EXHIBIT B



BOARD OF TRUSTEES

Bylaw, Policy, and Curriculum Committee Agenda Items

To:

Board of Trustees

From:

Office of the President

Date:

September 15, 2022

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, September 22, 2022**:

- 1. Recommend approval of the following items as accepted by the College Senate at its meetings on September 8, and 15, 2022:
 - a. New Program Options
 - 1) Associate in Science Degree in Advanced and Continuous Studies Option in Business Analytics and Data Science (Exhibit B-1)
 - 2) Associate in Science Degree in Advanced and Continuous Studies Option in Supply Chain, Logistics, and Maritime Port Management (Exhibit B-2)
 - 3) Associate in Science Degree in Hospitality, Recreation, and Tourism Management Option in Culinary Arts (Exhibit B-3)
 - b. Revised Program
 - 1) Associate in Science Degree in Computer Science (Exhibit B-4)
 - c. Terminated Program
 - 1) Associate in Science Degree in Psychosocial Rehabilitation (Exhibit B-5)
 - d. New Courses
 - 1) BUSN 320, Procurement and Supplier Relationship Management (Exhibit B-6)
 - 2) BUSN 321, Decision Intelligence in Supply Chains (Exhibit B-7)
 - 3) BUSN 390, Fundamentals of Data Visualization for Business Analytics and Data Science (Exhibit B-8)
 - 4) BUSN 391, Basics of Data Collection, Data Warehousing, and Data Cleansing (Exhibit B-9)
 - 5) HRTM 230, Principles of Food and Beverage Management (Exhibit B-10)

Bylaw, Policy, and Curriculum Agenda September 15, 2022 Page 2

- 6) HRTM 231, Culinary Fundamentals (Exhibit B-11)
- 7) HRTM 232, Advanced Culinary Concepts(Exhibit B-12)
- a. Revised Course
 - 8) MATH 281, Differential Equations (Exhibit B-13)

EXHIBIT B-1

Program Change Request

EXHIBIT B - 1

New Program Proposal

Date Submitted: 08/05/22 12:40 pm

Viewing: AS.ACS.DATA: Advanced and

Continuous Studies - Option in Business Analytics and Data Science

Last edit: 08/05/22 12:40 pm

Changes proposed by: Katherine Toy (ktoy)

Program Type

Option

Program Title

Advanced and Continuous Studies - Option in Business Analytics and

Data Science

Option Title

Business Analytics and Data Science

Academic School

Business and Social Sciences

Base Program

Advanced and Continuous Studies

Effective Catalog

2022-2023

Year

Program Code

AS.ACS.DATA

CIP Code

N/A - N/A

Objectives

Program Description

In Workflow

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

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

 Administrator for

 Programs

Approval Path

- 1. 08/05/22 1:33 pm Susan O'Connor (soconnor): Approved for BS Academic Administrator
- 2. 08/05/22 1:33 pm Susan O'Connor (soconnor): Approved for BS Dean
- 3. 08/05/22 1:33 pm Susan O'Connor

(soconnor): Approved for Director of Curriculum 4. 08/11/22 4:54 pm Heather Sciarappa (hsciarappa): Approved for Curriculum Committee Chair 5. 09/08/22 6:05 pm Robert Marchie (rmarchie): Approved for Senate Chair 6. 09/09/22 1:04 pm Joseph Konopka (jkonopka): Approved for Vice President of **Academic Affairs**

Students in this business analytics and data science option of the "3+1" program graduate with an associate degree from OCC in Business Administration - Data Analytics option, and then matriculate into the Advanced and Continuous Studies degree program - Business Analytics and Data Science option (AS.ACS.DATA), 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, New Jersey City University (NJCU). Upon successful completion, no course shall be repeated at NJCU.

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.

Students who successfully complete this program will be able to:

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	r		
BUSN 249 🗹	1 : : : : : : : : : : : : : : : : : : :	#			
BUSN 275		:			
CSIT 200 🗹		1		1	
	:	Second Semest	ter		
BUSN 291 🗹		:		; ! :	
CSIT 275	:	!			
		FirstSemeste	r		

SecondSemester

3

3

15

Required Qualifications

Plan of Study Grid

Junior	
First Semester	Credit Hours
BUSN 249 Operations Management	3
BUSN 275 Principles of Finance	3
BUSN 390	3
CSIT 200 Information Security Fundamentals	3
Elective	3
Credit Hours	15
Second Semester	
BUSN 291 International Business: A Cultural Perspective	e3
BUSN 391	3
CSIT 275 Data Management Analytics	3

CSIT 275 Data Management Analytics

Credit Hours

Elective

Elective

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	Course Code & Title	Credits
Courses	BUSN 249 (NJCU equivalent: MGMT 251 Operations + PMT Fundamentals)	3
	BUSN 275 (NJCU equivalent: FINC 371 Managerial Finance)	3
	BUSN 291 (NJCU equivalent: MGMT 241 Global Business)	3
	BUSN 390 (NJCU equivalent: FINC 403 Fundamentals of Data Visualization for Business Analytics and Data Science)	3
	BUSN 391 (NJCU equivalent: FINC 415 Basics of Data Collection, Data Warehousing, and Data Cleansing)	3

9/15/22, 3:58 PM

15/22, 3:58 PM	AS.ACS.DATA: Advanced and Continuous Studies - Optio	n in Business Analytics and Data	EXHIBIT 3 - 1
	Course Code & Title	Credits	
1	CSIT 200 (NJCU equivalent: Elective)	3	
	CSIT 275 (NJCU equivalent: FINC 306 Statistical and Mathematical Foundations for Business Analytics and Data Science)	3	
	Electives	9	
Elective Courses	Course Code & Title	Credits	
	N/A	N/A	

Reviewer

Comments

Key: 98

EXHIBIT B-2

Program Change Request

New Program Proposal

Date Submitted: 08/05/22 12:42 pm

Viewing: AS.ACS.SPLC: Advanced and

Continuous Studies - Option in Supply Chain, Logistics, and Maritime Port Mgmt.

Last edit: 08/05/22 1:34 pm

Changes proposed by: Katherine Toy (ktoy)

Program Type

Option

Program Title

Advanced and Continuous Studies - Option in Supply Chain, Logistics, and Maritime Port Mgmt.

Option Title

Supply Chain, Logistics, and Maritime Port Mgmt.

Academic School

Business and Social Sciences

Base Program

Advanced and Continuous Studies

Effective Catalog

2022-2023

Year

Program Code

AS.ACS.SPLC

CIP Code

N/A - N/A

Objectives

Program Description

In Workflow

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

Approval Path

- 1. 08/05/22 1:33 pm Susan O'Connor (soconnor): Approved for BS Academic Administrator
- 2. 08/05/22 1:33 pm Susan O'Connor (soconnor): Approved for BS
- 3. 08/05/22 1:34 pm Susan O'Connor

Dean

AS.ACS.SPLC: Advanced and Continuous Studies - Option in Supply Chain, Logistics, and Maritime Port Mgmt.

(soconnor): Approved for Director of Curriculum 4. 08/11/22 4:54 pm Heather Sciarappa (hsciarappa): Approved for Curriculum Committee Chair 5. 09/08/22 6:05 pm Robert Marchie (rmarchie): Approved for Senate Chair 6. 09/09/22 1:04 pm Joseph Konopka (jkonopka): Approved for Vice President of

Academic Affairs

Students in this supply chain, logistics, and maritime port management option of the "3+1" program graduate with an associate degree from OCC in Business Administration - Supply Chain Management option, and then matriculate into the Advanced and Continuous Studies degree program - Supply Chain, Logistics, and Maritime Port Management option (AS.ACS.SPLC), 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, New Jersey City University (NJCU). Upon successful completion, no course shall be repeated at NJCU.

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.	

9/15/22, 3:59 PM

AS.ACS.SPLC: Advanced and Continuous Studies - Option in Supply Chain, Logistics, and Maritime Port Mgmt.

Students who successfully complete this program will be able to:

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 162 🗹					:		
BUSN 275	:		† !		i		
		S	Second Semest	er			
<u>BUSN 291</u> 🗹	:		:				
			FirstSemester				
			SecondSemest	er			

Required Qualifications

Plan of Study Grid

Junior	
First Semester	Credit Hours
ACCT 162 Principles of Accounting II ¹	3
BUSN 275 Principles of Finance ¹	3
BUSN 320	3
Elective ²	3
Elective	3
Credit Hours	15
Second Semester	
BUSN 291 International Business: A Cultural Perspective	re3
BUSN 321	3
Elective	3
Elective	3
Elective	3
Credit Hours	15
Total Credit Hours	30

9/15/22, 3:59 PM

AS.ACS.SPLC: Advanced and Continuous Studies - Option in Supply Chain, Logistics, and Maritime Port Mgmt.

If ACCT 162 and/or BUSN 275 were completed during associate's degree, students may choose an elective instead.

2

BUSN 271, Principles of Management, should be completed during associate degree coursework, as it is a prerequisite for BUSN 320.

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	Course Code & Title	Credits
Courses	ACCT 162 (NJCU equivalent: ACCT 252 Management Accounting)	3
	BUSN 275 (NJCU equivalent: FINC 371 Managerial Finance)	3
	BUSN 291 (NJCU equivalent: MGMT 241 Global Business)	3
	BUSN 320 (NJCU equivalent: MGMT 305 Procurement and Supplier Relationship Management)	3

9/15/22, 3:59 PM

AS.ACS.SPLC: Advanced and Continuous Studies - Option in Supply Chain, Logistics, and Maritime Port Mgmt.

	Course Code & Title	Credits
	BUSN 321 (NJCU equivalent: MGMT 350 Decision Intelligence in Supply Chains)	3
	Electives	15
Elective Courses	Course Code & Title	Credits
	N/A	N/A

Reviewer

Comments

Key: 99

EXHIBIT B-3

Program Change Request

Date Submitted: 07/18/22 12:55 pm

Viewing: AS.HRTM.CA: Hospitality, Recreation, and Tourism Management, Associate in Science Option in Culinary Arts

Last approved: 02/18/22 3:15 pm

Last edit: 08/24/22 10:44 am Changes proposed by: Sean Bips (sbips)

Program Type

Associate of Science (AS)

Program Title

Hospitality, Recreation, and Tourism Management, Associate in Science Option in Culinary Arts

Academic School

Business and Social Sciences

Effective Catalog

2022-2023

Year

Program Code

AS.HRTM.CA

CIP Code

520901 - Hospitality

Administration/Management, General.

Program Description

In Workflow

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

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

 Administrator for

 Programs

Approval Path

- 1. 07/19/22 9:40 am
 Johanna Riemen
 (jriemen): Approved
 for BS Academic
 Administrator
- 2. 07/28/22 2:06 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 08/05/22 10:58 am Susan O'Connor (soconnor): Approved for

Director of Curriculum

- 4. 08/24/22 10:45 am
 Susan O'Connor
 (soconnor):
 Approved for
 Curriculum
 Committee Chair
- 5. 09/08/22 6:05 pm Robert Marchie (rmarchie): Approved for Senate Chair
- 6. 09/09/22 1:04 pm
 Joseph Konopka
 (jkonopka):
 Approved for Vice
 President of
 Academic Affairs

History

1. Feb 18, 2022 by Susan O'Connor (soconnor)

The Associate in Science degree program in Hospitality, <u>Recreation</u>, <u>Recreation</u> and Tourism Management (HRTM) is designed to prepare students to begin a career in the creative, people-oriented <u>hospitality</u>, <u>recreation</u>, and <u>tourism</u> Hospitality, <u>Recreation & Tourism</u> industries, or to continue with their education toward a Bachelor's degree. The program provides a business planning and management foundation that examines industry trends, consumer behavior, guest <u>services</u>, <u>services</u> and other factors that influence <u>hospitality recreation</u>, <u>Hospitality Recreation & Tourism development</u> and <u>tourism development and</u> promotion. Students will receive exposure to critical thinking skills as well as a broad education and awareness of values, skills, and attitudes that will prepare them for responsible citizenship roles across the scope of the hospitality, <u>recreation</u>, <u>recreation</u> and tourism industry and society.

The purpose of the culinary option program is to build culinary knowledge, recipe execution competencies, and kitchen skills to prepare students for a career in the food and beverage/culinary segment of the hospitality industry. The content of this program addresses cooking fundamentals and provides a broad introduction to managerial principles in food and beverage operations.

Program Objectives

N/A

Program Goals

	Program goals
PG1	Provide the foundations of management in the hospitality industry. NA
<u>PG2</u>	Demonstrate specialized skills in the culinary arts.
<u>PG3</u>	Prepare students for either transfer or career opportunities.

Program Learning

Outcomes

utcomes	
i i	Students who successfully complete this program will be able to:
PLO1	Recognize the management processes required to become managers and practitioners in professions that provide positive leisure experiences in areas that enrich the lives of others.
PLO2	Describe the management and supervisory side of business operations within the hospitality, recreation, and tourism fields.
PLO3	Discuss career opportunities in the hospitality, recreation, and tourism industry and the qualifications needed for entry-level positions.
PLO4	Identify the theories and skills needed for responsible employee management and customer/guest services, and the requirements for running a successful operation.
PLO5	Distinguish the special characteristics that separate hospitality, recreation, and tourism employees from other service and manufacturing businesses.
<u>PLO6</u>	Manage sanitation levels in the kitchen and apply all required cooking times as well as demonstrate effectively planned and balanced menus.
<u>PLO7</u>	Plan facility design and manage equipment in the kitchen, ranging from food preparation methods to plating techniques.
<u>PLO8</u>	<u>Demonstrate knowledge cost breakdown of food and beverage items and apply inventory cost control measures to create profitable menus.</u>

9/15/22, 4:00 PM		AS.HRTM.CA: Hospitality, Recreation, and Tourism Management, Associate in Science Option in	Culinary Arts
		Students who successfully complete this program will be able to:	
	<u>PLO9</u>	Identify appropriate seasoning methods and knowledge of food and beverage products to create flavorful, nutritious, and attractive menu items.	
	<u>PLO10</u>	Prove technical competency in professional kitchen management/knife skills and demonstrate successful recipe execution.	
	<u>PLO11</u>	Demonstrate plating techniques and food presentation skills.	

