database Intruders | Reading Class discussion Research | Exam Quiz | CL04 |
| TO5 | Management and Incidents -Incident Response -Security Policy -Timetable and Plan Maintenance | Reading Class discussion Research | Exam Quiz | CL05 |

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|--|--|--|----------------------------------|
| | -Business Continuity Plan -Incident Response Plan -Risk Analysis | | | |
| TO6 | Legal Issues and Ethics -Protecting Programs and Data -Copy Rights -Patents -Trade Secrets -Computer Crime -Ethical Theories | Reading Class discussion Research | Exam Quiz | CL06 |

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?

- a. Class Lecture
- b. Discussion
- c. Demonstrations
- d. Online presentations, online activities, and assessments.

13. General Education Goals Addressed by this Course (this section is to fulfill state requirements)

| Information |
|------------------------------------|
| Communication-Written and Oral |
| Quantitative Knowledge and Skills |
| Scientific Knowledge and Reasoning |

| Technological Compet | ency | Yes |
|------------------------------------|----------------------|---------------------------------|
| Related Course Learning Outcome | CL01-CL06 | |
| Related Outline Component | TO1-TO6 | |
| Assessment of Genera | al Education Goal (R | ecommended but not limited to) |
| N/A | | _ |
| Information Literacy | | Yes |
| Related Course Learning Outcome | CL01-CL06 | |
| Related Outline Component | TO1-TO6 | |
| Assessment of Genera | al Education Goal (F | decommended but not limited to) |
| N/A | | |
| Society and Human B | ehavior | _ |
| Humanistic Perspectiv | ∕e | _ |
| Historical Perspective | | _ |
| Global and Cultural A | wareness | _ |
| Ethical Reasoning and | d Action | _ |
| Independent/Critical | Thinking | Yes |
| Related Course Learning Outcome | CL01-CL06 | |
| Related Outline | TO1-TO6 | |

Assessment of General Education Goal (Recommended but not limited to)

N/A

14. Needs

Instructional

Materials (text

etc.):

Appropriate textbook(s) will be selected. Please contact the department for current adoptions.

Technology Needs:

N/A

Human Resource

Needs (Presently

Employed vs. New

Faculty):

N/A

Facility Needs:

N/A

Library needs:

N/A

15. Grade Determinants

The final grade in the course will be the cumulative grade based on the following letter grades or their numerical equivalents for the course assignments and examinations

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

For more detailed information on the Ocean County College grading system, please see Policy

Reviewer

Comments

Susan O'Connor (soconnor) (10/18/22 10:17 am): Rollback: Email sent with explanation on 10/18: I sent the following comments in Courseleaf (italic below). I see that some were edited based on my comments, but I do not have the answer to the highlighted section below. For all three proposed CSIT courses, I am particularly interested in Laura Wills comments on these courses and their transferability/possible overlap with existing courses. I will also need that answer about 100/200 for all three courses. You can add your responses right to reviewer comments in CL for the course. I will return them to Joseph to respond or edit. Second, what course number in section 1 did you think would be best for this course (do you imagine it will be freshman-100s-or sophomore - 200s- level course, for example)? I can add in the course number if you give me an idea of what you are thinking. For the mapping to the master plan/strategic plan in section 8, can you tell the reader where exactly you got each point from, since there are a few possibilities? Lastly, did you run the transfer content past Laura Wills, transfer advisor? Let me know if you want to go over any of these items - extension 2978 or email soconnor@ocean.edu. - Susan OC Delete Comment Also, I am happy to review these live if you want to set up a meeting on my calendar. Sometimes, that can be easier than email and comments.

Cynthia Fallon (cfallon) (11/09/22 9:54 am): Rollback: At your request Sylvia Riviello (sriviello) (11/10/22 10:52 am): Rollback: When you meet with Susan let her review these too so she can give you suggestions.

Key: 2276

Preview Bridge

EXHIBIT B-6

Course Change Request

New Course Proposal

Date Submitted: 11/10/22 10:18 am

Viewing: CSIT 242: Penetration Testing

Fundamentals

Last edit: 01/19/23 4:29 pm

Changes proposed by: Joseph Brickley (jbrickley)

Programs

referencing this

course

AAS.CS.CY: Computer Science/Informational Technology - Option in Cybersecurity, Associate in Applied Science

Learning Outcomes
Display (show only)

In Workflow

- 1. STEM Academic Administrator
- 2. STEM Dean
- 3. Director of Curriculum
- 4. Curriculum

 Committee Chair
- 5. Senate Chair
- 6. Vice President of Academic Affairs
- 7. President's Leadership Team Chair
- 8. President
- 9. Board of Trustees Chair
- 10. STEM Academic Administrator
- 11. Colleague

Approval Path

- 1. 11/10/22 10:08 am
 Cynthia Fallon
 (cfallon): Rollback to
 Initiator
- 2. 12/05/22 12:15 pm Carolyn Showalter (cshowalter): Approved for STEM Academic Administrator
- 3. 01/19/23 3:34 pm Susan O'Connor (soconnor):

Approved for STEM Dean

4. 01/19/23 4:29 pm

Susan O'Connor

(soconnor):

Approved for

Director of

Curriculum

5. 01/26/23 4:30 pm

Heather Sciarappa

(hsciarappa):

Approved for

Curriculum

Committee Chair

6. 02/02/23 4:13 pm

Robert Marchie

(rmarchie):

Approved for

Senate Chair

7. 02/02/23 4:45 pm

Joseph Konopka

(jkonopka):

Approved for Vice

President of

Academic Affairs

2/12

1. Course Information

CSIT - Computer Science/Information Subject

Technology

242 Course Number

Science, Technology, Engineering, School

Mathematics

3

Penetration Testing Fundamentals Course Title

2. Hours

Semester Hours 3

Lecture

Lab 0
Practicum 0

3. Catalog Description

For display in the

online catalog

Penetration testing fundamentals assesses the most up-to-date penetration testing, vulnerability assessment, and management skills necessary to determine the resiliency of the network against attacks. It will cover fundamental methodologies, techniques, tools to identify vulnerabilities, exploit, assess security risk to networks, operating systems, and applications.

4. Requisites

Prerequisites

CSIT 165

Corequisites

CSIT 185

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

This course provides the required training in Cybersecurity programs of study and helps students prepare for the fundamental of penetration testing.

7. General Education

Will the college submit this course to the statewide General Education Coordinating Committee for approval as a course, which satisfies a general education requirement?

