EXHIBIT B

EXHIBIT B

OCEAN COUNTY COLLEGE

BOARD OF TRUSTEES

Bylaw, Policy, and Curriculum Committee Agenda Items

To: Board of Trustees

From: Office of the President

Date: February 20, 2025

The following Bylaw, Policy, and Curriculum Committee items are recommended to the Ocean County College Board of Trustees for approval at its meeting on **Thursday, February 27, 2025**:

1. Recommend approval of the following items as accepted by the College Senate at its meetings on February 6, and 21, 2025:

    a. New Program Option

        1) Associate in Science Degree, Advanced and Continuous Studies – Option in Esports Management **(Exhibit B-1)**

    b. Revised Programs

        1) Associate in Arts Degree, Psychology **(Exhibit B-2)**
        2) Associate in Science Degree, Criminal Justice **(Exhibit B-3)**
        3) Associate in Science Degree, Graphic Arts, Design, and Media **(Exhibit B-4)**

    c. New Courses

        1) BIOL 130L, Human Anatomy and Physiology I Lab **(Exhibit B-5)**
        2) BIOL 131L, Human Anatomy and Physiology II Lab **(Exhibit B-6)**
        3) BIOL 161L, General Biology I Lab **(Exhibit B-7)**
        4) BIOL 162L, General Biology II Lab **(Exhibit B-8)**
        5) BIOL 232L, Microbiology Lab **(Exhibit B-9)**
        6) CHEM 180L, Introductory Chemistry Lab **(Exhibit B-10)**
        7) GRPH 152, Graphic Design II **(Exhibit B-11)**

d. Revised Course

1) ALDC 102, Addictions Counseling: Professional Responsibilities **(Exhibit B-12)**

e. Revised Courses with Name Change

1) BIOL 130, Human Anatomy and Physiology I to Human Anatomy and Physiology I Lecture **(Exhibit B-13)**
2) BIOL 131, Human Anatomy and Physiology II to Human Anatomy and Physiology II Lecture **(Exhibit B-14)**
3) BIOL 161, General Biology I to General Biology I Lecture **(Exhibit B-15)**
4) BIOL 162, General Biology II to General Biology II Lecture **(Exhibit B-16)**
5) BIOL 232, Microbiology to Microbiology Lecture **(Exhibit B-17)**
6) CHEM 180, Introductory Chemistry to Introductory Chemistry Lecture **(Exhibit B-18)**
7) CSIT 144, Introduction to Operating System Using Unix to Introduction to Operating System Using Linux **(Exhibit B-19)**
8) GRPH 151, Digital Imagery to Graphic Design I **(Exhibit B-20)**

EXHIBIT B-1

EXHIBIT B-1

BOARD OF TRUSTEES

RESOLUTION

WHEREAS, the Academic Issues Committee of the Presidents' Council determined on July 28, 2021, that the Associate in Science degree in Advanced and Continuous Studies has complied with all applicable procedures under the New Degree Program Review Process; and

WHEREAS, the Associate in Science degree in Advanced and Continuous Studies, a "3+1" base program, was reviewed and acknowledged by the New Jersey Presidents' Council at its meeting on September 20, 2021; and

WHEREAS, Ocean County College desires to offer a new Program Option to the Associate in Science degree in Advanced and Continuous Studies that will be aligned and articulated with Stockton University; and

WHEREAS, students must complete the aligned Associate in Science degree at Ocean County College prior to matriculating in the Associate in Science degree in Advanced and Continuous Studies at Stockton University; and

WHEREAS, Ocean County College wishes to offer a new program option to the Associate in Science degree in Advanced and Continuous Studies:

- Option in Esports Management, aligned with Stockton University

NOW, THEREFORE, BE IT RESOLVED that the Ocean County College Board of Trustees, at its meeting on February 25, 2025, approves a new program option to the Associate in Science degree in Advanced and Continuous Studies in partnership with Stockton University.

February 25, 2025

_____

Stephan R. Leone
Secretary

Program Change Request

New Program Proposal

Date Submitted: 01/21/25 9:43 am

Viewing: AS.ACS.SESM : Advanced and Continuous Studies - Option in Esports Management

Last edit: 01/21/25 9:43 am

Changes proposed by: Katherine Toy (ktoy)

Program Type	Option
Program Title	Advanced and Continuous Studies - Option in Esports Management
Option Title	Esports Management Option- Aligned with Stockton University
Academic School	Business and Social Sciences
Base Program	Advanced and Continuous Studies
Effective Catalog Year	2025-2026
Program Code	AS.ACS.SESM
CIP Code	24.0101 - 24.0101

Objectives

Program Description

Students in this Esports Management option of the "3+1" program graduate with an associate degree from OCC in General Studies - Business Concentration (choosing desi Management Option *(*AS.ACS.SESM**),** allowing for financial aid to continue and for the full 90 credits to transfer to the aligned four-year university. The 300-level courses in University. Upon successful completion, no course shall be repeated.

Program Learning Outcomes

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

Learning Outcomes Display (show only)

Course Code	PLO 1	
		Junior
		First Semester

FILM 145		
MATH 157		
ENGL 251		
ENGL 252		
BUSN 350		
	Second Semester	
HIST 191		
SOCI 238		
BUSN 380		
	FirstSemester	
	SecondSemester	

Required Qualifications

Plan of Study Grid

Junior		
First Semester		Credit Hours
FILM 145	Television History and Appreciation	3
MATH 157	Introduction to Data Science	4
ENGL 251	American Literature Through the Civil War	3
or ENGL 252	or American Literature Post Civil War	
BUSN 350	Introduction to Financial Management	4
Choose OCC course from the Stockton History Category		3
	Credit Hours	17
Second Semester		
Choose OCC course from the Stockton Values/Ethics Category		3
HIST 191	African-American History	3
or SOCI 238	or Race and Ethnicity	
Choose OCC course from the Stockton Arts Category		3
BUSN 380	Advanced Operations Management	4
Choose OCC course from the Stockton International/Multicultural Category		3
	Credit Hours	16
	Total Credit Hours	33

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits
N/A	N/A

GHUM

Course Code & Title	Credits
N/A	N/A

GSOC

Course Code & Title	Credits
N/A	N/A

GSOC/ GHUM

Course Code & Title	Credits
N/A	N/A

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
N/A	N/A

General Education

Course Code & Title	Credits
N/A	N/A

Concentration Courses

Course Code & Title	Credits
FILM 145 (Stockton equivalent COMM 2412	3

FILM 145 (Stockton equivalent COMM 2412 Media Aesthetics)	3
MATH 157 (Stockton equivalent Quantitative Reasoning Q1 or Q2)	4
ENGL 251 or ENGL 252 (Stockton equivalent Writing Requirement Other Writing W1 or W2)	3
BUSN 350 (Stockton equivalent FINA 3110 Introduction to Financial Management)	4
OCC Course from Stockton History Category (Stockton equivalent Historical Consciousness Attribute: H)	3
OCC Course from Stockton Values/Ethics Category (Stockton equivalent Values/Ethics Category Attribute: V)	3
HIST 191 or SOCI 238 (Stockton equivalent Race, Ethnicity, & Diversity Attribute: R1)	3
OCC Course from Stockton Arts Category (Stockton equivalent Arts Category Attribute: A)	3
BUSN 380 (Stockton equivalent BUSA 3120 Operations Management (substitution for HTMS 3120 Facilities Management))	4
OCC Course from International/Multicultural Category (Stockton equivalent International/Multicultural Category Attribute: I)	3

Elective Courses

Course Code & Title	Credits
N/A	N/A

Reviewer Comments

EXHIBIT B-2

Program Change Request

Date Submitted: 01/02/25 3:04 pm

Viewing: AA.LA.PSYC : Psychology, Associate in Arts

Last approved: 04/15/24 1:36 pm

Last edit: 01/02/25 3:04 pm

Changes proposed by: Katherine Toy (ktoy)

Catalog Pages Using this Program	Psychology, an Option to Associate in Arts in Liberal Arts

Program Type	Associate of Arts (AA)
Program Title	Psychology, Associate in Arts
Academic School	Business and Social Sciences
Effective Catalog Year	2025-2026
Program Code	AA.LA.PSYC
CIP Code	240101 - Liberal Arts and Sciences/Liberal Studies.

Program Description

The Associate of Liberal Arts (AA) with an option in Psychology will prepare students for further academic and career study in the area of psychology at the junior and senic
The coursework is designed to foster an appreciation and understanding of the scientific study through 1) the utilization of the scientific method 2) exposing students to th
and applied areas in the field of psychology. Students will apply relevant research to analyze and evaluate psychological perspectives and concepts.

Program Objectives

Program Goals

	Program goals
PG1	N/A

Program Learning Outcomes

	Students who successfully complete this program will be able to:
PLO1	Describe the history major concepts and principals of psychology
PLO2	Recognize the complexities of interacting with individuals from diverse backgrounds
PLO3	Identify research methods in scientific inquiry as they pertain to the study of psychology
PLO4	Students will use critical thinking to solve problems related to psychology

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	
		FirstSemester	
ENGL 151			
ENGL 152			
COMM 154			
PHIL 191			
PSYC 172	Presentation Paper Exam	Presentation Paper	Pro Exa
PSYC 173	Exam	Exam	Pro Pre Pap
PSYC 273	Paper Exam	Project Presentation	Pro Exa
PSYC 278	Paper Exam	Presentation Paper	Pro Exa
PSYC 174			

PSYC 175			
PSYC 240			
PSYC 250			
PSYC 270			
PSYC 271	Paper Exam	Project Presentation Paper	Pre Pap Exa
PSYC 274			
PSYC 275			
PSYC 173	Exam	Exam	Pro Pre Pap
PSYC 174			
PSYC 175			
PSYC 240			
PSYC 250			
PSYC 270			
PSYC 271	Paper Exam	Project Presentation Paper	Pre Pap Exa
PSYC 273	Paper Exam	Project Presentation	Pro Exa
PSYC 274			
PSYC 275			
PSYC 278	Paper Exam	Presentation Paper	Pro Exa
		FirstSemester	
ENGL 151			
ENGL 152			
COMM 154			
PHIL 191			
PSYC 172	Presentation Paper Exam	Presentation Paper	Pro Exa

Required Qualifications

Plan of Study Grid

First Semester		Credit Hours
Comunications		
ENGL 151	English I	3
ENGL 152	English II	3
COMM 154	Fundamentals of Public Speaking	3
History		
History Gen. Ed. Requirement [1]		3
History Gen. Ed. Requirement [1]		3
Humanities		
PHIL 191	Introduction to Philosophy	3
Any ARTS, MUSC, or ENGL course from the List of Approved General Education Courses [1]		3
Humanities Gen. Ed. Requirement [1]		3
Social Science		

PSYC 172	General Psychology	3
Select from the following [1]		3
PSYC 173	Child Psychology	
PSYC 273	Adolescent Psychology	
PSYC 278	Life Span Development	
Diversity		
Diversity Gen. Ed. Requirement [1]		3
Mathematics-Science-Technology		
Mathematics, Lab Science, and Technology Gen. Ed. Requirement [1 & 2]		12
Program Requirement		
Any STSC - Student Success Seminar course [3]		2
Psychology Program Electives [1]		9
Elective		
Elective to meet 60 credits		4
	Credit Hours	60
	Total Credit Hours	60

Psychology Program Electives

PSYC 161 Introduction to Applied Behavior Analysis	
PSYC 173	Child Psychology
PSYC 174	Personality Theory
PSYC 175	Cross-Cultural Psychology
PSYC 240	Travel Seminar: the Person and Environment
PSYC 250	Introduction to Quantitative Analysis in The Social Sciences
PSYC 270	Psychology of Gender
PSYC 271	Abnormal Psychology
PSYC 273	Adolescent Psychology
PSYC 274	Social Psychology
PSYC 275	Educational Psychology
PSYC 278	Life Span Development

1 Course selections should be based on the requirements of the intended transfer to a four-year institution. Students should speak to their advisor for clarification.

2 Students must select one math course, one lab science course, and one technology cour and complete the 12 cr. requirement with any additional math or science cou technology requirement. If they succeed, they must take an additional course(s) in math or science from the List of Approved General Education Courses.

3 A variety of STSC -Student Success Seminar courses are available. Please speak to your academic advisor for assistance when selecting.

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits
ENGL 151	3
ENGL 152	3
COMM 154	3

GHUM

Course Code & Title	Credits
PHIL 191	3
ANY ARTS, MUSC, OR ENGL GEN. ED. COURSE	3
GEN. ED. HUMN	3

GHIS

Course Code & Title	Credits
GEN. ED. HISTORY	3
GEN. ED. HISTORY	3

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GSOC

Course Code & Title	Credits
PSYC 172	3
PSYC 173, 273, 278	3

GDIV

Course Code & Title	Credits
GEN. ED. DIVERSITY	3

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
MATH, SCIENCE, AND TECH	12

Concentration Courses

Course Code & Title	Credits
PSYCHOLOGY ELECTIVES	9

Elective Courses

Course Code & Title	Credits
STSC 150	2
ELECTIVE	4

Board Approval

History of Board approval dates

Board of Trustees Approval Date: February 28, 2019

Board of Trustees Approval Date: May 29, 2019

Board of Trustees Approval Date: March 25, 2021

Board Approved in batch on March 16, 2023 (STSC update - used admin save since there were so many programs being revised at once for the same change).

Reviewer Comments

EXHIBIT B-3

EXHIBIT B-3

Program Change Request

Date Submitted: 01/02/25 1:09 pm

Viewing: AS.CJ : Criminal Justice, Associate in Science

Last approved: 06/26/24 3:25 pm

Last edit: 01/10/25 10:08 am

Changes proposed by: Katherine Toy (ktoy)

Catalog Pages Using this Program	Criminal Justice, Associate in Science

Program Type	Associate of Science (AS)
Program Title	Criminal Justice, Associate in Science
Academic School	Business and Social Sciences
Effective Catalog Year	2025-2026
Program Code	AS.CJ
CIP Code	430107 - Criminal Justice/Police Science.

