EXHIBIT B

OCEAN
COUNTY COLLEGE

BOARD OF TRUSTEES

Bylaw, Policy, and Curriculum Committee Agenda Items

To: Board of Trustees

From: Office of the President

Date: July 18, 2024

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, July 25, 2024**:

1. Recommend approval of the following items as accepted by the College Senate at its meeting on July 18, 2024:

    a. New Program Options

        1) Associate in Science Degree in Advanced and Continuous Studies – Option in Business – Accounting **(Exhibit B-1)**
        2) Associate in Science Degree in Advanced and Continuous Studies – Option in Business Administration **(Exhibit B-2)**
        3) Associate in Science Degree in Advanced and Continuous Studies – Option in Business Administration – Management **(Exhibit B-3)**
        4) Associate in Science Degree in Advanced and Continuous Studies – Option in Business Administration – Marketing **(Exhibit B-4)**

    b. Revised Program

        1) Associate in Applied Science Degree in Computer Science/Informational Technology **(Exhibit B-5)**

    c. Revised Program Option

        1) Associate in Applied Science Degree in Computer Science/Informational Technology – Option in Cybersecurity **(Exhibit B-6)**

    d. Revised Certificate of Completion

        1) Certificate of Completion in Information Technology **(Exhibit B-7)**

e. New Courses

1) ACCT 340, Intermediate Accounting II: Computer Applications **(Exhibit B-8)**
2) ACCT 350, Cost Accounting with Computer Applications **(Exhibit B-9)**
3) BUSN 350, Introduction to Financial Management **(Exhibit B-10)**
4) BUSN 380, Advanced Operations Management **(Exhibit B-11)**
5) CSIT 212, Systems Analysis **(Exhibit B-12)**

EXHIBIT B-1

EXHIBIT B -   **1**

New Program Proposal

Date Submitted: 07/03/24 2:30 pm

Viewing: **AS.ACS.SACT : Advanced and Continuous Studies - Option in Business - Accounting**

Last edit: 07/03/24 2:30 pm

Changes proposed by: Katherine Toy (ktoy)

Program Type	Option
Program Title	
Advanced and Continuous Studies - Option in Business - Accounting	
Option Title	
Accounting Option- Aligned with Stockton University	
Academic School	Business and Social Sciences
Base Program	Advanced and Continuous Studies
Effective Catalog Year	2024-2025
Program Code	AS.ACS.SACT
CIP Code	24.0101 - 24.0101

Objectives

Program Description

In Workflow

1. **BS Academic Administrator**
2. **BS Dean**
3. **Curriculum Committee Chair**
4. **Senate Chair**
5. Vice President of Academic Affairs
6. Cabinet
7. President
8. Board of Trustees Chair
9. Academic Administrator for Programs

Approval Path

1. 07/03/24 2:58 pm James Marshall (jmarshall): Approved for BS Academic Administrator
2. 07/03/24 3:04 pm Rosann Bar (rbar): Approved for BS Dean
3. 07/12/24 12:53 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

Students in this Accounting option of the "3+1" program graduate with an associate degree from OCC in Business Administration - Option in Accounting (choosing designated courses) and then matriculate into the Advanced and Continuous Studies program - Business - Accounting Option (AS.ACS.SACT), allowing for financial aid to continue and for the full 90 credits to transfer to the aligned four-year university. The 300-level courses included in this option have been developed by OCC in conjunction with our four-year partner, Stockton University. Upon successful completion, no course shall be repeated.

Program Learning
Outcomes

	Students who successfully complete this program will be able to:
PLO1	Apply written, oral, and visual communication skills and conventions of academic discourse to the challenges of a specific discipline.
PLO2	Interpret and employ a method of inquiry to draw conclusions based on variable evidence.
PLO3	Exhibit competency in the application of technology appropriate to the discipline and academic level.

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	PLO 3
Junior			
First Semester			
MATH 157 ✏			
Second Semester			
HIST 191 ✏			
SOCI 238 ✏			
FirstSemester			
SecondSemester			

Required Qualifications

Plan of Study Grid

Junior

First Semester		Credit Hours
ACCT 340 Intermediate Accounting II: Computer Applications		4
MATH 157	Introduction to Data Science	4

Choose OCC Course from Stockton Historical Consciousness Category	3	
BUSN 350 Introduction to Financial Management	4	
Credit Hours	15	
Second Semester		
BUSN 380 Advanced Operations Management	4	
HIST 191 African-American History	3	
or SOCI 238 or Race and Ethnicity		
ACCT 350 Cost Accounting with Computer Applications	4	
Choose OCC Course from Stockton Arts Category	3	
Choose OCC Course from Stockton International/Multicultural Category	3	
Credit Hours	17	
Total Credit Hours	32	

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits
N/A	N/A

GHUM

Course Code & Title	Credits
N/A	N/A

GSOC

Course Code & Title	Credits
N/A	N/A

GSOC/ GHUM

Course Code & Title	Credits
N/A	N/A

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
N/A	N/A

General Education

Course Code & Title	Credits
N/A	N/A

Concentration Courses

Course Code & Title	Credits
ACCT 340 (Stockton equivalent ACCT 3120 Intermediate Accounting II: Computer Applications)	4.0

Course Code & Title	Credits
MATH 157 (Stockton equivalent BUSA 2120 Introduction to Business Analytics)	4.0
OCC Course from Stockton History Category (Stockton equivalent Historical Consciousness Attribute: H)	3.0
BUSN 350 (Stockton equivalent FINA 3110 Introduction to Financial Management)	4.0
BUSN 380(Stockton equivalent BUSA 3120 Operations Management)	4.0
HIST 191 or SOCI 238 (Stockton equivalent Race, Ethnicity, & Diversity Attribute: R1)	3.0
ACCT 350 (Stockton equivalent ACCT 3122 Cost Accounting with Computer Applications)	4.0
OCC Course from Stockton Arts Category (Stockton equivalent Arts Category Attribute: A)	3.0
OCC Course from Stockton International/Multicultural Category (Stockton equivalent International/Multicultural Category Attribute I)	3.0

Elective Courses

Course Code & Title	Credits
N/A	N/A

Reviewer
Comments

Key: 111

EXHIBIT B-2

New Program Proposal

Date Submitted: 07/03/24 2:30 pm

Viewing: **AS.ACS.SBA : Advanced and Continuous Studies - Option in Business Administration - BA Business Administration**

Last edit: 07/03/24 2:30 pm

Changes proposed by: Katherine Toy (ktoy)

Program Type	Option
Program Title	
Advanced and Continuous Studies - Option in Business Administration - BA Business Administration	
Option Title	
BA Business Administration Option - Aligned with Stockton University	
Academic School	Business and Social Sciences
Base Program	Advanced and Continuous Studies
Effective Catalog Year	2024-2025
Program Code	AS.ACS.SBA
CIP Code	24.0101 - 24.0101

Objectives

Program Description

In Workflow

1. **BS Academic Administrator**
2. **BS Dean**
3. **Curriculum Committee Chair**
4. **Senate Chair**
5. Vice President of Academic Affairs
6. Cabinet
7. President
8. Board of Trustees Chair
9. Academic Administrator for Programs

Approval Path

1. 07/03/24 2:58 pm James Marshall (jmarshall): Approved for BS Academic Administrator
2. 07/03/24 3:04 pm Rosann Bar (rbar): Approved for BS Dean
3. 07/12/24 12:53 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

Students in this Business Administration option of the "3+1" program graduate with an associate degree from OCC in Business Administration (choosing designated courses) and then matriculate into the Advanced and Continuous Studies program - Business Administration - BA Business Administration Option (AS.ACS.SBA), allowing for financial aid to continue and for the full 90 credits to transfer to the aligned four-year university. The 300-level courses included in this option have been developed by OCC in conjunction with our four-year partner, Stockton University. Upon successful completion, no course shall be repeated.

Program Learning
Outcomes

		Students who successfully complete this program will be able to:
PLO1		Apply written, oral, and visual communication skills and conventions of academic discourse to the challenges of a specific discipline.
PLO2		Interpret and employ a method of inquiry to draw conclusions based on variable evidence.
PLO3		Exhibit competency in the application of technology appropriate to the discipline and academic level.

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	PLO 3
Junior			
First Semester			
ACCT 263 ☑			
MATH 157 ☑			
BUSN 151 ☑			
BUSN 170 ☑			
Second Semester			
HIST 191 ☑			
SOCI 238 ☑			
FirstSemester			
SecondSemester			

Required Qualifications

Plan of Study Grid

Junior

First Semester		Credit Hours
ACCT 263	Cost Accounting	3
MATH 157	Introduction to Data Science	4
BUSN 151	Introduction to Human Resource Management	3
BUSN 170	Small Business Management	3
Choose OCC Course from Stockton Historical Consciousness Category		3
	Credit Hours	16

Second Semester		
BUSN 350 Introduction to Financial Management		4
HIST 191	African-American History	3
or SOCI 238	or Race and Ethnicity	
Choose OCC Course from Stockton Arts Category		3
BUSN 380 Advanced Operations Management		4
Choose OCC Course from Stockton International/Multicultural Category		3
	Credit Hours	17
	Total Credit Hours	33

Degree Requirements Breakdown

GCOM	Course Code & Title	Credits
	N/A	N/A

GHUM	Course Code & Title	Credits
	N/A	N/A

GSOC	Course Code & Title	Credits
	N/A	N/A

GSOC/ GHUM	Course Code & Title	Credits
	N/A	N/A

GMAT/ GSCI/ GTEC	Course Code & Title	Credits
	N/A	N/A

General Education	Course Code & Title	Credits
	N/A	N/A

Concentration
Courses

Course Code & Title	Credits
ACCT 263 (Stockton equivalent: ACCT 2120 Managerial Accounting)	3
MATH 157 (Stockton equivalent BUSA 2120 Introduction to Business Analytics)	4
BUSN 151 (Stockton equivalent MGMT 3111 Human Resource Management)	3
BUSN 350 (Stockton equivalent FINA 3110 Introduction to Financial Management)	4
OCC Course from Stockton History Category (Stockton equivalent Historical Consciousness Attribute H)	3
BUSN 170 (Stockton equivalent MGMT 3175 Small Business Management)	3
HIST 191 or SOCI 238 (Stockton equivalent Race, Ethnicity, & Diversity Attribute: R1)	3
OCC Course from Stockton Arts Category (Stockton equivalent Arts Category Attribute: A)	3
BUSN 380 (Stockton equivalent BUSA 3120 Operations Management)	4
OCC Course from Stockton International/Multicultural Category (Stockton equivalent International/Multicultural Category Attribute I)	3