No

If the course does not satisfy a general education requirement, which of the following does it satisfy:

Program-specific requirement

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiatives of the College

Please describe how this course is consistent with Ocean County College's current Vision Statement, Mission Statement, Academic Master Plan, and the strategic initiatives of the College:

| | Add item |
|---|---|
| 1 | Demonstrating the college's commitment to offer comprehensive educational programs that develop intentional learners of all ages. (Mission Statement) |
| 2 | Seeking to ensure that students will thrive in an increasingly diverse and complex world. (Vision Statement) |
| 3 | Preparing students for successful transfer to other educational institutions and/or for entrance into the workforce. (Academic Master Plan) |
| 4 | Seeking to empower students through the mastery of intellectual and Practical Skills. (Academic Master Plan) |
| 5 | Challenging students to transfer information into knowledge and knowledge into action. (Academic Master Plan) |

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution

Raritan Valley CC

Course Title

Ethical Hacking and Penetration Testing

Course Number

NTWK290

Number of Credits

3

Comments

CSIT 242: Penetration Testing Fundamentals

EXHIBIT B -

2/13/23, 4:43 PM

Institution

County College of Morris

Course Title

Ethical Hacking and Systems Defense Course

Course Number

CMP243

Number of Credits

3

Comments

Transferability of Course

Georgian Court

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| EC Elective Credit | Elective | |

Kean University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| FEX 2000 | Free Elective | |

Monmouth

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|---------------------------|------------------------------------|
| CS002 200-Level Computer | Computer Science Elective | |
| Science Elective 3 | | |

Rowan University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CST 03215, Penetration Testing | Major | |
| Fundamentals, 3 | | |

Rutgers - New

Brunswick, Mason

Gross School of the

Arts

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|--------------------------|------------------------------------|
| | | Unable to determine status |

Stockton University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|---------------------------|------------------------------------|
| CSISEC Computer Science & Info | Computer Science Elective | |
| Systems Elective 4 | | |

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

| | Students who successfully complete this course will be able to: |
|------|--|
| CLO1 | Describe the fundamentals of penetration testing and vulnerability management. |
| CLO2 | Describe the history, development, and principles of cybersecurity. |
| CLO3 | Identify key (vs. secondary) risk elements faced by computer network systems. |
| CLO4 | Assess the current security landscape, including the nature of the threat, the general status of common vulnerabilities, and the likely consequences of security failures. |
| CLO5 | Analyze security components within organizational contest: identity and access management, data protection, security operations. |
| CLO6 | Create a plan for the third-party risk assessments. |

11. Topical Outline

(include as many themes/skills as needed)

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| TO1 | 1.Planning a Pen Test2.Rules of Engagement3.Resources and Budgets | Reading, Class discussion | Quiz/ Exam | CLO1, CLO2 |

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|--|--|--|----------------------------------|
| | 4.Impact and Constraints5.Support Resources | | | |
| TO2 | Legal Groundwork Scope Considerations Project Strategy and Risk Scope Vulnerabilities Compliance-Based Assessments | Reading, Class discussion | Quiz/ Exam | CLO3 |
| тоз | Scanning and Enumeration Scanning and Demo Packet Investigation Packet Inspection Demo Application and Open-Source Resources | Reading, Class discussion | Quiz/ Exam | CLO2, CLO3 |
| TO4 | Vulnerability Scanning Vulnerability Scanning Demo Target Considerations Nmap Timing and Performance Options Prioritization of Vulnerabilities Common Attack Techniques | Reading, Class discussion | Quiz/ Exam | CLO4 |
| TO5 | Credential Attacks Weaknesses in Specialized Systems Remote Social Engineering Spear Phishing Demo In-Person Social Engineering Network-Based Exploits FTP Exploit Demo | Reading, Class discussion | Quiz/ Exam | CLO4, CLO5 |

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|--|--|--|----------------------------------|
| | 8. Man-in-the-MiddleExploits9. Wireless Exploits10. Application Exploits,Part 1 | | | |
| TO6 | 1. SQL Injection Demo 2. Application Exploits, Part 2 3. Application Exploits, Part 3 4. Cross-Site Scripting Demo 5. Code Vulnerabilities 6. Local Host Vulnerabilities 7. Privilege Escalation (Linux) 8. Privilege Escalation (Windows) 9. Misc. Privilege Escalation 10. Misc. Local Host Vulnerabilities 11. Physical Security 12. Post-Exploitation Techniques | Reading, Class discussion | Quiz/ Exam | CLO5, CLO6 |
| ТО7 | Persistence and Stealth Nmap Scoping and Output Options Pen Testing Toolbox Using Kali Linux Scanners and Credential Tools Code Cracking Tools Open-Source Research Tools Wireless and Web Pen | Reading, Class discussion | Quiz/ Exam | CLO5, CLO6 |

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|--|--|--|----------------------------------|
| | Testing Tools 9. Remote Access Tools 10. Analyzers and Mobile Pen Testing Tools | | | |
| ТО8 | Other Pen Testing Tools Using Scripting in Pen Testing Bash Scripting Basics Bash Scripting Techniques PowerShell Scripts | Reading, Class discussion | Quiz/ Exam | CLO4, CLO5, CLO6 |
| ТОЭ | Ruby Scripts Python Scripts Scripting Languages Comparison Writing Reports Post Report Activities Mitigation Strategies Communication | Reading, Class discussion | Quiz/ Exam | CLO4, CLO5 ,CLO6 |

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?

Class lecture, presentations, discussions, lab assignments/exercises, case studies, and projects.

13. General Education Goals Addressed by this Course (this section is to fulfill state requirements)

Information

Communication-Written and Oral

Yes

| Related Course Learning Outcome | CLO1-CLO6 | |
|------------------------------------|----------------------|---------------------------------|
| Related Outline Component | TO1-TO9 | |
| Assessment of Genera | al Education Goal (F | decommended but not limited to) |
| N/A | | |
| Quantitative Knowled | ge and Skills | _ |
| Scientific Knowledge | and Reasoning | _ |
| Technological Compe | tency | Yes |
| Related Course Learning Outcome | CLO1-CLO6 | |
| Related Outline Component | TO1-TO9 | |
| Assessment of Gener | al Education Goal (I | Recommended but not limited to) |
| N/A | | |
| Information Literacy | | - - |
| Society and Human B | ehavior | _ |
| Humanistic Perspecti | ve | _ |
| Historical Perspective | 2 | _ |
| Global and Cultural A | wareness | _ |
| Ethical Reasoning and | d Action | _ |

Independent/Critical Thinking

Yes

Related Course

CLO1-CLO6

Learning Outcome

Related Outline

TO1-TO9

Component

Assessment of General Education Goal (Recommended but not limited to)

N/A

14. Needs

Instructional

Materials (text

etc.):

Appropriate textbook(s) will be selected. Please contact the department for current adoptions.