Program Description

EXHIBIT B-3

Students interested in criminal justice as a career will elect this two-year collegiate program. It is designed for those students planning to transfer to a four-year program ir and knowledge along with a basic academic background. Students pursuing this program on a part-time basis should consult an academic advisor for an appropriate seque

Program Objectives

Program Goals

	Program goals
PG1	NA

Program Learning Outcomes

	Students who successfully complete this program will be able to:
PLO1	Describe the philosophy of criminal justice.
PLO2	Describe crime and justice as public policy issues.
PLO3	Describe the unique characteristics of the criminal justice system.
PLO4	Identify the various sub-systems and the significance of their inter-relationships.
PLO5	Explain the evolution of law enforcement, judicial and correctional disciplines.
PLO6	Describe the structure of American courts.
PLO7	Describe the extraordinary powers held by criminal justice professionals.
PLO8	Discuss current issues in criminal justice.
PLO9	Communicate effectively in speech and writing.
PLO10	Use critical thinking and problem-solving skills in analyzing ethical issues.

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO 5	PLO 6
					FirstSemester	
ENGL 151						
CRIM 150						
CRIM 152						
					SecondSemester	
ENGL 152						
CRIM 155						
CRIM 255						
SOCI 181						
					ThirdSemester	
CRIM 254						
FRSC 105						
SOCI 231						
					FourthSemester	
CRIM 280						
POLI 161						
COMM 154						
PSYC 172						

Required Qualifications

Plan of Study Grid

First Semester		Credit Hours
ENGL 151	English I	3

Mathematics Gen. Ed. Requirement		3
CRIM 150	The Criminal Justice System	3
CRIM 152	Introduction to Law Enforcement	3
Any STSC - Student Success Seminar course [1]		2
	Credit Hours	14
Second Semester		
ENGL 152	English II	3
CRIM 155	Introduction to Corrections	3
CRIM 255	Criminal Law and Procedure	3
SOCI 181	Introduction to Sociology	3
Elective [2]		3
	Credit Hours	15
Third Semester		
CRIM 254	Constitutional Law and Rules of Evidence	3
FRSC 105	Forensic Science	4
SOCI 231	Social Problems	3
or SOCI 238	or Race and Ethnicity	
Technology Gen. Ed. Requirement [3]		3
Elective to meet 60 credits [2]		3
	Credit Hours	16
Fourth Semester		
CRIM 280	Criminal Investigation	3
or CRIM 281	or Criminal Investigation Theory	
POLI 161	American Federal Government	3
or POLI 162	or American State and Local Government	
COMM 154	Fundamentals of Public Speaking	3
PSYC 172	General Psychology	3
Humanities Gen. Ed. Requirement		3
	Credit Hours	15
	Total Credit Hours	60

1
A variety of STSC -Student Success Seminar courses are available. Please speak to your academic advisor for assistance when selecting.

2
Recommended Electives:

Criminal Justice Electives:

CRIM 151 Police Organization and Administration

CRIM 236 Criminology

CRIM 237 Juvenile Justice

CRIM 253 Ethics in Criminal Justice

Homeland Security Electives:

HLSC 170 Introduction to Homeland Security

HLSC 172 Domestic & International Terrorism

3
Students may attempt to “test out” of the technology requirement. If they succeed, they must take an additional course(s) in math, science, or technology from the List of

.

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits
NA	N/A

GHUM

Course Code & Title	Credits
NA	N/A

GSOC

Course Code & Title	Credits
NA	N/A

GSOC/ GHUM

Course Code & Title	Credits
NA	N/A

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
NA	N/A

General Education

Course Code & Title	Credits
NA	N/A

Concentration Courses

Course Code & Title	Credits
NA	N/A

Elective Courses

Course Code & Title	Credits
NA	N/A

Board Approval

History of Board approval dates

Board of Trustees Approval Date: May 29, 2007

Board of Trustees Approval Date: December 1, 2008

Board of Trustees Approval Date: August 24, 2009

Board of Trustees Approval Date: December 6, 2010

Board of Trustees Approval Date: August 26, 2013

Board of Trustees Approval Date: March 30, 2015

Board of Trustees Approval Date: January 24, 2019

Board Approved in batch on March 16, 2023 (STSC update - used admin save since there were so many programs being revised at once for the same change).

Board of Trustees Approval Date: May 30, 2024

Reviewer Comments

EXHIBIT B-4

Program Change Request

Date Submitted: 12/03/24 8:41 am

Viewing: AS.GADM : Graphic Arts, Design, & Media, Associate in Science

Last approved: 04/17/24 3:14 pm

Last edit: 12/03/24 8:41 am

Changes proposed by: James Marshall (jmarshall)

Catalog Pages Using this Program	Graphic Arts, Design, & Media; Associate in Science

Program Type	Associate of Science (AS)
Program Title	Graphic Arts, Design, & Media, Associate in Science
Academic School	Arts and Humanities
Effective Catalog Year	2025-2026
Program Code	AS.GADM
CIP Code	500102 - Digital Arts.

Program Description

The A.S degree in Graphic Arts, Design, and Media offers students the first two years of coursework in various design avenues. The program provides the foundation course design fields in print, multimedia, and the web. Students gain a comprehensive understanding of the discipline and the ability to create a portfolio of work necessary for a

Program Objectives

Program Goals

	Program goals
PG1	NA

Program Learning Outcomes

	Students who successfully complete this program will be able to:
PLO1	Construct, communicate, and modify specific messages with visual design tools (print or electronic). ~~electronic).~~
PLO2	Apply creative thinking and problem-solving techniques to various design tasks.
PLO3	Demonstrate ethical and social awareness of the history of design practices.
PLO4	Appraise and inspect others' work while participating in group critiques.
PLO5	Demonstrate skill in receptive and expressive communication.
PLO6	Analyze information gathered through different media and from a variety of sources.
PLO7	Develop aesthetic and intellectual understanding pertaining to visual communications.
PLO8	Develop and maintain a body of creative work.

Learning Outcomes Display (show only)

Course Code	PLO 1	PLO 2	PLO 3	PLO 4	PLO
				FirstSemester	
ENGL 151					
ARTS 182			Project Paper Exam		
PHOT 181	Project			Project	
GRPH 151	Project	Project	Project	Project	
				SecondSemester	
ENGL 152					
ARTS 183				Project	
GRPH 152					
				ThirdSemester	
GRPH 251	Project	Project	Project	Project	
ARTS 184	Project	Project	Project	Project	

				FourthSemester	
GRPH 281			Project	Project	
ARTS 186					
ARTS 286					
COEM 220	Project Presentation	Project Presentation		Project Presentation	Project Presentation
COEM 224					
COEM 230					
GRPH 101	Project Paper Exam	Project Paper Exam	Project Paper Exam	Project	
PHOT 187					
PHOT 188					
PHOT 207					
ARTS 186					
ARTS 286					
COEM 220	Project Presentation	Project Presentation		Project Presentation	Project Presentation
COEM 224					
COEM 230					
GRPH 101	Project Paper Exam	Project Paper Exam	Project Paper Exam	Project	
PHOT 187					
PHOT 188					
PHOT 207					
				FirstSemester	
ENGL 151					
ARTS 182			Project Paper Exam		
PHOT 181	Project			Project	
GRPH 151	Project	Project	Project	Project	
				SecondSemester	
ENGL 152					
ARTS 183				Project	
GRPH 152					
				ThirdSemester	
GRPH 251	Project	Project	Project	Project	
ARTS 184	Project	Project	Project	Project	
				FourthSemester	
GRPH 281			Project	Project	

Required Qualifications

~~Suggested~~

Plan of Study Grid

First Semester Credit Hours

ENGL 151	English I	3
~~ARTS 183~~	~~Basic Drawing~~	~~3~~
ARTS 182	Art From Renaissance to Modern World	3
or ARTS 205	or Modern Art	
PHOT 181	Basic Digital Photography	3
~~GRPH 101~~	~~History of Media and Design~~	~~3~~
GRPH 151	Digital Imagery	3
Any STSC - Student Success Seminar course [1]		2
	Credit Hours	14
Second Semester		
ENGL 152	English II	3
ARTS 183	Basic Drawing	3
GRPH 152	Course GRPH 152 Not Found (Digital Imagery II)	
Mathematics Gen. Ed. Requirement		3
~~ARTS 182~~	~~Art From Renaissance to Modern World~~	~~3~~
~~or ARTS 205~~	~~or Modern Art~~	
~~ARTS 184~~	~~Two-Dimensional Design~~	~~3~~
~~GRPH 151~~	~~Digital Imagery~~	~~3~~
Any Gen. Ed. Requirement		3
	Credit Hours	12
Third Semester		
GRPH 251	InDesign and Typography	3
ARTS 184	Two-Dimensional Design	3
Social Science Gen. Ed. Requirement		3
Technology Gen. Ed. Requirement [2]		3
~~Any Gen. Ed. Requirement~~		~~3~~
Graphic Arts, Design, and Media Elective [3]		3
	Credit Hours	15
Fourth Semester		
GRPH 281	Graphics Portfolio	3
Humanities or Social Science Gen. Ed. Requirement		3
Lab Science Gen. Ed. Requirement		4
Any Gen. Ed. Requirement		3
Graphic Arts, Design, and Media Elective [3]		3
	Credit Hours	16
	Total Credit Hours	57

1
A variety of STSC -Student Success Seminar courses are available. Please speak to your academic advisor for assistance when selecting.
2
Students may attempt to “test out” of the technology requirement. If they succeed, they must take an additional course(s) in math or science from the List of Approved Ge
3
Selection of electives should be based on the requirements of the four-year institution.

Graphic Arts, Design, and Media Electives

ARTS 186	Three-Dimensional Design
ARTS 286	Painting I
COEM 220	Video Location Production
COEM 224	Video Editing and Post Production
COEM 230	Audio Recording for Electronic Media
GRPH 101	History of Media and Design
PHOT 187	Experimental Digital Photography
PHOT 188	Intermediate Digital Photography
PHOT 207	Photojournalism

Degree Requirements Breakdown

GCOM

Course Code & Title	Credits

EXHIBIT B-4

ENGL 151 ~~NA~~	3 ~~NA~~
ENGL 152	3

GHUM

Course Code & Title	Credits
ARTS 182 or ARTS 205 ~~NA~~	3 ~~NA~~

GSOC

Course Code & Title	Credits
Any GSOC ~~NA~~	3 ~~NA~~

GSOC/ GHUM

Course Code & Title	Credits
Any GSOC/GHUM ~~NA~~	3 ~~NA~~

GMAT/ GSCI/ GTEC

Course Code & Title	Credits
Any GSCI, GMAT, GTEC ~~NA~~	10 ~~NA~~

General Education

Course Code & Title	Credits
Any ~~NA~~	6 ~~NA~~

Concentration Courses

Course Code & Title	Credits
ARTS 183 ~~NA~~	3 ~~NA~~
ARTS 184	3
GRPH 151	3
GRPH 152	3
GRPH 251	3
GRPH 281	3
PHOT 181	3

Elective Courses

Course Code & Title	Credits
GADM Electives ~~NA~~	6 ~~NA~~

Board Approval

History of Board approval dates

Board of Trustees Approval Date: January 26, 2018

NJPC Approval date: March 2018

Board of Trustees Approval Date December 6, 2018

Board of Trustees Approval Date: March 28, 2019

Board Approved in batch on March 16, 2023 (STSC update - used admin save since there were so many programs being revised at once for the same change).

Reviewer Comments

EXHIBIT B-5

Course Change Request

New Course Proposal

Date Submitted: 02/03/25 11:01 am

Viewing: BIOL 130L : Human Anatomy and Physiology I Lab

Last edit: 02/04/25 11:30 am

Changes proposed by: James Marshall (jmarshall)

Learning Outcomes

Display (show only)

In Workflow

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

Approval Path

1. 02/03/25 12:22 pm James Marshall (jmarshall): Approved for STEM Academic Administrator
2. 02/05/25 4:13 pm Vandana Saini (vsaini): Approved for STEM Dean
3. 02/05/25 4:36 pm James Marshall (jmarshall): Approved for

EXHIBIT B-5

Executive Director of Curriculum and Program Development

4. 02/13/25 4:42 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	Human Anatomy and Physiology I Lab

2. Hours

Semester Hours	1.00
Lecture	0.00
Lab	2.00
Practicum	0.00

3. Catalog Description

For display in the online catalog

This Laboratory course studies terminology associated with the study of human anatomy and physiology, the chemical, cellular, and tissue level of organization as well as the integumentary, skeletal, muscular, and nervous systems. Dissection and laboratory instrumentation reinforce all lecture material. It is highly recommended that students enrolling in this course have taken (a) high school biology or BIOL 114 or BIOL 119 and (b) high school chemistry or CHEM 180.

4. Requisites

Prerequisites

None

EXHIBIT B-5

Corequisites

For first attempt BIOL 130 is considered a corequisite. If the student should fail either lecture or lab after the first attempt then they may take the individual failed section.

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course

This course along with BIOL 130 Lecture is required for many Nursing Programs, including the one at Ocean County College.

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

General Education Category

Lab Science

General Education Status	Proposed

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:

EXHIBIT B-5

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Rowan College at Burlington County
Course Title	Human Anatomy & Physiology I Laboratory
Course Number	BIO 209
Number of Credits	1
Comments	

Transferability of Course

Georgian Court
University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BI213 Human Anatomy & Physiology I 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

EXHIBIT B-5

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIO2403 Human Anatomy & Physiology I 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY001 100 Level Biology Elective 1-credits	Major Elective	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL10210 Human Anatomy & Physiology I 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
EC 1-credit	Elective unless a student completes the lecture & lab for BIOL 130 & 131 then 01119127 & 01119128 A&P: Health Science 8-credits will be granted in the Major	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL1260 Anatomy & Physiology for Health Science I and BIOL2260 Anatomy & Physiology for Health Science II	Major (linked course must complete both BIOL 130 & 131 lecture & lab or only elective credit is granted)	

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Define the anatomic terms used to refer to the body in terms of directions and geometric planes.
CLO2	Describe the major cavities of the body and the organs they contain.
CLO3	Recognize terms related to the human body's anatomy.
CLO4	Match anatomical terms with the appropriate physiology.
CLO5	List the major body systems.
CLO6	Illustrate the anatomical location of the components of a cell and explain their function.
CLO7	Describe how cells function and divide.
CLO8	Discuss types of tissues and their importance in the body.
CLO9	Identify the major parts and functions of the skin and skeleton.
CLO10	Identify the major parts and functions of the joints and muscular system.
CLO11	Describe how joints, muscle, bones, and nerves work together to create movement.
CLO12	Explain the role of the brain and spinal cord in consciousness and control of the body.