Learning Outcomes Display (show only)

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
					FirstSe	emester					
ENGL 151 HRTM 110 COMM 154											
STSC 150				, man,							
					Second	Semester	ı			:	:
ENGL 152								:			
BUSN 271											
ECON 151											
					Third	Semester					
HRTM 212 🗷		100 100 100 100 100 100 100 100 100 100							:		

9/15/22, 4:00 PM		AS.HRTM.CA: Hospitality, Recreation, and Tourism Management, Associate in Science Option in Culinary Arts									Arts :
Course	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO	PLO
Code	1	2	3	4	5	6	7	8	9	10	11
<u>HRTM</u>			! : :								
214 Z			!						!		1
		1									
<u>CSIT</u>											
<u>123</u>										1	
Z'			1				i	į	i		1
					Fourths	Semester					
<u>APPR</u>		:	1	:				:			
<u>151</u>		:	!				:				
		!	1						i		} :
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HRTM			1				:				
<u>220</u> 🗹	:	1					į	i	•	1	
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Required Qualifications

Program Requirements

Plan of Study Grid

	, , , , , , , , , , , , , , , , , , , ,						
First Semester		Credit Hours					
ENGL 151	English I	3					
MATH 156 or H	ligher	3					
HRTM 110	Introduction to Hospitality, Recreation And Tourism Manageme	nt3					
COMM 154	Fundamentals of Public Speaking	3					
STSC 150	Student Success Seminar	2					
	Credit Hours	14					
Second Semes	ter						
ENGL 152	English II	3					
BUSN 271	Principles of Management	3					
ECON 151	Macroeconomic Principles	3					
or <u>ECON 15</u>	2 or Microeconomics Principles						
HRTM 120	Marketing for Hospitality and Tourism	3					
HRTM 230		<u>3</u>					
Any Course fro	om the Gen. Ed. Course List	3					
•	Credit Hours	15					
Third Semeste	er						
HRTM 212	Conferences, Conventions, and Special Events Management	3					
HRTM 214	Supervision and Human Resource Management	3					
Hospitality, Re	Hospitality, Recreation, and Tourism Mgmt. Program Elective ⁴ 3						
https://enhyork.organ.edu/courseleaf/approve/?role=admin							

9/15/22, 4:00 PM	AS.HRTM.CA: Hospitality, Recreation, and Tourism Mana	agement, Associate in Science Option in Culinary Arts
HRTM 231		<u>3</u>
<u>CSIT 123</u>	Integrated Office Software	3
Any Foreign L	anguage Course from the Gen. Ed. Course list ¹	3
ų ·	Credit Hours	15
Fourth Semest	er	
APPR 151	Degree Apprenticeship (HRTM section only)	<u>3</u>
HRTM 232		<u>3</u>
HRTM 220	Managerial Accounting for Hospitality Industry	3
Any Foreign L	anguage Course from the Gen. Ed. Course list ¹	3
•	<u>en. Ed. Requirement</u>	4
	meet 60 credits	6
	Credit Hours	16
	Total Credit Hours	60

²Two semesters of the same foreign language are strongly recommended (For example: SPAN 151 and SPAN 152)

Degree Requirements Breakdown

GCOM	Course Code & Title	Credits
	ENGL 151 English I NA	3.0 N/A
	ENGL 152 English II N/A	3.0 N/A
GHUM	Course Code & Title	Credits
	Any Foreign Language gen ed course NA	<u>3.0</u> N/A
GSOC	Course Code & Title	Credits
	ECON 151 Macroeconomic Principles or	<u>3.0</u> N/A
	ECON 152 Microeconomic Principles NA	
GSOC/ GHUM	Course Code & Title	Credits
	Any Foreign Language gen ed course NA	3.0 N/A
GMAT/ GSCI/ GTEC	Course Code & Title	Credits
	MATH 156 or higher NA	3.0 N/A
	<u>Lab Science gen ed</u> N/A	<u>4.0</u> N/A
	CSIT 123 Integrated Office Software N/A	3.0 N/A

Two semesters of the same foreign language are strongly recommended (For example: SPAN 151 and SPAN 152)

9/15/22, 4:00 PM

AS, HRTM.CA: Hospitality, Recreation, and Tourism Management, Associate in Science Option in Culinary Arts

General Education	Course Code & Title	Credits
		<u>3.0</u> N/A
	NA	
	Any course from gen ed list N/A	<u>3.0</u> N/A
Concentration	Course Code & Title	Credits
Courses	HRTM 110 Introduction to Hospitality	<u>3.0</u> N/A
	Recreation and Tourism Management NA	
	HRTM 230 Principles of Food and Beverage Management N/A	3.0 N/A
	HRTM 231 Culinary Fundamentals N/A	<u>3.0</u> N/A
	HRTM 232 Advanced Culinary Concepts N/A	3.0 N/A
	APPR 151 Degree Apprenticeship N/A	3.0 N/A
Elective Courses	Course Code & Title	Credits
	BUSN 271 Principles of Management NA	<u>3.0</u> N/A
	HRTM 212 Conferences, Conventions, and Special Events Management N/A	3.0 N/A
	HRTM 214 Supervision and Human Resource Management N/A	3.0 N/A
	HRTM 220 Managerial Accounting for Hospitality Industry N/A	3.0 N/A

Board Approval

History of Board approval dates

<u>TBD</u>

Reviewer

Comments

EXHIBIT B-4

Program Change Request

Date Submitted: 07/08/22 1:46 pm

Viewing: AS.CS: Computer Science, Associate in

Science

Last approved: 06/15/22 11:58 am

Last edit: 09/08/22 4:10 pm

Changes proposed by: Helga Paggi (hpaggi)

Catalog Pages Using

this Program

Computer Science, Associate in Science

4

Program Type

Associate of Science (AS)

Program Title

Computer Science, Associate in Science

Academic School

Science, Technology, Engineering,

Mathematics

Effective Catalog

2023-2024

Year

Program Code

AS.CS

CIP Code

110101 - Computer and Information Sciences,

General.

Program Description

In Workflow

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

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

 Administrator for

 Programs

Approval Path

- 1. 06/22/22 5:10 pm Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
- 06/22/22 6:19 pm
 Sylvia Riviello
 (sriviello): Approved
 for STEM Dean
- 3. 06/30/22 3:35 pm Susan O'Connor (soconnor): Rollback to STEM Dean for

Director of

Curriculum

- 4. 07/04/22 4:51 pm Sylvia Riviello (sriviello): Rollback to STEM Academic Administrator for STEM Dean
- 5. 07/08/22 1:06 pm Cynthia Fallon (cfallon): Rollback to Initiator
- 6. 07/08/22 2:24 pm Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
- 7. 07/08/22 3:34 pm Sylvia Riviello (sriviello): Approved for STEM Dean
- 8. 08/05/22 10:58 am
 Susan O'Connor
 (soconnor):
 Approved for
 Director of
 Curriculum
- 9. 08/18/22 2:07 pm
 Heather Sciarappa
 (hsciarappa):
 Rollback to Director
 of Curriculum for
 Curriculum
 Committee Chair
- 10. 08/18/22 2:08 pm
 Susan O'Connor
 (soconnor): Rollback
 to STEM Dean for
 Director of
 Curriculum

11. 08/18/22 2:16 pm
Sylvia Riviello
(sriviello): Approved
for STEM Dean

12. 08/31/22 12:58 pm
Susan O'Connor
(soconnor):
Approved for
Director of
Curriculum

13. 09/08/22 4:15 pm
Heather Sciarappa
(hsciarappa):
Approved for
Curriculum
Committee Chair

History

1. Jun 15, 2022 by Susan O'Connor (soconnor)

The program outlined here will prepare students for transfer to a four-year college to obtain a Bachelor of Science degree in <u>Computer Science</u> and provide a solid base of knowledge for a career in the <u>Computer Science</u> field. The curriculum follows closely program requirements of prominent four-year higher education institutions in <u>New Jersey and is designed to address the preparation of our students for a future in Computer Science.</u>

The curriculum follows the model provided by the Association of Computing Machinery and the Institute of Electrical and Electronic Engineers Computer Society in order to assure maximumtransferability. This curriculum has been designed to address these needs in preparing the student for a future in computerscience.

Program Objectives	(canalyan)selsasainassellanassellanassellanassellanassellanassellanassellanassellanassellanassellanassellanass

Program Goals

Program goals

Program goals

PG1 NA

Program Learning

Outcomes

atcomes	
\ 	Students who successfully complete this program will be able to:
f	State the basic concepts of a modern computer architecture including the main functions of an operating system and ancillary software and how the major computer data, instruction and addressing formats influence computer performance.
	Describe the software development life cycle(SDLC) and how it applies to recognizing solutions to the problems involved in program portability and data design by collecting, organizing and evaluating information
	Illustrate the benefits of Object-Oriented software development and the rational of derived classes (including private, protected and public data members and methods).
PLO4	Analyze (big O) algorithms for sequential and binary searches, hashing, and common selection, exchange and insertion sorting algorithms
PLO5	Differentiate between the concepts, data structure and benefits involved in logically representing common data structures, such as tables, ordered lists, stacks, queues and trees.
PLO6	Demonstrate independent thinking through mathematical, scientific, and philosophical reasoning.
PLO7	Explain how technology has had an impact on society and the environment.
PLO8	<u>Demonstrate knowledge and skills in the areas of Computer Science to solve</u> <u>technical and computational problems.</u>

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8
FirstSemester								
ENGL 151 🗹							! : :	

AS.CS: Computer Science, Associate in Science

5/22, 3:56 PM			Ac			!		1
Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6	PLO 7	PLO 8
<u>MATH</u> 265 ☑								
<u>CSIT</u> 165 ☑								
<u>STSC</u> 150 ☑						According to the second of the		S
				SecondSemest	er	!	!	I
ENGL 152						\$ 00 mm = 00 m		
<u>MATH</u> 266 ☑								
<u>CSIT</u> 166 ☑							:	
<u>CSIT</u> 176 ☑							· : !	:
				ThirdSemest	ter		:	
<u>CSIT</u> 265 ☑								
<u>MATH</u> 267 ☑				!				
<u>BIOL</u> 161 ☑								
				FourthSeme	ster	I	:	
BIOL 162				:				

Required Qualifications

9/15/22, 3:56 PM	Aa.Ca. Computer acidin	
First Semester		Credit Hours
ENGL 151	English I	3
MATH 265	Calculus I	4
<u>CSIT 165</u>	Programming I	4
Humanities Gen. Ed.	<u>. Requirement</u>	3
STSC 150	Student Success Seminar	2
	Credit Hours	16
Second Semester		
ENGL 152	English II	3
MATH 266	Calculus II	4
<u>CSIT 166</u>	Programming II	4
<u>CSIT 176</u>	Computer Organization & Architecture	3
Humanities or Social	Science Gen. Ed. Requirement	3
	Credit Hours	17
Third Semester		
<u>CSIT 265</u>	Data Structures and Analysis	4
Select one of the fol	lowing to fulfil the Lab Science Gen. Ed. Requ	irement4
PHYS 281	General Physics I	
CHEM 181	General Chemistry I	á
<u>MATH 267</u>	Calculus III	3
or <u>MATH 270</u>	or Discrete Mathematics	
or <u>MATH 275</u>	or Linear Algebra	The state of the s
MATH 270	Discrete Mathematics	8
BIOL 161	General Biology I	4
or <u>CHEM 181</u>	or General Chemistry I	
or <u>PHYS 281</u>	or General Physics I	
Social Sciences Ger	<u>n. Ed. Requirement</u>	3
Math Elective; choc	ise one of the following:	3
MATH 275	Linear Algebra	
	Credit Hours	14
Fourth Semester		
Select from the foll	owing to complete your Science Sequence	4
PHYS 283	General Physics III	¥
BIOL 162	General Biology II	4
or <u>CHEM 182</u>	or General Chemistry II	
or <u>PHYS 282</u>	or General Physics II	
CHEM 182	General Chemistry II	
CSIT Elective ¹		6
MATH or CSIT Elec	tive ²	3
	Credit Hours	13

Total Credit Hours

60

CSIT Electives can be chosen from all CSIT courses with the exception of CSIT 110, CSIT 123, CSIT 126, CSIT 131, CSIT 133, and CSIT 160

Choose either a MATH or CSIT elective depending on your transfer pathway. MATH electives can be chosen from MATH 270, MATH 275, or MATH 267. CSIT electives can be chosen from all CSIT courses with the exception of CSIT 110, CSIT 123, CSIT 126, CSIT 131, CSIT 133 and CSIT 160.

Degree Requirements Breakdown

GCOM	Course Code & Title	Credits
	<u>ENGL 151</u> NA	<u>3</u> NA
	<u>ENGL 152</u>	<u>3</u>
GHUM	Course Code & Title	Credits
	<u>GEN ED HUMN</u> NA	<u>3</u> NA
GSOC	Course Code & Title	Credits
	GEN ED SOCIAL SCIENCE NA	<u>3</u> NA
GSOC/ GHUM	Course Code & Title	Credits
	GEN ED HUMN OR SOCIAL SCIENCE NA	<u>3</u> NA
GMAT/ GSCI/ GTEC	Course Code & Title	Credits
	CSIT 165 NA	<u>4</u> NA
	<u>CSIT 166</u>	<u>4</u>
	<u>MATH 265</u>	<u>4</u>
	<u>MATH 266</u>	<u>4</u>
General Education	Course Code & Title	Credits
	BIOL 161 OR CHEM 181 OR PHYS 281 NA	<u>4</u> NA
	BIOL 162 OR CHEM 182 OR PHYS 282	<u>4</u>
	<u>STSC 150</u>	<u>2</u>

10/22, 0.00 1 W			
Concentration	Course Code & Title	Credits	
Courses	NA	₩A	
	<u>CSIT 176</u>	<u>3</u>	
	<u>CSIT 185 OR CSIT 265 OR CSIT 213</u>	<u>3</u>	
	<u>CSIT ELECTIVES</u>	<u>6</u>	
	<u>CSIT 265</u>	<u>4</u>	
Elective Courses	Course Code & Title	Credits	
	<u>CSIT or MATH ELECTIVE</u> NA	<u>3</u> NA	

Board Approval

History of Board approval dates

Board of Trustees Approval Date: September 24, 2007

Board of Trustees Approval Date: December 1, 2008

Board of Trustees Approval Date: February 28, 2011

Board of Trustees Approval Date: February 25, 2013

Board of Trustees Approval Date: May 28, 2013

Board of Trustees Approval Date: December 08, 2016

Board of Trustees Approval Date: March 29, 2018

Board of Trustees Approval Date: January 24, 2018

Reviewer

Comments

Susan O'Connor (soconnor) (06/30/22 3:35 pm): Rollback: Hi:ls there a reason we are adding this new program outcome? Wouldn't this outcome be achieved by way of completing the other outcomes in the program?

Sylvia Riviello (sriviello) (07/04/22 4:51 pm): Rollback: Please review Susan's question from the email I forwarded to you

Cynthia Fallon (cfallon) (07/08/22 1:06 pm): Rollback: Additional Edits

Heather Sciarappa (hsciarappa) (08/18/22 2:07 pm): Rollback: Hi all — I believe you wanted to look at this more. Please resubmit to workflow once you've made any necessary changes.

Susan O'Connor (soconnor) (08/18/22 2:08 pm): Rollback: Rollback for approval to bring to curriculum again – based on Deans request

Key: 13

EXHIBIT B-5



BOARD OF TRUSTEES

RESOLUTION

- WHEREAS, Ocean County College desires to terminate its A.S. Degree in Psychosocial Rehabilitation; and
- WHEREAS, the A.S. Degree in Psychosocial Rehabilitation was a joint program with Rutgers University School of Health-Related Professions, with the degree awarded simultaneously by Ocean County College and Rutgers University; and
- WHEREAS, Rutgers University has decided to suspend its Psychosocial Rehabilitation Program for the foreseeable future and has ceased admitting new students; and
- WHEREAS, there are no Ocean County College students enrolled in this program at this time; and
- WHEREAS, Ocean County College will continue its articulation agreements with Rutgers University on other joint offerings, which are currently unaffected;
- NOW, THEREFORE, BE IT RESOLVED that the Ocean County College Board of Trustees, at its meeting on September 22, 2022, terminates its A.S. Degree in Psychosocial Rehabilitation.

Adopted: September 22, 2022

Stephan R. Leone Secretary

EXHIBIT B - 5

Program Change Request

Date Submitted: 06/21/22 10:25 am

Viewing: AS.PSYR: Psychosocial Rehabilitation,

Associate in Science

Last approved: 06/21/22 10:24 am

Last edit: 06/21/22 10:25 am

Changes proposed by: Susan O'Connor (soconnor)

Program Type

Associate of Science (AS)

Program Title

Psychosocial Rehabilitation, Associate in Science

Academic School

Nursing and Health Sciences

Effective Catalog

2022-2023

Year

Program Code

AS.PSYR

CIP Code

NA - NA

Program Description

in Workflow

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

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

Approval Path

- 1. 06/21/22 1:13 pm
 Mary Fennessy
 (mfennessy):
 Approved for NH
 Academic
 Administrator
- 2. 08/25/22 11:52 am Susan O'Connor (soconnor): Approved for NH Dean
- 3. 08/31/22 12:56 pm Susan O'Connor

(soconnor):
Approved for
Director of
Curriculum
4. 09/08/22 4:15 pm
Heather Sciarappa
(hsciarappa):
Approved for

Curriculum

Committee Chair

History

- 1. May 17, 2022 by Susan O'Connor (soconnor)
- 2. May 17, 2022 by Susan O'Connor (soconnor)
- 3. Jun 21, 2022 by Susan O'Connor (soconnor)

A joint Associate in Science Degree in Psychosocial Rehabilitation is offered in cooperation with the School of Health Professions (SHP) at Rutgers University. A degree is awarded simultaneously by Ocean County College and Rutgers.