Technology Needs:

N/A

Human Resource

Needs (Presently

Employed vs. New

Faculty):

N/A

Facility Needs:

N/A

Library needs:

N/A

15. Grade Determinants

The final grade in the course will be the cumulative grade based on the following letter grades or their numerical equivalents for the course assignments and examinations

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

For more detailed information on the Ocean County College grading system, please see Policy #5154.

Reviewer

Comments

Cynthia Fallon (cfallon) (11/10/22 10:08 am): Rollback: Change to CSIT 185 and this should be a 200 level course. Thanks!

Susan O'Connor (soconnor) (01/19/23 3:34 pm): will be required coursework for new

AAS.CS/IT.CYBER

Susan O'Connor (soconnor) (01/19/23 3:42 pm): will be required coursework for new AAS.CS/IT.CYBER

Key: 2279

Preview Bridge

EXHIBIT B-7

7

Course Change Request

New Course Proposal

Date Submitted: 11/30/22 10:43 am

Viewing: CSIT 243: Cisco Networking

Fundamentals

Last edit: 01/26/23 4:19 pm

Changes proposed by: Joseph Brickley (jbrickley)

Programs

referencing this

course

AAS.CS.CY: Computer Science/Informational Technology - Option in

Cybersecurity, Associate in Applied Science

Learning Outcomes Display (show only)

In Workflow

- 1. STEM Academic Administrator
- 2. STEM Dean
- 3. Director of Curriculum
- 4. Curriculum

 Committee Chair
- 5. Senate Chair
- 6. Vice President of Academic Affairs
- 7. President's Leadership Team Chair
- 8. President
- Board of TrusteesChair
- 10. STEM Academic Administrator
- 11. Colleague

Approval Path

- 1. 10/12/22 11:11 am
 Cynthia Fallon
 (cfallon): Rollback to
 Initiator
- 2. 10/12/22 3:11 pm Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
- 3. 10/18/22 10:17 am Susan O'Connor (soconnor): Rollback to Initiator

- 4. 10/25/22 9:56 am

 Cynthia Fallon

 (cfallon): Rollback to
 Initiator
- 5. 11/09/22 9:53 am
 Cynthia Fallon
 (cfallon): Rollback to
 Initiator
- 6. 11/10/22 10:02 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
- 7. 11/10/22 10:53 am Sylvia Riviello (sriviello): Rollback to Initiator
- 8. 11/30/22 10:37 am
 Cynthia Fallon
 (cfallon): Rollback to
 Initiator
- 9. 12/05/22 12:33 pm Carolyn Showalter (cshowalter): Approved for STEM Academic Administrator
- 10. 12/08/22 4:10 pm Sylvia Riviello (sriviello): Approved for STEM Dean
- 11. 01/19/23 4:29 pm
 Susan O'Connor
 (soconnor):
 Approved for
 Director of
 Curriculum
- 12. 01/26/23 4:30 pm Heather Sciarappa (hsciarappa): Approved for

Curriculum Committee Chair

13. 02/02/23 4:13 pm

Robert Marchie

(rmarchie):

Approved for

Senate Chair

14. 02/02/23 4:45 pm

Joseph Konopka

(jkonopka):

Approved for Vice

President of

Academic Affairs

1. Course Information

Subject CSIT - Computer Science/Information

Technology

Course Number 243

School Science, Technology, Engineering,

Mathematics

Course Title Cisco Networking Fundamentals

2. Hours

3 Semester Hours

> Lecture 3

> 0 Lab

> 0 Practicum

3. Catalog Description

For display in the

online catalog

This course provides a deep dive into the Cisco network. The course introduces network fundamentals (OSI model, IPs, Subnetting, etc.), an overview of Cisco products, hardware components, how to perform Layer 1 and Layer 2 basic Cisco configurations tools, such as PuTTY, TFTP/SFTP/FTP servers, loopback plugs, and Microsoft Windows basic. After this initial

understanding (which will cover CCT routing and switching) the course will cover an introduction into basic configurations on Cisco routers work, common switching/routing issues, network/device architectures, outline basic threat defense technologies, and describing the functions and features off Cisco iOS and NX-OS.

4. Requisites

Prerequisites

Corequisites

CSIT 186

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

Students in the cybersecurity field will benefit from understanding and knowing how to utilize current Cisco fundamentals to be successful in their academic and professional careers.

7. General Education

Will the college submit this course to the statewide General Education Coordinating Committee for approval as a course, which satisfies a general education requirement?

No

If the course does not satisfy a general education requirement, which of the following does it satisfy:

Program-specific requirement

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiatives of the College

Please describe how this course is consistent with Ocean County College's current Vision Statement, Mission Statement, Academic Master Plan, and the strategic initiatives of the College:

| | Add item |
|---|---|
| 1 | Demonstrating the college's commitment to offer comprehensive educational programs that develop intentional learners of all ages. (Mission Statement) |
| 2 | Seeking to ensure that students will thrive in an increasingly diverse and complex world. (Vision Statement) |
| 3 | Preparing students for successful transfer to other educational institutions and/or entrance into the workforce. (Academic Master Plan) |
| 4 | Seeking to empower students through the mastery of intellectual and Practical Skills. (Academic Master Plan) |
| 5 | Challenging students to transfer information into knowledge and knowledge into action. (Academic Master Plan) |

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution

Bergen CC

Course Title

Networking Fund I

Course Number

INF-164

Number of Credits

Comments

Institution

Sussex County CC

Course Title

Networks and Telecommunications

Course Number

COMS 230

Number of Credits

3

Comments

Institution

Raritan Valley CC

Course Title

NTWK 270

Course Number

Introduction to Cisco Networking

Number of Credits

3

Comments

Institution

Raritan Valley CC

Course Title

Routing and Switching Essentials

Course Number

271

Number of Credits

3

Comments

Institution

Mercer County CC

Course Title

Fundamentals of Computer Networks

Course Number

NET104

Number of Credits

3

Comments

Institution

Passaic County CC

Course Title

Networking Essentials

Course Number

CIS 180

Number of Credits

3

Comments

Transferability of Course

Georgian Court

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CSCISEC Comp. Science/Info | Elective | |
| Systems Elective, 3 | | |

Kean University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CPSX1003 Computer Science Free | Elective | |
| Elective, 3 | | |