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	Levels of Organization Introduction to Anatomy,	Labs, Unit Projects, and/ or Videos based on the topics below: Terminology, Basic Cellular	Lab Practical, Laboratory Exercises/Homeworks	CLO1-8

EXHIBIT B-5

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
	Chemical, Cellular and Tissue Organization	Mechanisms, Tissue Structure and Function		
TO2	Support Structures Integument, Bone Tissue and Skeleton	Labs, Unit Projects, and/ or Videos based on the topics below: Integument Layers, Structures within the Integument, Factors Influencing Functionality of the Integument, Osseous Tissue and Bone Structure Axial and Appendicular Skeleton: Structures and Markings	Lab Practical, Laboratory Exercises/Homeworks	CLO9
TO3	Movement Joints and Muscles	Labs, Unit Projects, and/ or Videos based on the topics below: Categories and Functions of Joints, Muscle Tissue Types and Functionality, the Muscular System	Lab Practical, Laboratory Exercises/Homeworks	CLO10, CLO11
TO4	Communication and Control Neurology	Labs, Unit Projects, and/ or Videos based on the topics below: Neural Tissue, Spinal Cord, Spinal Nerves and Spinal Reflexes, Brain and Cranial Nerves	Lab Practical, Laboratory Exercises/Homeworks	CLO12

12. Methods of Instruction

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

Laboratory

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

Information

Communication-Written and Oral Yes

Related Course Learning Outcome All

Related Outline Component All

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

Laboratory Exercises/Homeworks/Class Discussions

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome All

Related Outline Component All

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

Laboratory Exerices/Homeworks

Technological Competency

Information Literacy

_____

Society and Human Behavior

_____

Humanistic Perspective

_____

Historical Perspective

_____

Global and Cultural Awareness

_____

Ethical Reasoning and Action

_____

Independent/Critical Thinking	Yes
Related Course Learning Outcome	All
Related Outline Component	All

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

Laboratory Practical

14. Needs

Instructional Materials (text etc.):

An appropriate Laboratory Manual will be selected. Please contact the Department Office for current adoptions.

Technology Needs:

Computers with internet capability, DVD and/or VCR, overhead projectors, microscopes and video projection capabilities. Web-based Materials.

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

Presently employed and Adjunct Faculty.

Facility Needs:

Laboratory setting and appropriate laboratory materials

Library needs:

NA

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: 2304

EXHIBIT B-6

EXHIBIT B-6

Course Change Request

New Course Proposal

Date Submitted: 02/04/25 9:50 am

Viewing: BIOL 131L : Human Anatomy and Physiology II Lab

Last edit: 02/04/25 11:44 am

Changes proposed by: James Marshall (jmarshall)

Learning Outcomes

Display (show only)

In Workflow

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

Approval Path

1. 02/04/25 9:50 am James Marshall (jmarshall): Approved for STEM Academic Administrator
2. 02/05/25 4:14 pm Vandana Saini (vsaini): Approved for STEM Dean
3. 02/05/25 4:36 pm James Marshall (jmarshall): Approved for

EXHIBIT B-6

Executive Director of Curriculum and Program Development

4. 02/13/25 4:42 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	Human Anatomy and Physiology II Lab

2. Hours

Semester Hours	1.00
Lecture	0.00
Lab	2.00
Practicum	0.00

3. Catalog Description

For display in the online catalog

This Laboratory course studies the endocrine, cardiovascular, respiratory, digestive, and urinary systems; and reproduction. Dissection and instrumentation reinforce all lecture materials.

4. Requisites

Prerequisites

BIOL 130 AND BIOL 130L with a grade of C or better

Corequisites

For the first attempt BIOL 131 is considered a corequisite. If the student should fail either lecture or lab after the first attempt then they may take the individual failed section.

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course

This course along with BIOL131 Lecture is a prerequisite for Nursing Programs, including OCC's program. In addition, it is a prerequisite for several other health related programs (i.e. Radiology, Occupation therapy, Physical Therapy).

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

General Education Category

Lab Science

General Education Status	Proposed

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)

EXHIBIT B-6

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Rowan College at Burlington County
Course Title	Human Anatomy and Physiology II Laboratory
Course Number	BIO 213
Number of Credits	1
Comments	

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BI214 Human Anatomy & Physiology II 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Kean University

EXHIBIT B-6

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIO2404 Human Anatomy & Physiology II 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY001 100 Level Biology Elective 1-credit	Major Elective	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL10212 Human Anatomy & Physiology II 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
EC 1-credits	Elective unless a student completes the lecture & lab for BIOL 130 & 131 then 01119127 & 01119128 A&P: Health Science 8-credits will be granted in the Major	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL1260 Anatomy & Physiology for Health Science I and BIOL2260 Anatomy & Physiology for Health Science II	Major (linked course must complete both BIOL 130 & 131 lecture & lab or only elective credit is granted)	

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Describe the structures and functions associated with the endocrine, cardiovascular, respiratory, digestive, urinary, and reproductive systems.
CLO2	Describe the relationship and interactions between these body systems.
CLO3	Describe what an acid and base are and how buffer systems play a role in our body.

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	Hormonal Control Endocrine System	Labs, Unit Projects, and/ or Videos based on the topics below: Anatomy of the Glands and Organs of the Endocrine System	Lab Practical, Laboratory Exercises/Homeworks	CLO1, CLO2
TO2	Cardiovascular Blood, Heart, Blood Vessels and Circulation, Lymphatic System and Immunity	Labs, Unit Projects, and/ or Videos based on the topics below: Functions and Physical Characteristics of Blood, Blood Types, Anatomy and physiology of the Heart, Cardiodynamics, Anatomy and Locations of the Arteries and Veins, Circulatory Circuit.	Lab Practical, Laboratory Exercises/Homeworks	CLO1, CLO2
TO3	Environmental Exchange	Labs, Unit Projects, and/ or Videos based on the	Lab Practical, Laboratory Exercises/Homeworks	CLO1, CLO2, CLO3

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
	Respiratory System, Digestive System, Metabolism, Energetics,	topics below: Anatomy and Functions of the Respiratory Structures and Neural Control, Digestive Anatomy and Functionality		
TO4	Urinary System, Fluid, Acid-base Balance, Reproductive System	Labs, Unit Projects, and/ or Videos based on the topics below: Urinary Anatomy and the Nature of Fluid and Ion Movement Through the Systems, Anatomy and Functions of the Male and Female Reproductive Systems	Lab Practical, Laboratory Exercises/Homeworks	CLO1, CLO2

12. Methods of Instruction

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

Laboratory

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

Information

Communication-Written and Oral	Yes
Related Course Learning Outcome	All

EXHIBIT B-6

Related Outline Component: All

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

Laboratory Reports/Exercises/Homeworks/Class Discussions

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning: Yes

Related Course Learning Outcome: All

Related Outline Component: All

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

Lab Practicals, Laboratory Exerices/Homeworks

Technological Competency

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness

Ethical Reasoning and Action

Independent/Critical Thinking: Yes

Related Course Learning Outcome	All
Related Outline Component	All

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

Lab Practicals

14. Needs

Instructional Materials (text etc.):

An appropriate Laboratory Manual will be selected. Please contact the Department Office for current adoptions. Power Point, overheads, microscope slides, organ models.

Technology Needs:

Computers with internet capability, DVD and/or VCR, overhead projectors, microscopes and video projection capabilities.

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

Presently Employed and Adjunct Faculty

Facility Needs:

Laboratory setting and appropriate laboratory materials

Library needs:

NA

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: 2305

EXHIBIT B-7

Course Change Request

New Course Proposal

Date Submitted: 01/25/25 7:51 pm

Viewing: BIOL 161L : General Biology I Lab

Last edit: 02/04/25 11:07 am

Changes proposed by: James Marshall (jmarshall)

Learning Outcomes
Display (show only)

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	General Biology I Lab

2. Hours

Semester Hours	1.00
Lecture	0.00
Lab	2.00
Practicum	0.00

3. Catalog Description

For display in the online catalog	Major concepts discussed include cell structure, bio-chemical reactions, energy relationships, evolution, and the dynamics of plant functions. The lab entails experimentation, instrumentation, and microscopic analysis. It is highly recommended that students enrolling in this course have taken high school biology and high school chemistry or BIOL 114 and high school chemistry.

4. Requisites

Prerequisites	None
Corequisites	For the first attempt, BIOL 161 lecture must be taken with BIOL 161L. If the student should fail either lecture or lab after the first attempt, then they may take the individual failed section.

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course	This course will contribute to the fulfillment of the Lab Science General Education requirement for graduation and transfer. The course is required for all students planning to major in the physical and natural sciences.

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

General Education Category: Lab Science

General Education Status: Proposed

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution: Rowan College at Burlington County

Course Title: General Biology I - Laboratory

Course Number: BIO 104

Number of Credits: 1

Comments:

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BI121 Cellular Organization, Energetics & Function 4-credits	Elective unless a student completes the lecture & lab for BIOL 161 & 162 then 01119101 General Biology I and 01119102 General Biology II 8-credits will be granted in the Major	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIO1300 General Biology I 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY110 Introduction to Cell and Molecular Biology 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Rowan University

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

BIOL01100 Biology I 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
01119 Elective 1-credits	Elective unless a student completes the lecture & lab for BIOL 161 & 162 then 01119101 General Biology I and 01119102 General Biology II 8-credits will be granted in the Major	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL1200 Cells and Molecules Lab 1-credits	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	Describe the philosophy of biological science and the characteristics that distinguish living from non-living things.
CLO2	Discuss the basic concepts of chemistry that are related directly to the function of a cell as a living system.
CLO3	Identify the structure and function of macromolecules common to all organisms and the chemical processes of synthesis and hydrolysis of these complex molecules.
CLO4	Identify cell structure and function of organelles. Explore cells under microscope.
CLO5	Describe the cell membrane, comparing and contrasting the mechanism for transport of materials across the cell membrane along with describing the mechanism for transport of material across the cell membrane.
CLO6	Explain the process of heredity based on Mendelian principle, compare and contrast genotype and phenotype and briefly discuss chromosomal mutations leading to genetic disorders.
CLO7	Describe the role of DNA as the Master Molecule summarizing the events of DNA replication and error correction.
CLO8	Outline the flow of genetic information in cells from DNA to proteins and compare the processes of transcription and translation in protein synthesis.
CLO9	Visually compare and contrast mitosis in plant and animal cells, in different stages of division
CLO10	Discuss meiosis and mitosis variations found in sexual reproduction of animal cells.
CLO11	Describe the classification, life cycle and distinguishing characteristics of fungi, and explain the metabolic diversity, asexual reproduction, genetic recombination, and ecological roles of bacteria.
CLO12	Identify the steps by which light energy is converted into chemical energy during the light dependent and light independent reactions of photosynthesis.
CLO13	Compare and contrast characteristics of bacteria and viruses.
CLO14	Describe the classification hierarchies used to categorize organisms relating them to plant diversity and structure.

CLO15	Describe the characteristics that distinguish the lower tracheophytes from the higher tracheophytes citing the significance of the flower, fruit, and seed.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Introduction to Biological Science	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO2	Nature of molecules	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La Laborat
TO3	Chemical building blocks of life	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La Laborat
TO4	DNA – the master molecule and enzymes natures catalysts	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La Laborat
TO5	Early history of life.	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz
TO6	The structure of cells	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO7	Cell membranes – cell to cell interactions	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO8	How cells divide	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO9	Transcription and Translation	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO10	Sexual reproduction and Meiosis	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO11	Energy and metabolism. How cells harvest energy.	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO12	Bacteria, Fungi, Viruses	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La Microsc
TO13	Photosynthesis	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO14	Overview of plant diversity.	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO15	Plant form –Vegetative plant development	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz, La
TO16	Evolution-Genes within populations	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz
TO17	The evidence of evolution	Post Chapter Quiz. Laboratory (Microscopic Examination, Pre-Lab Questions)	Quiz

12. Methods of Instruction

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

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

Information

Communication-Written and Oral Yes

Related Course Learning Outcome All

Related Outline Component All

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

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome All

Related Outline Component All

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

Technological Competency Yes

Related Course Learning Outcome CLO4, 11, 15

Related Outline Component TO6, 8, 12, 14

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

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness

Ethical Reasoning and Action

Independent/Critical Thinking Yes

Related Course Learning Outcome All

Related Outline Component All

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

14. Needs

14. Needs

Instructional Materials (text etc.):	Power Point Presentation, Laboratory Manual. (Contact Department for current adaptation) Instructor Companion Website (From Publisher)
Technology Needs:	Desktop Computer/Overhead Projector, College Course Management System.
Human Resource Needs (Presently Employed vs. New Faculty):	Presently Employed and Adjunct Faculty
Facility Needs:	Labratory
Library needs:	NA

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

Reviewer Comments

EXHIBIT B-8

Course Change Request

New Course Proposal

Date Submitted: 01/25/25 7:56 pm

Viewing: **BIOL 162L : General Biology II Lab**

Last edit: 02/04/25 11:16 am

Changes proposed by: James Marshall (jmarshall)

Learning Outcomes
Display (show only)

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	General Biology II Lab

2. Hours

Semester Hours	1.00
Lecture	0.00
Lab	2.00
Practicum	0.00

3. Catalog Description

For display in the online catalog	This course is a continuation of BIOL 161, with emphasis on animal diversity, reproduction, development, physiology of various systems, ecology, and evolution/histories. . The lab entails experimentation, instrumentation, and microscopic analysis.