Elective Courses

Course Code & Title	Credits
N/A	N/A

Reviewer
Comments

Key: 115

EXHIBIT B-3

New Program Proposal

Date Submitted: 07/03/24 2:31 pm

Viewing: AS.ACS.SMGT : Advanced and Continuous Studies - Option in Business Administration - Management

Last edit: 07/03/24 2:31 pm

Changes proposed by: Katherine Toy (ktoy)

Program Type	Option
Program Title	Advanced and Continuous Studies - Option in Business Administration - Management
Option Title	Management Option- Aligned with Stockton University
Academic School	Business and Social Sciences
Base Program	Advanced and Continuous Studies
Effective Catalog Year	2024-2025
Program Code	AS.ACS.SMGT
CIP Code	24.0101 - 24.0101

Objectives

Program Description

In Workflow

1. **BS Academic Administrator**
2. **BS Dean**
3. **Curriculum Committee Chair**
4. **Senate Chair**
5. Vice President of Academic Affairs
6. Cabinet
7. President
8. Board of Trustees Chair
9. Academic Administrator for Programs

Approval Path

1. 07/03/24 2:58 pm James Marshall (jmarshall): Approved for BS Academic Administrator
2. 07/03/24 3:04 pm Rosann Bar (rbar): Approved for BS Dean
3. 07/12/24 12:53 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

Students in this Management option of the "3+1" program graduate with an associate degree from OCC in Business Administration (choosing designated courses) and then matriculate into the Advanced and Continuous Studies program - Business Administration - Management Option *(AS.ACS.SMGT),* allowing for financial aid to continue and for the full 90 credits to transfer to the aligned four-year university. The 300-level courses included in this option have been developed by OCC in conjunction with our four-year partner, Stockton University. Upon successful completion, no course shall be repeated.

Program Learning
Outcomes

	Students who successfully complete this program will be able to:
PLO1	Apply written, oral, and visual communication skills and conventions of academic discourse to the challenges of a specific discipline.
PLO2	Interpret and employ a method of inquiry to draw conclusions based on variable evidence.
PLO3	Exhibit competency in the application of technology appropriate to the discipline and academic level.

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	PLO 3
Junior			
First Semester			
ACCT 263 ☑			
MATH 157 ☑			
BUSN 151 ☑			
BUSN 170 ☑			
Second Semester			
HIST 191 ☑			
SOCI 238 ☑			
FirstSemester			
SecondSemester			

Required Qualifications

Plan of Study Grid

Junior

First Semester		Credit Hours
ACCT 263	Cost Accounting	3
MATH 157	Introduction to Data Science	4
BUSN 151	Introduction to Human Resource Management	3
BUSN 170	Small Business Management	3
Choose OCC Course from Stockton Historical Consciousness Category		3
	Credit Hours	16

Second Semester

BUSN 350 Introduction to Financial Management		4
HIST 191	African-American History	3
or SOCI 238	or Race and Ethnicity	
Choose OCC Course from Stockton Arts Category		3
BUSN 380 Advanced Operations Management		4
Choose OCC Course from Stockton International/Multicultural Category		3
	Credit Hours	17
	Total Credit Hours	33

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits
N/A	N/A

GHUM

Course Code & Title	Credits
N/A	N/A

GSOC

Course Code & Title	Credits
N/A	N/A

GSOC/ GHUM

Course Code & Title	Credits
N/A	N/A

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
N/A	N/A

General Education

Course Code & Title	Credits
N/A	N/A

Concentration
Courses

Course Code & Title	Credits
ACCT 263 (Stockton equivalent: ACCT 2120 Managerial Accounting)	3.0
MATH 157 (Stockton equivalent BUSA 2120 Introduction to Business Analytics)	4.0
BUSN 151 (Stockton equivalent MGMT 3111 Human Resource Management)	3.0
BUSN 350 (Stockton equivalent FINA 3110 Introduction to Financial Management)	4.0
OCC Course from Stockton History Category (Stockton equivalent Historical Consciousness Attribute H)	3.0
BUSN 170 (Stockton equivalent MGMT 3175 Small Business Management)	3.0
HIST 191 or SOCI 238 (Stockton equivalent Race, Ethnicity, & Diversity Attribute: R1)	3.0
OCC Course from Stockton Arts Category (Stockton equivalent Arts Category Attribute: A)	3.0
BUSN 380 (Stockton equivalent BUSA 3120 Operations Management)	4.0
OCC Course from International/Multicultural Category (Stockton equivalent International/Multicultural Category Attribute I)	3.0

Elective Courses

Course Code & Title	Credits
N/A	N/A

Reviewer
Comments

Key: 113

EXHIBIT B-4

New Program Proposal

Date Submitted: 07/03/24 2:33 pm

Viewing: **AS.ACS.SMRK : Advanced and Continuous Studies - Option in Business Administration - Marketing**

Last edit: 07/03/24 2:32 pm

Changes proposed by: Katherine Toy (ktoy)

Program Type	Option
Program Title	Advanced and Continuous Studies - Option in Business Administration - Marketing
Option Title	Marketing Option- Aligned with Stockton University
Academic School	Business and Social Sciences
Base Program	Advanced and Continuous Studies
Effective Catalog Year	2024-2025
Program Code	AS.ACS.SMRK
CIP Code	24.0101 - 24.0101

Objectives

Program Description

In Workflow

1. **BS Academic Administrator**
2. **BS Dean**
3. **Curriculum Committee Chair**
4. **Senate Chair**
5. Vice President of Academic Affairs
6. Cabinet
7. President
8. Board of Trustees Chair
9. Academic Administrator for Programs

Approval Path

1. 07/05/24 8:20 am James Marshall (jmarshall): Approved for BS Academic Administrator
2. 07/05/24 8:30 am Rosann Bar (rbar): Approved for BS Dean
3. 07/12/24 12:53 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

Students in this Marketing option of the "3+1" program graduate with an associate degree from OCC in Business Administration (choosing designated courses) and then matriculate into the Advanced and Continuous Studies program - Business Administration - Marketing Option (AS.ACS.SMRK), allowing for financial aid to continue and for the full 90 credits to transfer to the aligned four-year university. The 300-level courses included in this option have been developed by OCC in conjunction with our four-year partner, Stockton University. Upon successful completion, no course shall be repeated.

Program Learning
Outcomes

	Students who successfully complete this program will be able to:
PLO1	Apply written, oral, and visual communication skills and conventions of academic discourse to the challenges of a specific discipline.
PLO2	Interpret and employ a method of inquiry to draw conclusions based on variable evidence.
PLO3	Exhibit competency in the application of technology appropriate to the discipline and academic level.

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	PLO 3
Junior			
First Semester			
ACCT 263 �			
MATH 157 ✏			
BUSN 270 ✏			
BUSN 170 ✏			
BUSN 151 ✏			
Second Semester			
HIST 191 ✏			
SOCI 238 ✏			
FirstSemester			
SecondSemester			

Required Qualifications

Plan of Study Grid

Junior

First Semester		Credit Hours
ACCT 263	Cost Accounting	3
MATH 157	Introduction to Data Science	4
BUSN 270	Principles of Advertising	3
BUSN 170	Small Business Management	3
or BUSN 151	or Introduction to Human Resource Management	
Choose from OCC course in Stockton History Category		3
	Credit Hours	16

Second Semester		
BUSN 350 Introduction to Financial Management		4
HIST 191	African-American History	3
or SOCI 238	or Race and Ethnicity	
Choose from OCC course in Stockton Arts Category		3
BUSN 380 Advanced Operations Management		4
Choose from OCC course in Stockton International/Multicultural Category		3
	Credit Hours	17
	Total Credit Hours	33

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits
N/A	N/A

GHUM

Course Code & Title	Credits
N/A	N/A

GSOC

Course Code & Title	Credits
N/A	N/A

GSOC/ GHUM

Course Code & Title	Credits
N/A	N/A

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
N/A	N/A

General Education

Course Code & Title	Credits
N/A	N/A

Concentration Courses

Course Code & Title	Credits
ACCT 263 (Stockton equivalent ACCT 2120 Managerial Accounting)	3.0
MATH 157 (Stockton equivalent BUSA 2120)	4.0
BUSN 270 (Stockton equivalent MKTG 3202 Advertising)	3.0
BUSN 350 (Stockton equivalent FINA 3110 Introduction to Financial Management)	4.0
OCC Course from Stockton History Category (Stockton Equivalent Historical Consciousness Attribute H)	3.0
BUSN 170 or BUSN 151 (Stockton equivalent MGMT 3175 Small Business Management or MGMT 3111 Human Resource Management)	3.0
HIST 191 or SOCI 238 (Stockton equivalent Race, Ethnicity, & Diversity Attribute: R1)	3.0
OCC Course in Stockton Arts Category (Stockton equivalent Arts Category Attribute A)	3.0
BUSN 380 (Stockton equivalent BUSA 3120 Operations Management)	4.0
OCC Course from Stockton International/Multicultural Category (Stockton equivalent International/Multicultural Category Attribute I)	3.0

Elective Courses

Course Code & Title	Credits
N/A	N/A

Reviewer
Comments

EXHIBIT B-5

Date Submitted: 07/09/24 12:29 pm

Viewing: **AAS.CS : Computer Science/Information Technology, Associate in Applied Science**

Last approved: 06/27/24 9:19 am

Last edit: 07/09/24 12:29 pm

Changes proposed by: Cynthia Fallon (cfallon)

Catalog Pages Using
this Program
Computer Science/Information Technology, Associate in Applied Science

Program Type	Associate of Applied Science (AAS)
Program Title	Computer Science/Information Technology, Associate in Applied Science
Academic School	Science, Technology, Engineering, Mathematics
Effective Catalog Year	2025-2026
Program Code	AAS.CS
CIP Code	110101 - Computer and Information Sciences, General.