Monmouth

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|----------------------------------|-------------------|------------------------------------|
| FE001 100-Level Free Elective, 3 | Elective | |

Rowan University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CST 09295, Advanced | Elective | |
| Networking, 3 | | |

Rutgers - New

Brunswick, Mason

Gross School of the

Arts

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|----------------------------------|------------------------------------|
| 04:547:331, Networking and | Required for Information | Will not transfer |
| Internet Technology, 3 | Technology and Informatics Major | |

Stockton University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CSISEC computer Science & Info | Elective | |
| Systems Elective, 4 | | |

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

| | Students who successfully complete this course will be able to: |
|------|---|
| CLO1 | Understand fundamental networking concepts |
| CLO2 | Understand network access and segmentation techniques, including VLANs |
| CLO3 | Understand network routing and switching using Cisco Devices |
| CLO4 | Understand various services in an IP network, including DNS and DHCP |
| CLO5 | Understand key network security concepts, including L2, L3, and WLAN Security |

11. Topical Outline

(include as many themes/skills as needed)

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| TO1 | Basic Network Connectivity and Communications | Reading Class discussion Research | Quiz Exam | CLO1 |
| TO2 | Ethernet Concepts | Reading Class discussion Research | Quiz Exam | CLO1, CLO3 |
| ТОЗ | Communicating Between Networks | Reading Class discussion Research | Quiz Exam | CLO3 |

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|------|--|--|--|----------------------------------|
| TO4 | IP Addressing | Reading Class discussion Research | Quiz Exam | CLO1, CLO3, CLO4 |
| TO5 | Network Applications Communications | Reading Class discussion Research | Quiz Exam | CLO1, CLO4, |
| TO6 | Building and Securing a Small Network | Reading Class discussion Research | Quiz Exam | CLO3, CLO4, CLO5 |
| ТО7 | Switching Concepts and VLANs | Reading Class discussion Research | Quiz Exam | CLO2, CLO3 |
| TO8 | Redundant Networks | Reading Class discussion Research | Quiz Exam | CLO1, CLO4 |
| ТО9 | Available and Reliable Networks | Reading Class discussion Research | Quiz Exam | CLO1, CLO4 |
| TO10 | L2 Security and WLANs | Reading Class discussion Research | Quiz Exam | CLO1, CLO2, CLO5 |
| TO11 | Routing Concepts and Configuration | Reading Class discussion Research | Quiz Exam | CLO3 |

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?

- a. Class Lecture
- b. Discussion
- c. Demonstrations
- d. Labs
- e. Online presentations, online activities, and assessments.

13. General Education Goals Addressed by this Course (this section is to fulfill state requirements)

| Information | | | |
|------------------------------------|----------------------|---------------------------------|--|
| Communication-Writte | en and Oral | | |
| Quantitative Knowled | ge and Skills | | |
| Scientific Knowledge a | and Reasoning | | |
| Technological Compet | tency | Yes | |
| Related Course Learning Outcome | CL01-CL05 | | |
| Related Outline Component | TO1-TO11 | | |
| Assessment of Genera | al Education Goal (I | Recommended but not limited to) | |
| N/A | | | |
| Information Literacy | | Yes | |
| Related Course Learning Outcome | CL01-CL05 | | |
| Related Outline Component | TO1-TO11 | | |
| Assessment of Gener | al Education Goal (| Recommended but not limited to) | |
| N/A | | | |

| Society and Human Behavior | |
|--|--------------------------------|
| Humanistic Perspective | |
| Historical Perspective | |
| Global and Cultural Awareness | |
| Ethical Reasoning and Action | |
| Independent/Critical Thinking | Yes |
| Related Course CL01-CL05 Learning Outcome | |
| Related Outline TO1-TO11 Component | |
| Assessment of General Education Goal (R | ecommended but not limited to) |
| N/A | |

CSIT 243: Cisco Networking Fundamentals

14. Needs

Instructional

Materials (text

etc.):

Appropriate textbook(s) will be selected. Please contact the department for current adoptions.

Technology Needs:

N/A

Human Resource

Needs (Presently

Employed vs. New

Faculty):

N/A

Facility Needs:

N/A

N/A

15. Grade Determinants

The final grade in the course will be the cumulative grade based on the following letter grades or their numerical equivalents for the course assignments and examinations

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

For more detailed information on the Ocean County College grading system, please see Policy #5154.

Reviewer

Comments

Cynthia Fallon (cfallon) (10/12/22 11:11 am): Rollback: "If non-transferable; select status" should be blank for all schools.

Susan O'Connor (soconnor) (10/18/22 10:17 am): Rollback: Email sent with explanation on 10/18: I sent the following comments in Courseleaf (italic below). I see that some were edited based on my comments, but I do not have the answer to the highlighted section below. For all three proposed CSIT courses, I am particularly interested in Laura Wills comments on these courses and their transferability/possible overlap with existing courses. I will also need that answer about 100/200 for all three courses. You can add your responses right to reviewer comments in CL for the course. I will return them to Joseph to respond or edit. Second, what course number in section 1 did you think would be best for this course (do you imagine it will be freshman-100s-or sophomore - 200s- level course, for example)? I can add in the course number if you give me an idea of what you are thinking. For the mapping to the master plan/strategic plan in section 8, can you tell the reader where exactly you got each point from, since there are a few possibilities? Lastly, did you run the transfer content past Laura Wills, transfer advisor? Let me know if you want to go over any of these items - extension 2978 or email soconnor@ocean.edu. - Susan OC Delete Comment Also, I am happy to review these live

if you want to set up a meeting on my calendar. Sometimes, that can be easier than email and comments.

Cynthia Fallon (cfallon) (10/25/22 9:56 am): Rollback: At your request.

Cynthia Fallon (cfallon) (11/09/22 9:53 am): Rollback: At your request

Sylvia Riviello (sriviello) (11/10/22 10:53 am): Rollback: Same comments. Let Susan give you suggestions.

Cynthia Fallon (cfallon) (11/30/22 10:37 am): Rollback: At your request.