4. Requisites

Prerequisites	BIOL 161 Lecture & BIOL 161L
Corequisites	For the first attempt BIOL 162 lecture must be taken with BIOL 162L. If the student should fail either lecture or lab after the first attempt, then they may take the individual failed section.

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course	This course will transfer to a four- year Science or Liberal Arts program and increases scientific literacy in the community at-large.

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

General Education Category	Lab Science
General Education	Proposed

Status

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Rowan College at Burlington County
Course Title	General Biology II - Laboratory
Course Number	BIO 108
Number of Credits	1
Comments	

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BI120 Biological Diversity & Phylogeny 4-credits	Elective unless a student completes the lecture & lab for BIOL 161 & 162 then 01119101 General Biology I and 01119102 General Biology II 8-credits will be granted in the Major	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIO1400 General Biology II	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY-109 Introduction to Ecology and Evolution 4-credits	Major (linked course must complete both lecture & lab or only elective credit is granted)	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL01101 Biology II 4-credits	Major (linked course must complete both lecture & lab or	

	only elective credit is granted)	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
01119 Elective 1-credits	Elective unless a student completes the lecture & lab for BIOL 161 & 162 then 01119101 General Biology I and 01119102 General Biology II 8-credits will be granted in the Major	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL1405 Biodiversity & Evolutionary Lab	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	Describe the distinctive characteristics found among the members of the kingdom Protista, including modes of nutrition, body forms, mobility, and reproduction.
CLO2	List several characteristics common to most animals. Compare and contrast structural features, adaptations, reproduction, and life cycles
CLO3	Identify distinguishing characteristics of phyla Porifera and Cnidaria.
CLO4	Describe the structural features of flatworms and roundworms and their functions, including parasitic flatworms.
CLO5	Describe the classes of mollusks and annelids, comparing distinctive body structures, and give examples of animals that belong to each class.
CLO6	Distinguish among the subphyla and classes of arthropods, and give examples of animals that belong to each group.
CLO7	List the specific characteristics of echinoderms, regeneration and reproduction.
CLO8	Explain the role of fishes to evolutionary patterns, characteristics of respiration and nervous system compared to other species
CLO9	Trace the evolution of vertebrates according to current hypotheses and describe the distinguishing characteristics of reptiles, birds, and mammals.
CLO10	Describe the organization and complexity of animal systems with respect to tissues, organs, organ systems, and homeostasis.
CLO11	Identify the principle cells and organs of the circulatory system, their structure and interactions within their system and other organ systems.
CLO12	Identify the principle cells and organs of the nervous system, their structure and interactions within their system and other organ systems.
CLO13	Identify the principle cells and organs of the immune and endocrine systems, their structure and interactions within their system and other organ systems.
CLO14	Identify the principle cells and organs of the respiratory system, their structure and interactions within their system and other organ systems.
CLO15	Identify the principle cells and organs of digestion and excretion, their structure and interactions within their system and other organ systems.
CLO16	Define the principles and identify the structures involved with mammalian reproduction and development.
CLO17	Fundamentals of ecological systems, specimen interactions, human impact and

	biodiversity.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Structure and Systematics of Protists and Animals Eukaryotics and Origins, overview of structures, organization of tissue, homeostasis	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La
TO2	Sponges, Cnidarians, and Lower Worms Outline characteristics Cnidarians. Describe the invertebrate phylym Porifera. Explain features of nematode. Compare and contrast invertebrates traits.	2. Sponges, Cnidarians, and Lower Worms Outline characteristics Cnidarians. Describe the invertebrate phylym Porifera. Explain features of nematode. Compare and contrast invertebrates traits.	Quiz, La
TO3	Coelenterates I: Mollusks and Annelids Outline invertebrate in phylum Mollusca. Summarize characteristics of Annelids. Compare and contrast body planes, circulation, respiration, and reproduction.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La
TO4	Coelenterates II: Arthropods Describe characteristics, members of group, compare intracellular digestion/extracellular, compare gas exchange methods to vertebrae, life cycles.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La
TO5	Coelenterates III : Echinoderms Compare and contrast features of Echinoderms. Explain pentaradial symmetry. Describe the five extant classes.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La
TO6	Chordate I: General Characteristics Outline nonvertebrate Chordates and vertebrate Chordates. Describe evolutionary relationships of chordates to other taxa.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La
TO7	Chordate II: Sharks and Fishes. Discuss the significance of the evolutionary innovations of fishes. List the major groups	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis) Quiz, Exam Laboratory Practical 8h	Quiz, La
TO8	Chordates III: Amphibians, Reptiles, and Birds. Outline the characteristics and groups of amphibians. Explain transition from aquatic to terrestrial environment. Discuss evolution of reptiles, and give examples of major orders. List characteristics of birds and compare and contrast to amphibians and reptiles.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La
TO9	Chordates IV: Mammals Compare the three living groups of mammals	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La
TO10	Mammalian System Physiology Describe and outline Animal Form and Function. Compare and contrast tissues, vital systems, interactions, and the role each system has in maintaining homeostasis.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La

TO11	General Developmental Biology Identify and explain the main structures/events of reproductive organs, fertilization, stages of development.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La
TO12	Ecology and Evolution Discuss Biogeochemical Cycles, Habitats, and Biodiversity crisis.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, La Global E Presenta

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?	Informal discussions, demonstrations, discovery-based laboratory assignments, web-based research

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

Information

Communication-Written and Oral Yes

Related Course Learning Outcome a, d, e, f, h, j, p

Related Outline Component 2,3,4,6,7,10,12

Assessment of General Education Goal (Recommended but not limited to)
Essays, Evolution Presentation

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome All

Related Outline Component All

Assessment of General Education Goal (Recommended but not limited to)
Quiz, Labratory Practical

Technological Competency Yes

Related Course Learning Outcome All

Related Outline Component All

Assessment of General Education Goal (Recommended but not limited to)
Online post chapter quiz. Microscopic analysis of specimen.

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness Yes

Related Course Learning Outcome q

Related Outline Component TO9, TO12

Assessment of General Education Goal (Recommended but not limited to)
Exam, Global Ecological Paper/Presentation

Ethical Reasoning and Action

Independent/Critical Thinking Yes

Related Course Learning Outcome f, i

Related Outline Component TO2, TO3, TO5

Assessment of General Education Goal (Recommended but not limited to)
Microscopic analysis of species. Lab reports outlining systems/functions.

14. Needs

Instructional Materials (text etc.):	Power Point Presentation, Laboratory Manual. (Contact Department for current adaptation) Instructor Companion Website (From Publisher)
Technology Needs:	Desktop Computer/Overhead Projector, College Course Management System.
Human Resource Needs (Presently Employed vs. New Faculty):	Presently Employed and Adjunct Faculty
Facility Needs:	Laboratory
Library needs:	None

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

EXHIBIT B-9

Course Change Request

New Course Proposal

Date Submitted: 01/25/25 7:57 pm

Viewing: BIOL 232L : Microbiology Lab

Last edit: 02/04/25 10:29 am

Changes proposed by: James Marshall (jmarshall)

Learning Outcomes
Display (show only)

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	Microbiology Lab

2. Hours

Semester Hours	1.00
Lecture	0.00
Lab	2.00
Practicum	0.00

3. Catalog Description

For display in the online catalog	A course concerned primarily with microorganisms as they pertain to human welfare. Laboratory activities relate to isolation, culture, identification and control of microorganisms.

4. Requisites

Prerequisites	BIOL 131 and BIOL 131L or BIOL 162 and BIOL 162L
Corequisites	For the first attempt BIOL 232 is considered a corequisite. If the student should fail either lecture or lab after the first attempt then they may take the individual failed section.

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course	This course is required by the programs of study as outlined and approved for students in the nursing and/or allied health department.

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

General Education Category	Lab Science
General Education Status	Proposed

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution Atlantic Cape CC
Course Title Microbiology
Course Number BIOL 250
Number of Credits 4
Comments

Institution Mercer County CC
Course Title Microbiology
Course Number BIOL 201
Number of Credits 4
Comments

Institution Brookdale CC
Course Title Microbiology
Course Number BIOL 213
Number of Credits 4
Comments

Transferability of Course

Georgian Court University

Kean University

Monmouth

University

Rowan University

Rutgers - New Brunswick, Mason Gross School of the Arts

Stockton University

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Describe the major parts of a compound light microscope and demonstrate its correct use.
CLO2	Identify the major groups of microorganisms under the microscope.
CLO3	Understand and perform simple and differential staining procedures.
CLO4	Understand and perform aseptic technique when culturing microbes.
CLO5	Explain the nutritional requirements and different media for culturing microbes.
CLO6	Describe cultural characteristics in liquid and solid media.
CLO7	Explain the use of differential, selective and enriched media.
CLO8	Describe and observe the biochemical activities of microorganisms.
CLO9	Describe and perform serial dilution and enumeration of microbes in food.
CLO10	Explain and demonstrate the effects of physical and chemical agents on microbial populations

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Use and Care of the Compound Microscope.	Lab Experiment; Complete questions in lab manual.	Quiz, Ex
TO2	Identify the major groups of microbes. Identify external and internal structures.	Lab Experiment; Sketch microbes and structures	Quiz, Ex
TO3	Culturing microbes using aseptic Technique	Lab experiment; Complete questions in lab manual	Quiz, Ex
TO4	Simple and differential staining techniques.	Lab Experiment; Complete questions in lab manual	Quiz, Ex
TO5	Microbial Growth on liquid and solid media.	Lab Experiment; Complete questions in lab manual	Quiz, Ex
TO6	Microbial Metabolism The diverse metabolism of microbes.	Lab Experiment; Complete questions in lab manual.	Quiz, Ex
TO7	Microbial nutrition and the factors that affect growth.	Lab Experiment; Complete questions in lab manual.	Quiz, Ex
TO8	Physical methods of controlling microbial growth.	Lab Experiment; Complete questions in lab manual	Quiz, Ex
TO9	Chemical agents used for microbial control.	Lab Experiment; Complete questions in lab manual	Quiz, Ex
TO10	Antibiotic sensitivity testing	Lab Experiment; Complete questions in lab manual	Quiz, Ex
TO11	Identification of Unknown bacterium	Lab Experiments	Lab Rep
TO12	Serial dilution and enumeration of microbes	Lab Experiment; Complete questions in lab manual	Quiz, Ex

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?	Lecture/Discussion, Laboratory Experiments, Demonstrations

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

Information

Communication-Written and Oral Yes

Related Course Learning Outcome CL01 CL05 CL06 CL07 CL08 CL09 CL10 CL11

Related Outline Component TO1 TO2 TO5 TO7 TO8 TO11

Assessment of General Education Goal (Recommended but not limited to)
Laboratory Report, Quizzes

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome CL01 CL02 CL03 CL04 CL05 CL06 CL07 CL08 CL09 CL10 CL11

Related Outline Component TO1 TO2 TO3 TO4 TO5 TO6 TO7 TO8 TO9 TO10 TO11 TO12

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

Technological Competency

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness

Ethical Reasoning and Action

Independent/Critical Thinking Yes

Related Course Learning Outcome CL11

Related Outline Component TO12

Assessment of General Education Goal (Recommended but not limited to)
Laboratory Experiments, Exams

14. Needs

Instructional Materials (text etc.):	PowerPoint presentation, laboratory manual, (contact dept. for current adoption), and instructor companion website
Technology Needs:	Desktop computer/overhead projector and college course management system
Human Resource Needs (Presently Employed vs. New Faculty):	Presently Employed and Adjunct Faculty
Facility Needs:	Laboratory setting and appropriate laboratory materials
Library needs:	None

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

Reviewer Comments

EXHIBIT B-10

EXHIBIT B-10

Course Change Request

New Course Proposal

Date Submitted: 01/25/25 7:58 pm

Viewing: CHEM 180L : Introductory Chemistry Lab

Last edit: 02/18/25 10:06 am

Changes proposed by: James Marshall (jmarshall)

Learning Outcomes
Display (show only)

1. Course Information

Subject	CHEM - Chemistry
School	Science, Technology, Engineering, Mathematics
Course Title	Introductory Chemistry Lab

2. Hours

Semester Hours	1.00
Lecture	0.00
Lab	3.00
Practicum	0.00

3. Catalog Description

For display in the online catalog	A one-semester laboratory course designed for those who have not had a high-school science background or for those who have graduated from high school ten or more years ago. This course emphasizes hands-on laboratory skills especially useful for those students preparing to enter the para-medical training programs or those wishing to prepare for college chemistry. The following are covered in this course: measurement, elements and compounds, properties of matter, atomic theory, nomenclature, quantitative analysis, chemical equations, calculations in chemistry, modern theory and the periodic table, chemical bonds, gaseous states of matter, matter and energy, atomic structure, periodic law, equation-writing, stochiometrics, pneumatics, solutions, acids, bases, salts, and oxidation-reduction. It is highly recommended that students enrolling in this course have taken high school algebra or MATH 011.

4. Requisites

Prerequisites	None
Corequisites	For the first attempt CHEM 180 is considered a corequisite. If the student should fail either lecture or lab after the first attempt then they may take the individual failed section.

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course	This course provides a conceptual approach to the study of chemistry.