Program Description

In Workflow

1. **STEM Academic Administrator**
2. **STEM Dean**
3. **Executive Director of Curriculum and Program Development**
4. **Curriculum Committee Chair**
5. **Senate Chair**
6. **Vice President of Academic Affairs**
7. Cabinet
8. President
9. Board of Trustees Chair
10. Academic Administrator for Programs

Approval Path

1. 07/02/24 11:42 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
2. 07/02/24 12:58 pm Sylvia Riviello (sriviello): Approved for STEM Dean
3. 07/09/24 11:36 am James Marshall (jmarshall): Rollback to Initiator
4. 07/09/24 12:29 pm Cynthia Fallon (cfallon): Approved

EXHIBIT B - 5

for STEM Academic
Administrator

5. 07/09/24 1:49 pm
Sylvia Riviello
(sriviello): Approved
for STEM Dean

6. 07/09/24 3:08 pm
James Marshall
(jmarshall):
Approved for
Executive Director
of Curriculum and
Program
Development

7. 07/12/24 12:53 pm
Caroline Brittain
(cbrittain):
Approved for
Curriculum
Committee Chair

8. 07/18/24 4:57 pm
Donna Rosinski-
Kauz (drosinski-
kauz): Approved for
Senate Chair

History

1. May 9, 2021 by
soconnor
2. Apr 10, 2023 by
soconnor
3. Jun 27, 2024 by
Cynthia Fallon
(cfallon)

The Associate ~~This career program prepares students for entry-level positions~~ in Applied Science (AAS) in Information Technology prepares students for entry-level positions in various ~~a multitude of~~ computer-related roles within the IT field. ~~jobs.~~ The program features a comprehensive curriculum that covers essential areas such as hardware, software, operating systems, information security, networking, computing fundamentals, and cloud computing. ~~Both computer scientists and information technologists need a balance of software and hardware applications with specific courses emphasizing effective problemsolving.The software development process, (composing and coordinating component of a program) requires that students construct algorithms for problem solving with appropriatedocumentation.~~It is also ~~This curriculum has been~~ designed to equip students with ~~prepare~~ the skills needed for ~~student to meet~~ the ~~future needs of~~ integration, design, deployment, and management of computing ~~computing,~~ resources and services. This program prepares students for industry-recognized certifications, enhancing their qualifications and career prospects.

~~A graduate of the program will have a firm understanding of modern programming practices and related skills in computer informationtechnology.~~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 Objectives

N/A

Program Goals

	Program goals
PG1	N/A

Program Learning Outcomes

	Students who successfully complete this program will be able to:
~~PLO1~~	~~Describe the main functions of an operatingsystem.~~
~~PLO2~~	~~Identify the basic concepts of the computer system and computerarchitecture.~~
~~PLO3~~	~~Identify the major computer data, instruction and addressing formats.~~
~~PLO4~~	~~Recognize the problems involved in program portability and be able to identify the solutions to these problems.~~

	Students who successfully complete this program will be able to:
~~PLO5~~	~~Describe the software lifecycle.~~
~~PLO6~~	~~Identify the requirements and rationale for allocating static, dynamic and virtualmemory.~~
~~PLO7~~	~~Discuss the rationale and implement both member and friend examples of operatoroverloading.~~
~~PLO8~~	~~Explain the benefits of derived classes (including private, protected and public data members and methods) and implement examples of derivedclasses.~~
~~PLO9~~	~~Analyze (big O) sequential, binary and hashingalgorithms.~~
~~PLO10~~	~~Analyze (big O) common selection, exchange and insertion sortingalgorithms.~~
~~PLO11~~	~~Discuss the benefits, resource requirements and implementation of logical sorting algorithms.~~
~~PLO12~~	~~Explain the concepts, data structure and benefits involved in logically representing common data structures algorithms, such as ordered lists, stacks, queues and trees.~~
~~PLO13~~	~~Demonstrate independent thinker through mathematical, scientific and philosophical reasoning.~~
~~PLO14~~	~~Communicate effectively through reading, listening, speaking, and writing.~~
~~PLO15~~	~~Solve problems by collecting, organizing and evaluating information.~~
PLO1	Identify the basic concepts of modern computer architecture including hardware, the main functions of an operating system and ancillary software and how the major computer data, instruction and addressing formats influence computer performance.
PLO2	Understand the fundamental techniques used in the development of software such as classes, objects, algorithms, data types, control structures, arrays, attributes, and methods and explain the software development life cycle (SDLC).
PLO3	Demonstrate foundational computer science and cybersecurity knowledge such as access control, security mechanism, cryptography, vulnerability, and risk management.
PLO4	PLO4: Describe fundamental networking concepts with emphasis on networking applications, data delivery and routing, network architecture, layering, and protocols
PLO5	Explain the principles of cloud computing including the topics of cloud infrastructures, virtualization, software defined networks and storage, cloud

	Students who successfully complete this program will be able to:
	storage, and programming models.
PLO6	Demonstrate knowledge and skills in the areas of Computer Science to solve technical and computational problems.

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	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21
FirstSemester																					
ENGL 151 ☑																					
MATH 156 ☑																					
CSIT 124 ☑																					
CSIT 144 ☑																					
SecondSemester																					
ENGL 152 ☑																					
CSIT 185 ☑																					
CSIT 145 ☑																					
CSIT 200 ☑																					
ThirdSemester																					
CSIT 243 ☑																					
CSIT 277																					

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21
✎ COMM 154 ✎																					
ACCT 161 ✎																					
BUSN 131 ✎																					
BUSN 134 ✎																					

FirstSemester

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21
ENGL 151 ✎																					
MATH 156 ✎																					
CSIT 124 ✎																					
CSIT 144 ✎																					

SecondSemester

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21
ENGL 152 ✎																					
CSIT 185 ✎																					
CSIT 145 ✎																					
CSIT 200 ✎																					

ThirdSemester

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21
CSIT 243 ☑																					
CSIT 277 ☑																					
COMM 154 ☑																					
ACCT 161 ☑																					
BUSN 131 ☑																					
BUSN 134 ☑																					
ACCT 161 ☑																					
BUSN 131 ☑																					
BUSN 134 ☑																					
FirstSemester																					
ENGL 151 ☑																					
MATH 156 ☑																					
CSIT 124 ☑																					
CSIT 144 ☑																					

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14	PLO 15	PLO 16	PLO 17	PLO 18	PLO 19	PLO 20	PLO 21
SecondSemester																					
ENGL 152 ✏																					
CSIT 185 ✏																					
CSIT 145 ✏																					
CSIT 200 ✏																					
ThirdSemester																					
CSIT 243 ✏																					
CSIT 277 ✏																					
COMM 154 ✏																					

Required Qualifications

Plan of Study Grid

First Semester		Credit Hours
ENGL 151	English I	3
MATH 156	Introduction to Statistics	3
Humanities Gen. Ed. or Social Science Gen. Ed		3
~~MATH 151~~	~~A Survey of Mathematics~~	-
~~MATH 171~~	~~Finite Mathematics~~	-
~~or Higher~~		-
~~CSIT 165~~	~~Programming I~~	4
~~Humanities Gen. Ed. Requirement~~		3
~~Social Science Gen. Ed. Requirement~~		3
CSIT 124	Introduction to Programming	3
CSIT 144	Introduction to Operating System Using Unix	3
	Credit Hours	15

Second Semester

ENGL 152	English II	3
~~CSIT 166~~	~~Programming II~~	~~4~~
~~CSIT 176~~	~~Computer Organization & Architecture~~	~~3~~
~~Computer Science/Information Technology Program Electives~~		~~6~~
CSIT 185	Networking I	3
CSIT 145	Computing Fundamentals	3
CSIT 200	Information Security Fundamentals	3
CSIT Elective		3
	Credit Hours	15

Third Semester

~~Computer Science/Information Technology Program Electives~~		~~6~~
~~Lab Science Gen. Ed. Requirement~~		~~4~~
CSIT 243	Cisco Networking Fundamentals	3
CSIT 277	Introduction to Cloud Computing	4
Any Gen. Ed. Requirement		3
COMM 154	Fundamentals of Public Speaking	3
CSIT Elective		3
	Credit Hours	16

Fourth Semester

~~CSIT 213~~	~~Database Management~~	~~3~~
~~Computer Science/Information Technology Program Electives~~		~~6~~
~~Business Studies Elective~~		~~3~~
Any CSIT, Business, Math, or Science Electives		14
	Credit Hours	14
	Total Credit Hours	60

Computer Science/Information Technology Electives

Students can choose any CSIT course (CSIT 115 or higher). Students are not required to select a specific area of interest/concentration.

Suggested Business Studies Electives

ACCT 161	Principles of Accounting I	3
BUSN 131	Introduction to Business Administration	3
BUSN 134	Principles of Marketing	3

Cloud Computing Concentration

~~Plan of Study Grid~~	
~~First Semester~~	~~Credit Hours~~

ENGL 151   English I   3
Select one of the following   3
   MATH 151 A Survey of Mathematics   -
   MATH 171 Finite Mathematics (or higher)   -
CSIT 165   Programming I   4
Humanities Gen. Ed. Requirement   3
Social Science Gen. Ed. Requirement   3
-             Credit Hours   0
Second Semester
ENGL 152   English II   3
CSIT 166   Programming II   4
CSIT 176   Computer Organization & Architecture   3
Computer Science/Cloud Computing Program Electives 6
-             Credit Hours   0
Third Semester
Computer Science/Cloud Computing Program Electives 6
COMM 154   Fundamentals of Public Speaking   3
Humanities or Social Science Gen. Ed. Requirement   3
Lab Science Gen. Ed. Requirement   4
-             Credit Hours   0
Fourth Semester
CSIT 213   Database Management   3
Computer Science/Cloud Computing Program Electives 6
Business Studies Elective   3
-             Credit Hours   0
-             Total Credit Hours   0

Computer Science/Cloud Computing Elective

CSIT 144	Introduction to Operating System Using Unix	3
CSIT 168	Introduction to Python Programming	2
CSIT 185	Networking I	3
CSIT 186	Networking II	3
CSIT 265	Data Structures and Analysis	4
CSIT 277	Introduction to Cloud Computing	4

Business Studies Electives

| ACCT 161 | Principles of Accounting I | 3 |
| BUSN 131 | Introduction to Business Administration | 3 |

BUSN 134   Principles of Marketing   3

Data Management Concentration

Plan of Study Grid		
First Semester		**Credit Hours**
ENGL 151	English I	3
MATH 171 or Higher		3
CSIT 165	Programming I	4
Humanities Gen. Ed. Requirement		3
Social Science Gen. Ed. Requirement		3
-	Credit Hours	0
Second Semester		
ENGL 152	English II	3
CSIT 166	Programming II	4
CSIT 176	Computer Organization & Architecture	3
Computer Science/Data Management Program Electives		6
-	Credit Hours	0
Third Semester		
CSIT 213	Database Management	3
Computer Science/Data Management Program Electives		3
COMM 154	Fundamentals of Public Speaking	3
Humanities or Social Science Gen. Ed. Requirement		3
Lab Science Gen. Ed. Requirement		4
-	Credit Hours	0
Fourth Semester		
Computer Science/Data Management Program Electives		9
Business Studies Elective		3
-	Credit Hours	0
-	Total Credit Hours	0