Susan O'Connor (soconnor) (01/19/23 3:41 pm): will be required coursework for new

AAS.CS/IT.CYBER

Key: 2275

Preview Bridge

EXHIBIT B-8

Course Change Request

New Course Proposal

Date Submitted: 12/06/22 1:08 pm

Viewing: CSIT 244: Digital Forensics

Fundamentals

Last edit: 01/26/23 4:26 pm

Changes proposed by: Joseph Brickley (jbrickley)

Programs

referencing this

course

AAS.CS.CY: Computer Science/Informational Technology - Option in

Cybersecurity, Associate in Applied Science

Learning Outcomes Display (show only)

In Workflow

- 1. STEM Academic Administrator
- 2. STEM Dean
- 3. Director of Curriculum
- 4. Curriculum **Committee Chair**
- 5. Senate Chair
- 6. Vice President of **Academic Affairs**
- 7. President's **Leadership Team** Chair
- 8. President
- 9. Board of Trustees Chair
- 10. STEM Academic Administrator
- 11. Colleague

Approval Path

- 1. 12/06/22 11:07 am Cynthia Fallon (cfallon): Rollback to Initiator
- 2. 12/06/22 1:13 pm Carolyn Showalter (cshowalter): Approved for STEM Academic Administrator
- 3. 01/19/23 3:35 pm Susan O'Connor (soconnor):

Approved for STEM Dean

4. 01/19/23 4:29 pm Susan O'Connor (soconnor): Approved for

> Director of Curriculum

5. 01/26/23 4:30 pm Heather Sciarappa (hsciarappa): Approved for Curriculum

6. 02/02/23 4:14 pm Robert Marchie (rmarchie): Approved for Senate Chair

Committee Chair

7. 02/02/23 4:45 pm
Joseph Konopka
(jkonopka):
Approved for Vice
President of

Academic Affairs

2/14

1. Course Information

Subject CSIT - Computer Science/ Information

Technology

Course Number 244

School Science, Technology, Engineering,

Mathematics

Course Title Digital Forensics Fundamentals

2. Hours

Semester Hours 3

Lecture

3

Lab 0

Practicum 0

3. Catalog Description

For display in the

online catalog

This course introduces the methodology and procedures associated with digital forensic analysis. The objective of this class is to emphasize the fundamentals and importance of digital forensics. Students will learn different techniques and procedures that enable them to perform a digital investigation. This course focuses mainly on the analysis of physical storage media and volume analysis. It covers the major phases of digital investigation such as preservation, analysis and acquisition of artifacts that reside in hard disks and random-access memory.

4. Requisites

Prerequisites

CSIT 165 and CSIT 184

Corequisites

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

This course provides the required training in Cybersecurity programs of study and helps students prepare for the fundamental of digital forensics.

7. General Education

Will the college submit this course to the statewide General Education Coordinating Committee for approval as a course, which satisfies a general education requirement?

No

If the course does not satisfy a general education requirement, which of the following does it satisfy:

Program-specific requirement

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiatives of the College

Please describe how this course is consistent with Ocean County College's current Vision Statement, Mission Statement, Academic Master Plan, and the strategic initiatives of the College:

| | Add item |
|---|---|
| 1 | Demonstrating the college's commitment to offer comprehensive educational programs that develop intentional learners of all ages. (Mission Statement) |
| 2 | Seeking to ensure that students will thrive in an increasingly diverse and complex world. (Vision Statement) |
| 3 | Preparing students for successful transfer to other educational institutions and/or for entrance into the workforce. (Academic Master Plan) |
| 4 | Seeking to empower students through the mastery of intellectual and Practical Skills. (Academic Master Plan) |
| 5 | Challenging students to transfer information into knowledge and knowledge into action. (Academic Master Plan) |

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution County College of Morris

Course Title **Digital Forensic**

Course Number **CMP 160**

Number of Credits 3

Comments

Institution

Middlesex County College

Course Title

Computer Forensics

Course Number

CSC 258

Number of Credits

3

Comments

Institution

Brookdale CC

Course Title

Computer Forensics and Investigation

Course Number

NETW 236

Number of Credits

3

Comments

Institution

Camden County College

Course Title

Digital Forensics & Investigation

Course Number

CST 210

Number of Credits

2

Comments

Institution

Essex County College

Course Title

Computer & Internet Forensics

Course Number

CSC 230

Number of Credits

3

Comments

Institution

Passaic County CC

Course Title

Computer Forensics and Investigation

Course Number

CIS 289

Number of Credits

3

Comments

Institution

Raritan Valley CC

Course Title

Privacy, Ethics, & Computer Forensics

Course Number

NTWK 274

Number of Credits

3

Comments

Institution

Rowan College of South Jersey

Course Title

Computer Forensics

Course Number

CS 241

Number of Credits

3

Comments

Institution

Union County College

Course Title

Digital Forensics Essentials

Course Number

CST 170

Number of Credits

3

Comments

Transferability of Course

Georgian Court

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| EC Elective Credit, 3 | Elective | |

Kean University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|---------------------|------------------------------------|
| TECHX1003, 3 | Technology Elective | |

Monmouth

University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|----------------------------------|-------------------|------------------------------------|
| FE0001 100-level Free Elective 3 | Elective | |

Rowan University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|-------------------|------------------------------------|
| CST 03252, Foundations of | Required | |
| Computer Forensics, 3 | | |

Rutgers - New Brunswick, Mason Gross School of the Arts

Stockton University

| Course Code, Title, and Credits | Transfer Catagory | If non-transferable; select status |
|---------------------------------|---------------------------|------------------------------------|
| CSISEC, Computer Science & Info | Computer Science Elective | |
| Systems Elective, 3 | | |

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

| | Students who successfully complete this course will be able to: |
|------|--|
| CLO1 | Discuss the fundamental concepts of computer forensics, digital evidence, forensic readiness, identify the roles and responsibilities of a forensic investigator and review legal compliance issues in computer forensics. |
| CLO2 | Examine the computer forensic investigation process and its phases. |
| CLO3 | Describe different disk drives, characteristics, and logical structure, understand Windows, Linux, and Mac boot processes, and examine various file systems and formats. |
| CLO4 | Discuss data acquisition concepts, types, format, and methodology. |
| CLO5 | Examine various anti-forensics techniques and identify countermeasures. |
| CLO6 | Examine various volatile and non-volatile information gathering techniques for Windows, Linux, and Mac systems, including Windows memory and registry analysis, cache, cookie, history analysis, and metadata investigation. |
| CLO7 | Explain network forensics fundamentals, event correlation, and perform network traffic investigation. |
| CLO8 | Appraise web server logs and perform web application forensics to detect and investigate various attacks on web applications. |
| CLO9 | Discuss malware forensics fundamentals, list and perform different types of malware analysis. |

11. Topical Outline

(include as many themes/skills as needed)

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| TO1 | Fundamentals of Computer Forensics Digital Evidence Forensic Readiness Roles and | Reading, Class discussion | Quiz/ Exam | CLO1, CLO2 |