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

General Education Category: Lab Science

General Education Status: Proposed

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution: County College of Morris

Course Title: Intro Chemistry - Lab

Course Number: CHM-118

Number of Credits: 1

Comments:

Institution: Rowan College at Burlington County

Course Title: Chemistry Laboratory

Course Number: CHE-108

Number of Credits: 1

Comments:

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CH111 World of Chemistry 4-credits	General Education (linked course must complete both lecture & lab or only elective credit is granted)	

Kean University

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

CHEM1010 Preparatory Chemistry 4-credits	General Education (linked course must complete both lecture & lab or only elective credit is granted)	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CE101 Chemistry in Our Lives 4-credits	General Education (linked course must complete both lecture & lab or only elective credit is granted)	Unable to determine status

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CHEM 05102 Chemistry in Everyday Life 4-credits	General Education (linked course must complete both lecture & lab or only elective credit is granted)	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
01160134 Introduction to Chemistry 4-credits	General Education (linked course must complete both lecture & lab or only elective credit is granted)	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CHEMEC Chemistry Elective 4-credits	General Education (linked course must complete both lecture & lab or only elective credit is granted)	

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 basic mathematical principles to data collection and analysis: set up and solve chemical problems involving conversation of units, use of formulas, and solve equations for one variable;. collect and organize data sets and derive the equation of a straight line from a graph, and analyze data according to the rules of significant figures
CLO2	Describe and demonstrate basic application of fundamental chemical laws and theories related to the chemical structure and properties of matter, namely: describe states of matter and application of gas laws; discuss basic electronic structure of atoms and ions in terms of atomic theory, define isotopes, write ground state electron configurations, and relate them to chemical bonding and valence numbers; describe oxidation and reduction; and identify different types of chemical reactions.
CLO3	Write, analyze and use chemical equations in solving problems and predicting processes outcomes and efficiency: name simple inorganic compounds according to standard rules of nomenclature and write chemical formulas of simple inorganic compounds based on their systematic names; calculate molar masses and molar quantities for chemical substances; write an balance chemical equations; use the balanced chemical equations for calculations of theoretical and percent yields of chemical reactions and discuss potential sources of non-ideal product yields.
CLO4	Work effectively and safely in a laboratory environment
CLO5	Communicate effectively, both orally and in writing
CLO6	Develop formal (abstract) thinking skills as well as concrete thinking skills, think critically and analyze chemical problems
CLO7	Discuss the scientists responsible for the development of the main concepts

	discussed in this course and their country of origin or study

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Foundation Concepts Introduction to Chemistry, Standards for Measurement, Elements and Compounds	Scientific Method, States of Matter, Scientific Notation, Significant Figures, The Metric System, Dimensional Analysis, Mass, Volume, Temperature, and Density, Elements, Compounds, Chemical Formulas.	Lab Exer
TO2	Matter and Early Atomic Theory, Chemical Terminology Properties of Matter, Atomic Theory, Nomenclature	Changes, Solving Chemical Problems, Energy and Heat, Dalton's Model of the Atom, Composition of Compounds, Electric Charge, Ions, Subatomic Structures, Isotopes, Atomic Mass, Naming: Elements, Ions, Binary Compounds, Polyatomic Ions, Acids	Lab Exer
TO3	Quantitative Calculations for Chemistry Quantitative Composition, Chemical Equations, Stoichiometry	Moles, Molar Mass, Percent Composition, Empirical Formulas, Molecular Formulas, Writing and Balancing Chemical Equations, Thermodynamics, Stoichiometry, Mole-Mole, Mole-Mass, Mass-Mass Calculations, Limiting Reaction	Lab Exer
TO4	Modern Theory, Bonding, and Gases Modern Theory, Periodic Table, Chemical Bonds, Gas Laws	Historical Significance of Atomic Theory, EM Radiation, Energy Levels of Electrons, Atomic Structure, Applications to the Periodic Table, Lewis Structures, Ionic Bonds, Covalent Bonds, Electronegativity, Molecular Shape, VSEPR Theory, Kinetic Molecular Theory, Gas Laws from Boyle's Law to Dalton's Law of Partial Pressure	Lab Exer

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?	Lecture/Discussion/Laboratory Experimentation

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

Information

Communication-Written and Oral

Quantitative Knowledge and Skills Yes

Related Course Learning Outcome CLO1, CLO2, CLO3, CLO4

Related Outline Component TO1, TO2, TO3

Assessment of General Education Goal (Recommended but not limited to)
Unit Test and Lab Exercises

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7

Related Outline Component TO1, TO2, TO3, TO4

Assessment of General Education Goal (Recommended but not limited to)
Unit Test and Lab Exercises

Technological Competency

_____

Information Literacy

_____

Society and Human Behavior

_____

Humanistic Perspective

_____

Historical Perspective

_____

Global and Cultural Awareness

_____

Ethical Reasoning and Action

_____

Independent/Critical Thinking	Yes
Related Course Learning Outcome	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7
Related Outline Component	TO1, TO2, TO3, TO4

Assessment of General Education Goal (Recommended but not limited to)
Unit Test and Lab Exercises

14. Needs

Instructional Materials (text etc.):	An appropriate textbook will be selected. Please contact the Department Office for current adoption. A pocket calculator with logarithmic functions and safety goggles are required.
Technology Needs:	Computers for presentations, chemistry animations and data graphing.
Human Resource Needs (Presently Employed vs. New Faculty):	Presently Employed and Adjunct Faculty.
Facility Needs:	Laboratory setting and appropriate laboratory materials.
Library needs:	None

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

EXHIBIT B-11

EXHIBIT B-11

Course Change Request

New Course Proposal

Date Submitted: 12/03/24 3:21 pm

Viewing: GRPH 152 : Graphic Design II

Last edit: 01/10/25 9:05 am

Changes proposed by: James Marshall (jmarshall)

Programs referencing this course	AS.GADM: Graphic Arts, Design, & Media, Associate in Science

Learning Outcomes Display (show only)

1. Course Information

Subject	GRPH - Graphic Design
School	Arts and Humanities
Course Title	Graphic Design II

2. Hours

Semester Hours	3.00000
Lecture	2
Lab	2
Practicum	0

3. Catalog Description

For display in the online catalog

Graphic Design II is an advanced college-level course that builds on foundational skills in industry-standard computer imaging. This emphasizes imaging for color, vector art, and illustration as well as developing various design and creative software skills via Adobe Illustrator. The course focuses on vector art creation through assignments geared toward multiple media outputs, including print and interactive/online applications.

This course encourages students to integrate traditional art skills with digital tools, centering on vector art creation and the use of vector and raster images in design and illustration. Students will explore how combining these image types can enhance communication and produce unique visual effects. Through real-world assignments, students will develop problem-solving techniques, apply both traditional and conceptual verbal/visual skills, and refine their craft. Assignments require students to blend traditional media with digital technologies to deepen their creative practice. These skills are essential for students aiming to transfer or pursue careers in the graphic design industry.

4. Requisites

Prerequisites	GRPH 151: Graphic Design I
Corequisites	None

5. Course Type

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

6. Justification

Describe the need for this course

This course is essential component of the A.S. Degree program in Graphic Arts, Design, and Media.
The course is intended for students interested in learning how to create and edit basic vector graphics, combining them with raster images for professional use. Topics include fundamental design elements and principles, developing vector and raster images for print and web, some color theory, graphic file formats and resolution.
Students will acquire both a theoretical understanding and a foundation of practices and vocabularies in these areas, which will lay the foundation for future creative work and projects.

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 initiative

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

	Add item
1	This course will help the college to fulfill its mission of fostering excellence by offering comprehensive programs that develop intentional learners of all ages.
2	This course is consistent with the following goals of the college as expressed in the Academic Master Plan: o Provide a challenging, coherent, and integrated curriculum including high quality instructional and cultural programs for a diverse population of students. o Establish a shared commitment to high and meaningful educational and ethical standards. o Prepare students for successful transfer to other educational institutions. o Prepare students for a rewarding life marked by personal growth and lifelong learning.

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Bergen CC
Course Title	Graphic Design II
Course Number	ART 261
Number of Credits	3
Comments	

Institution	County College of Morris
Course Title	Computer Graphics for Designers II
Course Number	GRD 109

Number of Credits	3
Comments	

Institution	Sussex County CC
Course Title	Digital Imagery &Editing
Course Number	GRAD 128
Number of Credits	3
Comments	

Institution	Salem CC
Course Title	Digital Illustration
Course Number	CGA 132
Number of Credits	3
Comments	

Institution	Rowan College of South Jersey
Course Title	Electronic Illustration I
Course Number	CGA 215
Number of Credits	3
Comments	

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:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Analyze and critique individual graphics and illustrations, demonstrating an understanding of the importance of the elements and principles of art in various advanced design projects.
CLO2	Develop and apply advanced graphic design terminology.
CLO3	Explore and implement advanced graphic design techniques, including vector image creation, the use of Bézier curves, and Adobe Illustrator software, while integrating previously learned raster image creation techniques and software.
CLO4	Develop a comprehensive understanding of Bézier curves, vector art, and the distinction between vector and bitmap images.
CLO5	Demonstrate proficiency in creating and modifying Bézier curves and producing complex vector art images.
CLO6	Explain both basic and advanced stages of the design process, including the historical and social context of graphic design and its impact on society.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	-Introduction to Adobe Illustrator: • Workspace basics; • How to set-up documents in vector art environment; • File formats; •Understanding the difference between raster & vector images; -Basic tools applied to an illustration;	• Reading in course text • Class discussions • Presentations • Exercises • Project	• Quizze • Writte • Projec
TO2	-Workspace: -Customize the workspace; -Properties panel; -Artboards; T-ool galleries; -Set up preferences; -View artwork; -Recover document data after a crash- -Recovery, undo, and automation; ;Files and templates; -Rulers, grids, and guides ; -Synchronize settings using Adobe Creative Cloud;	• Reading in course text • Writing • Class discussions • Project • Exercises • Presentations	• Desigr • Writte • Projec • Quizze
TO3	-Drawing/rendering; -Drawing basics; - Draw with the Pen, - -Curvature, and Pencil tool; -Edit paths; -Draw simple lines and shapes ; -Image Trace ; -Adjust path segments; -Simplify a path; -Expressive Strokes: with Tool; -Stroke -Profiles, Stroke Panel; -Define perspective grids; -Create 3D objects; -Symbols; -Symbolism tools and symbol sets; -Using elements and principles of design to create a draft to digital imaging;	• Reading in course text • Writing • Class discussions • Project • Exercises • Presentations	• Quizze • Writte • Projec

EXHIBIT B-11

TO4	-Color; -About color and color models; -Adjust colors; -Select colors, -Color Picker; -Use the Adobe Color -Themes panel ; -Use and create swatches; -Color groups (harmonies); -Color Themes panel; - Recoloring features; -Gradients; -Creating and editing Gradients;	• Reading in course text • Writing • Class discussions • Project • Exercises • Presentations	• Desigr • Writte • Projec • Quizze
TO5	-Painting and building shapes; -Paint with fills and strokes; -Brushes; -Live Paint groups; -Transparency and blending modes; -Apply stroke on an object; -Gradient Meshes; -Create and edit patterns; -Define a pattern Patterns; -Symbols;	• Reading in course text • Writing • Class discussions • Project • Exercises • Presentations	Design a • Writte • Projec • Quizze
TO6	-Select and arrange objects: -Select objects; -Move, align, and distribute objects; -Pathfinder Panel; -Layers; -Stack objects; -Group and expand objects; -Lock, hide, and delete objects; -Duplicate objects; -Rotate and reflect objects;	• Quizzes on Terminology • Written assignments • Project Presentation	• Quizze • Writte • Projec
TO7	-Reshape objects: -Crop images; -Cut, divide, and trim objects; -Transform objects; -Combine objects; -S-cale, shear, and distort objects; -Blend objects ; -Reshape using envelopes; -Reshape objects with effects ; -Edit clipping masks ; -Build new shapes with -Shaper and Shape Builder tools; -Live shapes; -Work with Live Corners; -Create shapes using the Shape Builder tool;	• Presentations • Writing • Class discussions • Project • Exercises	• Desigr • Writte • Projec
TO8	-Import, export, and save; -Import artwork files; -Save artwork; -Export artwork; -Package files; -Collect assets and export in batches; -Creative Cloud; Libraries in Illustrator; -Import Adobe PDF files; -Import and place artwork from Photoshop; -Place multiple files; Place photimage;	Illustrator CC Links information Create Adobe PDF files Adobe PDF options Unembed images File information and metadata Extract CSS	Quizzes • Writte • Projec
TO9	-Designing Type & Layout:	• Presentations	• Desigr

	-Types of Type tools; -Working with Threaded Text; -Vector vs. Raster Type; -Wrapping Area Type Around Objects; -Vertical/horizontal Type; -Type on Path; -Formatting Text; -Import and export Text; -Scale and rotate Type; -Converting Type to Outlines; -Using the Eyedropper with Type; -Using the Appearance Panel with Type; -The Glyphs Panel; -Working with Legacy Text; -Advanced Features of Multiple Art-boards; -Type as a visual element, historical strategies;	• Writing • Class discussions • Project • Exercises	• Writte • Projec
TO10	-Create special effects and Filters: -Work with effects; -Work with Filters; -Effects vs. Filters; -Warps and Enveloping; -Scribble Effects; -Effects Pathfinders; -Live 3D Effects: --Extruding, Revolving, and Rotating Paths; -Appearance attributes; -Graphic styles ; -Create sketches and mosaics; -Create a drop shadow; -Drop shadows, glows, and feathering;	• Reading in course text • Class discussions • Project • Exercises • Group critiques	• Quizze • Exams • Writte • Preser • Projec
TO11	-Layers; -Controlling and editing anchors & paths; -Color variation and adjustment tools; -Exploring representation and illustration options; -Understanding the impact of photography on image creation;	• Reading in course text • Class discussions • Project • Exercises • Group critiques	• Readir • Class d • Projec • Exercis • Group
TO12	-Vector art composition & Type; -Using layers, masks & transparency; -Creating artwork by using various elements and principles of design principles; -Using Layer Styles with Type; -Type Masks;	• Reading in course text • Class discussions • Project • Writing • Research	• Quizze • Writte • Projec • Group
TO13	-Printing; -Set up documents for printing; -Print with color management; -Overprint; -PostScript printing; --Change the page size and orientation ; -Specify crop marks for trimming or aligning; -Print presets; -Printer's marks and bleeds; -Print color separations ; -Print and save transparent artwork; -Print gradients, meshes, and color blends ; -Trapping ; -White Overprint;	• Reading in course text • Writing • Class discussions	• Quizze • Writte • Test
TO14	-Illustrator and Other graphic design Programs; -Placing artwork in Illustrator; -Illustrator and raster images; -Illustrator and page layout; -Illustrator, PDF and Adobe AcrobatWeb graphics;	• Reading in course text • Class discussions • Project • Writing • Research	• Quizze • Writte • Projec • Group