Psychiatric rehabilitation practitioners provide services and supports to people with severe mental illnesses and other disabilities, empowering them to manage their illnesses and live rewarding and productive lives in the community. Psychosocial rehabilitation practitioners assist people in obtaining the skills, support and resources they will need to achieve success and satisfaction in their social, vocational, educational and independent living environments. The overall goals of this field are promotion of recovery, community integration, and improved quality of life for people coping with psychiatric disabilities. There are ample career opportunities for PSR practitioners in a variety of rehabilitation programs and community mental health settings. The knowledge and skills of the PSR practitioner qualify him/her to provide supportive counseling, case management services, and vocational rehabilitation interventions. The practitioner is also prepared to facilitate skills training groups as well as psycho-education and support groups.

To meet the demand for qualified professionals in this area, Rutgers' School of Health Professions (SHP) now offers a full psychiatric rehabilitation career ladder-from the associate's through the Ph.D. degree. This program will provide you with the basic skills and rehabilitation techniques to begin your career. As part of the program, you will complete two semesters of fieldwork at a community service agency.

Students will complete 30 pre-professional general education credits at Ocean County College, and 30 Psychosocial Rehabilitation credits through the Rutgers SHP Piscataway or Blackwood campus. This course of study can be completed on either a full or part-time basis.

Admission Requirements

To apply for admission to the Psychosocial Rehabilitation program at Rutgers, students must:

be a matriculated student at Ocean County College

be a current resident of Ocean County

show completion of all 30 general education credits required prior to the start of the professional course work.

(Note: general education credits must be completed at OCC)

hold a High School Diploma or equivalent

submit all Official College Transcripts to Rutgers

submit New Jersey College Basic Skills Test Scores and show evidence of the completion of all basic skills courses have a minimum GPA of 2.5 for college-level courses

Take and pass the OCC computer literacy test (students who do not pass this test must complete an additional Gen Ed Technology course)

Interested students must complete a Student Information Sheet and submit it to the Ocean County College School of Nursing & Health Sciences

Program Objectives

To train paraprofessionals and professionals to competently promote recovery and community integration for those with psychiatric disabilities.

To facilitate improving the quality of life for people coping with psychiatric disabilities across a wide variety of social service and community agency settings

To open career opportunities in the field for competently trained and qualified paraprofessionals.

Program	Objectives		paunampo)sittampaponttampinampinaman
NA			
Program (Goals		
	!	Program goals	
PG1	NA		1
Program	Learning		
Outcome	S		i
	:	Students who successfully complete this program will be able to:	

Students who successfully complete this program will be able to:

PLO1 NA

Learning Outcomes Display (show only)

PLO 1 Course Code **FirstSemester** ENGL 151 MATH 165 🗹 PSYC 172 🗷 SecondSemester ENGL 152 🗹 SOCI 181 🗹 **FirstSemester** ENGL 151 🗹 MATH 165 📝 PSYC 172 🗹 SecondSemester ENGL 152 🗹 SOCI 181 🗷

Required Qualifications

The following sequence is an example of how this degree can be completed. This sequence is based on satisfaction of all Basic Skills requirements and pre-requisites. An individual's sequence at OCC may vary. See your advisor for options and to monitor your progress. Students must satisfy specific requirements in order to be admitted to this program. This degree may take longer than two years to complete. All general education courses must be taken prior to starting clinical courses.

OCC Courses Taken as Prerequisites Prior to Admission at Rutgers (30 credits at OCC)

Plan of Study Grid

First Semester

Credit Hours

<u>ENGL 151</u>	English I	3	
MATH 165	College Algebra (Accelerated)	5	
<u>PSYC 172</u>	General Psychology	3	
<u>Humanitie</u>	<u>s Gen. Ed. Requirement</u>	3	
	Credit Hours	14	
Second Semester			
ENGL 152	English II	3	
SOCI 181	Introduction to Sociology	3	
Lab Science	ce Gen. Ed. Requirement ¹	4	
Course(s)	<u>from the Gen. Ed. Course List</u>	6	
	Credit Hours	16	
	Total Credit Hours	30	
1			

BIOL 114, BIOL 161, or BIOL 130 recommended

Career Studies Courses Taken at Rutgers (30 credits at Rutgers)

PSRT 1101intro. to Principles of Psychosocial Rehabilitation	3
PSRT 1102Communication Techniques for Interviewing & Counseling	3
PSRT 1103Intro. to Group Dynamics & Process	3
PSRT 1204Clinical Principles in Psychosocial Rehabilitation & Treatmen	it3
PSRT 1019Clinical Practicum in Psychosocial Rehabilitation I	6
PSRT 2121Community Resource Management	3
PSRT 2019Clinical Practicum in Psychosocial Rehabilitation II	6
PSRT 2231Emerging Topics in Psychosocial Rehabilitation & Treatment	3
Total Credit Hours	30
60 Credits Total	

Degree Requirements Breakdown

		
GCOM	Course Code & Title	Credits
	NA	NA
GHUM	Course Code & Title	Credits
	NA	NA
GSOC	Course Code & Title	Credits
	NA	NA

GSOC/ GHUM	Course Code & Title	Credits
	NA	NA
GMAT/ GSCI/ GTEC	Course Code & Title	Credits
	NA	NA
General Education	Course Code & Title	Credits
	NA	NA
Concentration	Course Code & Title	Credits
Courses	NA	NA
Elective Courses	Course Code & Title	Credits
	NA	NA

Board Approval

History of Board

approval dates

Sent through for hiatus on 5/17/22 for 22/23. Waiting to terminate until teach out is completed.

Formally deactivated and sent through BOT for state notification on 6/21/22.

Reviewer

Comments

Key: 53

EXHIBIT B-6

Course Change Request

New Course Proposal

Date Submitted: 07/22/22 1:09 pm

Viewing: BUSN 320: Procurement and Supplier

Relationship Management

Last edit: 08/05/22 10:24 am

Changes proposed by: Katherine Toy (ktoy)

Programs

referencing this

course

AS.ACS.SPLC: Advanced and Continuous Studies - Option Supply Chain, Logistics, and Maritime Port Mgmt.

Learning Outcomes
Display (show only)

In Workflow

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

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

Approval Path

- 1. 07/25/22 9:09 am
 Johanna Riemen
 (jriemen): Approved
 for BS Academic
 Administrator
- 2. 07/28/22 12:33 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 08/05/22 10:24 am Susan O'Connor (soconnor): Approved for

9/15/22, 4:00 PM

Director of Curriculum

4. 08/11/22 4:54 pm
Heather Sciarappa
(hsciarappa):
Approved for
Curriculum
Committee Chair

5. 09/08/22 6:05 pm Robert Marchie (rmarchie): Approved for Senate Chair

6. 09/09/22 1:04 pm
Joseph Konopka
(jkonopka):
Approved for Vice
President of
Academic Affairs

1. Course Information

Subject BUSN - Business

Course Number 320

School Business and Social Sciences

Course Title Procurement and Supplier Relationship Management

0

2. Hours

Semester Hours 3

Practicum

Lecture 3 Lab 0

3. Catalog Description

For display in the online catalog

This course is designed to provide a foundation in procurement and supplier management. Students will be exposed to the key principles of purchasing and supplier strategies. The role of purchasing in today's supply chain is re-evaluated to include traditional functions but also competencies gained from collaborating with suppliers. Integration of suppliers' resources at product development and operational levels will also be examined.

4. Requisites

Prerequisites

BUSN 271

Corequisites

None

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

This course is a third year business course for the 3+1 A.S. program in Advanced and Continuous Studies agreement with New Jersey City University (NJCU).

NJCU Justification:

This course is created for our new Supply Chain, Logistics and Maritime Port Management Program. Today's economy is fueled by business brought by globalization, empowered customers, technology, and deregulation of industries. With global business web weaves tightly with domestic and global companies and with busy ports in New York and New Jersey to handle cargos worldwide from North America, Europe, South America, Africa, and Asia, demand for professionals in supply chain management and maritime logistics has increased dramatically. The role played by Supply Chain, Logistics, and Maritime Port Management serves the key to gain competitive advantage for companies worldwide.

In addition, with Supply Chain Management (SCM) as one of the top 20 job tracks as listed in U. S. News & World Report 2014 as well as the job outlook for supply chain professionals is at a

22% rate faster than industry average until 2020, there is a shortage in demand for professionals in this area.

To address the increasing demand of professionals in the industry and to bridge the gap of the needs of professionals in the field, this course is proposed to be one of the foundation courses for our new Supply Chain, Logistics, and Maritime Port Management Program. In this course, students will explore key decision factors related to effective purchasing strategies in supply chains including buyer development and value maximization, e-procurement, legal aspects of purchasing, as well as price/cost analysis in purchasing decisions. Furthermore, models and analysis involved in supplier selection and evaluation will also be explored to equip students with analytical capabilities in managing suppliers in sourcing and outsourcing strategies.

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
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.

!	Add Item
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		1
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
:		Unable to determine status

If not transferable to any institution, explain:

This course has been created to align directly with New Jersey City University's (NJCU) course "MGMT 305:Procurement and Supplier Relationship Management ." Students in this course would be in a pipeline to transfer directly to NJCU upon completion at OCC.

10. Course Learning Outcomes

Learning Outcomes

İ	Students who successfully complete this course will be able to:
CLO1	Define the domain and topics involved in today's purchasing and supplier relationship management.
CLO2	Understand key decision factors in purchasing decisions and business strategy.
CLO3	Explain the legal aspects of purchasing in supply chains.
CLO4	Apply data analysis in various procurement arrangements and models.

~~			1
		Students who successfully complete this course will be able to:	
	CLO5	Analyze different supplier strategies to optimize pricing and performance/cost ratio.	
	CLO6	Evaluate decision factors critical to supplier selection and partnership.	
	CLO7	Identify key and emerging factors influencing effective and efficient procurement and supplier relationship management.	S
	CLO8	Compare and contrast global sourcing strategy.	:
	CLO9	Interpret basic data analysis critical to the planning and operations of a supply chain.	
	CLO10	Develop a plan to address performance measurement and risk/sustainability assessment.	

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	Introduction to Purchasing	Lecture	Assignments	CLO1-CLO3
	and Supply Chain	Case study	Project	!
•	₹	Presentation	Exams	₹ :
		Project	Class participation	i !
		Guest Speaker		
TO2	Purchasing Decisions and	Lecture	Assignments	CLO1-CLO4
	Business Strategy	Case study	Project	
		Presentation	Exams	:
	!	Project	Class participation	
		Guest Speaker		
TO3	Legal Aspect of Purchasing	Lecture	Assignments	CLO1-CLO3
		Case study	Project	}
		Presentation	Exams	
		Project	Class participation	
		Guest Speaker		
		•	,	

BUSN 320: Procurement and Supplier Relationship Management

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO4	Materials Management	Lecture	Assignments	CLO1-CLO4
101		Case study	Project	:
		Presentation	Exams	:
•		Project	Class participation	
		Guest Speaker		; ;
TO5	Purchasing Procedures	Lecture	Assignments	CLO1-CLO4, CLO7
105	and E-Procurement	Case study	Project	
		Presentation	Exams	: !
		Project	Class participation	
		Guest Speaker	:	
TO6	Exam l	Exam	Exam	CLO1-CLO10
TO7	Supplier Selection and	Lecture	Assignments	CLO1, CLO5-
107	Evaluation	Case study	Project	CLO7
		Presentation	Exams	1
		Project	Class participation	:
		Guest Speaker		!
TO8	Strategic Outsourcing	Lecture	Assignments	CLO4-CLO8
		Case study	Project	
	•	Presentation	Exams	:
	:	Project	Class participation	
		Guest Speaker		:
TO9	Global Sourcing Strategy	Lecture	Assignments	CLO2, CLO4,
•		Case study	Project	CLO5, CLO7,
		Presentation	Exams	CLO8
	:	Project	Class participation	· ·
	:	Guest Speaker		:
TO10	Managing Supply	Lecture	Assignments	CLO5- CLO8
	Partnership	Case study	Project	!
	:	Presentation	Exams	
		Project	Class participation	: : :
	:	Guest Speaker		

BUSN 320: Procurement and Supplier Relationship Management

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO11	Total Quality Management	Lecture	Assignments	CLO4, CLO7,
, 0	and Purchasing	Case study	Project	CLO9, CLO10
		Presentation	Exams	€
		Project	Class participation	1
		Guest Speaker		
TO12	Exam II	Exam	Exam	CLO1-CLO10
TO13	Price/Cost Analysis	Lecture	Assignments	CLO4, CLO5,
1013	; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	Case study	Project	CLO7, CLO9,
	1	Presentation	Exams	CLO10
	i	Project	Class participation	1
		Guest Speaker		} :
TO14	Project Presentation	Lecture	Assignments	CLO1-CLO10
		Case study	Project	
		Presentation	Exams	:
		Project	Class participation	
		Guest Speaker	· :	
TO15	Final Exam	Exam	Exam	CLO1-CLO10

12. Methods of Instruction

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

Lecture

Case study

Presentation

Project

Exam

Guest Speaker

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

3/10/22, 4.00 1 10

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 text: Benton, W. C. Jr. (2014). Purchasing and Supply Chain Management (3rd Edition).

New York: McGraw-Hill.

Supporting Bibliography: Books and articles that are currently available in or through the NJCU library are indicated with an asterisk.

Autry, C. W., Goldsby, T. J., & Bell, J. E. (2013). Global Macrotrends and Their Impact on Supply Chain Management (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

*Blanchard, D. (2010). Supply Chain Management Best Practices (2nd Edition). Hoboken, N. J.: John Wiley & Sons.

Bozarth, C. B. & Handfield, R. B. (2013). Introduction to Operations and Supply Chain Management (3rd Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Chopra, S. & Meindl, P. (2013). Supply Chain Management: Strategy, Planning, and Operation (5th Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Christopher, M. (2011). Logistics and Supply Chain Management (4th Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Frankel, R. (2014). The Definitive Guide to Supply Chain Best Practices: Comprehensive Lessons and Cases in Effective SCM (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Gibson, B. J., Hanna, J. B., Defee, C. C., & Chen, H. (2014). The Definitive Guide to Integrated Supply Chain Management: Optimize the Interaction between Supply Chain Processes, Tools, and Technologies (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Harland, C., Nassimbeni, G., & Schneller, E. (2013). The SAGE Handbook of Strategic Supply Management (1st Edition). SAGE Publications, Ltd.

Harrison, A. & Van Hoek, R. (2011). Logistics Management and Strategy: Competing through the Supply Chain (4th Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Jacobs, F. R., Berry, W. L., Whybark, D. C., & Vollmann, T. E. (2011) Manufacturing Planning and Control for Supply Chain Management (6th Edition). New York: McGraw-Hill.

Jacobs, F. R., & Chase, R. B. (2014) Operations and Supply Chain Management (14th Edition). New York: McGraw-Hill.

Keller, S. B. & Keller, B. C. (2014). The Definitive Guide to Warehousing: Managing the Storage and Handling of Materials and Products in the Supply Chain (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

*Kildow, B. A. (2011). A Supply Chain Management Guide to Business Continuity. New York: American Management Association.

Leon, S. M. (2014). Sustainability in Supply Chain Management: Casebook: Applications in SCM (1st Edition).

Munson, C. (2013). The Supply Chain Management Casebook: Comprehensive Coverage and Best Practices in SCM (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Myerson, P. (2012) Lean Supply Chain and Logistics Management (1st Edition). New York: McGraw-Hill.