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| | Responsibilities of a Forensic Investigator 5. Legal Compliance in Computer Forensics | | | |
| ГО2 | 1. Forensic Investigation Process and its Importance 2. Forensic Investigation Process - Pre- investigation Phase 3. Forensic Investigation Process - Investigation Phase 4. Forensic Investigation Process - Post- investigation Phase | Reading, Class discussion | Quiz/ Exam | CLO3 |
| ТОЗ | Different Types of Disk Drives and their Characteristics Logical Structure of a Disk Booting Process of Windows, Linux, and Mac Operating Systems File Systems of Windows, Linux, and Mac Operating Systems File Systems File Systems | Reading, Class discussion | Quiz/ Exam | CLO2, CLO3 |
| ТО4 | Data Acquisition Fundamentals Types of Data Acquisition Data Acquisition Format Data Acquisition Methodology | Reading, Class discussion | Quiz/ Exam | CLO4, CLO5 |

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| | 5. Anti-forensics and itsTechniques6. Anti-forensicsCountermeasures | | | |
| TO5 | Volatile and Non-Volatile Information Windows Memory and Registry Analysis Cache, Cookie, and History Recorded in Web Browsers Windows Files and Metadata Volatile and Non-Volatile Data in Linux Memory Forensics Mac Forensics | Reading, Class discussion | Quiz/ Exam | CLO4, CLO5 |
| T06 | Network Forensics Fundamentals Event Correlation Concepts and Types Identify Indicators of Compromise (IoCs) from Network Logs Investigate Network Traffic Web Application Forensics IlS and Apache Web Server Logs | Reading, Class discussion | Quiz/ Exam | CLO5, CLO6 |
| ТО7 | Investigating Web Attacks on Windows-based Servers Detect and Investigate Attacks on Web Applications | Reading, Class discussion | Quiz/ Exam | CLO6, CLO7 |

| | Major Themes/ Skills | Assignments (Recommended but not limited to) | Assessments (Recommended but not limited to) | Course Learning Outcome(s) |
|-----|---|--|--|----------------------------------|
| | 3. Dark Web4. Dark Web Forensics5. Tor Browser Forensic | | | |
| TO8 | Email Basics Email Crime Investigation and its Steps Malware, its Components and Distribution Methods Malware Forensics Fundamentals PowerShell Scripts | Reading, Class discussion | Quiz/ Exam | CLO7, CLO8, CLO6 |
| TO9 | Recognize Types of Malware Analysis Static Malware Analysis Analyze Suspicious Word Documents Dynamic Malware Analysis System Behavior Analysis Network Behavior Analysis Communication | Reading, Class discussion | Quiz/ Exam | CLO8, CLO9 |

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?

Class lecture, presentations, discussions, lab assignments/exercises, case studies and projects.

13. General Education Goals Addressed by this Course (this section is to fulfill state requirements)

| Information | | |
|------------------------------------|------------------------|-------------------------------|
| Communication-Writte | en and Oral | Yes |
| Related Course Learning Outcome | CLO1-CLO9 | |
| Related Outline Component | TO1-TO9 | |
| Assessment of Genera | l Education Goal (Rec | commended but not limited to) |
| N/A | | |
| Quantitative Knowled | ge and Skills | |
| Scientific Knowledge a | and Reasoning | |
| Technological Compet | tency | Yes |
| Related Course Learning Outcome | CLO1-CLO9 | |
| Related Outline Component | TO1-TO9 | |
| Assessment of Genera | al Education Goal (Red | commended but not limited to) |
| N/A | | |
| Information Literacy | | Yes |
| Related Course Learning Outcome | CLO1-CLO9 | |
| Related Outline Component | TO1-TO9 | |

| Assessment of General Education Goal (Re | ecommended but not limited to) |
|--|--------------------------------|
| N/A | |
| Society and Human Behavior | |
| Humanistic Perspective | |
| Historical Perspective | |
| Global and Cultural Awareness | |
| Ethical Reasoning and Action | |
| Independent/Critical Thinking | |

14. Needs

Instructional

Materials (text

etc.):

Text: Appropriate textbook(s) will be selected. Please contact the department for current adoptions.

Technology Needs:

N/A

Human Resource

Needs (Presently

Employed vs. New

Faculty):

N/A

Facility Needs:

N/A

Library needs:

N/A

8

15. Grade Determinants

The final grade in the course will be the cumulative grade based on the following letter grades or their numerical equivalents for the course assignments and examinations

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

For more detailed information on the Ocean County College grading system, please see Policy #5154.

Reviewer

Comments

Cynthia Fallon (cfallon) (12/06/22 11:07 am): Rollback: At your request.

Susan O'Connor (soconnor) (01/19/23 3:35 pm): will be required coursework for new

AAS.CS/IT.CYBER

Susan O'Connor (soconnor) (01/19/23 3:42 pm): will be required coursework for new

AAS.CS/IT.CYBER

Key: 2280

Preview Bridge

EXHIBIT B-9

Program Change Request

A deleted record cannot be edited

Program Inactivation Proposal

Date Submitted: 01/09/23 10:59 am

Viewing: AA.GLOBL: Global Studies, Associate in

Arts

Last approved: 01/26/21 6:59 pm

Last edit: 01/09/23 10:59 am

Changes proposed by: Susan O'Connor (soconnor)

Catalog Pages Using
this Program
Global Studies, Associate in Arts

Final Catalog

2023-2024

Rationale for Inactivation

In Workflow

- 1. BS Academic Administrator
- 2. BS Dean
- 3. Director of Curriculum
- 4. Curriculum

 Committee Chair
- 5. Senate Chair
- 6. Vice President of Academic Affairs
- 7. President's Leadership Team Chair
- 8. President
- 9. Board of Trustees Chair
- 10. Academic

 Administrator for

 Programs

Approval Path

- 1. 01/09/23 11:04 am
 Susan O'Connor
 (soconnor):
 Approved for BS
 Academic
 Administrator
- 2. 01/09/23 1:31 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 01/09/23 1:49 pm Susan O'Connor (soconnor):

Approved for Director of

Curriculum

4. 01/12/23 3:46 pm Heather Sciarappa

(hsciarappa):

Approved for

Curriculum

Committee Chair

5. 02/02/23 4:13 pm

Robert Marchie

(rmarchie):

Approved for

Senate Chair

6. 02/02/23 4:44 pm

Joseph Konopka

(jkonopka):

Approved for Vice

President of

Academic Affairs

History

- 1. Jan 26, 2021 by Susan O'Connor (soconnor)
- 2. Jan 26, 2021 by Susan O'Connor (soconnor)

"This degree has had low enrollment and students can achieve similar outcomes through the

AA Liberal Arts"

<u>Placed on hiatus in spring of 2023 for 23-24 calendar year through termination or reintroduction.</u>

Program Type

Associate of Arts (AA)

Program Title

Global Studies, Associate in Arts

Academic School

Business and Social Sciences

Will this program exceed the programmatic mission level for the

Institution?