	-Best practices for creating web graphics; -Graphs;	

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?	o Lectures o Exercises o Projects o Student team assignments o Group discussion o Exploration in and outside of the computer assisted classroom o Examinations

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

Information

Communication-Written and Oral Yes

Related Course Learning Outcome CLO1-CLO4, CLO6

Related Outline Component All

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

- Quizzes
- Exams
- Written assignments
- Research papers
- Projects
- Group Projects
- Group Discussions

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning

Technological Competency Yes

Related Course Learning Outcome All

Related Outline Component All

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

- Quizzes
- Exams
- Written assignments
- Research papers
- Projects
- Group Projects
- Group Discussions

Information Literacy

Society and Human Behavior

Humanistic Perspective Yes

Related Course Learning Outcome	All
Related Outline Component	All

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

- Quizzes
- Exams
- Written assignments
- Research papers
- Projects
- Group Projects
- Group Discussions

_____

Historical Perspective

_____

Global and Cultural Awareness

_____

Ethical Reasoning and Action

_____

Independent/Critical Thinking	Yes
Related Course Learning Outcome	All
Related Outline Component	All

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

- Quizzes
- Exams
- Written assignments
- Research papers
- Projects
- Group Projects
- Group Discussions

14. Needs

Instructional Materials (text etc.):	An appropriate textbook will be selected. Contact the department for current adoptions.
Technology Needs:	Online modality requires hardware with Internet access,Wacom drawing tablet and creative software.
Human Resource Needs (Presently Employed vs. New Faculty):	Presently Employed
Facility Needs:	Presently Existing TECH 206
Library needs:	Presently Existing

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	**James Marshall (jmarshall) (12/17/24 1:58 pm):** Rollback: Name Change and Course Description Sentence Edit.

EXHIBIT B-12

Course Change Request

Date Submitted: 02/03/25 8:25 am

Viewing: ALDC 102 : Addictions Counseling: Professional Responsibilities

Last approved: 02/11/21 4:00 am

Last edit: 02/03/25 8:25 am

Changes proposed by: James Marshall (jmarshall)

Catalog Pages referencing this course	Alcohol and Drug Counseling (ALDC)
Programs referencing this course	CC.ALDC: Addictions Counseling, Certificate of Completion AS.PBS: Public Service, Associate in Science

Learning Outcomes Display (show only)

1. Course Information

Subject	ALDC - Alcohol and Drug Counseling
School	Business and Social Sciences
Course Title	Addictions Counseling: Professional Responsibilities

2. Hours

Semester Hours	3.00000
Lecture	3.00
Lab	0.00
Practicum	0.00

3. Catalog Description

For display in the online catalog	This course emphasizes standards for ensuring ~~insuring~~ thorough documentation; ethical aspects of addictions counseling; the counselor's need for cultural competence, personal growth, and professional growth; counselor/client expectations based on goals, objectives, rules, and obligations; and the use of laboratory tests/results for determining a course of treatment. Students can rapidly transition into working positions as Counselor Interns in community treatment settings. Emphasis will be on ethics and legal conduct as well as skills of documentation and professional growth, given they are necessary work skills of today's practicing counselor.

4. Requisites

Prerequisites	None
Corequisites	None

5. Course Type

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

6. Justification

Describe the need for this course	The State of New Jersey is moving in the direction of requiring an associate degree for certification of Drug and Alcohol Counseling (CADC). The New Jersey Juvenile Justice Division of the Department of Law and Public Safety has identified a demand for addictions counselors with associate degrees. The Division of Mental Health and Addiction Services (DMHAS) continues to approve rapid expansion of community addiction recovery services in both the public and private sector. Community demand for skilled clinicians to enter the workforce in recovery services is significant and by national advisement (Surgeon General's Report) should continue to expand.

7. General Education

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

No

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

Elective

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Atlantic Cape CC
Course Title	Professional Issues in Addiction Counseling
Course Number	HSRV145
Number of Credits	3
Comments	

Institution	Camden County College
Course Title	Professional Development in Addiction Counseling
Course Number	ADD 102
Number of Credits	3
Comments	

Institution	Rowan College at Burlington County
Course Title	Addiction Dynamics and Interventions
Course Number	HUS 207
Number of Credits	3
Comments	

Institution	Middlesex County College
Course Title	Community and Agency Counseling
Course Number	PSY 252
Number of Credits	3
Comments	

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
PSYCHEC (Psychology Elective Course) 3 credits	Elective	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
FEX1001 K3 Free Elective	Elective	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
SW001 (100 level social work elective) 3 credits	Elective	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
INTR99072 Free Elective	Elective	

Rutgers - New Brunswick, Mason Gross School of the Arts

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

Stockton University

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

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Demonstrate knowledge of ethical theory and practice in the counseling profession.
CLO2	Interpret legal tenants and practice in the counseling profession.
CLO3	Explain primary aspects of clinical professional growth over the span of a career.
CLO4	Discuss primary aspects of personal growth over the span of a career.

CLO5	Identify purpose and practice issues related to clinical supervision.
CLO6	Identify the purpose, benefit, and practice of professional consultation.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Ethics and legal, a. professional ethical boundaries of services provided b. Professional legal mandates as identified by the NJ Division of Consumer Affairs c. Clinician duties of self-reporting and work force policing policy as per the NJ Division of Consumer Affairs	Class discussion, small group breakout and completion of Questionnaire with follow-up discussion, Brief video and lecture	Quiz, ac
TO2	Professional Development over the span of the clinician's career. a. Transferring class room knowledge to practical application in the field b. Education and degree's required for transition from intern to licensed professional c. Role of continuing education to support personallydetermined clinical focus and mastery (strengths-based education)	Reading assignment, class discussion, or writing component	Quiz, ex
TO3	Personal growth (through the career continuum) a. Understanding of researched principles in clinical burnout prevention b. Understanding and personal interpretation of needed clinician wellness plan to maintain continuum of career health and efficiency c. Demonstrate competence in identifying unique stressors pertinent to serving addicted clientele	Written assignment, group evaluation, class discussion and review, oral presentation	Project,
TO4	Clinical Supervision a. Review of evidence-based benefits of clinical supervision for clinician and client. b. Examination of principles of multiple models of clinical supervision c. Review of blended model of clinical supervision in addiction treatment	Classroom discussion, in classroom web search and review of investigated resources.	Quiz, as
TO5	Consultation (in the clinical process) a. Examination of the need, utilization, and impact of effective consultation practices in addressing a client's comprehensive bio/psycho/social-spiritual needs during the recovery process b. Examination of service delivery differences between referral and consultation (legal and service delivery methods)	Classroom review of most recent literature and research outcomes on introduced methodology and statistical outcome gains.	Paper, li

12. Methods of Instruction

EXHIBIT B-12

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

o Didactic lecture
o Audio-visual presentations
o Role-playing and case study presentations

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 Yes

Related Course Learning Outcome CLO1; CLO2

Related Outline Component TO1-TO3

Assessment of General Education Goal (Recommended but not limited to)
Quiz, exam, activity, assignment, project, paper, or presentation

Independent/Critical Thinking Yes

Related Course Learning Outcome CLO3;CLO4

Related Outline Component TO4-TO6

Assessment of General Education Goal (Recommended but not limited to)
Quiz, exam, activity, assignment, project, paper, or presentation

14. Needs

Instructional Materials (text etc.): An appropriate textbook will be selected. Please contact the Department Office for current adoptions.

Technology Needs:

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

Facility Needs:

Library needs:

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates	Revised: September, 2006; August 30, 2006 Board of Trustees Approval Date: December 10, 2007 Board of Trustees Approval Date: December 07, 2009 Board of Trustees Approval Date: November 07, 2011 Board of Trustees Approval Date: March 26, 2012 Board of Trustees Approval Date: March 29, 2018
Reviewer Comments	

EXHIBIT B-13

Course Change Request

Date Submitted: 10/28/24 12:04 pm

Viewing: BIOL 130 : Human Anatomy and Physiology I Lecture

Last approved: 01/27/21 4:00 am

Last edit: 02/04/25 11:18 am

Changes proposed by: Nancy Rizzuto (nrizzuto)

Catalog Pages referencing this course

- Approved General Education Courses
- Biology (BIOL)
- Health and Human Performance (HEHP)

Programs referencing this course

- AAS.HS.MDLT: Health Science - Option in Medical Laboratory Technology (w/ Mercer CC)
- AS.PUBH: Public Health, Associate in Science
- AS.BA.HA: Business Administration with Health Administration Option, Associate in Science
- CT.NUTR: Nutrition, Certificate of Proficiency
- AAS.NURS: Nursing, Associate in Applied Science
- AS.OTA: Occupational Therapy Assistant, Associate in Science
- AS.PSYR: Psychosocial Rehabilitation, Associate in Science
- AAS.HS: Health Science

Learning Outcomes

Display (show only)

In Workflow

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

Approval Path

1. 11/06/24 9:48 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
2. 02/05/25 4:13 pm Vandana Saini (vsaini): Approved for STEM Dean
3. 02/05/25 4:36 pm James Marshall (jmarshall): Approved for Executive Director

EXHIBIT B-13

of Curriculum and Program Development
4. 02/13/25 4:42 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

History

1. Jan 27, 2021 by soconnor

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	Human Anatomy and Physiology I Lecture

2. Hours

Semester Hours	3.00 ~~4.00000~~	
	Lecture	3.00
	Lab	0.00 ~~2.00~~
	Practicum	0.00

3. Catalog Description

For display in the online catalog

This Lecture course studies terminology associated with the study of human anatomy and physiology, homeostatis, feedback mechanisms; the chemical, cellular, and tissue level of organization as well as the integumentary, skeletal, muscular, and nervous systems. ~~Dissection and laboratory instrumentation reinforce all lecturematerial.~~It is highly recommended that students enrolling in this course have taken (a) high school biology or BIOL 114 or BIOL 119 and (b) high school chemistry or CHEM 180.

4. Requisites

Prerequisites

None

Corequisites

For the first attempt BIOL 130L is considered a corequisite. If the student should fail either lecture or lab after the first attempt then they may take the individual failed section. ~~None~~

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course

This course along with BIOL 130L is required for many Nursing Programs, including the one at Ocean County College.

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

General Education Category

~~Lab Science~~

Science (Non-Lab)

General Education Status	Approved

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

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Rowan College at Burlington County ~~Brookdale CC~~
Course Title	Human Anatomy & Physiology I
Course Number	BIO 208 ~~BIOL111~~
Number of Credits	3 ~~4~~
Comments	

Institution	~~Mercer County CC~~
Course Title	~~Human Anatomy~~
Course Number	~~BIOL106~~
Number of Credits	~~4~~
Comments	

Institution	~~Atlantic Cape CC~~
Course Title	~~Human Anatomy & Physiology I~~
Course Number	~~BIOL120~~
Number of Credits	~~4~~
Comments	

Institution	~~Middlesex County College~~
Course Title	~~Human Anatomy and Physiology I~~
Course Number	~~BIOL111~~
Number of Credits	~~4~~
Comments	

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BI213 Human Anatomy & Physiology I 4-credits ~~B1213, 4cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Natural Science~~	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIO2403 Human Anatomy & Physiology I 4-credits ~~BIOX2001"K1,K3" , 4cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Science~~	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY111 Anatomy & Physiology I 3-credits ~~BY111, 4cr.~~	Major ~~Gen Ed Natural Sciences~~	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL10210 Human Anatomy & Physiology I 4-credits ~~BIOL10210, 4cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Laboratory Science~~	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
EC 3-credits ~~01119EC "R21,RV", 4cr.~~	Elective unless a student completes the lecture & lab for BIOL 130 & 131 then 01119127 & 01119128 A&P: Health Science 8-credits will be granted in the Major ~~See "Links"~~	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL1260 Anatomy & Physiology for Health Science I and BIOL2260 Anatomy & Physiology for Health Science II ~~BIOL2150, 4cr.~~	Major (linked course must complete both BIOL 130 & 131 lecture & lab or only elective credit is granted) ~~Gen Ed Science~~	

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Describe how the body maintains homeostasis, and define directional positions. ~~homeostasis.~~
~~CLO2~~	~~Define the anatomic terms used to refer to the body in terms of directions and geometricplanes.~~
CLO2 ~~CLO3~~	Describe the major cavities of the body and the organs they contain, along with disease states within each system. ~~contain.~~
~~CLO4~~	~~Recognize terms related to the human body'sanatomy.~~
~~CLO5~~	~~Relate scientists' contributions to the study of anatomy and physiology including their country of origin orstudy.~~
CLO3 ~~CLO6~~	Match anatomical terms with the appropriate physiology, and body systems. ~~physiology.~~
CLO4 ~~CLO7~~	Describe the cellular structure and function, along with division and tissue formation. ~~List the major body systems.~~
CLO5 ~~CLO8~~	Relate chemistry to the field of anatomy and physiology.
CLO6 ~~CLO9~~	Illustrate the anatomical location of the components of a cell and explain their function.
~~CLO10~~	~~Describe how cells function anddivide.~~
~~CLO11~~	~~Discuss types of tissues and their importance in thebody.~~
~~CLO12~~	~~Identify the major parts and functions of the skin and skeleton.~~
CLO7 ~~CLO13~~	Identify ~~the major parts~~ and describe areas ~~functions~~ of the integument, muscle ~~joints~~ and skeletal system, along with their important functions. ~~muscular system.~~
~~CLO14~~	~~Describe how joints, muscle, bones, and nerves work together to createmovement.~~
CLO8 ~~CLO15~~	Identify and explain how the central nervous system, peripheral nervous system, and autonomic nervous system function and maintain homeostasis. ~~Explain the role of the brain and spinal cord in consciousness and control of the body.~~
~~CLO16~~	~~Name several diseases and disorders of the organ systems discussed and explain what causesthem.~~
~~CLO17~~	~~Explain how diseases and disorders of the body are detected andtreated.~~