Oliveira, A. & Gimeno, A. (2014) Managing Supply Chain Networks: Building Competitive Advantage in Fluid and Complex Environments. (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

*Panayides, P. M., & Soung D. (2012). Maritime Logistics: A Complete Guide to Effective Shipping and Port Management. London: Kogan Page.

*Panayides, P. M., & Soung D. (2012). Maritime Logistics: Contemporary Issues. Bingley, U. K.: Emerald.

Sanders, N. R. (2014). Big Data Driven Supply Chain Management: A Framework for Implementing Analytics and Turning Information into Intelligence (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Schniederjans, M. J. & LeGrand, S. B. (2013). Reinventing the Supply Chain Life Cycle – Student Workbook (1st Edition).

Simchi-Levi, D., Kaminsky, P., & Simchi-Levi, E. (2008) Designing and Managing the Supply Chain (1st Edition). New York: McGraw-Hill.

Waller, M. A. & Esper, T. L. (2014). The Definitive Guide to Inventory Management: Principles and Strategies for the Efficient Flow of Inventory across the Supply Chain (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

*Waters, C. D. J. (2011). Supply Chain Risk Management: Vulnerability and Resilience in Logistics (2nd Edition). London: Kogan Page.

Watson, M., Lewis, S., Cacioppi, P., & Jayaraman, J. (2013). Supply Chain Network Design: Applying Optimization and Analytics to the Global Supply Chain (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Technology Needs:

Existing or grant purchased technology will be utilized.

Human Resource

Needs (Presently

Employed vs. New

Faculty):

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

Facility Needs:

Existing or grant-provided facilities will be utilized.

Library needs:

Relevant Periodical Sources:

Harvard Business Review

Inside Supply Chain Management Magazine

International Journal of Supply Chain Management

International Journal of Supply Chain and Operations Resilience

Journal of Business Logistics

Journal of Operations Management

Journal of Operations and Supply Chain Management

Journal of Purchasing and Supply Management

Journal of Supply Chain Management

Journal of Supply Chain Management Systems

Journal of Transport and Supply Chain Management

*Journal of Transportation Law, Logistics & Policy

- *Logistics Management
- *Logistics and Transport Focus
- *Logistics and Transportation Review

Maritime Economics and Logistics

Maritime Policy and Management

*Risk Analysis: An International Journal

Supply Chain Forum: An International Journal

Supply Chain Management: An International Journal

- *Supply Chain Management Journal
- * Supply Chain Management Review

Transportation Research Part E: Logistics and Transportation Review

The Wall Street Journal

Relevant Online Sources:

American Production and Inventory Control Society (APICS): http://www.apics.org/

APICS Supply Chain Council (APICS SCC): https://supply-chain.org/

American Society of Transportation and Logistics (ASTL): http://cscmp.org/

Council of Supply Chain Management Professionals (CSCMP): http://cscmp.org/

Institute for Supply Chain Management (ISM): http://www.ism.ws/

International Society of Six Sigma Professionals (ISSSP): http://isssp.com/

International Warehouse Logistics Association (IWLA): http://www.iwla.com/

Lean Enterprise Institute (LEI): http://www.lean.org/

National Industrial Transportation League (NITL): http://www.nitl.org/

Reverse Logistics Association (RLA): http://www.reverselogisticstrends.com/

Warehousing, Education & Resource Council (WERC): http://www.werc.org/

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

9/15/22, 4:00 PM

1: Incomplete

R: Audit

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

Reviewer

Comments

Key: 2270

Preview Bridge

EXHIBIT B-7

Course Change Request

New Course Proposal

Date Submitted: 07/22/22 1:10 pm

Viewing: BUSN 321: Decision Intelligence in

Supply Chains

Last edit: 08/05/22 10:25 am

Changes proposed by: Katherine Toy (ktoy)

Programs

referencing this

course

AS.ACS.SPLC: Advanced and Continuous Studies - Option Supply Chain, Logistics, and Maritime Port Mgmt.

Learning Outcomes
Display (show only)

In Workflow

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

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

 Administrator
- 11. Colleague

Approval Path

- 1. 07/25/22 9:10 am
 Johanna Riemen
 (jriemen): Approved
 for BS Academic
 Administrator
- 2. 07/28/22 12:34 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 08/05/22 10:25 am Susan O'Connor (soconnor): Approved for

Director of Curriculum

4. 08/11/22 4:54 pm
Heather Sciarappa
(hsciarappa):
Approved for
Curriculum
Committee Chair

5. 09/08/22 6:04 pm Robert Marchie (rmarchie): Approved for Senate Chair

6. 09/09/22 1:05 pm Joseph Konopka (jkonopka): Approved for Vice President of Academic Affairs

1. Course Information

Subject BUSN - Business

Course Number 321

School Business and Social Sciences

Course Title Decision Intelligence in Supply Chains

2. Hours

Semester Hours 3

Lecture 3

Lab 0

Practicum 0

3. Catalog Description

For display in the online catalog

This course is designed to equip students with data gathering and analytical skills in the field of supply chain and logistics management. Students will explore what types of data are needed for a variety of issues, what analytical tools can be used, how to use PC-based spreadsheet programs and Bloomberg terminals to track trends and relations in data, how to visualize data at hand, and how to create forecast reports to make informed decisions on issues related to effective supply chain and logistics management.

4. Requisites

Prerequisites

CSIT 123 and MATH 156

Corequisites

none

5. Course Type

Course Fee Code

Course Type for

non-vocational (not approved for Perkins

Perkins Reporting

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 New Jersey City University (NJCU).

NJCU Justification:

This course is an advanced methodological course focusing on using real time data to analyzing issues in the fields of supply chain, logistics, and maritime port management. The main objective of the course is to help students develop analytical skills and capabilities of managing big data to optimize operational excellence of supply chains.

With big data analysis in supply chains being one of the fastest growing application areas for business intelligence, it is critical to expose students to real time data and to make sense out of data. In addition, recent advances in information technologies have also contributed to the rapid increase of data-driven decision making. Through the design of this course, students will be able to use various software packages as well as Bloomberg terminals to access trends, metrics, and relationships embedded in the data. Furthermore, a variety of analytical

frameworks and tools will be introduced to enhance students' decision making skills on analyzing big data.

The primary goal of this course is to familiarize students with strategic and tactical issues in achieving supply chain, logistics, and maritime port management operational excellence. This also serves as one of the advanced courses in our new Supply Chain, Logistics, and Maritime Port Management Program and an elective for all disciplines.

Supply Chain, Logistics, and Maritime Port Management is one of the top 20 job tracks as listed in U. S. News & World Report 2014. Additionally, the job outlook for Supply Chain, Logistics, and Maritime Port Management Professionals is at a 22% rate growing faster than industry average through 2020. There is a shortage of trained professionals in this area and an opportunity for our students to meet the demand.

Demand in the Supply Chain, Logistics, and Maritime Port Management has increased dramatically due to the fact that it is a 6 billion dollar industry in New Jersey alone. Furthermore, none of the school in New Jersey offers Maritime Port Management Program while Old Dominion University claims to be the only university offers such degree East of Mississippi River. Few schools offering any emphasis on Maritime Port Management gives New Jersey City University a unique competitive advantage.

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

	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

l/15/22, 4:01 PM	BOSN 321, Decision knowgen	oo at coppiy ondino
Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
		Unable to determine status
Kean University		1
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		i
Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
		Unable to determine status
		•

If not transferable to any institution, explain:

This course has been created to align directly with New Jersey City University's (NJCU) course "MGMT 350: Decision Intelligence in Supply Chains." Students in this course would be in a pipeline to transfer directly to NJCU upon completion at OCC.

10. Course Learning Outcomes

Learning Outcomes

	1
	Students who successfully complete this course will be able to:
CLO1	Define the role of big data in strategic management process of supply chains.
CLO2	Identify a vision and mission for analytics actionable intelligence.
CLO3	Discuss goals of and issues related to a supply chain and assess the impact of supply chain decisions on key performance metrics.
CLO4	Examine and differentiate data for decision making to improve performance measures.
CLO5	Select data analysis modes to manage supplier relationship.
CLO6	Develop decision models to optimize internal supply chain processes.
CLO7	Generate data to analyze customer relationship strategy.
CLO8	Synthesize real time data to address issues in supply chains via Bloomberg terminals.
CLO9	Justify data analyses by utilizing various software packages to create forecasting frameworks.
CLO10	Interpret analytical results critical to the planning and operations of a supply chain.
CLO11	Develop a plan to address performance measurement and risk/sustainability assessment.

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	Introduction to Analytics	Lecture	Assignment	CLO1 and CLO2
	and Big Data and Their	Case study	Exams	
	Application in Supply	Bloomberg Terminal	Project	:
	Chains	operation	Class participation	:
•		Presentation		
		Project		

BUSN 321: Decision Intelligence in Supply Chains

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO2	Supply Chain Strategy:	Lecture	Assignment	CLO1-CLO4
102	Goals, Issues, and	Case study	Exams	
	Performance Metrics in	Bloomberg Terminal	Project	
	Supply Chains	operation	Class participation	:
	Suppry Strawn	Presentation	} 	1
		Project		
тоз	Data via Bloomberg	Lecture	Assignment	CLO2-CLO5, CLO8
	Terminals	Case study	Exams	
	:	Bloomberg Terminal	Project	
	•	operation	Class participation	• •
•		Presentation		•
		Project	:	
TO4	Demand Forecasting	Lecture	Assignment	CLO3-CLO6, CLO8
		Case study	Exams	
		Bloomberg Terminal	Project	:
		operation	Class participation	
	1	Presentation		
		Project		š
TO5	Exam I	Exam	Exam	CLO1-CLO11
TO6	Supplier Analytics	Lecture	Assignment	CLO3-CLO5,
		Case study	Exams	CLO8-CLO10
		Bloomberg Terminal	Project	
	!	operation	Class participation	:
		Presentation		:
	:	Project		
TO7	Global Supply Chain	Lecture	Assignment	CLO4, CLO6-
	Analytics	Case study	Exams	CLO10
	:	Bloomberg Terminal	Project	
		operation	Class participation	<u> </u>
		Presentation	:	:
		Project		1

BUSN 321: Decision Intelligence in Supply Chains

	Major Themes/ Skills	Assignments (Recommended but not	Assessments (Recommended but not	Course Learning
	•	limited to)	limited to)	Outcome(s)
TO8	Project Presentation on	Lecture	Assignment	CLO4, CLO6-
	Supplier Analytics	Case study	Exams	CLO10
		Bloomberg Terminal	Project	
		operation	Class participation	:
		Presentation	:	
		Project		
TO9	Inventory Management	Lecture	Assignment	CLO3, CLO5,
		Case study	Exams	CLO6, CLO9,
		Bloomberg Terminal	Project	CLO10
		operation	Class participation	
		Presentation	•	i
		Project	!	
TO10	Customer Relationship	Lecture	Assignment	CLO3, CLO4,
	Management	Case study	Exams	CLO6, CLO7,
		Bloomberg Terminal	Project	CLO9, CLO10
		operation	Class participation	: :
		Presentation		i
		Project		
TO11	Analysis of Performance	Lecture	Assignment	CLO3, CLO4,
	Metrics in Supply Chains	Case study	Exams	CLO8-CLO10
	•	Bloomberg Terminal	Project	· :
		operation	Class participation	5 - -
	1	Presentation	• •	:
	:	Project		
TO12	Exam II	Exam	Exam	CLO1-CLO11
TO13	Data Forecasting	Lecture	Assignment	CLO3, CLO4,
	Frameworks	Case study	Exams	CLO8-CLO11
		Bloomberg Terminal	Project	
	:	operation	Class participation	;
	:	Presentation	:	: : :
	:	Project	:	

BUSN 321: Decision Intelligence in Supply Chains

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO14	Project Presentation	Lecture	Assignment	CLO1-CLO11
	:	Case study	Exams	:
		Bloomberg Terminal	Project	
	:	operation	Class participation	
	:	Presentation		
		Project		
TO15	Final Exam	Exam	Exam	CLO1-CLO11

12. Methods of Instruction

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

utilized?

Lecture

Case study

Bloomberg Terminal operation

Presentation

Project

Exam

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 text:

Chopra, S., and Meihdl P. (2013). Supply Chain Management: Strategy, Planning, and Operation (5th Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Additional Required Readings:

Carter, K. B., Farmer, D. & Siegel, C. (2014). Actionable Intelligence: A Guide to Delivering Business Results with Big Data Fast (1st Edition). Hoboken, N. J.: John Wiley & Sons.

Supporting Bibliography: Books and articles that are currently available in or through the NJCU library are indicated with an asterisk.

Autry, C. W., Goldsby, T. J., & Bell, J. E. (2013). Global Macrotrends and Their Impact on Supply Chain Management (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

*Blanchard, D. (2010). Supply Chain Management Best Practices (2nd Edition). Hoboken, N. J.: John Wiley & Sons.

Bozarth, C. B. & Handfield, R. B. (2013). Introduction to Operations and Supply Chain Management (3rd Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Christopher, M. (2011). Logistics and Supply Chain Management (4th Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Clark, R. M. (2013). Intelligence Analysis: A Target-Centric Approach. (4th Edition). SAGE Publications, Ltd.

Feigin G. (2011). Supply Chain Planning and Analytics: The Right Product to the Right Place At the Right Time. New York: Business Expert Press.

Fisher M. and Raman A. (2008). The New Science of Retailing: How Analytics are Transforming the Supply Chain and Improvising Performance. Boston, Massachusetts: Harvard Business Press.

Frankel, R. (2014). The Definitive Guide to Supply Chain Best Practices: Comprehensive Lessons and Cases in Effective SCM (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Gibson, B. J., Hanna, J. B., Defee, C. C., & Chen, H. (2014). The Definitive Guide to Integrated Supply Chain Management: Optimize the Interaction between Supply Chain Processes, Tools, and Technologies (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Handfield R. (2006). Supply Market Intelligence: A Managerial Handbook for Building Sourcing Strategies. New York: Taylor and Francis Group, Auerbach Publications.

Harland, C., Nassimbeni, G., & Schneller, E. (2013). The SAGE Handbook of Strategic Supply Management (1st Edition). SAGE Publications, Ltd.

Harrison, A. & Van Hoek, R. (2011). Logistics Management and Strategy: Competing through the Supply Chain (4th Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Howson, C. (2007). Successful Business Intelligence: Secrets to Making BI a Killer App (). New York: McGraw-Hill.

Jacobs, F. R., Berry, W. L., Whybark, D. C., & Vollmann, T. E. (2011) Manufacturing Planning and Control for Supply Chain Management (6th Edition). New York: McGraw-Hill.

Jacobs, F. R., & Chase, R. B. (2014) Operations and Supply Chain Management (14th Edition). New York: McGraw-Hill.

Keller, S. B. & Keller, B. C. (2014). The Definitive Guide to Warehousing: Managing the Storage and Handling of Materials and Products in the Supply Chain (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

*Kildow, B. A. (2011). A Supply Chain Management Guide to Business Continuity. New York: American Management Association.

Leon, S. M. (2014). Sustainability in Supply Chain Management: Casebook: Applications in SCM (1st Edition).

Munson, C. (2013). The Supply Chain Management Casebook: Comprehensive Coverage and Best Practices in SCM (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Myerson, P. (2012) Lean Supply Chain and Logistics Management (1st Edition). New York: McGraw-Hill.

Naval Postgraduate School (2014). Transforming Data and Metadata into Actionable Intelligence and Information Within the Maritime Domain (1st Edition).

Oliveira, A. & Gimeno, A. (2014) Managing Supply Chain Networks: Building Competitive Advantage in Fluid and Complex Environments. (1st Edition). Upper Saddle River, NJ: Pearson

Prentice Hall.

Sanders, N. R. (2014). Big Data Driven Supply Chain Management: A Framework for Implementing Analytics and Turning Information into Intelligence (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Schniederjans, M. J. & LeGrand, S. B. (2013). Reinventing the Supply Chain Life Cycle – Student Workbook (1st Edition).