Computer Science/Data Management Electives

CSIT 144	Introduction to Operating System Using Unix	3
CSIT 168	Introduction to Python Programming	2
CSIT 185	Networking I	3
CSIT 200	Information Security Fundamentals	3
CSIT 265	Data Structures and Analysis	4
CSIT 275	Data Management Analytics	3

Business Studies Electives

ACCT 161	Principles of Accounting I	3
BUSN 131	Introduction to Business Administration	3
BUSN 134	Principles of Marketing	3

Networking Concentration

Plan of Study Grid

First Semester	Credit Hours
ENGL 151 English I	3
MATH 171 or Higher	3
CSIT 165 Programming I	4
Humanities Gen. Ed. Requirement	3
Social Science Gen. Ed. Requirement	3
- Credit Hours	0
Second Semester	
ENGL 152 English II	3
CSIT 166 Programming II	4
CSIT 176 Computer Organization & Architecture	3
Computer Science/Networking Program Electives	6
- Credit Hours	0
Third Semester	
Computer Science/Networking Program Electives	6
COMM 154 Fundamentals of Public Speaking	3
Humanities or Social Science Gen. Ed. Requirement	3
Lab Science Gen. Ed. Requirement	4
- Credit Hours	0
Fourth Semester	
CSIT 213 Database Management	3
Computer Science/Networking Program Electives	6
Business Studies Elective	3
- Credit Hours	0
- Total Credit Hours	0

Computer Science/Networking Electives

CSIT 144	Introduction to Operating System Using Unix	3
CSIT 168	Introduction to Python Programming	2
CSIT 185	Networking I	3

CSIT 186	Networking II	3
CSIT 200	Information Security Fundamentals	3
CSIT 115 or Higher		4

Business Studies Electives

ACCT 161	Principles of Accounting I	3
BUSN 131	Introduction to Business Administration	3
BUSN 134	Principles of Marketing	3

Programming Concentration

Plan of Study Grid

First Semester		Credit Hours
ENGL 151	English I	3
MATH 171 or Higher		3
CSIT 165	Programming I	4
Humanities Gen. Ed. Requirement		3
Social Science Gen. Ed. Requirement		3
-	Credit Hours	0
Second Semester		
ENGL 152	English II	3
CSIT 166	Programming II	4
CSIT 176	Computer Organization & Architecture	3
Computer Science/Programming Program Electives		6
-	Credit Hours	0
Third Semester		
Computer Science/Programming Program Electives		6
COMM 154	Fundamentals of Public Speaking	3
Humanities or Social Science Gen. Ed. Requirement		3
Lab Science Gen. Ed. Requirement		4
-	Credit Hours	0
Fourth Semester		
CSIT 213	Database Management	3
Computer Science/Programming Program Electives		6
Business Studies Elective		3
-	Credit Hours	0
-	Total Credit Hours	0

Computer Science/Programming Electives

CSIT 168	Introduction to Python Programming	2
CSIT 185	Networking I	3
CSIT 186	Networking II	3
CSIT 200	Information Security Fundamentals	3
CSIT 212	Systems Analysis	3
CSIT 265	Data Structures and Analysis	4

Business Studies Electives

ACCT 161	Principles of Accounting I	3
BUSN 131	Introduction to Business Administration	3
BUSN 134	Principles of Marketing	3

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits
ENGL 151	3
ENGL 152	3

GSOC/ GHUM

Course Code & Title	Credits
GSOC/GHUM Gen Ed SOCIAL SCIENCE OR HUMN GEN ED REQ	3

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
LAB SCIENCE GEN ED REQ	4
MATH 156	3

General Education

Course Code & Title	Credits
CSIT 124 SOCIAL SCIENCE GEN ED REQ	3
Any Gen Ed HUMN GEN ED REQ	3
COMM 154	3
COMM 154	3

Concentration
Courses

Course Code & Title	Credits
~~CSIT 166~~	4
~~CSIT 176~~	3
COMP/IT PROGRAM ELECTIVE	<u>9</u> 6
~~COMP/IT PROGRAM ELECTIVE~~	6
~~CSIT 213~~	3
~~COMP/IT PROGRAM ELECTIVE~~	6
<u>BUSN/MATH/SCIENCE/CSIT</u> ~~BUSN~~ ELECTIVE	<u>14</u> 3
~~CSIT 165~~	4
~~MATH 151, 171, OR HIGHER~~	3

Board Approval

History of Board
approval dates

Board of Trustees Approval Date: November 7, 2005
NJ Presidents Council Approval: April 17, 2006
Board of Trustees Approval Date: December 1, 2008
Board of Trustees Approval Date: December 6, 2010
Board of Trustees Approval Date: January 28, 2013
Board of Trustees Approval Date: May 28, 2013
Board of Trustees Approval Date: March 28, 2019
Board of Trustees Approval Date: May 30, 2024

Reviewer
Comments

James Marshall (jmarshall) (07/09/24 11:36 am): Rollback: Replace 2nd CSIT elective in third
semester with Comm 154 to meet gen ed requirements.

Key: 44

EXHIBIT B-6

Date Submitted: 06/03/24 2:35 pm

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

Last approved: 04/16/24 2:19 pm

Last edit: 06/25/24 8:28 am

Changes proposed by: Cynthia Fallon (cfallon)

Catalog Pages Using
this Program
Cybersecurity, An Option to the Associate in Applied Science in Computer Science/In
Technology

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 Year	2024-2025
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. **Executive Director of Curriculum and Program Development**
4. **Curriculum Committee Chair**
5. **Senate Chair**
6. Vice President of Academic Affairs
7. Cabinet
8. President
9. Board of Trustees Chair
10. Academic Administrator for Programs

Approval Path
1. 06/19/24 9:42 am
   Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
2. 06/20/24 9:04 am
   Sylvia Riviello (sriviello): Approved for STEM Dean
3. 06/25/24 8:28 am
   James Marshall (jmarshall): Approved for Executive Director of Curriculum and

Program
Development

4. 06/27/24 2:17 pm
Caroline Brittain
(cbrittain):
Approved for
Curriculum
Committee Chair

History

1. Dec 8, 2022 by
   soconnor
2. Apr 3, 2023 by
   soconnor
3. Apr 10, 2023 by
   soconnor
4. Jan 8, 2024 by
   soconnor
5. Apr 16, 2024 by
   James Marshall
   (jmarshall)

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.

Program Learning
Outcomes

	Students who successfully complete this program will be able to:
PLO1	Explain the current topics and techniques of cybersecurity.
PLO2	Apply the concepts, principles, and technologies of information security.
PLO3	Demonstrate foundational computer science and cybersecurity knowledge.
PLO4	Demonstrate an understanding of cryptography, authentication, and intrusion detection technologies.
PLO5	x

	Students who successfully complete this program will be able to:
~~PLO6~~	x
~~PLO7~~	x
~~PLO8~~	x
~~PLO9~~	x
~~PLO10~~	x
~~PLO11~~	x
~~PLO12~~	x
~~PLO13~~	x
~~PLO14~~	x

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	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14
FirstSemester														
ENGL 151 📝														
MATH 156 📝														
CSIT 165 📝														
CSIT 144 📝														
SecondSemester														
ENGL 152 📝														
CSIT 166 📝														
CSIT 185														

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8	PLO 9	PLO 10	PLO 11	PLO 12	PLO 13	PLO 14
✎														
CSIT 145 ✎														
CSIT 242 ✎														
ThirdSemester														
CSIT 200 ✎														
FourthSemester														
CSIT 168 ✎														
CSIT 240 ✎														
CSIT 243 ✎														
CSIT 244 ✎														

Required Qualifications

Plan of Study Grid

First Semester	Credit Hours
ENGL 151 English I	3
MATH 156Introduction to Statistics	3
CSIT 165 Programming I	4
CSIT 144 Introduction to Operating System Using Unix	3
Humanities or Social Science Gen. Ed. Requirement	3
Credit Hours	16

Second Semester	
ENGL 152 English II	3
CSIT 166 Programming II	4
CSIT 185 Networking I	3
~~CSIT 145 - Computing Fundamentals~~	~~3~~
~~CSIT 242 - Penetration Testing Fundamentals~~	~~3~~

CSIT 145	Computing Fundamentals	3
CSIT 242	Penetration Testing Fundamentals	3
	Credit Hours	16

Third Semester

~~CSIT 186~~	~~Networking II~~	~~3~~
CSIT 200	Information Security Fundamentals	3
Any Gen. Ed. Requirement		8
CSIT Elective (CSIT 115 or Higher)		3
	Credit Hours	14

Fourth Semester

CSIT 168	Introduction to Python Programming	2
CSIT 240	Ethical Hacking: Hacker Techniques and Tools	3
~~CSIT 243 - Cisco Networking Fundamentals (CCNA)~~		~~3~~
~~CSIT 244 - Digital Forensics Fundamentals~~		~~3~~
CSIT 243	Cisco Networking Fundamentals	3
CSIT 244	Digital Forensics Fundamentals	3
Elective(s) to make 60 credits		3
	Credit Hours	14
	Total Credit Hours	60

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
X	X

GSOC

Course Code & Title	Credits
X	X

GSOC/ GHUM

Course Code & Title	Credits
SOCIAL SCIENCE OR HUMN GEN ED REQ	3

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
MATH GEN ED REQ	3

General Education

Course Code & Title	Credits
ANY GEN ED REQ	8

Concentration Courses

Course Code & Title	Credits
CSIT 166	4
CSIT 176	3
COMP PROGRAM ELECTIVE	5
CSIT 213	3
CSIT 165	4
CSIT 144	3
CSIT 185	3
CSIT 240	3
CSIT 241	3
CSIT 186	3
CSIT 200	3

Elective Courses

Course Code & Title	Credits
ELECTIVE	3

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.