Effective Catalog

2023-2024

Year

Program Code

AA.GLOBL

CIP Code

N/A - N/A

Is this a new program announcement?

Campus(es) where the program will be offered.

Is licensure required of program graduates to gain employment?

Will the institution seek accreditation for this program?

If yes, list the accrediting organization:

List the institutions with which articulation agreements will be arranged

Program Description

The Global Studies program allows students to complete the first two years of their college education by selecting courses from a range of offerings based on their interest and transfer needs. These courses prepare students to transfer to baccalaureate programs with majors in global studies, international politics, and foreign relations.

Program Objectives

Program Goals

| | Program goals |
|-----|---------------|
| PG1 | N/A |

Program Learning

Outcomes

| | Students who successfully complete this program will be able to: |
|------|---|
| PLO1 | Demonstrate an understanding of a set of cultural values and beliefs other than their own. |
| PLO2 | Discuss the impact of modernity and technology on tradition and demographic change in lesser developed countries. |
| PLO3 | Apply the knowledge base from many disciplines to the study of the international community. |
| PLO4 | In their native language – and possibly in another world language – demonstrate oral and written language skills which promote global communication. |
| PLO5 | Demonstrate an awareness of international career and study opportunities in government, business, education, and in organizations servicing international concerns. |

| Learning Outcomes Display (show only) | | | | | |
|---------------------------------------|-------|---------|----------|-------|-------|
| Course Code | PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 |
| | | FirstSe | mester | | |
| ENGL 151 | | | | | |
| POLI 101 | | | | | |
| <u>HIST 181</u> ☑ | | | | | |
| STSC 150 | | | | | |
| | | Seconds | Semester | | |
| ENGL 152 | | | | | |
| POLI 263 | | | | | |
| COMM 154 | | | | | |
| HIST 182 ☑ | | | | | |

AA.GLOBL: Global Studies, Associate in Arts

| Course Code | PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 |
|--------------------------|-------|-------|-------|-------|-------|
| ANTH 134 | | | | | |
| ARTS 181 | | | | | |
| ARTS 182 | | | | | |
| ARTS 191 | | | | | |
| ARTS 205 | | | | | |
| ENGL 222 | | | | | |
| ENGL 225 | | | | | |
| ENGL 226 | | | | | |
| ENGL 235 | | | | | |
| ENGL 237 | | | | | |
| ENGL 255 | | | | | |
| ENGL 256 | | | | | |
| FILM 190 | | | | | |
| <u>GEOG 161</u> ☑ | | | | | |
| GEOG 162 ☑ | | | | | |
| HIST 185 ☑ | | | | | |
| HIST 272 ☑ | | | | 120 | |
| <u>HIST 275</u> ☑ | | | | | |
| <u>HIST 278</u> ☑ | | | | | |
| HIST 280 ☑ | | | | | |
| <u>HUMN 200</u> ☑ | | | | | |
| HUMN 201 | | | | | |
| MUSC 194 | | | | | |
| PHIL 192 | | | | | |
| POLI 265 | | | | | |
| POLI 268 | | | | | |
| PSYC 175 🗹 | | | | | |
| RELG 193 | | | | | |
| RELG 293 ☑ | | | | | |
| SOCI 181 📝 | | | | | |

| Course Code | PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 |
|--------------------------|-------|-------|-------|-------|-------|
| <u>SOCI 231</u> ☑ | | | | | |
| ANTH 134 | | | | | |
| ARTS 181 | | | | | |
| ARTS 182 | | | | | |
| ARTS 191 | | | | | |
| ARTS 205 | | | | | |
| ENGL 222 | | | | | |
| ENGL 225 | | | | | |
| ENGL 226 | | | | | |
| ENGL 235 | | | | | |
| ENGL 237 | | | | | |
| ENGL 255 | | | | | |
| ENGL 256 | | | | | |
| FILM 190 🗹 | | | | | |
| GEOG 161 | | | | | |
| GEOG 162 📝 | | | | | |
| HIST 185 ☑ | | | | | |
| HIST 272 ☑ | | | | | |
| HIST 275 ☑ | | | | | |
| <u>HIST 278</u> ☑ | | | | | |
| HIST 280 ✓ | | | | | |
| <u>HUMN 200</u> ☑ | | | | | |
| <u>HUMN 201</u> ☑ | | | | | |
| MUSC 194 | | | | | |
| PHIL 192 | | | | | |
| POLI 263 | | | | | |
| POLI 265 | | | | | |
| POLI 268 | | | | | |
| PSYC 175 | | | | | |
| RELG 193 | | | | | |

| Course Code | PLO 1 | PLO 2 | PLO 3 | PLO 4 | PLO 5 |
|-------------------|-------|---------|----------|-------|-------|
| RELG 293 | | | | | |
| SOCI 181 | | | | | |
| SOCI 231 | | | | | |
| | | FirstSe | mester | | |
| ENGL 151 | | | | | |
| POLI 101 | | | | | |
| <u>HIST 181</u> ☑ | | | | | |
| STSC 150 | | | | | |
| | | Seconds | Semester | | |
| ENGL 152 | | | | | |
| COMM 154 | | | | | |
| HIST 182 | | | | | |

College-wide Assessment of Program Learning Outcomes

- A Graduate Exit Survey and Noel Levitz Student Satisfaction Survey are undertaken in order to gauge overall student satisfaction with college programs.
- Course Level Assessment 40 high enrollment courses from across all academic disciplines is conduced yearly on a three year cycle. Faculty develop specific assessment instruments/plans aligned to all course learning outcomes; specific recommendations for improvements in instruction, or curriculum are made based upon the results.
- Each course is individually digitally assessed at the end of each term for faculty performance and student satisfaction
- General Education Assessment The college has 11 General Education goals and outcomes based on the NJCCC/AOA General Education Foundation; these are assessed cyclically each semester; there is a randomized selection of courses and students for inclusion in the assessment each semester; faculty teaching selected sections are required to submit the selected assignments for the students in their sections who have also been randomly selected. A faculty and staff committee works in teams to assess the submitted works using an appropriate AAC&U Value Rubric. Recommendations for curricular improvements, faculty workshops, etc. are made based on the data.