Schneier, B. (2015). Data and Goliath: The Hidden Battles to Collect Your Data and Control Your World (1st Edition). New York & London: W. W. Norton & Company.

Simchi-Levi, D., Kaminsky, P., & Simchi-Levi, E. (2008) Designing and Managing the Supply Chain (1st Edition). New York: McGraw-Hill.

Waller, M. A. & Esper, T. L. (2014). The Definitive Guide to Inventory Management: Principles and Strategies for the Efficient Flow of Inventory across the Supply Chain (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

*Waters, C. D. J. (2011). Supply Chain Risk Management: Vulnerability and Resilience in Logistics (2nd Edition). London: Kogan Page.

Watson, M., Lewis, S., Cacloppi, P., & Jayaraman, J. (2013). Supply Chain Network Design: Applying Optimization and Analytics to the Global Supply Chain (1st Edition). Upper Saddle River, NJ: Pearson Prentice Hall.

Technology Needs:

Existing or grant purchased technology will be utilized.

Human Resource

Needs (Presently

Employed vs. New

Faculty):

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

Facility Needs:

Existing or grant-provided facilities will be utilized.

Library needs:

Relevant Periodical Sources:

Harvard Business Review

Inside Supply Chain Management Magazine

International Journal of Supply Chain Management

International Journal of Supply Chain and Operations Resilience

Journal of Decision Sciences

Journal of Operations and Supply Chain Management

Journal of Purchasing and Supply Management

Journal of Supply Chain Management

Journal of Supply Chain Management Systems

Journal of Transport and Supply Chain Management

*Logistics Management

Supply Chain Forum: An International Journal

Supply Chain Management: An International Journal

- *Supply Chain Management Journal
- * Supply Chain Management Review

The Wall Street Journal

Relevant Online Sources:

American Production and Inventory Control Society (APICS):

http://www.apics.org/

APICS Supply Chain Council (APICS SCC): https://supply-chain.org/

American Society of Transportation and Logistics (ASTL): http://cscmp.org/

Bloomberg Business: www.bloomberg.com

Council of Supply Chain Management Professionals (CSCMP):

http://cscmp.org/

Institute for Supply Chain Management (ISM): http://www.ism.ws/

International Society of Six Sigma Professionals (ISSSP): http://isssp.com/

International Warehouse Logistics Association (IWLA):

http://www.iwla.com/

Lean Enterprise Institute (LEI): http://www.lean.org/

National Industrial Transportation League (NITL): http://www.nitl.org/

Reverse Logistics Association (RLA):

http://www.reverselogisticstrends.com/

Warehousing, Education & Resource Council (WERC):

http://www.werc.org/

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

9/15/22, 4:01 PM

BUSN 321: Decision Intelligence in Supply Chains

EXHIBIT B - 7

I: Incomplete

R: Audit

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

Reviewer

Comments

Key: 2271

Preview Bridge

EXHIBIT B-8

Course Change Request

New Course Proposal

Date Submitted: 07/22/22 1:07 pm

Viewing: BUSN 390: Fundamentals of Data

Visualization for Business Analytics and Data Science

Last edit: 08/05/22 10:18 am

Changes proposed by: Katherine Toy (ktoy)

Programs

referencing this

course

AS.ACS.DATA: Advanced and Continuous Studies - Option in Business
Analytics and Data Science

Learning Outcomes
Display (show only)

In Workflow

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

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

Approval Path

- 1. 07/25/22 9:08 am
 Johanna Riemen
 (jriemen): Approved
 for BS Academic
 Administrator
- 2. 07/28/22 12:31 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 08/05/22 10:18 am Susan O'Connor (soconnor): Approved for

Director of Curriculum

4. 08/11/22 4:54 pm
Heather Sciarappa
(hsciarappa):
Approved for
Curriculum
Committee Chair

5. 09/08/22 6:04 pm Robert Marchie (rmarchie): Approved for Senate Chair

6. 09/09/22 1:05 pm
Joseph Konopka
(jkonopka):
Approved for Vice
President of
Academic Affairs

1. Course Information

Subject BUSN - Business

Course Number 390

School Business and Social Sciences

Course Title Fundamentals of Data Visualization for Business Analytics and Data

Science

2. Hours

Semester Hours 3

Lecture 3

Lab 0

Practicum 0

3. Catalog Description

For display in the

online catalog

This course will provide students with the techniques and state-of-the-art practices in data visualization and communication. The course will explore a wide range of techniques from simple charts to multidimensional analysis using dashboards. The course will help students visually present recommendations for better data driven decision making.

4. Requisites

Prerequisites

None

Corequisites

None

5. Course Type

Course Fee Code

Course Type for

non-vocational (not approved for Perkins

Perkins Reporting

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 New Jersey City University (NJCU).

NJCU Justification:

Visualizing data is important in finding various patterns and relationships in the data. Data visualization is a critical step in exploratory data analysis (EDA), which is the first step in analyzing a data driven solutions to a business problem. Data visualization also helps in intuitively conveying the relationships in the data and providing visual support for the questions that need to be answered based on the data, to a non-technical audience. Thus, data visualization is a critical part of business analytics and data science. This course equips the students with the skills required to represent data visually and effectively convey information to an audience.

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

4/13

9/15/22, 4:01 PM

EXHIBIT 8 - 8

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

Capyrian Cayyrt		
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		1
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

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

If not transferable to any institution, explain:

This course has been created to align directly with New Jersey City University's (NJCU) course "FINC 403: Fundamentals of Data Visualization for Business Analytics and Data Science." Students in this course would be in a pipeline to transfer directly to NJCU upon completion at OCC.

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Describe the key concepts in data visualization and communication, key characteristics of visualization methods and tools for creating visualizations.
CLO2	Discuss the role of data visualization in business analytics.
CLO3	Identify appropriate data visualization.
CLO4	Define parameters, colors, sizes, formats, fonts, and places.
CLO5	Calculate sensitivities for various parameters.
CLO6	Construct efficient and effective data visualizations.
CLO7	Compare strengths and weaknesses of different types of visualizations.
CLO8	Interpret visual outputs.
CLO9	Evaluate the effectiveness of visual techniques and tools.
CLO10	Recommend effective and efficient visualization methods and tools.

11. Topical Outline

(include as many themes/skills as needed)

Major Themes/ Skills		Assignments	1	Assessments	Course
•		(Recommended but not	1	(Recommended but not	Learning
	į	limited to)	1	limited to)	Outcome(s)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO1	Introduction	Lecture	Assignments	CLO1, CLO2,
, 0	From graphics to	Assignment	Project	CLO3
	visualization;	Project	Exams	
	Visual perception;		Attendance	
	Business analytics and visualization			
TO2	Visualization tools	Lecture	Assignments	CLO1, CLO9,
	Software tools:	Assignment	Project	CLO10
	R/Python/Tableau;	Project	Exams	
	Online tools		Attendance	
тоз	Data and graphic	Lecture	Assignments	CLO1, CLO3-
	representation	Assignment	Project	CLO7, CLO10
	Continuous and discrete	Project	Exams	:
	data; Types of tables;		Attendance	:
	Types of charts; Types of maps			
TO4	Visualization pipeline	Lecture	Assignments	CLO1, CLO3,
101	Preparation; Analysis;	Assignment	Project	CLO4, CLO7
	Deployment	Project	Exams	:
			Attendance	:
TO5	Scalar visualization	Lecture	Assignments	CLO1-CLO7,
	Color mapping;	Assignment	Project	CLO10
	Designing effective color	Project	Exams	:
	maps; Contouring;		Attendance	
	Height plots			
TO6	Vector visualization	Lecture	Assignments	CLO1-CLO7,
	Divergence and velocity;	Assignment	Project	CLO10
	Vector color coding;	Project	Exams	
	Displacement plots;	:	Attendance	:
	Texture-based vector			•
	visualization	1		
TO7	Midterm Exam	Exam	Exam	CLO1-CLO10

BUSN 390: Fundamentals of Data Visualization for Business Analytics and Data Science

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO8	Tensor visualization	Lecture	Assignments	CLO1-CLO7,
	Principal component	Assignment	Project	CLO10
	analysis (PCA);	Project	Exams	i.
	Visualizing components;		Attendance	
	Visualizing vector/scalar			
	PCA information;			
TO9	Domain-Modeling	Lecture	Assignments	CLO1-CLO5,
	technique	Assignment	Project	CLO7, CLO10
	Cutting; Selection;	Project	Exams	
	Grid construction from		Attendance	∤
	scattered	! !		
TO10	Image visualization	Lecture	Assignments	CLO6-CLO10
	Image processing and	Assignment	Project	
	visualization;	Project	Exams	(I
	Shape representation and		Attendance	
	analysis;			
	Volume visualization			
	Image order techniques;		1	1
	Object-order techniques;			
	Volume rendering vs.			
	geometric rendering			
TO11	Information visualization	Lecture	Assignments	CLO6-CLO10
	Technical comparison:	Assignment	Project	
	Infovis vs. Scivis;	Project	Exams	
	Visualization of relations;		Attendance	:
	Multivariate data) :		:
	visualization;			:
	Text visualization		# *	:
TO12	Designing visual	Lecture	Assignments	CLO6-CLO10
	interactions	Assignment	Project	
	The process of design;	Project	Exams	v v
	Visual interaction design		Attendance	

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO13	Creating interactive visualizations Creating codes; Creating plots; Composite plots; Interactive plots	Lecture Assignment Project	Assignments Project Exams Attendance	CLO6-CLO10
TO14	Creating animated visualizations Determining the need for animation; Designing good animations; Implementing animations using software tools;	Lecture Assignment Project	Assignments Project Exams Attendance	CLO6-CLO10
TO15	Project Presentations	Presentation	Presentation	CLO1-CLO10
TO16	Final Exam	Exam	Exam	CLO1-CLO10

12. Methods of Instruction

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

Lecture, assignment, project which requires written submissions and oral presentations by small groups of students working in teams.

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 text:

Murray, Scott (2017). Interactive Data Visualization for the Web, 2nd Edition, O'Reilly Media Telia, A. (2014), Data Visualization: Principles and Practices, 2nd Edition. CRC Press

Supporting Bibliography:

* denotes publications available in the NJCU library

Abu-Mostafa, Y. S., Magdon-Ismail, M., & Lin, H. T. (2012). Learning from data. AMLBook. Andrienko, G., Andrienko, N., Demsar, U., Dransch, D., Dykes, J., Fabrikant, S. I., Tominski, C. (2010). Space, time and visual analytics. International Journal of Geographical Information Science, 24(10), 1577–1600.

Cannon, J. (2014). Python Programming for Beginners: An Introduction to the Python Computer Language and Computer Programming. CreateSpace Independent Publishing Platform.

Card, S. K., Mackinlay, J. D., & Shneiderman, B. (1999). Readings in information visualization: using vision to think. Morgan Kaufmann.

Davenport, T. (2014). Big data at work: dispelling the myths, uncovering the opportunities. Harvard Business Review Press.

Friedman, J., Hastie, T., & Tibshirani, R. (2001). The elements of statistical learning (Vol. 1). Springer, Berlin: Springer series in statistics.

Garreta, R., & Moncecchi, G. (2013). Learning scikit-learn: Machine Learning in Python. Packt Publishing Ltd.

Heer, J., & Agrawala, M. (2008). Design considerations for collaborative visual analytics. Information Visualization, 7(1), 49–62. http://doi.org/10.1057/palgrave.ivs.9500167 Lee, E. (2014). Designing Service Coverage and Measuring Accessibility and Serviceability of Rural and Small Urban Ambulance Systems. Systems, 2(1), 34–53.

http://doi.org/10.3390/systems2010034

Leskovec, J., Rajaraman, A., & Uliman, J. D. (2014). Mining of massive datasets. Cambridge University Press.

MacKay, D. J. (2003). Information theory, inference and learning algorithms. Cambridge university press.

*Murray, Scott (2017). Interactive Data Visualization for the Web, 2nd Edition, O'Reilly Media Myatt, J.G. and Johnson, P.W. (2011), Making Sense of Data II: A Practical Guide to Data Visualization, Advance Data Mining Methods, and Applications, 1st Edition, Wiley: Hoboken, NJ Myatt, J.G. and Johnson, P.W. (2011), Making Sense of Data III: A Practical Guide to Designing Interactive Data Visualization, 1st Edition, Wiley: Hoboken, NJ

Nagwani, N. K. (2015). Summarizing large text collection using topic modeling and clustering based on MapReduce framework. Journal of Big Data, 2(1), 1–18.

http://doi.org/10.1186/s40537-015-0020-5

Najafabadi, M. M., Villanustre, F., Khoshgoftaar, T. M., Seliya, N., Wald, R., & Muharemagic, E. (2015). Deep learning applications and challenges in big data analytics. Journal of Big Data, 2(1), 1. http://doi.org/10.1186/s40537-014-0007-7

O'Donovan, P., Leahy, K., Bruton, K., & O'Sullivan, D. T. J. (2015). An industrial big data pipeline for data-driven analytics maintenance applications in large-scale smart manufacturing facilities. Journal of Big Data, 2(1), 25. http://doi.org/10.1186/s40537-015-0034-z

*Provost, F., Fawcett, T. (2013). Data Science for Business: What you need to know about data mining and data-analytic thinking. O'Reilly press.

Russell, M. A. (2013). Mining the Social Web: Data Mining Facebook, Twitter, LinkedIn, Google+, GitHub, and More. "O'Reilly Media, Inc.".

Segaran, Toby. Programming collective intelligence: building smart web 2.0 applications. "O'Reilly Media, Inc.", 2007.

Steiner, C., & Dixon, W. (2012). Automate this: How algorithms came to rule our world. New York: Portfolio/Penguin.

*Tufte, E. R. (1990). Envisioning Information. Cheshire, CT: Graphics Press

Tufte, E. R. (2001). The Visual Display of Quantitative Information. Cheshire, CT: Graphics Press *Tufte, E. R., & Weise Moeller, E. (1997). Visual explanations: images and quantities, evidence and narrative (Vol. 36). Cheshire, CT: Graphics Press.

Wasserman, L. (2013). All of statistics: a concise course in statistical inference. Springer Science & Business Media.

Witten, I. H., & Frank, E. (2005). Data Mining: Practical machine learning tools and techniques. Morgan Kaufmann.

Technology Needs:

Existing or grant purchased technology will be utilized.

Human Resource

Needs (Presently

Employed vs. New

Faculty):

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

Facility Needs:

Existing or grant-provided facilities will be utilized.

Library needs:

Relevant Periodical Sources:

Journal of Visualization, Springer

Journal of Big Data, Springer

Information Visualization, SAGE

Multi-dimensional Modeling, Analysis and Visualization, Elsevier

International Journal of Data Science and Analytics, Springer

International Journal of Data Science, Inderscience

Journal of Data Science, Columbia University, NY

The Journal of Finance and Data Science, Advancing Research Evolving Science

Bid Data Research, Elsevier

Relevant Online Materials:

IBM Watson Analytics (2015). http://www.ibm.com/analytics/us/en/business/
IBM (2015). http://www.ibm.com/big-data/us/en/?lnk=fkt-bgda-usen
Statistical Discovery (2015). http://www.jmp.com/en_us/software/jmp.html
SAS Business Analytics (2015). http://www.sas.com/en_us/software/business-analytics.html
A 5-step Guide to Data Visualization (2015). https://www.elsevier.com/connect/a-5-step-to-data-visualization

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
1: Incomplete
R: Audit
For more detailed information on the Ocean County College grading system, please see Policy #5154.
Reviewer
Comments

Key: 2268

Preview Bridge

EXHIBIT B-9

Course Change Request

New Course Proposal

Date Submitted: 07/22/22 1:08 pm

Viewing: BUSN 391: Basics of Data Collection, Data Warehousing, and Data Cleansing

Last edit: 08/05/22 10:21 am

Changes proposed by: Katherine Toy (ktoy)

Programs referencing this course

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

Analytics and Data Science

Learning Outcomes
Display (show only)

In Workflow

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

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

 Administrator
- 11. Colleague

Approval Path

- 07/25/22 9:08 am
 Johanna Riemen
 (jriemen): Approved
 for BS Academic
 Administrator
- 2. 07/28/22 12:33 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 08/05/22 10:21 am Susan O'Connor (soconnor): Approved for

Director of Curriculum

4. 08/11/22 4:54 pm Heather Sciarappa

(hsciarappa):

Approved for

Curriculum

Committee Chair

5. 09/08/22 6:04 pm

Robert Marchie

(rmarchie):

Approved for

Senate Chair

6. 09/09/22 1:05 pm

Joseph Konopka

(jkonopka):

Approved for Vice

President of

Academic Affairs

1. Course Information

Subject BUSN - Business

Course Number 391

School Business and Social Sciences

Course Title Basics of Data Collection, Data Warehousing, and Data Cleansing

2. Hours

Semester Hours 3

Lecture 3

Lab 0

Practicum 0

3. Catalog Description

For display in the online catalog

This course will provide students with an overview of data management process, including data format and structure, collection, storage, and cleansing. Students will be exposed to various techniques required for collecting data from different sources, storing and accessing data, and cleansing data.