Board of Trustees Approval Date: March 17, 2023

EXHIBIT B-7

Date Submitted: 07/02/24 11:40 am

Viewing: **CC.INFO : Information Technology, Certificate of Completion**

Last edit: 07/05/24 8:47 am

Changes proposed by: Cynthia Fallon (cfallon)

Catalog Pages Using
this Program
  Information Technology, Certificate of Completion

Program Type	Certificate of Completion
Program Title	Information Technology, Certificate of Completion
Academic School	Science, Technology, Engineering, Mathematics
Effective Catalog Year	2025-2026
Program Code	CC.INFO
CIP Code	11.0103 - 11.0103

Program Description

Approval Path

1. 07/02/24 11:42 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
2. 07/02/24 12:59 pm Sylvia Riviello (sriviello): Approved for STEM Dean
3. 07/05/24 8:48 am James Marshall (jmarshall): Approved for Executive Director of Curriculum and

EXHIBIT B - 7

Program
Development
4. 07/12/24 12:53 pm
Caroline Brittain
(cbrittain):
Approved for
Curriculum
Committee Chair

The Certificate of Completion in Information Technology equips students with essential skills for a successful career in IT. The program offers a comprehensive curriculum, covering key areas such as hardware, software, operating systems, information security, networking (CCNA), computing fundamentals, and cloud computing. Students will gain a solid understanding of computing architecture, hardware components, operating system functions, networking principles, cybersecurity practices, and cloud infrastructures. Additionally, the certificate prepares students for industry-recognized certifications, enhancing their qualifications and career prospects. ~~This Computer Science/Information Technology certificate program provides a basic core of hardware and software courses with 6 additional CSIT electives to enable students with a specific retraining need to meet that goal within a limited timeperiod. A certificate will be awarded to students completing the courses with a cumulative average of 2.0 orhigher.~~

Program Learning
Outcomes

	Students who successfully complete this program will be able to:
PLO1	Identify the basic concepts of modern computer architecture including hardware, the main functions of an operating system and ancillary software and how the major computer data, instruction and addressing formats influence computer performance.
PLO2	Describe fundamental networking concepts with emphasis on networking applications, data delivery and routing, network architecture, layering, and protocols
PLO3	Demonstrate foundational computer science and cybersecurity knowledge such as access control, security mechanism, cryptography, vulnerability, and risk management
PLO4	Explain the principles of cloud computing, including the topics of cloud infrastructures, virtualization, software-defined networks and storage, cloud storage, and programming models.
PLO5	Demonstrate knowledge and skills in the areas of Computer Science to solve technical and computational problems.

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5
CSIT 144 ✏					
CSIT 200 ✏					
CSIT 185 ✏					
CSIT 145 ✏					
CSIT 243 ✏					
CSIT 277 ✏					

Required Qualifications

~~CSIT 165~~	~~Programming I~~	~~4~~
~~CSIT 166~~	~~Programming II~~	~~4~~
~~CSIT 213~~	~~Database Management~~	~~3~~
~~CSIT 115 or Higher~~		~~3~~
CSIT 144	Introduction to Operating System Using Unix	3
CSIT 200	Information Security Fundamentals	3
CSIT 185	Networking I	3
CSIT 145	Computing Fundamentals	3
CSIT 243	Cisco Networking Fundamentals	3
CSIT 277	Introduction to Cloud Computing	4
Total Credit Hours		19

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits
None	0

GHUM

Course Code & Title	Credits
None	0

EXHIBIT B - 7

GSOC

Course Code & Title	Credits
None	0

GSOC/ GHUM

Course Code & Title	Credits
None	0

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
None	0

General Education

Course Code & Title	Credits
None	0

Concentration Courses

Course Code & Title	Credits
None	0

Elective Courses

Course Code & Title	Credits
None	0

Board Approval

History of Board
approval dates

≐

Reviewer
Comments

Key: 46

EXHIBIT B-8

New Course Proposal

Date Submitted: 07/03/24 2:18 pm

Viewing: ACCT 340 : Intermediate Accounting II: Computer Applications

Last edit: 07/03/24 3:00 pm

Changes proposed by: Katherine Toy (ktoy)

Programs
referencing this
course
AS.ACS.SACT: Advanced and Continuous Studies - Option in Business - Accounting

Learning Outcomes
Display (show only)

In Workflow

1. **BS Academic Administrator**
2. **BS Dean**
3. **Executive Director of Curriculum and Program Development**
4. **Curriculum Committee Chair**
5. **Senate Chair**
6. Vice President of Academic Affairs
7. Cabinet
8. President
9. Board of Trustees Chair
10. BS Academic Administrator
11. Colleague

Approval Path

1. 07/03/24 2:58 pm James Marshall (jmarshall): Approved for BS Academic Administrator
2. 07/03/24 3:01 pm Rosann Bar (rbar): Approved for BS Dean
3. 07/05/24 8:24 am James Marshall (jmarshall): Approved for Executive Director

of Curriculum and
Program
Development
4. 07/12/24 12:53 pm
Caroline Brittain
(cbrittain):
Approved for
Curriculum
Committee Chair

1. Course Information

Subject	ACCT - Accounting
School	Business and Social Sciences
Course Title	Intermediate Accounting II: Computer Applications

2. Hours

Semester Hours	4	
	Lecture	4
	Lab	0
	Practicum	0

3. Catalog Description

For display in the
online catalog

This course provides an in-depth and comprehensive study of the principles, concepts, and standards of accounting for corporations, and related topics such as pensions, leases, tax allocation, special recognition situations, valuation issues, impairment, presentation, full disclosure, and financial analysis. Integrates use of computer applications, quantitative reasoning, and spreadsheet analysis.

4. Requisites

Prerequisites
ACCT 261

Corequisites

5. Course Type

Course Type for
Perkins Reporting

vocational (approved for Perkins funding)

6. Justification

Describe the need
for this course

This course is a third year business course for the 3+1 A.S. program in Advanced and
Continuous Studies agreement with Stockton University.

Stockton University Justification:

This course focuses on Stockton University's Essential Learning Outcome - Critical Thinking and
Accounting Program Learning Goal - Critical Thinking and Problem-Solving.

This course focuses on Stockton University's Essential Learning Outcome - Communication
Skills.

This course focuses on Stockton University's Essential Learning Outcome and Accounting
Learning Outcome - Ethical Reasoning.

This course emphasizes the Accounting Program Learning Goal – Technology Agility.

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	This course is consistent with Ocean County College's (OCC) mission of "Ocean County College, an innovative academic leader, provides affordable, student-centered, high-quality educational experiences that empower diverse learners to succeed." This is achieved through OCC offering a 3+1 program that will provide a diverse group of students with an opportunity to receive a more affordable Bachelor's degree.
2	This course corresponds to the College's Strategic Goal 2: Optimize and expand enrollment of all learners. This is achieved through OCC adding an additional year of instruction and enrollment for any students that utilizes the 3+1 model.
3	This course corresponds to the College's Strategic Goal 4: Expand relationships with external stakeholders. This is achieved through the College's partnerships with four-year institutions to create new 3+1 programs and, in many cases, partnerships with industry for apprenticeships as they relate to the new 3+1 programs.

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution   None

Course Title   N/A

Course Number   N/A

Number of Credits   N/A

Comments
  This course is a 300-level course that is not designed to equate to any community college offerings.

Transferability of Course

Georgian Court
University

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

Kean University

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

Monmouth
University

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

Rowan University

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

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
ACCT 3120 INTERMEDIATE ACCOUNTING II: COMPUTER APPLICATIONS 4 credit hours	Major requirement	

If not transferable
to any institution,
explain:

This course has been created to align directly with Stockton University's course "ACCT 3120: INTERMEDIATE ACCOUNTING II: COMPUTER APPLICATIONS." Students in this course would be

in a pipeline to transfer directly to Stockton upon completion at OCC.

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Study the principles, concepts, and standards of accounting for economic resources, events, and transactions within an applicable accounting framework.
CLO2	Cover the business accounting cycle culminating in the preparation of financial statements.
CLO3	Integrate the use of computer applications, quantitative reasoning, and spreadsheet analysis.
CLO4	Logically interpret the financial information provided or gleaned and, using analytical skills, interpret and summarize the results in accordance with GAAP.
CLO5	Interpret, analyze, and summarize the results of information examined; apply appropriate analytic, problem-solving, and decision making skills in business situations.
CLO6	Analyze real-world business situations and make informed decisions by recognizing and defining a problem in a business setting.
CLO7	Research relevant data and challenge or agree with existing assumptions through rigorous examination of evidence in order to effectively develop, analyze and evaluate alternative solutions.
CLO8	Select and recommend a solution based on analysis of the known facts and conceptual understanding of relevant disciplines, assessing the performance outcomes of recommended solutions.
CLO9	Communicate effectively in a professional environment, demonstrate ethical reasoning when faced with moral dilemmas in business situations, and demonstrate the ability to navigate change and adapt to new technologies.

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	Current Liabilities	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam One (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO2	Long-Term Liabilities	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam One (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO3	Pension Plans	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam One (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO4	Leases	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam Two (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO5	Stockholders' Equity	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam Two (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO6	Dilutive Securities	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam Two (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based	CLO1-CLO9

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
			Simulations , CPA Practice Questions	
TO7	Investments	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam Three (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO8	Revenue Recognition	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam Three (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO9	Accounting for Income Tax	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam Three (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO10	Changes and Error Analysis	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam Four (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9
TO11	Statement of Cash Flows	WileyPlus resources, textbook related homework assignments and problems, lecture, LMS materials	Exam Four (WileyPlus), Quizzes, Pre-lecture Assignments, WileyPlus Homework, Task-Based Simulations , CPA Practice Questions	CLO1-CLO9

12. Methods of Instruction

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

The structure of this course involves using a learning management system and WileyPlus
homework management software, in conjunction with regular classes.

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

_____

Information Literacy

_____

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.):

Required Course Material

Intermediate Accounting, 18th Edition, with WileyPlus access code. Kieso, D. E., Weygandt J. J.,
& Warfield, T. D.

J. Wiley & Sons; (c) April 2022; Recommended: Loose-Leaf Version: ISBN: 978-1-119-79097-6

Technology Needs:

WileyPlus is required for the course. If not bundled with the textbook, it will be required to
purchase WileyPlus instant access with only an online version of the book.

Technology is an essential delivery method of course instruction and part of our learning
environment. The use of Office 365 including Excel is required and each student is strongly
advised to troubleshoot their computer to make sure it's fully compatible with WileyPlus.

Human Resource
Needs (Presently
Employed vs. New
Faculty):

Faculty for this course must be approved to teach 300-level accounting courses.

Facility Needs:

Existing facilities will be utilized, including use of a computer lab

Library needs:

Stockton's Richard E. Bjork Library is important for student success in this course. In addition to
books, reference materials, periodicals, newspapers, microfilms, media, computer software,
archival materials, and government documents, the library provides a Learning Commons,
group study spaces, computers, printers, scanners, and research support.