EXHIBIT B-13

	Students who successfully complete this course will be able to:
~~CLO18~~	~~Understand how homeostasis plays an important role in health anddisease.~~

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	: Levels of Organization Introduction to Anatomy, Chemical, Cellular and Tissue Organization	Labs, Unit Projects, and/ or Videos based on the topics below: Terminology, Homeostasis, Feedback Mechanisms, Basic Chemical Principles, Basic Cellular Mechanisms, Tissue Structure and Function	Unit Test, Quizzes, Homework Assignments ~~Unit Test and Lab Practical~~	CL01 CL02 CL03 CL04 CL05 CL06 ~~CL07 CL08 CL09 CL10 CL11 CL16 CL17 CL18~~
TO2	Support Structures Integument, Bone Tissue and Skeleton	Labs, Unit Projects, and/ or Videos based on the topics below: Integument Layers, Structures within the Integument, Factors Influencing Functionality of the Integument, Osseous Tissue and Bone Structure Axial and Appendicular Skeleton: Structures and Markings	Unit Test, Quizzes, Homework Assignments ~~Unit Test and Lab Practical~~	CL01 CL04 CL07 ~~CL01 CL16 CL17 CL18~~
TO3	Joints and Muscles	Labs, Unit Projects, and/ or Videos based on the topics below: Categories and Functions of Joints, Muscle Tissue Types and Functionality, the Muscular System	Unit Test, Quizzes, Homework Assignments ~~Unit Test and Lab Practical~~	CL03 CL07 ~~CL13 CL14 CL16 CL17 CL18~~

EXHIBIT B-13

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
TO4	Communication and Control Neurology	Labs, Unit Projects, and/ or Videos based on the topics below: Neural Tissue, Spinal Cord, Spinal Nerves and Spinal Reflexes, Brain and Cranial Nerves, Sensory Pathways, Autonomic Nervous System	Unit Test, Quizzes, Homework Assignments ~~Unit Test and Lab Practical~~	CL03 CL08 ~~CL15 CL16 CL17 CL18~~

12. Methods of Instruction

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

o Lecture ~~o Laboratory~~

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

Information

Communication-Written and Oral Yes

Related Course Learning Outcome

Related Outline Component

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

Homework Assignments, Discussions

Quantitative Knowledge and Skills

EXHIBIT B-13

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome: CL01 CL02 CL03 CL04 CL06 CL07 CL08 ~~CL09 CL10 CL11 CL12 CL13 CL14 CL15 CL16 Cl17 CL18~~

Related Outline Component: All ~~all~~

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

Unit Tests ~~Unit Tests, Lab Practicals, Lab Exercises~~

Technological Competency

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness Yes

Related Course Learning Outcome: CL05

Related Outline Component: TO01

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

Unit Tests

Ethical Reasoning and Action

Independent/Critical Thinking Yes

Related Course Learning Outcome: all

Related Outline Component: all

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

Unit Tests

14. Needs

Instructional Materials (text etc.):

An appropriate textbook will be selected. Please contact the Department Office for current adoptions. –

Technology Needs:

Computers with internet capability, DVD and/or VCR, overhead projectors, ~~microscopes~~ and video projection capabilities. Web-based Materials.

~~Materials.~~

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

Presently employed and Adjunct Faculty

Facility Needs:

~~Laboratory setting and appropriate laboratory materials~~

Library needs:

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

EXHIBIT B-13

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates

Board of Trustees Approval Date: September 22, 2008

Board of Trustees Approval Date: April 27, 2009

Board of Trustees Approval Date: January 28, 2013

Board of Trustees Approval Date: September 22, 2016

Reviewer Comments

Key: 171

EXHIBIT B-14

EXHIBIT B-14

Course Change Request

Date Submitted: 10/28/24 12:04 pm

Viewing: BIOL 131 : Human Anatomy & Physiology II Lecture

Last approved: 10/15/21 1:01 pm

Last edit: 02/04/25 11:33 am

Changes proposed by: Nancy Rizzuto (nrizzuto)

Catalog Pages referencing this course

- Approved General Education Courses
- Biology (BIOL)
- Nursing (NURS)

Programs referencing this course

- AAS.HS.MDLT: Health Science - Option in Medical Laboratory Technology (w/ Mercer CC)
- AS.PUBH: Public Health, Associate in Science
- CT.NUTR: Nutrition, Certificate of Proficiency
- AAS.NURS: Nursing, Associate in Applied Science
- AS.OTA: Occupational Therapy Assistant, Associate in Science

Learning Outcomes

Display (show only)

In Workflow

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

Approval Path

1. 11/06/24 9:48 am Cynthia Fallon (cfallon): Approved for STEM Academic Administrator
2. 02/05/25 4:14 pm Vandana Saini (vsaini): Approved for STEM Dean
3. 02/05/25 4:36 pm James Marshall (jmarshall): Approved for Executive Director

EXHIBIT B-14

of Curriculum and Program Development
4. 02/13/25 4:42 pm Caroline Brittain (cbrittain): Approved for Curriculum Committee Chair

History

1. Jan 27, 2021 by soconnor
2. Oct 15, 2021 by soconnor

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	Human Anatomy & Physiology II Lecture

2. Hours

Semester Hours	3.00000 ~~4.00000~~	
	Lecture	3.00
	Lab	0.00 ~~2.00~~
	Practicum	0.00

3. Catalog Description

For display in the online catalog

This course studies the endocrine, circulatory, immune ~~cardiovascular,immune~~ respiratory, digestive, and urinary systems; fluid and electrolyte balance; and reproduction. ~~Dissection and instrumentation reinforce all lecture materials.~~

4. Requisites

Prerequisites

BIOL 130 and BIOL 130L with a grade of C or better

Corequisites

For the first attempt BIOL 131L is considered a corequisite. If the student should fail either lecture or lab after the first attempt then they may take the individual failed section. ~~None~~

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course

This course along with BIOL131L is a prerequisite for Nursing Programs, including OCC's program. In addition it is a prerequisite for several other health related programs (i.e. Radiology, Occupation therapy, Physical Therapy).

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

General Education Category

~~Lab Science~~

Science (Non-Lab)

General Education Status	Approved

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

EXHIBIT B-14

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Rowan College at Burlington County ~~Brookdale CC~~
Course Title	Human Anatomy and Physiology II
Course Number	BIO 212 ~~BIOL112~~
Number of Credits	3 ~~4~~
Comments	

Institution	~~Atlantic Cape CC~~
Course Title	~~Human Anatomy and Physiology II~~
Course Number	~~BIOL121~~
Number of Credits	~~4~~
Comments	

Institution	~~Middlesex County College~~
Course Title	~~Human Anatomy and Physiology II~~
Course Number	~~BIOL112~~
Number of Credits	~~4~~
Comments	

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BI214 Human Anatomy & Physiology II 4-credits ~~B1214, 4cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Natural Science~~	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIO2404 Human Anatomy & Physiology II 4-credits ~~BIOX2002 "K1,K3" , 4cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Science~~	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY112 Anatomy & Physiology II 3-credits ~~BY112, 4cr.~~	Major ~~Gen Ed Natural Science~~	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL10212 Human Anatomy & Physiology II 4-credits ~~BIOL10212, 4cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Lab Science~~	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
EC 3-credits ~~01119EC "R21,RV", 4cr.~~	Elective unless a student completes the lecture & lab for BIOL 130 & 131 then 01119127 & 01119128 A&P: Health Science 8-credits will be granted in the Major ~~See links~~	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL1260 Anatomy & Physiology for Health Science I and BIOL2260 Anatomy & Physiology for Health Science II ~~BIOL2180, 4cr.~~	Major (linked course must complete both BIOL 130 & 131 lecture & lab or only elective credit is granted) ~~Gen Ed Science~~	

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
~~CLO1~~	~~Describe the structures and functions associated with the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems.~~
CLO1 ~~CLO2~~	Describe the structures and functions associated with the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems.
CLO2 ~~CLO3~~	Relate scientist's contributions to the study of disease states and their relationship to the various systems of the body including their country of origin or study.
CLO3 ~~CLO4~~	Know the processes associated with metabolism.
CLO4 ~~CLO5~~	Describe water balance within the body.
CLO5 ~~CLO6~~	List the major electrolytes and imbalances associated with them.
CLO6 ~~CLO7~~	Describe what an acid and base are and how buffer systems play a role in our body.
CLO7 ~~CLO8~~	Name several diseases and disorders of the organ systems discussed and explain what causes them, along with the disruption of homeostatsis. ~~them.~~
~~CLO9~~	~~Understand how homeostasis plays an important role in health and disease.~~

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	Hormonal Control Endocrine System	Labs, Unit Projects, and/ or Videos based on the topics below: Anatomy of the Glands and Organs of the Endocrine System, Homeostasis via Hormonal Control	Unit Test, Quizzes, Homework Assignments ~~Unit Test and Lab Practical~~	CL01 CL02 CL07 ~~CL03 CL08 CL09~~
TO2	Cardiovascular and Lymphatics Blood, Heart, Blood Vessels and Circulation, Lymphatic System and Immunity	Labs, Unit Projects, and/ or Videos based on the topics below: Functions and Physical Characteristics of Blood, Blood Types, Hemostasis, Anatomy and physiology of the Heart, Cardiodynamics, Anatomy and Locations of the Arteries and Veins, Circulatory Circuit, Lymphatic System Anatomy and Physiology and the Defense Mechanisms	Unit Test, Quizzes, Homework Assignments ~~Unit Test and Lab Practical~~	CL01 CL02 CL07 ~~CL03 CL08 CL09~~
TO3	Environmental Exchange Respiratory System, Digestive System, Metabolism, Energetics,	Anatomy and Functions of the Respiratory Structures and Neural Control, Digestive Anatomy and Functionality, Metabolic Pathways and their	Unit Test, Quizzes, Homework Assignments ~~Unit Test and Lab Practical~~	CL01 CL02 CL03 CL04 CL05 CL06 CL07 ~~CL08 CL09~~

	Major Themes/ Skills	Assignments (Recommended but not limited to)	Assessments (Recommended but not limited to)	Course Learning Outcome(s)
		Contribution to the Energy of the Body		
TO4	Fluid Exchange and the Continuity of Life Urinary System, Fluid, Electrolyte and Acid-base Balance, Reproductive System	Labs, Unit Projects, and/ or Videos based on the topics below: Urinary Anatomy and the Nature of Fluid and Ion Movement Through the Systems, Anatomy and Functions of the Male and Female Reproductive Systems	Unit Test, Quizzes, Homework Assignments ~~Unit Test and Lab Practical~~	CL01 CL02 CL03 CL04 CL05 CL06 CL07 ~~CL08 CL09~~

12. Methods of Instruction

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

o Lecture and ~~o Laboratory~~

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

Information

Communication-Written and Oral — Yes

Related Course Learning Outcome

Related Outline Component

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

Homework Assignments, Discussions

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome All

Related Outline Component All

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

Unit Test ~~and Lab Practicals~~

Technological Competency

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness Yes

Related Course Learning Outcome CL03

Related Outline Component All

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

Unit Test

Ethical Reasoning and Action

Independent/Critical Thinking	Yes
Related Course Learning Outcome	All
Related Outline Component	All

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

Unit Test ~~and Lab Practicals~~

14. Needs

Instructional Materials (text etc.):

An appropriate textbook will be selected. Please contact the Department Office for current adoptions. Power Point, overheads. ~~overheads, microscope slides, organ models.~~

Technology Needs:

Computers with internet capability, DVD and/or VCR, overhead projectors, microscopes and video projection capabilities

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

Presently Employed and Adjunct Faculty

Facility Needs:

~~Laboratory setting and appropriate laboratory materials~~

Library needs:

15. Grade Determinants

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

EXHIBIT B-14

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates

Board of Trustees Approval Date: July 28, 2008

Board of Trustees Approval Date: January 28, 2013

Board of Trustees Approval Date: September 22, 2016

Reviewer Comments

Key: 172

EXHIBIT B-15

Course Change Request

Date Submitted: 01/25/25 7:39 pm

Viewing: BIOL 161 : General Biology I Lecture

Last approved: 01/27/21 4:00 am

Last edit: 02/04/25 11:05 am

Changes proposed by: James Marshall (jmarshall)

Catalog Pages referencing this course	Approved General Education Courses Biology (BIOL)
Programs referencing this course	AS.PUBH: Public Health, Associate in Science AS.CS: Computer Science, Associate in Science AS.CS.CIS: Computer Science with Cyber-Information Security Option, Associate in Science AA.LA.EDUC: Education, Associate in Arts AS.ES: Environmental Studies, Associate in Science AS.CS.GDD: Computer Science with Game Development & Design Option, Associate in Science CT.EXER: Exercise Science, Certificate of Proficiency AS.CS.IT: Computer Science with Information Technology Option, Associate in Science AS.PSYR: Psychosocial Rehabilitation, Associate in Science
Other Courses referencing this course	In The Catalog Description: BIOL 162 : General Biology II Lecture

Learning Outcomes Display (show only)

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	General Biology I Lecture

2. Hours

Semester Hours	3.00 ~~4.00000~~
Lecture	3.00
Lab	0.00 ~~2.00~~
Practicum	0.00

3. Catalog Description

For display in the online catalog	Major concepts discussed include cell structure, bio-chemical reactions, energy relationships, evolution and the dynamics of plant functions. It is highly recommended that students enrolling in this course have taken high school biology and high school chemistry or BIOL 114 and high school chemistry.