4. Requisites

Prerequisites

None

Corequisites

None

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

This course is a third year business course for the 3+1 A.S. program in Advanced and Continuous Studies agreement with New Jersey City University (NJCU).

NICU Justification:

Data management is always one of the most important tasks for enterprises. With the development of data science field, the requirements on data management have been increased. To provide a useful data analytical model, data scientists rely on obtaining useful data, efficiently storing and accessing data, and improving the quality of data by dealing with data errors. This course will provide the knowledge and techniques on data pre-processing to ensure data quality and reliability. Moreover, the course will provide an overview on big data storage and analysis. This course will provide the in-depth understanding required by employers seeking personnel with database management skills.

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
		Unable to determine status

If not transferable to any institution, explain:

This course has been created to align directly with New Jersey City University's (NJCU) course "FINC 415: Basics of Data Collection, Data Warehousing, and Data Cleansing." Students in this course would be in a pipeline to transfer directly to NJCU upon completion at OCC.

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Describe different data formats, different sources for obtaining data, and different tools and techniques in data collection, cleansing, integration and storage.
CLO2	Construct the basic syntax and terms use in data management and relational database.
CLO3	Discuss process of managing data from collecting to cleaning to storing and warehousing data.
CLO4	Distinguish different types of data and data storages.
CLO5	Define data collection, data cleansing, data warehousing, relational database, data transformation, data integration.
CLO6	Construct clean and normalized data, relational database.
CLO7	Identify errors and error sources in datasets.
CLO8	Apply tools for collecting, processing, manipulating and storing data.
CLO9	Compare different data collection sources and different data cleaning processes.
CLO10	Evaluate the raw data, processed data, and database design.

11. Topical Outline

(include as many themes/skills as needed)

Major Themes/ Skills	Assignments	Assessments	Course
•	(Recommended but not	(Recommended but not	Learning
	limited to)	limited to)	Outcome(s)

BUSN 391: Basics of Data Collection, Data Warehousing, and Data Cleansing

9/10/22, 4:02	1 IVI		1	1
	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO1	Introduction to data	Lecture	Exercises	CLO1-CLO4
101	management	Exercises	Assignments	
	Data-information-	Assignments	Project	
	knowledge continuum;	Project	Exams	
	Data management			
	process;			
	Data formats (.csv,.txt,			\
	XML, JSON)			
TO2	Data collection	Lecture	Exercises	CLO1-CLO3,
	Data collection process;	Exercises	Assignments	CLO5, CLO8
	Collecting observational	Assignments	Project	
	data	Project	Exams	*
TO3	Data collection	Lecture	Exercises	CLO1-CLO3,
	Collecting data from web	Exercises	Assignments	CLO5, CLO8
	(website, links on web);	Assignments	Project	
	Introduction to web API	Project	Exams	
	(yelp, twitter, world bank)			
TO4	Data cleansing	Lecture	Exercises	CLO1-CLO5,
	Data types; Data quality	Exercises	Assignments	CLO7, CLO8
	problems and errors;	Assignments	Project	\$
•	Data transformation	Project	Exams	
TO5	Data cleansing	Lecture	Exercises	CLO1-CLO10
	From row data to	Exercises	Assignments	•
	technically correct data;	Assignments	Project	
	From technically correct	Project	Exams	
	data to consistent data;		,	!
	Data cleansing scripts		; } !	
TO6	Data cleansing	Lecture	Exercises	CLO1-CLO5,
	Introduction to text data	Exercises	Assignments	CLO7, CLO8
	and text data cleansing;	Assignments	Project	<u> </u>
	Parsing;	Project	Exams	
	Text data transformation		; ; ;	:
TO7	Midterm Exam	Exam	Exam	CLO1-CLO10

BUSN 391: Basics of Data Collection, Data Warehousing, and Data Cleansing

9/10/22, 4.02	· ·		· · · · · · · · · · · · · · · · · · ·	4
	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO8	Data storage	Lecture	Exercises	CLO1-CLO4
100	Introduction to database	Exercises	Assignments	
	server; Introduction to	Assignments	Project	
	relational and non-	Project	Exams	\$
	relational database;	170,000		
	Introduction to big data			
	storage and distributed	:		
	system	!		
				CLO1-CLO6, CLO8
TO9	Relational database	Lecture	Exercises	CLO1-CLO0, CLO0
	Introduction to SQL;	Exercises	Assignments	
	Obtain data from	Assignments	Project	
	relational database –a	Project	Exams	,
	single table			
TO10	Relational database	Lecture	Exercises	CLO1-CLO6, CLO8
	Obtain data from	Exercises	Assignments	
	relational database –	Assignments	Project	; ;
	multiple tables;	Project	Exams	
	Use of subquery			
TO11	Relational database	Lecture	Exercises	CLO1-CLO10
1011	Relational database	Exercises	Assignments	
	structure creation and	Assignments	Project	
	modification; Relational	Project	Exams	•
	database design	Troject		
	database design			0:04 0:00 0:00
TO12	MongoDB	Lecture	Exercises	CLO1-CLO6, CLO8
	Brief overview of Linux	Exercises	Assignments	:
	operating system;	Assignments	Project	i i
	Introduction to MongoDB	Project	Exams	
	CRUD (create, reading,	: !		:
	update, delete) in	:	:	
	MongoDB	:	!	
TO13	MongoDB	Lecture	Exercises	CLO1-CLO10
	Aggregation Pipelines;	Exercises	Assignments	
	MongoDB API connector	Assignments	Project	
		Project	Exams	
	i		1	ı

BUSN 391: Basics of Data Collection, Data Warehousing, and Data Cleansing

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO14	Introduction to Big data analysis and data warehousing Introduction to big data concepts; Data warehouse concepts and architectures	Lecture Exercises Assignments Project	Exercises Assignments Project Exams	CLO1-CLO10
TO15	Introduction to Big data analysis tools Introduction to distributed system; Introduction to Hadoop, and map-reduce process	Lecture Exercises Assignments Project	Exercises Assignments Project Exams	CLO1-CLO10
TO16	Final Exam	Exam	Exam	CLO1-CLO10

12. Methods of Instruction

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

Lecture, exercises, assignments, exams and project

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 Text(s)There is no required textbook for this course. All reading materials will be distributed electronically.

Supporting Bibliography

(* denotes publications available in the NJCU library. Citations are in APA format.)

Batini, C., Catarci, T., & Scannapiceco, M. (2004). A survey of data quality issues in cooperative information systems. In Pre-conference ER tutorial.

Bodle, R. (2011). Regimes of sharing: Open APIs, interoperability, and Facebook. Information, Communication & Society, 14(3), 320-337.

Chang, F., Dean, J., Ghemawat, S., Hsieh, W. C., Wallach, D. A., Burrows, M., ... & Gruber, R. E. (2006, November). A distributed storage system for structured data. In Proceedings OSDI (pp. 6-8).

*Dasu, T., & Johnson, T. (2003). Exploratory data mining and data cleaning(Vol. 479). John Wiley & Sons.

*De Waal, T., Pannekoek, J., & Scholtus, S. (2011). Handbook of statistical data editing and imputation(Vol. 563). John Wiley & Sons.

Driscoll, K., & Walker, S. (2014). Big data, big questions | working within a black box: Transparency in the collection and production of big twitter data. International Journal of Communication, 8, 20.

*Elmasri, R., & Navathe, S. (2010). Fundamentals of database systems. Addison-Wesley Publishing Company.

Han, J., Haihong, E., Le, G., & Du, J. (2011, October). Survey on NoSQL database. In 2011 6th international conference on pervasive computing and applications (pp. 363-366). IEEE.

Ilyas, I. F., & Chu, X. (2015). Trends in cleaning relational data: Consistency and deduplication. Foundations and Trends® in Databases, 5(4), 281-393.

Hellerstein, J. M. (2008). Quantitative data cleaning for large databases. United Nations Economic Commission for Europe (UNECE).

*Kimball, R., & Ross, M. (2013). The data warehouse toolkit: The definitive guide to dimensional modeling. John Wiley & Sons.

Kroenke, D. M., Auer, D. J., Vandenberg, S. L., & Yoder, R. C. (2010). Database concepts. Prentice Hall.

*Lakshman, A., & Malik, P. (2010). Cassandra: a decentralized structured storage system. ACM SIGOPS Operating Systems Review, 44(2), 35-40.

Larsson, A. O. (2015). Studying Big Data-ethical and methodological considerations. Internet research ethics, 141-156.

*Lomborg, S., & Bechmann, A. (2014). Using APIs for data collection on social media. The Information Society, 30(4), 256-265.

Nayak, A., Poriya, A., & Poojary, D. (2013). Type of NOSQL databases and its comparison with relational databases. International Journal of Applied Information Systems, 5(4), 16-19.

*Osborne, J. W. (2013). Best practices in data cleaning: A complete guide to everything you need to do before and after collecting your data. Sage.

*Petersen, M. A. (2009). Estimating standard errors in finance panel data sets: Comparing approaches. The Review of Financial Studies, 22(1), 435-480.

*Pokorny, J. (2013). NoSQL databases: a step to database scalability in web environment. International Journal of Web Information Systems, 9(1), 69-82.

Rabianski, J. S. (2003). Primary and secondary data: Concepts, concerns, errors, and issues. The Appraisal Journal, 71(1), 43.

Rahm, E., & Do, H. H. (2000). Data cleaning: Problems and current approaches. IEEE Data Eng. Bull., 23(4), 3-13.

Schneider, J. K., & Deenan, A. (2004). Reducing quantitative data errors: tips for clinical researchers. Applied Nursing Research, 17(2), 125-129.

*Stonebraker, M. (2010). SQL databases v. NoSQL databases. Commun. ACM, 53(4), 10-11.

*Taylor AG. SQL for Dummies. Vol 6th ed. Hoboken, NJ: For Dummies; 2006.

Vis, F. (2013). A critical reflection on Big Data: Considering APIs, researchers and tools as data makers. First Monday, 18(10)

Technology Needs:

Existing or grant purchased technology will be utilized.

Human Resource

Needs (Presently

Employed vs. New

Faculty):

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

Facility Needs:

Existing or grant-provided facilities will be utilized.

Library needs:

Relevant Periodical Sources

Big Data, open access journal

International Journal of Information Management, Elsevier

- * Journal of Big Data, a SpringerOpen Journal
- * Journal of Database Management, IGI Global

Journal of Information & Knowledge Management, World Scientific

Relevant Online Materials

Online SQL MOOC: http://cs.stanford.edu/people/widom/DB-mooc.html

MongoDB documentation: https://docs.mongodb.com/manual/

Hadoop: https://www.guru99.com/what-is-big-data.html

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

1: Incomplete

R: Audit

9/15/22, 4:02 PM

BUSN 391: Basics of Data Collection, Data Warehousing, and Data Cleansing

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

Reviewer

Comments

Key: 2269

Preview Bridge

EXHIBIT B-10

Course Change Request

New Course Proposal

Date Submitted: 07/15/22 12:21 pm

Viewing: HRTM 230: Principles of Food and

Beverage Management

Last edit: 08/17/22 12:57 pm Changes proposed by: Sean Bips (sbips)

Programs referencing this course

AS.HRTM.CA: Hospitality, Recreation, and Tourism Management,
Associate in Science Option in Culinary Arts

Learning Outcomes
Display (show only)

In Workflow

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

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

Approval Path

- 1. 07/15/22 1:29 pm
 Johanna Riemen
 (jriemen): Approved
 for BS Academic
 Administrator
- 2. 07/28/22 4:14 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 08/05/22 10:58 am
 Susan O'Connor
 (soconnor):
 Approved for

Director of Curriculum

4. 08/11/22 4:54 pm

Heather Sciarappa

(hsciarappa):

Approved for

Curriculum

Committee Chair

5. 09/08/22 6:04 pm

Robert Marchie

(rmarchie):

Approved for

Senate Chair

6. 09/09/22 1:05 pm

Joseph Konopka

(jkonopka):

Approved for Vice

President of

Academic Affairs

1. Course Information

Subject HRTM - Hospitality, Recreation, and Tourism

Management

Course Number 230

School Business and Social Sciences

Course Title Principles of Food and Beverage Management

2. Hours

Semester Hours 3

Lecture 3

Lab 0

Practicum 0

3. Catalog Description

For display in the

online catalog

This course explores the food and beverage industry and places an emphasis on managerial cost control concepts pertaining to operations in the foodservice industry. Additional topics of the course include inventory control, food storage techniques, food quality management, menu design, facility design, and recipe cost analysis.

4. Requisites

Prerequisites

None

Corequisites

None

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

This course provides students with an overview of food and beverage principles in the hospitality industry that pertains to managing a food and beverage operation in a variety of hospitality establishments. Cost control strategies, menu pricing techniques, facility design, and food safety procedures are explored in this course and provide students with the necessary knowledge and soft skills to enter into an entry level supervisory role in a food and beverage operation.

7. General Education

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

No

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

Program-specific requirement

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

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

	Add item
1	Demonstrating the college's commitment to offer comprehensive and educational programs that develop intentional learners that promote critical thinking about the world of Hospitality, Recreation and Tourism Management of all ages. (Mission Statement)
2	Seeking to ensure that students will thrive in an increasingly diverse and complex world, by providing global insight in the field of hospitality. (Vision Statement)
3	Preparing students for entrance into the Hospitality and Tourism workforce and/or for successful transfer to other educational institutions. (Academic Master Plan)
4	Seeking to empower students through the mastery of intellectual and Practical Skills with an emphasis on marketing strategies, customer service and financial management skills. (Academic Master Plan)
5	Challenging students to transfer information into knowledge and knowledge into action that will benefit the Hospitality, Recreation and Tourism industry both locally, nationally and internationally. (Academic Master Plan)

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution

Atlantic Cape CC

Course Title

Food Fundamentals

Course Number

HOSP 135

Number of Credits

3

Comments

Prerequisite: Successful completion of sanitation certification or HOSP132 (may be taken concurrently). Examines culinary operations as they relate to front-of-the-house personnel. Includes product identification, appropriate choice of cooking method, nutritional information and its application. Students will acquire skills in recipe writing, designing appropriate menu items and cultural associations with food. Focus is placed on kitchen organization and flow. Requisites:

HOSP-132 (may be taken concurrently) or successful completion of sanitation certification - Must be completed prior to taking this course.

Take HOSP-132 - Recommended to be taken either prior to or at the same time as this course, but is not required.

Institution

County College of Morris

Course Title

Food and Beverage Purchasing and Cost Controls

Course Number

HOS-213

Number of Credits

3

Comments

LECT 3 hrs

A more advanced course dealing with the concepts of selection and procurement in the hospitality industry. Special emphasis is given to food cost, the purchasing function, procurement and inventory controls. In addition, forecasting, budgeting, cash management, and profit and loss statements also are studied. Included in the course is the opportunity to receive one NRAEF certificate (Inventory and Purchasing) towards the ManageFirst Certification.