Access to many library resources is available at the library website.
https://library.stockton.edu/welcome

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

Key: 2298

EXHIBIT B-9

New Course Proposal

Date Submitted: 07/03/24 2:21 pm

Viewing: **ACCT 350 : Cost Accounting with Computer Applications**

Last edit: 07/05/24 8:25 am

Changes proposed by: Katherine Toy (ktoy)

Programs
referencing this
course

AS.ACS.SACT: Advanced and Continuous Studies - Option in Business - Accounting

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Learning Outcomes
Display (show only)

In Workflow

1. **BS Academic Administrator**
2. **BS Dean**
3. **Executive Director of Curriculum and Program Development**
4. **Curriculum Committee Chair**
5. **Senate Chair**
6. Vice President of Academic Affairs
7. Cabinet
8. President
9. Board of Trustees Chair
10. BS Academic Administrator
11. Colleague

Approval Path

1. 07/03/24 2:58 pm
   James Marshall
   (jmarshall):
   Approved for BS
   Academic
   Administrator
2. 07/03/24 3:03 pm
   Rosann Bar (rbar):
   Approved for BS
   Dean
3. 07/05/24 8:26 am
   James Marshall
   (jmarshall):
   Approved for
   Executive Director

EXHIBIT B - 9

of Curriculum and
Program
Development
4. 07/12/24 12:53 pm
Caroline Brittain
(cbrittain):
Approved for
Curriculum
Committee Chair

1. Course Information

Subject	ACCT - Accounting
School	Business and Social Sciences
Course Title	Cost Accounting with Computer Applications

2. Hours

Semester Hours	4	
Lecture		4
Lab		0
Practicum		0

3. Catalog Description

For display in the
online catalog

This course involves an intensive study of problems and procedures for establishing cost
systems in a firm. It examines concepts of responsibility accounting, job and process costing,
standard costing, budgeting, activity based costing, and cost prediction models. Problem
solving techniques using Microsoft Excel and related systems are applied.

4. Requisites

Prerequisites
ACCT 263 and MATH 157

Corequisites

5. Course Type

Course Type for   vocational (approved for Perkins funding)
Perkins Reporting

6. Justification

Describe the need
for this course

This course is a third year business course for the 3+1 A.S. program in Advanced and
Continuous Studies agreement with Stockton University.

Stockton University Justification:

Cost Accounting focuses on Stockton University's Essential Learning Outcome - Critical Thinking
and Business Program Learning Goal - Critical Thinking and Problem-Solving.

Students are often exposed to accounting and business dilemmas where complex techniques
and regulations require multiple levels of solution skills.

The cost accountant is no longer a simple "number-cruncher", but an integral member of the
business management team offering expertise and consulting to executive management.

Cost Accounting focuses on Stockton University's Essential Learning Outcome and Business
Learning Outcome - Ethical Reasoning.

Cost Accounting emphasizes the Business Program Learning Goal – Technology Agility.

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	This course is consistent with Ocean County College's (OCC) mission of "Ocean County College, an innovative academic leader, provides affordable, student-centered, high-quality educational experiences that empower diverse learners to succeed." This is achieved through OCC offering a 3+1 program that will provide a diverse group of students with an opportunity to receive a more affordable Bachelor's degree.
2	This course corresponds to the College's Strategic Goal 2: Optimize and expand enrollment of all learners. This is achieved through OCC adding an additional year of instruction and enrollment for any students that utilizes the 3+1 model.
3	This course corresponds to the College's Strategic Goal 4: Expand relationships with external stakeholders. This is achieved through the College's partnerships with four-year institutions to create new 3+1 programs and, in many cases, partnerships with industry for apprenticeships as they relate to the new 3+1 programs.

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution   None

Course Title   N/A

Course Number   N/A

Number of Credits   N/A

Comments
    This course is a 300-level course that is not designed to equate to any community college offerings.

Transferability of Course

Georgian Court
University

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

Kean University

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

Monmouth
University

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

Rowan University

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

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
ACCT 3122 COST ACCOUNTING W/ COMP APPS 4 credit hours	Major requirement	

If not transferable
to any institution,
explain:

This course has been created to align directly with Stockton University's course "ACCT 3122: COST ACCOUNTING W/ COMP APPS." Students in this course would be in a pipeline to transfer directly to Stockton upon completion at OCC.

10. Course Learning Outcomes

Learning Outcomes

		Students who successfully complete this course will be able to:
CLO1		Gain introduction to advanced concepts in cost and management accounting, as well as rules and regulations for compliance with GAAP
CLO2		Learn complex transactional recording methods
CLO3		Learn reporting alternatives needed for both external and internal reporting requirements
CLO4		Learn critical information necessary to obtain a CPA license or CMA or CGMA certification.
CLO5		Learn techniques and strategies to execute complex computations and analysis.
CLO6		Logically interpret the information provided and using analytical skills, summarize the results and provide alternative solution sets.
CLO7		Develop decision-making skills in cost accounting and management situations, accomplished with both exercises and problems that are analyzed and resolved using computer software technology.
CLO8		Learn to analyze business situations and construct informed ethical decisions essential in today's world.
CLO9		Analyze and report using Excel ™ the informational needs related to all aspects of accounting, managerial information, and strategy in the modern world with a global perspective.

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	Cost Accounting: Information for Decision Making	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments,	Quiz Assignment (Connect) Examination One (Connect)	CLO1-CLO9

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
	Cost Concepts & Behavior	Smartbook assignments and quiz assignments		
TO2	Fundamentals of Cost-Volume-Profit Analysis	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination One (Connect)	CLO1-CLO9
TO3	Fundamental of Cost Analysis for Decision Making	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination One (Connect)	CLO1-CLO9
TO4	Cost Estimation Fundamentals of Product and Service Costing	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination Two (Connect)	CLO1-CLO9
TO5	Job Costing & Product Costing	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination Two (Connect)	CLO1-CLO9

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO6	Activity-Based Costing	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination Two (Connect)	CLO1-CLO9
TO7	Fundamentals of Management Control Service Department & Joint Cost Allocation	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination Three (Connect)	CLO1-CLO9
TO8	Fundamentals of Management Control Planning and Budgeting	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination Three (Connect)	CLO1-CLO9
TO9	Business Unit Performance Measurement	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination Three (Connect)	CLO1-CLO9
TO10	Transfer Pricing Fundamentals of Variance Analysis	Readings, lecture, class discussions, LMS materials, Connect practice assignments,	Quiz Assignment (Connect) Examination Four (Connect)	CLO1-CLO9

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
		homework assignments, Smartbook assignments and quiz assignments		
TO11	Additional Topics in Variance Analysis Performance Measurement to Support Business Strategy	Readings, lecture, class discussions, LMS materials, Connect practice assignments, homework assignments, Smartbook assignments and quiz assignments	Quiz Assignment (Connect) Examination Four (Connect)	CLO1-CLO9

12. Methods of Instruction

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

The structure of this course involves face to face lectures supported by the LMS and McGraw-Hill Connect (Connect) homework management software.

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

_____

Information Literacy

_____

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.):
  Lanen, Anderson & Maher, Fundamental of Cost Accounting 6th ed. Bundled with Connect,
  Lanen, Anderson & Maher, 2020
  ISBN13: 9781259969478
  ISBN10: 1259969479
  McGraw-Hill Education
  Connect is required for the course

Technology Needs:
  Connect

  This course requires students to have access to a Windows 10 PC or Mac computer (desktop or
  laptop) with Wi-Fi connectivity and Microsoft Office 365. A webcam and a microphone are
  necessary for online videoconferencing meetings.

Human Resource
Needs (Presently

Employed vs. New
Faculty):

Faculty for this course must be approved to teach 300-level accounting courses.

Facility Needs:

Existing facilities will be utilized, including use of computer lab

Library needs:

Stockton's Richard E. Bjork Library is important for student success in this course. In addition to books, reference materials, periodicals, newspapers, microfilms, media, computer software, archival materials, and government documents, the library provides a Learning Commons, group study spaces, computers, printers, scanners, and research support.

Access to many library resources is available at the library website. https://library.stockton.edu/welcome

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

Key: 2299

EXHIBIT B-10

New Course Proposal

Date Submitted: 07/03/24 2:23 pm

Viewing: BUSN 350 : Introduction to Financial Management

Last edit: 07/03/24 2:23 pm

Changes proposed by: Katherine Toy (ktoy)

Programs
referencing this
course

AS.ACS.SACT: Advanced and Continuous Studies - Option in Business - Accounting

AS.ACS.SMGT: Advanced and Continuous Studies - Option in Business Administration - Management

AS.ACS.SMRK: Advanced and Continuous Studies - Option in Business Administration - Marketing

AS.ACS.SBA : Advanced and Continuous Studies - Option in Business Administration - BA Business Administration

Learning Outcomes
Display (show only)

In Workflow

1. **BS Academic Administrator**
2. **BS Dean**
3. **Executive Director of Curriculum and Program Development**
4. **Curriculum Committee Chair**
5. **Senate Chair**
6. Vice President of Academic Affairs
7. Cabinet
8. President
9. Board of Trustees Chair
10. BS Academic Administrator
11. Colleague

Approval Path

1. 07/03/24 2:58 pm James Marshall (jmarshall): Approved for BS Academic Administrator
2. 07/03/24 3:05 pm Rosann Bar (rbar): Approved for BS Dean
3. 07/05/24 8:31 am James Marshall (jmarshall): Approved for Executive Director

EXHIBIT B - 1 0

of Curriculum and
Program
Development
4. 07/12/24 12:53 pm
Caroline Brittain
(cbrittain):
Approved for
Curriculum
Committee Chair

1. Course Information

Subject	BUSN - Business
School	Business and Social Sciences
Course Title	Introduction to Financial Management

2. Hours

Semester Hours	4	
	Lecture	4
	Lab	0
	Practicum	0

3. Catalog Description

For display in the
online catalog

The topics for discussion include the financial environment, financial institutions, securities
markets, time value concepts, mathematics of finance, financial planning, financial analysis,
budgeting techniques, and working capital management.

4. Requisites

Prerequisites
  ACCT 161 and ACCT 162

Corequisites

5. Course Type

Course Type for
Perkins Reporting
vocational (approved for Perkins funding)

6. Justification

Describe the need
for this course

This course is a third year business course for the 3+1 A.S. program in Advanced and
Continuous Studies agreement with Stockton University.