- Program Assessment Program Assessment is conducted for all programs on a five year cycle; the program is reviewed and assessed in its entirety through indirect and direct assessment (i.e. testing, portfolio review, and artifact collection; student and alumni surveys, focus groups), and requires a full audit of all curriculum, faculty, enrollment and graduation trends, and advisory board recommendations, concluding in specific recommendations for improvement and planning, based upon the data collected
- Retention/Graduate rates are assessed college-wide for all first-time, full time students.
- Transfer rates are assessed at three years for first time, full-time students who non-completers.

Required Qualifications

Program Requirements

| | Plan of Study Grid | |
|---------------------|---|-----------------|
| First Semester | | Credit Hours |
| ENGL 151 | English I | 3 |
| Mathematics (| <u>Gen. Ed. Requirement</u> ¹ | 3 |
| POLI 101 | Global Issues | 3 |
| HIST 181 | World Civilization to 1660 | 3 |
| STSC 150 | Student Success Seminar | 2 |
| | Credit Hours | 14 |
| Second Semes | ster | |
| ENGL 152 | English II | 3 |
| POLI 263 | Introduction to International Relations | 3 |
| or POLI 265 | or Comparative Politics and Government | t |
| Global Studies | s Program Elective | 3 |
| COMM 154 | Fundamentals of Public Speaking | 3 |
| HIST 182 | World Civilization From 1660 | 3 |
| | Credit Hours | 15 |
| Third Semeste | er | |
| Global Studies | s Program Elective | 6 |
| Lab Science G | <u>en. Ed. Requirement</u> ¹ | 4 |
| | Gen. Ed. Requirement | 3 |
| World Langua | ge – 1st in a sequence ² | 3 |
| | Credit Hours | 16 |
| Fourth Semes | ter | |
| Global Studie | <u>s Program Elective - Travel Seminar course pre</u> | <u>ferred</u> 3 |
| Humanities G | <u>en. Ed. Requirement</u> | 3 |
| | or Lab Science Gen. Ed. Requirement ¹ | 3-4 |
| Technology G | <u>en. Ed. Requirement</u> ¹ | 3 |
| | | |

| World Language – 2nd in a sequence ² | 3 |
|---|---|
| Elective to meet 60 credits | 0-1 |
| Credit Hours | 15-17 |
| Total Credit Hours | 60-62 |
| | Elective to meet 60 credits Credit Hours |

1

Students must select one math course, one lab science course, and one technology course and complete the 12 credit requirement with any additional math or science course from the list of Approved General Education Courses. Students may attempt to "test out" of the technology requirement. If they succeed, they must take an additional course in math or science from the List of Approved General Education Courses.

World Language Courses (two sequential semesters of a foreign language is required – for example, SPAN I and II).

Global Studies Program Electives

| <u>ANTH 134</u> | Cultural Anthropology | 3 |
|-----------------|--|-------|
| ARTS 181 | Art From Prehistory to Middle Ages | 3 |
| <u>ARTS 182</u> | Art From Renaissance to Modern World | 3 |
| <u>ARTS 191</u> | The Arts of the Islamic World | 3 |
| ARTS 205 | Modern Art | 3 |
| ENGL 222 | Indigenous American Literature | 3 |
| ENGL 225 | Chinese Literature in Translation | 3 |
| ENGL 226 | Arabic Literature in Translation | 3 |
| ENGL 235 | Literature and Myth | 3 |
| ENGL 237 | Multicultural Fairy and Folk Tales | 3 |
| ENGL 255 | World Literature Ancient through 1600 | 3 |
| ENGL 256 | World Literature 1600 to Present | 3 |
| FILM 190 | World Cinema | 3 |
| GEOG 161 | World Physical Geography | 3 |
| GEOG 162 | Human Geography | 3 |
| HIST 185 | Survey of Middle Eastern Civilization | 3 |
| HIST 272 | History of Russia | 3 |
| HIST 275 | History and Culture of China | 3 |
| HIST 278 | History of the Arab World Since World Wa | ar I3 |
| HIST 280 | Modern Latin American History | 3 |
| HUMN 20 | OModernism and the Arts | 3 |
| HUMN 20 | 1Postmodernism and the Arts | 3 |
| MUSC 194 | Introduction to World Music | 3 |
| PHIL 192 | Contemporary Ethical Issues | 3 |
| POLI 263 | Introduction to International Relations | 3 |
| POLI 265 | Comparative Politics and Government | 3 |
| POLI 268 | Women and Politics | 3 |
| PSYC 175 | Cross-Cultural Psychology | 3 |
| RELG 193 | World Religions | 3 |
| | | |

| RELG 293 Religious Experiences | 3 | |
|-------------------------------------|---|--|
| SOCI 181 Introduction to Sociology | 3 | |
| SOCI 231 Social Problems | 3 | |
| Any approved Travel Seminar course | 3 | |
| World Language courses ² | 3 | |
| | | |

Degree Requirements Breakdown

| GCOM | Course Code & Title | Credits |
|------------------|------------------------------|---------|
| | ENGL 151 | 3 |
| | ENGL 152 | 3 |
| | COMM 154 | 3 |
| GHUM | Course Code & Title | Credits |
| | WORLD LANGUAGE (I) COURSE | 3 |
| | WORLD LANGUAGE (II) COURSE | 3 |
| | GEN. ED. HUMN | 3 |
| GHIS | Course Code & Title | Credits |
| | HIST 181 | 3 |
| | HIST 182 | 3 |
| GSOC | Course Code & Title | Credits |
| | GEN. ED. SOCIAL SCIENCE | 3 |
| | POLI 101 | 3 |
| GDIV | Course Code & Title | Credits |
| | POLI 263 OR POLI 265 | 3 |
| GMAT/ GSCI/ GTEC | Course Code & Title | Credits |
| | GEN. ED. MATH | 3 |
| | GEN. ED. LAB SCIENCE | 4 |
| | GEN. ED. MATH OR LAB SCIENCE | 3-4 |
| | GEN. ED. TECHNOLOGY | 3 |

2/13/23, 4:38 PM

AA.GLOBL: Global Studies, Associate in Arts

| Concentration |
|---------------|
| Courses |

| Course Code & Title | Credits |
|-------------------------|---------|
| GLOBAL STUDIES ELECTIVE | 3 |
| GLOBAL STUDIES ELECTIVE | 3 |
| GLOBAL STUDIES-TRAVEL | 3 |

Elective Courses

| Course Code & Title | Credits |
|---------------------|---------|
| STSC 150 | 2 |
| ELECTIVE | 0-1 |

Reviewer

Comments

Key: 33