Prerequisites: HOS-102 Corequisites: HOS-102.

Institution

Brookdale CC

Course Title

Storeroom/Purchasing Operations

Course Number

CULA133

Number of Credits

2

Comments

Description: The student will learn about the storeroom operations of purchasing, receiving, storage, requisitioning and record keeping. Through lecture, demonstration and hands-on

experience in the lab the students will learn product identification, packaging, seasonality and availability, freshness and the quality factors of maturity and ripeness, appropriate culinary uses, taste, texture and other selection points. The student will also be involved with the developing of stock and inventory control. They will learn about different ordering methods: bidding, phone quotes and contracts.

institution

Rowan College at Burlington County

Course Title

Food and Beverage Management

Course Number

HOS 130

Number of Credits

3

Comments

This course will provide an overview of food and beverage management for restaurants; foodservice operations; hotels and resorts; and casinos.

Institution

Mercer County CC

Course Title

Culinary Math

Course Number

HOS 111

Number of Credits

1

Comments

Focus on key mathematic concepts related to culinary arts. Students demonstrate a working knowledge of topics including calculating yield percent, determining portion costs, periodic food costs, 'selling price' determinations, weights and measures, changing recipe yields, and converting between metric and U.S. measurements. 1 lecture hour

Transferability of Course

Georgian Court

University

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

Kean University

	Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
	FEX 3000	Elective		
N	Monmouth			
U	Iniversity			:
	Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	1
			Unable to determine status	
R	lowan University			
	Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
	INTR99070	Elective		
F	Rutgers - New			
Е	Brunswick, Mason			
(Gross School of the			
ļ	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
HTMS 2110	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	Review ordering procedures and demonstrate product quality management in a food and beverage operation.
CLO2	Demonstrate menu planning skills that consider factors of seasonality and cost control.

	Students who successfully complete this course will be able to:
CLO3	Review methods of food and beverage management pricing methods.
CLO4	Effectively implement marketing methods for the food and beverage industry.
CLO5	Identify critical elements of food safety accident prevention procedures.
CLO6	Develop a functional facility design layout for foodservice businesses.
CLO7	Demonstrate preparation methods that include cost control measures in the stages of purchasing, receiving, and storage to successfully prepare for restaurant service.
CLO8	Apply nutritional components in menu planning

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	Menu Planning a. Design and Menu Engineering b. Budget c. Supplier Management d. Menu Types and Nutrition e. Food Safety	 reading class discussion group project in-class activities writing assignment 	Test on readings and discussions, research paper, case study, internet assignments	CLO1, CLO2, CLO3, CLO5, CLO8
TO2	Cost Control a. Purchasing b. Receiving c. Food Storage d. Budgeting for a Restaurant e. Understanding Food and Beverage Cost	 reading class discussion group project in-class activities writing assignment 	Test on readings and discussions, research paper, case study, internet assignments	CLO, CLO2, CLO3, CLO5, CLO7

110124, 4.02	I_IAI	THE WILLOUT THE SING OF THE	or and extended management	an it have b
	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
ТОЗ	Food and Beverage Marketing a.Hospitality Marketing Mix b. Market Segmentation c. Digital Marketing for Food Businesses	 reading class discussion group project in-class activities writing assignment 	Test on readings and discussions, research paper, case study, internet assignments	CLO2, CLO4
TO4	Facility and Layout Design a. Pace and Flow of Restaurant b. Front of House Design Concept c. Back of House Design Concepts	 reading class discussion group project in-class activities writing assignment 	Test on readings and discussions, research paper, case study, internet assignments	CLO5, CLO6, CLO7
TO5	Quality Control Food and Beverage Management a. Nutritional Ingredients b. Supplier Management c. Kitchen Maintenance	 reading class discussion group project in-class activities writing assignment 	Test on readings and discussions, research paper, case study, internet assignments	CLO1, CLO2, CLO3, CLO5, CLO7

12. Methods of Instruction

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

Lecture, group discussions, case studies, discussion forums, research papers, group projects, and other classroom activities will be employed.

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

Information

		·
Quantitative Knowledg	ge and Skills	Yes
Related Course Learning Outcome	CLO2, CLO3	
Related Outline Component	TO1	
Assessment of Genera	l Education Goal ((Recommended but not limited to)
Test on readings and	discussions, rese	arch paper, case study, internet assignments
Scientific Knowledge a		_
Technological Compe	tency	
Information Literacy		
Society and Human B	ehavior	
Humanistic Perspecti		
Historical Perspective	•	
Global and Cultural A	wareness	Yes
Related Course Learning Outcome	CLO2	
Related Outline Component	TO1	
Assessment of Gene	ral Education Goa	l (Recommended but not limited to)
Test on readings ar	d discussions, res	search paper, case study, internet assignments
Ethical Reasoning ar	d Action	

independent/Critical Thinking

Yes

Related Course

CLO₂

Learning Outcome

Related Outline

CLO₂

Component

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

Test on readings and discussions, research paper, case study, internet assignments

14. Needs

Instructional

Materials (text

etc.):

Textbook

Technology Needs:

N/A

Human Resource

Needs (Presently

Employed vs. New

Faculty):

Presently employed faculty

Facility Needs:

Classroom

Library needs:

N/A

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

Reviewer

Comments

Key: 2248

Preview Bridge

EXHIBIT B-11

Course Change Request

New Course Proposal

Date Submitted: 07/18/22 2:03 pm

Viewing: HRTM 231: Culinary Fundamentals

Last edit: 08/17/22 12:56 pm Changes proposed by: Sean Bips (sbips)

Programs referencing this course

AS.HRTM.CA: Hospitality, Recreation, and Tourism Management,
Associate in Science Option in Culinary Arts

Learning Outcomes
Display (show only)

In Workflow

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

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

Approval Path

- 1. 07/18/22 2:05 pm
 Johanna Riemen
 (jriemen): Approved
 for BS Academic
 Administrator
- 2. 07/28/22 4:25 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 08/05/22 10:58 am Susan O'Connor (soconnor): Approved for

Director of Curriculum

4. 08/18/22 2:03 pm

Heather Sciarappa

(hsciarappa):

Approved for

Curriculum

Committee Chair

5, 09/08/22 6:04 pm

Robert Marchie

(rmarchie):

Approved for

Senate Chair

6. 09/09/22 1:05 pm

Joseph Konopka

(jkonopka):

Approved for Vice

President of

Academic Affairs

1. Course Information

Subject HRTM - Hospitality, Recreation, and Tourism

Management

Course Number

231

3

School

Business and Social Sciences

Course Title

Culinary Fundamentals

2. Hours

Semester Hours

Lecture

2

Lab

2

Practicum

0

3. Catalog Description

For display in the

online catalog

This course provides students with a comprehensive understanding of basic cooking skills and kitchen managerial concepts. Food safety techniques and introductory level cooking techniques are explored. An overview of culinary mathematics and recipe management concepts are introduced, which includes recipe execution techniques and food plating methods.

4. Requisites

Prerequisites

None

Corequisites

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

The demand for trained cooks and chefs has greatly increased over the past several years, and the location of Ocean County is especially significant due to the high level of tourism that exists in this part of the state.

7. General Education

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

No

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

Program-specific requirement

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

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

	Add item
1	Demonstrating the college's commitment to offer comprehensive and educational programs that develop intentional learners that promote critical thinking about the world of Hospitality, Recreation and Tourism Management of all ages. (Mission Statement)
2	Seeking to ensure that students will thrive in an increasingly diverse and complex world, by providing global insight in the field of hospitality. (Vision Statement)
3	Preparing students for entrance into the Hospitality and Tourism workforce and/or for successful transfer to other educational institutions. (Academic Master Plan)
4	Seeking to empower students through the mastery of intellectual and Practical Skills with an emphasis on marketing strategies, customer service and financial management skills. (Academic Master Plan)
5	Challenging students to transfer information into knowledge and knowledge into action that will benefit the Hospitality, Recreation and Tourism industry both locally, nationally and internationally. (Academic Master Plan)

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Atlantic Cape CC Institution

Culinary Fundamentals Course Title

CULN111 Course Number

Number of Credits

Comments

9/15/22, 4:04 PM

HRTM 231: Culinary Fundamentals

EXHIBIT 3 - 1 1

Institution

Brookdale CC

Course Title

Basic Food Skills I

Course Number

CULA111

Number of Credits

3

Comments

Prerequisite(s): READ 095 or satisfactory completion of the College's foundational studies requirement in reading, and MATH 012 or MATH 015 or satisfactory completion of the College's foundational studies requirement in computation and a grade of "C" or higher in CULA 115. Description: The students will gain knowledge of the principles of food preparation through classroom instruction and laboratory experiences. Emphasis will be placed on knife skills, measuring, identification of tools and equipment, and terms and concepts. Students will prepare stocks, soups and sauces as the foundation for cooking competencies needed in more advanced food preparation courses.

Institution

Rowan College at Burlington County

Course Title

Culinary Arts

Course Number

CUL 107

Number of Credits

4

Comments

Institution

County College of Morris

Course Title

Food Management

Course Number

HOS 102

Number of Credits

3

Comments

Institution

Mercer County CC

Course Title

Food Preparation I

Course Number

HOS 101

Number of Credits

3

Comments

Introduction to the principles, skills, and techniques associated with the culinary arts, involving various cooking methods including classic and modern techniques. Identification of various kitchen staples, food products, and equipment used within the commercial food operation. Hands-on activities require the preparation of a wide variety of recipes. Chef whites required. 1 lecture / 4 laboratory hours

Transferability of Course

Georgian Court			
University			
Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
EC Elective	Elective		
Kean University			
Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
FEX3000	Elective		
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	
INTR 99070	Elective		
Rutgers - New			
Brunswick, Mason			
Gross School of the			
Arts			

Transfer Catagory

Course Code, Title, and Credits

If non-transferable; select status

Unable to determine status

Stockton University

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

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

1	
	Students who successfully complete this course will be able to:
CLO1	Utilize general cooking methods that include sauteing, poaching, frying, grilling, and roasting.
CLO2	Demonstrate knife skills and food safety procedures in the kitchen.
CLO3	Apply the appropriate use of ingredients, choice of seasoning, and cooking technique for assigned menu items.
CLO4	Execute the production of stocks and sauces and apply the use of these ingredients in appropriate dishes.
CLO5	Explain the significance of food and beverage cost and demonstrate the necessary methods in order to adjust recipes yields.
CLO6	Demonstrate proper usage of equipment and apply food safety and kitchen sanitation methods.
CLO7	Adhere to all proper temperatures when receiving, storing, and serving food.

11. Topical Outline

(include as many themes/skills as needed)

Major Themes/ Skills	Assignments	Assessments	Course
•	(Recommended but not	(Recommended but not	Learning
	limited to)	limited to)	Outcome(s)

HRTM 231: Culinary Fundamentals

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO1	Food Safety and Sanitation	1.reading	Tests on readings and	CLO6, CLO7
	a. Cleanliness in the	2, class discussion	discussions, research	
	Kitchen	3. group project	paper, case study, internet	
	b. Personal Hygiene	4. in-class activities	assignments, cooking	
	c. Foodborne Illness	5. writing assignment	assignments	
	Prevention	6. cooking practical		
	d. Proper Temperature for			
	Receiving, Storing, and			
	Serving		i	· :
TO2	Knife Skills and Food	1. reading	Tests on readings and	CLO2, CLO6
	Preparation Set Up	2. class discussion	discussions, research	1 • •
	a. Proper Knife Handling	3. group project	paper, case study, internet	:
	b. Knife Cut Techniques	4. in-class activities	assignments, cooking	
	c. Sharpening Methods	5. writing assignment	assignments	•
	d. Mise En Place			i i :
тоз	Recipe Execution and	1. reading	Tests on readings and	CLO1, CLO2,
	Culinary Math	2. class discussion	discussions, research	CLO3, CLO5,
	a. Weight Conversions	3. group project	paper, case study, internet	CLO7
	b. Recipe Conversion	4. in-class activities	assignments, cooking	
	Factor	5. writing assignment	assignments	
	c. Butcher Test	· 		
	d. Food and Beverage Cost		· !	
	Management		1 2 3	
TO4	Stocks, Soups, and Sauces	1. reading	Tests on readings and	CLO1, CLO2,
	a. Mother Sauces	2. class discussion	discussions, research	CLO3, CLO4,
	b. Making a Roux	3. group project	paper, case study, internet	CLO6, CLO7
	c. Natural Thickeners	4. in-class activities	assignments, cooking	:
	d. Garnishes	5. writing assignment	assignments	
TO5	Plating and Service	1. reading	Tests on readings and	CLO1, CLO2,
	Techniques	2. class discussion	discussions, research	CLO3, CLO4,
	a. French Style	3. group project	paper, case study, internet	CLO6, CLO7
	b. Russian Style	4. in-class activities	assignments, cooking	:
	c. American Style	5. writing assignment	assignments	
	d. Buffet	!	!	

HRTM 231: Culinary Fundamentals

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
ТО6	Hot/Cold Entree Production a. Balance of Ingredients b. Protein Cookery	 reading class discussion group project in-class activities 	Tests on readings and discussions, research paper, case study, internet assignments, cooking	CLO1, CLO2, CLO3, CLO6, CLO7
:	c. Vegetable Cookery d. Starch Cookery	5. writing assignment	assignments	

12. Methods of Instruction

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

Lecture, group discussions, case studies, discussion forums, research papers, group projects, cooking demos, and other classroom activities will be employed.

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

Information		
Communication-Writt	en and Oral	
Quantitative Knowled	ge and Skills	Yes
Related Course	CLO5	
Learning Outcome		
Related Outline	тоз	
Component		
Assessment of General	al Education Goal (R	tecommended but not limited to)
Tests on readings ar	nd discussions, resea	arch paper, case study, internet assignments, cooking
assignments	·	
		

Scientific Knowledge ar	nd Reasoning			
Technological Compete		-		
Information Literacy		_		
Society and Human Be	havior	_		
Humanistic Perspective				
Historical Perspective		······································		
Global and Cultural Av	vareness	Yes		
Related Course Learning Outcome	CLO3, CLO4			
Related Outline Component	TO5			¢
Assessment of Genera	al Education Goal (Recommended but	not limited to)	
Tests on readings ar assignments	d discussions, reso	earch paper, case stu	ıdy, internet assi	gnments, cooking
Ethical Reasoning and	l Action			
Independent/Critical	Thinking	Yes		
Related Course Learning Outcome	CLO1, CLO2, CLO CLO6, CLO7)3, CLO4, CLO5,		
Related Outline Component	TO1, TO2, TO3,	TO4, TO5, TO6		
Assessment of Gene	ral Education Goal	(Recommended but	: not limited to)	

Tests on readings and discussions, research paper, case study, internet assignments, cooking assignments

14. Needs

Instructional

Materials (text

etc.):

Textbook, Kitchen Equipment

Technology Needs:

Menu Presentation Digital Screen

Human Resource

Needs (Presently

Employed vs. New

Faculty):

Presently employed faculty

Facility Needs:

Kitchen Access

Library needs:

N/A

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

1: Incomplete

R: Audit

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

EXHIBIT 8 - 1 1

Reviewer Comments

Key: 2266

Preview Bridge

EXHIBIT B-12

Course Change Request

New Course Proposal

Date Submitted: 07/18/22 4:25 pm

Viewing: HRTM 232: Advanced Culinary Concepts

Last edit: 09/15/22 3:46 pm

Changes proposed by: Sean Bips (sbips)

Programs

referencing this

course

AS.HRTM.CA: Hospitality, Recreation, and Tourism Management,

Associate in Science Option in Culinary Arts

Learning Outcomes
Display (show only)

in Workflow

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

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

Approval Path

- 1. 07/18/22 4:36 pm
 Johanna Riemen
 (jriemen): Approved
 for BS Academic
 Administrator
- 2. 07/28/22 4:35 pm Rosann Bar (rbar): Approved for BS Dean
- 3. 08/05/22 10:58 am Susan O'Connor (soconnor): Approved for

Director of Curriculum

4. 08/18/22 2:03 pm Heather Sciarappa

(hsciarappa):

Approved for

Curriculum

Committee Chair

5. 09/08/22 6:04 pm

Robert Marchie

(rmarchie):

Approved for

Senate Chair

6. 09/09/22 1:05 pm

Joseph Konopka

(jkonopka):

Approved for Vice

President of

Academic Affairs

1. Course Information

Subject HRTM - Hospitality, Recreation, and Tourism

Management

Course Number 2

232

3

School

Business and Social Sciences

Course Title

Advanced Culinary Concepts

2. Hours

Semester Hours

Lecture

2

Lab

2

Practicum

0

3. Catalog Description

2/12

For display in the online catalog

This course explores advanced cooking styles and concepts. The course expands upon previously learned skills in HRTM 131 and introduces principles of appetizer, entree, and dessert production. Kitchen managerial concepts are reviewed with an emphasis placed on mastery of all cooking methods. Traditional and modern culinary methods in American regional cuisine are discussed along with an introduction to international fusion dishes. General kitchen terminology, management methods, and advanced menu planning concepts are stressed.