Stockton University Justification:

This course is to introduce principles that a financial manager uses in financing and
investment decisions to maximize shareholders' wealth for the firm.

This course focuses on Stockton University's Essential Learning Outcome - Critical Thinking and
Finance Program Learning Goal - Critical Thinking and Problem-Solving.

This course emphasizes the Finance Program Learning Goal – Fundamental Business Skills.

This course emphasizes the Finance Program Learning Goal – Technology Agility.

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	This course is consistent with Ocean County College's (OCC) mission of "Ocean County College, an innovative academic leader, provides affordable, student-centered, high-quality educational experiences that empower diverse learners to succeed." This is achieved through OCC offering a 3+1 program that will provide a diverse group of students with an opportunity to receive a more affordable Bachelor's degree.
2	This course corresponds to the College's Strategic Goal 2: Optimize and expand enrollment of all learners. This is achieved through OCC adding an additional year of instruction and enrollment for any students that utilizes the 3+1 model.
3	This course corresponds to the College's Strategic Goal 4: Expand relationships with external stakeholders. This is achieved through the College's partnerships with four-year institutions to create new 3+1 programs and, in many cases, partnerships with industry for apprenticeships as they relate to the new 3+1 programs.

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	None
Course Title	N/A
Course Number	N/A
Number of Credits	N/A
Comments	

This course is a 300-level course that is not designed to equate to any community college offerings.

Transferability of Course

Georgian Court
University

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

Kean University

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

Monmouth
University

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

Rowan University

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

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
FINA 3110 Introduction to Financial Management 4 credit hours	Major requirement	

If not transferable

to any institution,

explain:

This course has been created to align directly with Stockton University's course "FINA 3110: Introduction to Financial Management." Students in this course would be in a pipeline to transfer directly to Stockton upon completion at OCC.

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Learn terminologies such as various financial ratios, present value, future value of cash flows used by practitioners.
CLO2	Learn principles used to evaluate a company's financial performance, principles applied to short-term and long-term financing, and models developed to manage working capital.
CLO3	Use Morningstar database or Mergent Online, search for relevant information, and interpret numerical values.
CLO4	Apply course material though assigned projects, using financial ratios to evaluate a company's operating performance.
CLO5	Diagnose problems in various business situations, gather and analyze relevant information to understand the problems, select and implement appropriate solutions, and evaluate outcomes.
CLO6	Perform fundamental business skills in finance
CLO7	Manage the flow of funds within organizations.
CLO8	Use technology to support performance in varying business situations.
CLO9	Select and use appropriate technology to gather, analyze, and interpret data to solve business problems.

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	Corporate Finance and the Financial Manager	Powerpoint slides, practice questions/problems, and projects	Test 1 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9
TO2	Intro to Financial Statement Analysis	Powerpoint slides, practice questions/problems, and projects	Test 1 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9
TO3	Time Value of Money: An Introduction	Powerpoint slides, practice questions/problems, and projects	Test 1 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9
TO4	Time Value of Money: Valuing Cash Flow Streams	Powerpoint slides, practice questions/problems, and projects	Test 2 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9
TO5	Interest Rates	Powerpoint slides, practice questions/problems, and projects	Test 2 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO6	Bonds	Powerpoint slides, practice questions/problems, and projects	Test 3 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9
TO7	Stock Valuation	Powerpoint slides, practice questions/problems, and projects	Test 3 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9
TO8	Financial Modeling and Pro Forma Analysis	Powerpoint slides, practice questions/problems, and projects	Test 4 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9
TO9	Working Capital Management	Powerpoint slides, practice questions/problems, and projects	Test 4 (in MyLab), quizzes (in MyLab), dynamic study module (DSM) assignments on MyLab, a financial analysis project, and a news article presentation	CLO1-CLO9

12. Methods of Instruction

In the structuring of
this course, what
major methods of

instruction will be
utilized?
  lectures, test reviews and project instructions

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

Information Literacy

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.):

The required textbook is Fundamentals of Corporate Finance, by Berk, DeMarzo, and Harford, Pearson 2021, the fifth edition, with MyLab Finance

Technology Needs:

It is required to get an internet connection and get enrolled in the MyLab Finance course. All of the tests will be administered in the MyLab Finance course. DSM assignments and quizzes are also submitted in the MyLab Finance course.

Human Resource
Needs (Presently
Employed vs. New
Faculty):

Faculty for this course must be approved to teach 300-level business courses.

Facility Needs:

Existing facilities will be utilized.

Library needs:

The followings are a few useful databases, websites, and recommended publications for reference:

Mergent Online (Available in library's online database)

Morningstar (Available in library's online database)

The Wall Street Journal (Available in Library's online database)

http://finance.yahoo.com

http://finance.google.com/finance

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

EXHIBIT B - 1 0

I: Incomplete

R: Audit

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

Reviewer

Comments

Key: 2297

EXHIBIT B - 1 0

EXHIBIT B-11

New Course Proposal

Date Submitted: 07/03/24 2:26 pm

Viewing: BUSN 380 : Advanced Operations Management

Last edit: 07/03/24 2:26 pm

Changes proposed by: Katherine Toy (ktoy)

Programs
referencing this
course

AS.ACS.SACT: Advanced and Continuous Studies - Option in Business - Accounting

AS.ACS.SMGT: Advanced and Continuous Studies - Option in Business Administration - Management

AS.ACS.SMRK: Advanced and Continuous Studies - Option in Business Administration - Marketing

AS.ACS.SBA : Advanced and Continuous Studies - Option in Business Administration - BA Business Administration

Learning Outcomes
Display (show only)

In Workflow

1. **BS Academic Administrator**
2. **BS Dean**
3. **Executive Director of Curriculum and Program Development**
4. **Curriculum Committee Chair**
5. **Senate Chair**
6. Vice President of Academic Affairs
7. Cabinet
8. President
9. Board of Trustees Chair
10. BS Academic Administrator
11. Colleague

Approval Path

1. 07/03/24 2:58 pm James Marshall (jmarshall): Approved for BS Academic Administrator
2. 07/03/24 3:06 pm Rosann Bar (rbar): Approved for BS Dean
3. 07/05/24 8:32 am James Marshall (jmarshall): Approved for Executive Director

of Curriculum and
Program
Development
4. 07/12/24 12:53 pm
Caroline Brittain
(cbrittain):
Approved for
Curriculum
Committee Chair

1. Course Information

Subject	BUSN - Business
School	Business and Social Sciences
Course Title	Advanced Operations Management

2. Hours

Semester Hours	4	
Lecture		4
Lab		0
Practicum		0

3. Catalog Description

For display in the
online catalog

This course covers management issues associated with the process of making goods and
services with analytical tools and emerging technology. Topics include product design, process
selection, location, facility layout, job design, supply chain management, inventory control,
resource planning and scheduling, quality management, and lean systems.

4. Requisites

Prerequisites
BUSN 271 and MATH 156 and MATH 157

Corequisites

5. Course Type

Course Type for   vocational (approved for Perkins funding)
Perkins Reporting

6. Justification

Describe the need
for this course

This course is a third year business course for the 3+1 A.S. program in Advanced and
Continuous Studies agreement with Stockton University.

Stockton University Justification:

This course will prepare students for understanding the operation of an organization so that
they will be successful in understanding the needs of management in the workplace.

This course focuses on Stockton University's Essential Learning Outcome - Communication Skills
and Stockton University's Essential Learning Outcome - Information Literacy and Research
Skills.

This course focuses on Stockton University's Essential Learning Outcome and Business Analytics
Learning Outcome - Ethical Reasoning.

This course focuses on Stockton University's Essential Learning Outcome - Critical Thinking and
Business Analytics Program Learning Goal - Critical Thinking and Problem-Solving.

This course emphasizes the Business Analytics Program Learning Goal – Technology Agility.

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	This course is consistent with Ocean County College's (OCC) mission of "Ocean County College, an innovative academic leader, provides affordable, student-centered, high-quality educational experiences that empower diverse learners to succeed." This is achieved through OCC offering a 3+1 program that will provide a diverse group of students with an opportunity to receive a more affordable Bachelor's degree.
2	This course corresponds to the College's Strategic Goal 2: Optimize and expand enrollment of all learners. This is achieved through OCC adding an additional year of instruction and enrollment for any students that utilizes the 3+1 model.
3	This course corresponds to the College's Strategic Goal 4: Expand relationships with external stakeholders. This is achieved through the College's partnerships with four-year institutions to create new 3+1 programs and, in many cases, partnerships with industry for apprenticeships as they relate to the new 3+1 programs.

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution   None

Course Title   N/A

Course Number   N/A

Number of Credits   N/A

Comments

This course is a 300-level course that is not designed to equate to any community college offerings.

Transferability of Course

Georgian Court
University

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

Kean University

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

Monmouth
University

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

Rowan University

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

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
BUSA 3120 Operations Management 4 credit hours	Major requirement	

If not transferable
to any institution,
explain:

This course has been created to align directly with Stockton University's course "BUSA 3120:
Operations Management." Students in this course would be in a pipeline to transfer directly to
Stockton upon completion at OCC.

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Learn about the 10 major operations management decisions of o Design of goods and services o Managing quality o Process Strategy o Locations strategy o Layout strategy o Human resources o Supply chain management o Inventory management o Scheduling o Maintenance
CLO2	Become familiar with the techniques for designing, implementing, operating, controlling, and evaluating the ten major operations management decisions.
CLO3	Cover major issues associated with operations strategies for competitive advantage and emerging technology, and with the conversion of resources into goods and services within the framework of the management processes such as planning, organizing, staffing, and controlling.
CLO4	Emphasize the decision-making processes and value creation in strategic and tactical activities relevant to forecasting, capacity, facility, human resource management, business processes reengineering, supply chain management, enterprise resource management, inventory control, and total quality management.
CLO5	Determine the reliability, nature, quality, extent, and appropriateness of various sources such as websites of information about operations management issues.
CLO6	Understand the ethical implications that can occur during the process of defining problems, developing alternatives, and value trade-offs when making decisions as an operations manager.
CLO7	Be aware of potential situations can that can create ethical dilemmas for the operations manager and be able to maximize integrity when making decisions as operations managers

EXHIBIT B - 11

		Students who successfully complete this course will be able to:
CLO8		Apply the process of stating the problem, describing the approach to take in solving it, developing the complete and detailed solution, and providing insight to why this solution has relevance to solving operations management problems and making decisions.
CLO9		Apply theories and skills of statistical data analysis and management science to support decision-making processes throughout an organization; understand the concepts and applications of operations management in a dynamic global business environment.