4. Requisites

Prerequisites

HRTM 231

Corequisites

5. Course Type

Course Fee Code

Course Type for

vocational (approved for Perkins funding)

Perkins Reporting

6. Justification

Describe the need

for this course

The demand for trained cooks and chefs have greatly increased over the past several years, and the location of Ocean County is especially significant due to the high level of tourism that exists in this part of the state.

7. General Education

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

No

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

Program-specific requirement

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

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

	Add item
1	Demonstrating the college's commitment to offer comprehensive and educational programs that develop intentional learners that promote critical thinking about the world of Hospitality, Recreation and Tourism Management of all ages. (Mission Statement)
2	Seeking to ensure that students will thrive in an increasingly diverse and complex world, by providing global insight in the field of hospitality. (Vision Statement)
3	Preparing students for entrance into the Hospitality and Tourism workforce and/or for successful transfer to other educational institutions. (Academic Master Plan)
4	Seeking to empower students through the mastery of intellectual and Practical Skills with an emphasis on marketing strategies, customer service and financial management skills. (Academic Master Plan)
5	Challenging students to transfer information into knowledge and knowledge into action that will benefit the Hospitality, Recreation and Tourism industry both locally, nationally and internationally. (Academic Master Plan)

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution

Atlantic Cape CC

Course Title

Basic Food Skills II

Course Number

CULA112

Number of Credits

3

Comments

Description: The students will build upon the information learned in Basic Food Preparation Skills I and increase their knowledge of food preparation through classroom instruction and laboratory experiences. Emphasis will be placed on rice, pasta and starch, legumes, vegetables, fruit and nuts. This course is a foundation course for cooking competencies needed in more advanced food preparation courses.

Institution

Brookdale CC

Course Title

Basic Food Skills II

Course Number

CULA112

Number of Credits

3

Comments

Prerequisite(s): CULA 115 and a grade of "C" or higher in CULA 111; MATH 012 or MATH 015 or satisfactory completion of the College's foundational studies requirement in computation, and READ 095 or satisfactory completion of the College's foundational studies requirement in reading.

Description: The students will build upon the information learned in Basic Food Preparation Skills I and increase their knowledge of food preparation through classroom instruction and laboratory experiences. Emphasis will be placed on rice, pasta and starch, legumes, vegetables, fruit and nuts. This course is a foundation course for cooking competencies needed in more advanced food preparation courses.

Institution

County College of Morris

Course Title

Food Production

Course Number

HOS 103

Number of Credits

3

Comments

Institution

Mercer County CC

Course Title

Food Preparation II

Course Number

HOS 102

Number of Credits

3

Comments

HOS 101 and HOS 118 or equivalent proficiency

Refines culinary skills in quantity food preparation through operation of a student-run restaurant. Includes kitchen and dining room organization and operations; menu development and design; management of service and culinary personnel; service standards; serving the general public; merchandising and sales promotion; and banquet management. Chef whites required. 1 lecture / 4 laboratory hours

Institution

Rowan College at Burlington County

Course Title

Techniques and Traditions

Course Number

CUL 122

Number of Credits

4

Comments

Transferability of Course

Georgian Court

University			
Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	1
EC Elective	Elective	Unable to determine status	:
Kean University			
Course Code, Title, and Credits	Transfer Catagory	if non-transferable; select status	
FEX3000	Elective		1
Monmouth			
University			
Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	:
		Unable to determine status	í
Rowan University			
Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	

	Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	!
	INTR 99070			
Rı	utgers - New			
Bi	runswick, Mason			
G	ross School of the			
A	rts			
	Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
			Unable to determine status	
St	tockton University			
	Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
			Unable to determine status	

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

1	Students who successfully complete this course will be able to:
CLO1	Create stocks, soups, and sauces, as well as produce variations of all traditional mother sauces.
CLO2	Execute advanced knife skills and maintain a high degree of professionalism in the kitchen.
CLO3	Recognize the uses of seasonal and non-seasonal ingredients and apply multiple cooking methods.
CLO4	Demonstrate cooking techniques with international ingredients and execute a nutritious, well-balanced, properly seasoned meal.
CLO5	Demonstrate advanced plating techniques to present various dishes.
CLO6	Prepare appetizers, entrees, and desserts from recipes and understand how to effectively cost out menu items.

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	Advanced Knife Skills and Cooking Techniques a.Advanced Knife Cuts b.Dry Heat Cooking c.Moist Cooking Methods d. Sous Vide Cookery Hot and Cold Appetizers	 reading class discussion group project in-class activities writing assignment Cooking practical reading 	Tests on readings and discussions, research paper, case study, internet assignments, cooking assignments	CLO1,CLO2, CLO3, CLO6
TO2	and Entrees a.Non-Vegetarian Cookery b. Vegetarian Cookery c. Sauces d. Garnishes	2.class discussion3. group project4. in-class activities5. writing assignment6. Cooking practical	discussions, research paper, case study, internet assignments, cooking assignments	CLO3, CLO6
тоз	International Foods a.Asian Cuisine b.European Cuisine c.Mexican Cuisine d. Indian Cuisine	 1.reading 2.class discussion 3. group project 4. in-class activities 5. writing assignment 6. Cooking practical 	Tests on readings and discussions, research paper, case study, internet assignments, cooking assignments	CLO1,CLO2, CLO3, CLO4, CLO6
TO4	Desserts a.Cakes, Pies, and Pastries b. Ice Cream c. Creams and Custards d. Dessert Sauces	 1.reading 2.class discussion 3. group project 4. in-class activities 5. writing assignment 6. Cooking practical 	Tests on readings and discussions, research paper, case study, internet assignments, cooking assignments	CLO1, CLO6
TO5	Advanced Plating Techniques a. Height and Texture b. Placement of Food Items c. Dish Selection d. Recipe Consistency and Portion Control	1.reading2.class discussion3. group project4. in-class activities5. writing assignment6. Cooking practical	Tests on readings and discussions, research paper, case study, internet assignments, cooking assignments	CLO2, CLO3, CLO5, CLO6

HRTM 232: Advanced Culinary Concepts

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO6	American Regional Cuisine	1.reading	Tests on readings and	CLO1,CLO2,
	a. New England Cuisine	2.class discussion	discussions, research	CLO3, CLO4,
	b. Southern Cuisine	3. group project	paper, case study, internet	CLO6
	c. Mid-Atlantic Cuisine	4. in-class activities	assignments, cooking	
	d. American Fusion	5. writing assignment	assignments	:
		6. Cooking practical		

12. Methods of Instruction

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

Lecture, group discussions, case studies, discussion forums, research papers, group projects, cooking demos, and other classroom activities will be employed.

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

Information				
Communication-Written and Oral				
Quantitative Knowled	lge and Skills	Yes		
Related Course	CLO1,CLO2, CLO3, C	CLO4, CLO5,		
Learning Outcome	CLO6			
Related Outline	TO1, TO2,TO3, TO4,	TO5,TO6		
Component				
Assessment of Gener	ral Education Goal (Re	commended but not limited to)		
		Luck intermed and months and ling		
	nd discussions, resear	ch paper, case study, internet assignments, cooking		
assignments				

Scientific Knowledge a	nd Reasoning			
Technological Compet	ency			
Information Literacy				
Society and Human Be				
Humanistic Perspectiv	e			
Historical Perspective				
Global and Cultural Av	wareness	Yes		
Related Course Learning Outcome	CLO4			
Related Outline Component	TO3, TO6			
Assessment of Genera	al Education Goal (Re	commended but n	ot límited to)	
Tests on readings ar assignments	d discussions, resear	ch paper, case stud	dy, internet assig	nments, cooking
Ethical Reasoning and	Action			
Independent/Critical	Thinking	Yes		
Related Course Learning Outcome	CLO1,CLO2, CLO3, CLO6	CLO4, CLO5,		
Related Outline Component	TO1, TO2,TO3, TO4	I,TO5,TO6		
Assessment of Gener	al Education Goal (R	ecommended but i	not limited to)	

Tests on readings and discussions, research paper, case study, internet assignments, cooking assignments

14. Needs

Instructional

Materials (text

etc.):

Textbook, Kitchen Equipment

Technology Needs:

Digital Monitor Use for Menu

Human Resource

Needs (Presently

Employed vs. New

Faculty):

Presently employed faculty

Facility Needs:

Kitchen Access

Library needs:

N/A

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

Reviewer

Comments

Rosann Bar (rbar) (07/28/22 4:34 pm): Should this be a 200-level course?

Key: 2267

Preview Bridge

EXHIBIT B-13

Course Change Request

Date Submitted: 06/10/22 11:50 am

Viewing: MATH 281: Differential Equations

Last approved: 06/08/22 12:27 pm

Last edit: 07/14/22 4:26 pm

Changes proposed by: Vandana Saini (vsaini)

Catalog Pages referencing this

course

<u>Approved General Education Courses</u> <u>Approved General Education Courses</u> <u>Mathematics (MATH)</u>

Programs
referencing this
course
AS.ENGR: Engineering, Associate in Science

Learning Outcomes
Display (show only)

In Workflow

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

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

Approval Path

- 1. 06/10/22 1:23 pm
 Carolyn Showalter
 (cshowalter):
 Approved for STEM
 Academic
 Administrator
- 2. 06/16/22 1:20 pm Sylvia Riviello (sriviello): Approved for STEM Dean
- 3. 06/30/22 3:32 pm Susan O'Connor (soconnor): Approved for

Director of Curriculum

4. 07/14/22 4:28 pm
Heather Sciarappa
(hsciarappa):
Approved for
Curriculum
Committee Chair

5. 09/08/22 6:04 pm Robert Marchie (rmarchie): Approved for Senate Chair

6. 09/09/22 1:05 pm
 Joseph Konopka
 (jkonopka):
 Approved for Vice
 President of
 Academic Affairs

History

1. Jun 8, 2022 by Susan O'Connor (soconnor)

1. Course Information

Subject

MATH - Mathematics

Course Number

281

School

Science, Technology, Engineering,

Mathematics

Course Title

Differential Equations

2. Hours

Semester Hours

4

Lecture

4

Lab

0

Practicum

0

3. Catalog Description

For display in the online catalog

This course includes the following topics: modeling and solving first-order differential equations and higher-order differential equations, both linear and non-linear, solution of differential equations by power series and Laplace transforms, matrices and determinants, Fourier series, and an introduction to partial differential equations.

4. Requisites

Prerequisites

Math 266 267

Corequisites

None

5. Course Type

Course Fee Code

1.

Course Type for

non-vocational (not approved for Perkins

Perkins Reporting

funding)

6. Justification

Describe the need

for this course

This is a required course at most colleges and universities for mathematics and engineering majors.

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?

Yes

9/15/22, 4:05 PM

General Education

Category

Mathematics

General Education

Approved

Status

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

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution

Brookdale CC

Course Title

Elementary Differential Equations

Course Number

Math 274

Number of Credits

4

Comments

9/15/22, 4:05 PM

MATH 281: Differential Equations

Institution

Mercer County CC

Course Title

Differential Equations

Course Number

Math 252

Number of Credits

Comments

Institution

Middlesex County College

Course Title

Differential Equations

Course Number

Mat 234

Number of Credits

4

Comments

Transferability of Course

Georgian Court

University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	:
MA218, Differential Equations, 3 credits	Major		

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
MATH3455, Differential	Major		1
Equations, 3 credits			

Monmouth

University

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

MATH 281: Differential Equations

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
MA311, Differential Equations, 3 credits	Major		
lowan University			
Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status	
MATH01231, Ordinary Differential Equations, 3 credits	Major		

Rutgers - New Brunswick, Mason Gross School of the

Arts

	Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
	<u>01640EC, 4</u> 01640244, 3 credits	<u>Elective</u> Major	
St	tockton University		
	Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
	Math free elective, 3 credits	Elective	:

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Apply appropriate techniques for approximating the solution to an initial-value problem for an ordinary differential equation, including the use of a power series.
CLO2	Apply appropriate techniques for solving ordinary differential equations of varying order, including those equations developed from real-world models.
CLO3	Utilize appropriate computer software, such as WinPlot, in the visualization of the solutions to an ordinary differential equation.

******		Students who successfully complete this course will be able to:
,	CLO4	Apply integral transforms, such as the Laplace and Fourier transforms, to the solving process of an ordinary or partial differential equation.
	CLO5	Apply matrix methods to solving a system of linear differential equations.
	CLO6	Solve problems related to the one-dimensional heat equation using separation of variables for an initial-boundary-value problem for a partial differential equation.

11. Topical Outline

(include as many themes/skills as needed)

1	Major Themes/ Skills	Assignments	Assessments	Course
•		(Recommended but not limited to)	(Recommended but not limited to)	Learning Outcome(s)
TO1	Differential equations of first-order	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO1, CLO2, CLO3
TO2	Applications of first-order differential equations	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO2
ТОЗ	Homogeneous linear differential equations	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO2
TO4	Nonhomogeneous linear differential equations	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO2
TO5	Inverse differential operators	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLÓ2
то6	Laplace transforms	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO4
ТО7	Power series solutions of differential equations	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO1
TO8	General applications of differential equations	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO2
т09	Fourier series and simple Fourier analysis	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO4
TO10	Introduction to partial differential equations	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO6

9/15/22, 4:05 PM

MATH 281: Differential Equations

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO11	Systems of linear differential equations	Lecture, Computer Lab Activities	Homework, Quizzes, Exams	CLO5

12. Methods of Instruction

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

Lecture, Class Discussion, Group Discussion, Computer Applications, Graphing calculator applications.

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

Information				
Communication-Writ	ten and Oral			
Quantitative Knowled	dge and Skills	Yes		
Related Course Learning Outcome	ALL			
Related Outline Component	ALL			
Assessment of Gener	al Education Goal (R	ecommended but not l	imited to)	
Course Exams				
Scientific Knowledge	and Reasoning	-		
Technological Compe	etency	-		
Scientific Knowledge	and Reasoning	-		

10/22 ₁ 1/00 t W	MATTIZOT, Dilleteridal Equations	, , , , , , , , , , , , , , , , , , ,
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.): An appropriate textbook, as selected by	the department	
Technology Needs: Computer software, such as Derive, Com	verge, and WinPlot	
Human Resource Needs (Presently Employed vs. New Faculty):		
Facility Needs:		
Library needs:		

15. Grade Determinants

9/15/22, 4:05 PM

MATH 281: Differential Equations

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
- l: 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

Board of Trustees Approval Date: May 31, 2018

Reviewer

Comments

Key: 1704

<u>Preview Bridge</u>