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	Operations and Productivity	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Test 1, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9
TO2	Global View of Operations	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Test 1, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9
TO3	Supply Chain Management	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes	Test 1, Aldi and Shop Rite case study, Homework and In class Exercises, My OM	CLO1-CLO9

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
		and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Lab Assignments and Simulations	
TO4	Design of Goods and Services	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Test 2, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9
TO5	Project Management	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Test 2, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9
TO6	Process Strategy	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM	Test 2, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9

EXHIBIT B - 1 1

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
		Lab video case study videos		
TO7	Quality Management	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Test 2, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9
TO8	Location Strategies	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Test 3, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9
TO9	Inventory	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Test 3, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9
TO10	Layout Strategies	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class,	Test 3, Aldi and Shop Rite case study, Homework and In class Exercises, My OM	CLO1-CLO9

EXHIBIT B - 11

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
		extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Lab Assignments and Simulations	
TO11	Just-in-Time and Lean Operations	Lecture, readings, in-class problems and Excel exercises, Kahoot quizzes and feedback in class, extra credit project that involves learning about generative AI, practice tests, groupwork, My OM Lab video case study videos	Test 3, Aldi and Shop Rite case study, Homework and In class Exercises, My OM Lab Assignments and Simulations	CLO1-CLO9

12. Methods of Instruction

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

Students will learn about operations management through lectures, problem-solving, in class discussions, case studies, and simulations. Students will use Excel to solve problems with data and quantitative analysis. Case studies and simulations will be assigned to show practical application of the material. An LMS and MYOMLAB are used in this course

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

_____

Information Literacy

_____

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.):
   Heizer, Jay, Render, Barry., Munson, Chuck (2023) Principles of Operations Management 14/E.
   Prentice Hall. e-book ISBN-13: 9780137649136, print ISBN-13: 9780137476442. Purchase an
   access code at https://www.pearson.com/mylab

   Students will need to purchase an access code for MyOMLab at
   https://www.pearson.com/mylab

Technology Needs:
   It is required to get enrolled in the MyOMLab course.

Human Resource
Needs (Presently
Employed vs. New
Faculty):

Faculty for this course must be approved to teach 300-level business courses.

Facility Needs:

Existing facilities will be utilized including computer lab

Library needs:

Stockton's Richard E. Bjork Library is important for student success in this course. In addition to
books, reference

materials, periodicals, newspapers, microfilms, media, computer software, archival materials,
and government documents,

the library provides a Learning Commons, group study spaces, computers, printers, and
scanners, and research support.

Access to many library resources is available at the library website.
https://library.stockton.edu/welcome

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

EXHIBIT B-12

Date Submitted: 07/02/24 11:42 am

Viewing: **CSIT 212 : Systems Analysis**

Last edit: 07/12/24 10:42 am

Changes proposed by: Cynthia Fallon (cfallon)

Catalog Pages
referencing this
course
Computer Science/ Information Technology (CSIT)

Programs
referencing this
course
AS.CS.CIS: Computer Science with Cyber-Information Security Option,
Associate in Science

Learning Outcomes
Display (show only)

In Workflow

1. **STEM Academic Administrator**
2. **STEM Dean**
3. **Executive Director of Curriculum and Program Development**
4. **Curriculum Committee Chair**
5. **Senate Chair**
6. Vice President of Academic Affairs
7. Cabinet
8. President
9. Board of Trustees Chair
10. STEM Academic Administrator
11. Colleague

Approval Path

1. 06/03/24 12:11 pm Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
2. 06/06/24 9:14 am Sylvia Riviello (sriviello): Approved for STEM Dean
3. 06/27/24 8:24 am James Marshall (jmarshall): Rollback to Initiator
4. 07/02/24 11:42 am Cynthia Fallon

(cfallon): Approved for STEM Academic Administrator

5. 07/02/24 1:00 pm Sylvia Riviello (sriviello): Approved for STEM Dean

6. 07/05/24 8:38 am James Marshall (jmarshall): Approved for Executive Director of Curriculum and Program Development

7. 07/12/24 12:53 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

1. Course Information

Subject	CSIT - Computer Science/ Information Technology
School	Science, Technology, Engineering, Mathematics
Course Title	Systems Analysis

2. Hours

Semester Hours	3
Lecture	
Lab	
Practicum	

3. Catalog Description

For display in the
online catalog

The focus of this course is the problem solving, communication and design skills utilized in systems analysis. Case studies are used to illustrate the system analysis, design and development activities used in the initial automation and revision of computerized applications. File and database structures are discussed and applied. In addition, documentation techniques are discussed and illustrated. The student will complete a system analysis project.

4. Requisites

Prerequisites

CSIT-124, or CSIT-165, or CSIT-163

Corequisites

5. Course Type

Course Type for
Perkins Reporting

vocational (approved for Perkins funding)

6. Justification

Describe the need
for this course

This is a program specific elective in the Computer Science/Information Technology AAS degree.

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

EXHIBIT B - 12

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.
2	Seeking to ensure that students will thrive in an increasingly diverse and complex world.
3	Preparing students for successful transfer to other educational institutions and/or for entrance into the workforce.
4	Seeking to empower students through the mastery of intellectual and Practical Skills.
5	Challenging students to transfer information into knowledge and knowledge into action.

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Atlantic Cape CC
Course Title	Systems analysis and Design
Course Number	CISM160
Number of Credits	3
Comments	

Institution	Bergen CC
Course Title	System Analysis and Design for Computer Science

Course Number   CIS289

Number of Credits   3

Comments

Institution   Brookdale CC

Course Title   Systems Analysis and Design

Course Number   COMP-226

Number of Credits   3

Comments

Institution   Camden County College

Course Title   System Analysis and Design

Course Number   CIS-231

Number of Credits   3

Comments

Institution   Hudson County CC

Course Title   Information Systems Analysis and Design

Course Number   CSC231

Number of Credits   3

Comments

Institution   Mercer County CC

Course Title   Systems Analysis

Course Number   CSC225

Number of Credits   3

Comments

Institution   Middlesex County College

Course Title   Systems Analysis

Course Number   CSC225

Number of Credits   3

Comments

Institution   Passaic County CC

Course Title   Systems Analysis and Design

Course Number   CIS202

Number of Credits   3

Comments

Transferability of Course

Georgian Court
University

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

Kean University

EXHIBIT B - 1 2

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CPSX 1003 Computer Science Elective	Major	

Monmouth
University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CS 002 200 Level Computer Science Elective	Major	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
INTR 99070 Free Elective	Elective	

Rutgers - New
Brunswick, Mason
Gross School of the
Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
		Will not transfer

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CSCI 2210 Systems Analysis & Design	Major	

If not transferable
to any institution,
explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Solve large problems by first reducing them to smaller more manageable components.

EXHIBIT B - 1 2

	Students who successfully complete this course will be able to:
CLO2	Develop the skills necessary to perform investigations, produce design specifications, implement and document systems.
CLO3	Understand the interdisciplinary skills of a systems analyst.
CLO4	Differentiate between different file and database structures.
CLO5	Write program narratives, system descriptions and user manuals.
CLO6	Demonstrate knowledge of modern computer tools used by systems analysts.

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	Systems Analysis Fundamentals 1. Categories of Information Systems 2. New technologies integrated into traditional systems 3. Systems development life cycle 4. Rapid Application Development (RAD) 5. Introduction to CASE tools	• Reading of textbook • Homework • Internet research • Class discussion • Real case analysis	Exam	01, 02, 03
TO2	Information Requirements Analysis 1. Interviewing as an important method for collecting data 2. Prototyping and Rapid Application Development	• Reading of textbook • Homework • Internet research • Class discussion • Real case analysis	• Exam • Project & Presentation	02, 03

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
		• Projects		
TO3	The Analysis Process 1. Using Data Flow Diagrams 2. Analyzing Systems Using Data Dictionaries 3. Describing Process Specifications and Structured Decisions 4. Analyzing Semi-structured Decision Support Systems 5. Preparing, Writing and Presenting the Systems Proposal	• Reading of textbook • Homework • Internet research • Class discussion • Real case analysis • Projects	• Exam • Project & Presentation	03, 04, 05
TO4	The Essentials of Design 1. Designing Effective Output 2. Designing Effective Input 3. Designing Databases 4. Designing User Interfaces 5. Designing Accurate Data-Entry Procedures	• Reading of textbook • Homework • Internet research • Class discussion • Real case analysis • Projects	• Exam • Project & Presentation	04, 05, 06
TO5	Software Engineering and Implementation 1. Quality Assurance Through Software Engineering 2. Successfully Implementing the Information System 3. Object-Oriented	• Reading of textbook • Homework • Internet research • Class discussion • Real case analysis	Exam	04, 05, 06

EXHIBIT B - 12

Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
Systems Analysis and Design			

12. Methods of Instruction

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

Class lecture, discussion, demonstrations, lab assignments, and online presentations.

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

Information

Communication-Written and Oral   Yes

Related Course   All
Learning Outcome

Related Outline   All
Component

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

Exam and Project presentations

Quantitative Knowledge and Skills   Yes

Related Course   All
Learning Outcome

Related Outline   All
Component

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

Exam and Project presentations

EXHIBIT B - 1 2

Scientific Knowledge and Reasoning   Yes

Related Course   All
Learning Outcome

Related Outline   All
Component

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

Exam and Project presentations

Technological Competency   Yes

Related Course   All
Learning Outcome

Related Outline   All
Component

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

Exam and Project presentations

Information Literacy   Yes

Related Course   All
Learning Outcome

Related Outline   All
Component

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

Exam and Project presentations

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness

Ethical Reasoning and Action

Independent/Critical Thinking   Yes

Related Course   All
Learning Outcome

Related Outline   All
Component

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

Exam and Project presentations

14. Needs

Instructional
Materials (text
etc.):

  Appropriate textbooks will be selected. Contact the department for current adoptions.
  Class notes, presentations, software and online materials, College Portal and/or College
  Distance Learning Platform and/or Textbook or Instructor Website.

Technology Needs:

Human Resource
Needs (Presently
Employed vs. New
Faculty):

Facility Needs:

Library needs:

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.

16. Board Approval

History of Board
approval dates

Reviewer
Comments

James Marshall (jmarshall) (06/27/24 8:24 am): Rollback: Additional Information to be added.

Key: 527