4. Requisites

Prerequisites	None

Corequisites	For the first attempt, BIOL 161 lecture must be taken with BIOL 161L. If the student should fail either lecture or lab after the first attempt, then they may take the individual failed section. ~~None~~

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course	This course, along with ~~course will contribute to~~ the lab, will contribute to ~~fulfillment of~~ the fulfillment of the Lab Science General Education requirement for graduation and transfer. The course is required for all students planning to major in the physical and natural sciences.

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

General Education Category	~~Lab Science~~ Science (Non-Lab)
General Education Status	Proposed ~~Approved~~

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Rowan College at Burlington County ~~Brookdale CC~~
Course Title	General Biology I
Course Number	BIO 103 ~~101~~
Number of Credits	3 ~~4~~
Comments	

Institution ~~Mercer County CC~~

Institution	~~Mercer County CC~~
Course Title	~~General Biology I~~
Course Number	~~101~~
Number of Credits	~~4~~
Comments	

Institution	~~Atlantic Cape CC~~
Course Title	~~General Biology~~
Course Number	~~109~~
Number of Credits	~~4~~
Comments	

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BI121 Cellular Organization, Energetics & Function 4-credits ~~BI 120, Biological Diversity:Life, Origin, and Phylogeny, 4 cr.~~	Elective unless a student completes the lecture & lab for BIOL 161 & 162 then 01119101 General Biology I and 01119102 General Biology II 8-credits will be granted in the Major ~~Must also take Biol-162 to receive credit.General BIO.GENS Linked Course~~	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIO1300 ~~BIO 1300,~~ General Biology I 4-credits ~~I, 4 cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~General Science~~	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY110 Introduction to Cell and Molecular Biology 4-credits ~~BY B110, Principles of Biology, 4 cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~Science~~	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL01100 Biology I 4-credits ~~BIOL 01100, Biology I, 4 cr.~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~GEE, LAB~~	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
01119 Elective 3-credits ~~01:119-101, General Biology, 4 cr.~~	Elective unless a student completes the lecture & lab for BIOL 161 & 162 then 01119101 General Biology I and 01119102 General Biology II 8-credits will be granted in the Major ~~Must also take Biol-162 to receive credit.NS.Linked Course~~	

EXHIBIT B-15

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL1200 Cells and Molecules 3-credits ~~BIOL 1200, Cell and Molecules, 4 cr.~~	Major ~~Science~~	

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Describe the philosophy of biological science and the characteristics that distinguish living from non-living things.
CLO2	Discuss the basic concepts of chemistry that are related directly to the function of a cell as a living system.
CLO3	Identify the structure and function of macromolecules common to all organisms and the chemical processes of synthesis and hydrolysis of these complex molecules.
CLO4	Identify cell structure and function of organelles. Explore cells under microscope.
CLO5	Describe the cell membrane, comparing and contrasting the mechanism for transport of materials across the cell membrane along with describing the mechanism for transport of material across the cell membrane.
CLO6	Explain the process of heredity based on Mendelian principle, compare and contrast genotype and phenotype and briefly discuss chromosomal mutations leading to genetic disorders.
CLO7	Describe the role of DNA as the Master Molecule summarizing the events of DNA replication and error correction.
CLO8	Outline the flow of genetic information in cells from DNA to proteins and compare the processes of transcription and translation in protein synthesis.
CLO9	Visually compare and contrast mitosis in plant and animal cells, in different stages of division
CLO10	Discuss meiosis and mitosis variations found in sexual reproduction of animal cells.
CLO11	Describe the probable conditions of early earth, evaluating hypotheses about the origin of life on earth and citing evidence where possible.
CLO12	Describe the classification, life cycle and distinguishing characteristics of fungi, and explain the metabolic diversity, asexual reproduction, genetic recombination, and ecological roles of bacteria.
CLO13	List the raw materials, products, and relative energy yields of aerobic and anaerobic respiration.
CLO14	Identify the steps by which light energy is converted into chemical energy during the light dependent and light independent reactions of photosynthesis.
CLO15	Compare and contrast characteristics of bacteria and viruses.
CLO16	Describe the classification hierarchies used to categorize organisms relating them to plant diversity and structure.
CLO17	Describe the characteristics that distinguish the lower tracheophytes from the higher tracheophytes citing the significance of the flower, fruit, and seed.
CLO18	Explain how the diversity of life is thought to have resulted from evolution over time, citing evidence that supports the theory of evolution by natural selection.
CLO19	Appropriately gather information about an ethical issue or situation related to the

	biological sciences (ex: emerging viruses, climate change, biodiversity), analyze and evaluate the information, and convey their conclusions about the issue or situation.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Introduction to Biological Science	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur
TO2	2. Nature of molecules	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur ~~Laborat~~ ~~Laborat~~
TO3	Chemical building blocks of life	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur ~~Exam~~ ~~Laborat~~
TO4	DNA – the master molecule and enzymes natures catalysts	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz ~~Quiz, La~~ ~~Laborat~~
TO5	Early history of life.	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur
TO6	The structure of cells	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Mi ~~Laborat~~
TO7	Cell membranes – cell to cell interactions	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur ~~Exam,~~ ~~Laborat~~
TO8	How cells divide	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ex ~~Quiz, Ex~~ ~~Laborat~~
TO9	Transcription and Translation	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur
TO10	Sexual reproduction and Meiosis	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur
TO11	Energy and metabolism. How cells harvest energy.	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur ~~exam,~~ ~~Laborat~~
TO12	Bacteria, Fungi, Viruses	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur ~~Exam,~~ ~~Laborat~~ ~~Microsc~~
TO13	Photosynthesis	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur ~~Exam,~~ ~~Laborat~~
TO14	Overview of plant diversity.	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur ~~Exam,~~ ~~Laborat~~
TO15	Plant form –Vegetative plant development	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur ~~Exam,~~

TO16	Evolution-Genes within populations	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur
TO17	The evidence of evolution	Post Chapter Quiz. ~~Laboratory (Microscopic Examination, Pre-Lab Questions)~~	Quiz, Ur

12. Methods of Instruction

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

o Lecture/Discussion
o ~~Laboratory o~~ Demonstrations

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

Information

Communication-Written and Oral Yes

Related Course Learning Outcome CL01 CL02 CL06 CL07 CL09 CL11 CL12 CL16 CL17 CL18

Related Outline Component TO1 TO2 TO4 TO5 TO7 TO9 TO11 TO12 TO16

Assessment of General Education Goal (Recommended but not limited to)
Homework Assignments and Discussions ~~Laboratory Report~~

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome CL01 CL08 CL19

Related Outline Component TO9 TO11 TO13 TO17

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

Technological Competency Yes

Related Course Learning Outcome CL04 CL09 CL17

Related Outline Component TO6 TO8 TO12 TO14

Assessment of General Education Goal (Recommended but not limited to)
~~Laboratory Report Laboratory Practical~~

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective Yes

Related Course Learning Outcome: CL01 CL11 CL18

Related Outline Component: TO1 TO15 TO16 TO17

Assessment of General Education Goal (Recommended but not limited to): Quizzes, Exams, Post chapter quiz.

Global and Cultural Awareness: Yes

Related Course Learning Outcome: CL18 CL19

Related Outline Component: TO16 TO17

Assessment of General Education Goal (Recommended but not limited to): Discussions ~~Exam, Term Paper~~

Ethical Reasoning and Action: Yes

Related Course Learning Outcome: CL01 CL19

Related Outline Component: TO17

Assessment of General Education Goal (Recommended but not limited to): Discussions ~~Laboratory Experiments~~

Independent/Critical Thinking: Yes

Related Course Learning Outcome: CL03 CL04 CL08 CL14 CL15

Related Outline Component: TO3 TO9 TO11 TO13

Assessment of General Education Goal (Recommended but not limited to): Discussions ~~Laboratory Experiments~~

14. Needs

Instructional Materials (text etc.): Power Point Presentation, ~~Laboratory Manual,~~ Textbook . (Contact Department for current adaptation) Instructor Companion Website (From Publisher)

Technology Needs: Desktop Computer/Overhead Projector, College Course Management System.

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

Facility Needs:

Library needs:

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates	Board of Trustees Approval Date: September 22, 2008 Board of Trustees Approval Date: June 27, 2011 Board of Trustees Approval Date: March 26, 2012 Board of Trustees Approval Date: November 3, 2016
Reviewer Comments	

EXHIBIT B-16

Course Change Request

Date Submitted: 01/25/25 7:52 pm

Viewing: BIOL 162 : General Biology II Lecture

Last approved: 01/27/21 4:00 am

Last edit: 02/04/25 11:09 am

Changes proposed by: James Marshall (jmarshall)

Catalog Pages referencing this course	Approved General Education Courses Biology (BIOL)
Programs referencing this course	AS.PUBH: Public Health, Associate in Science AS.CS: Computer Science, Associate in Science AS.CS.CIS: Computer Science with Cyber-Information Security Option, Associate in Science AS.ES: Environmental Studies, Associate in Science AS.CS.GDD: Computer Science with Game Development & Design Option, Associate in Science AS.CS.IT: Computer Science with Information Technology Option, Associate in Science

Learning Outcomes Display (show only)

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	General Biology II Lecture

2. Hours

Semester Hours	3.00 ~~4.00000~~	
	Lecture	3.00
	Lab	~~2.00~~
	Practicum	

3. Catalog Description

For display in the online catalog	This course is a continuation of BIOL 161, with emphasis on animal diversity, reproduction, development, physiology of various systems, ecology, and evolution/histories.

4. Requisites

Prerequisites	BIOL 161 Lecture & BIOL 161L
Corequisites	For the first attempt BIOL 162 lecture must be taken with BIOL 162L. If the student should fail either lecture or lab after the first attempt, then they may take the individual failed section. ~~None~~

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course	This course, along with the lab, ~~course~~ will transfer to a four- year Science or Liberal Arts program and increases scientific literacy in the ~~the~~ community at-large.

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

General Education Category	~~Lab Science~~ Science (Non-Lab)
General Education Status	Proposed ~~Approved~~

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Rowan College at Burlington County ~~Brookdale CC~~
Course Title	General Biology II
Course Number	BIO 107 ~~102~~
Number of Credits	3 ~~4~~
Comments	

Institution	~~Mercer County CC~~
Course Title	~~General Biology II~~
Course Number	~~102~~
Number of Credits	~~4~~
Comments	

Institution	~~Atlantic Cape CC~~

Course Title	~~General Biology II~~
Course Number	~~110~~
Number of Credits	~~4~~
Comments	

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BI120 Biological Diversity & Phylogeny 4-credits ~~BI 121, 4 credits~~	Elective unless a student completes the lecture & lab for BIOL 161 & 162 then 01119101 General Biology I and 01119102 General Biology II 8-credits will be granted in the Major ~~Must also take Biol-161 to receive credit.General BIO.GENS Linked Course~~	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIO1400 General Biology II ~~BIO 1400, 4 credits~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~General Science~~	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY-109 Introduction to Ecology and Evolution 4-credits ~~BY 109, 4 credits~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~Science~~	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL01101 Biology II 4-credits ~~BIOL 01101, 4 credits~~	Major (linked course must complete both lecture & lab or only elective credit is granted) ~~GEE, LAB~~	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
01119 Elective 3-credits ~~01:119-102, 4 credits~~	Elective unless a student completes the lecture & lab for BIOL 161 & 162 then 01119101 General Biology I and 01119102 General Biology II 8-credits will be granted in the Major ~~Must also take Biol-161 to receive credit.NS.Linked Course~~	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL1400 Biodiversity & Evolution 3-credits ~~BIOL 1200, 4 credits~~	Major ~~SCIENCE~~	

If not transferable to any institution, explain:

10. Course Learning Outcomes

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Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Describe the distinctive characteristics found among the members of the kingdom Protista, including modes of nutrition, body forms, mobility, and reproduction.
CLO2	List several characteristics common to most animals. Compare and contrast structural features, adaptations, reproduction, and life cycles
CLO3	Identify distinguishing characteristics of phyla Porifera and Cnidaria.
CLO4	Describe the structural features of flatworms and roundworms and their functions, including parasitic flatworms
CLO5	Describe the classes of mollusks and annelids, comparing distinctive body structures, and give examples of animals that belong to each class.
CLO6	Distinguish among the subphyla and classes of arthropods, and give examples of animals that belong to each group.
CLO7	List the specific characteristics of echinoderms, regeneration and reproduction.
CLO8	Explain the role of fishes to evolutionary patterns, characteristics of respiration and nervous system compared to other species
CLO9	Trace the evolution of vertebrates according to current hypotheses and describe the distinguishing characteristics of reptiles, birds, and mammals.
CLO10	Describe the organization and complexity of animal systems with respect to tissues, organs, organ systems, and homeostasis
CLO11	Identify the principle cells and organs of the circulatory system, their structure and interactions within their system and other organ systems.
CLO12	Identify the principle cells and organs of the nervous system, their structure and interactions within their system and other organ systems.
CLO13	Identify the principle cells and organs of the immune and endocrine systems, their structure and interactions within their system and other organ systems.
CLO14	Identify the principle cells and organs of the respiratory system, their structure and interactions within their system and other organ systems.
CLO15	Identify the principle cells and organs of digestion and excretion, their structure and interactions within their system and other organ systems.
CLO16	Define the principles and identify the structures involved with mammalian reproduction and development
CLO17	Fundamentals of ecological systems, specimen interactions, human impact and biodiversity.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Structure and Systematics of Protists and Animals Eukaryotics and Origins, overview of structures, organization of tissue, homeostasis	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO2	. Sponges, Cnidarians, and Lower Worms Outline characteristics Cnidarians. Describe the invertebrate phylym Porifera. Explain features of nematode. Compare and contrast invertebrates traits.	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO3	Coelenterates I: Mollusks and Annelids	Post chapter quiz.	Quiz, Ex ~~Exam~~

	Outline invertebrate in phylum Mollusca. Summarize characteristics of Annelids. Compare and contrast body planes, circulation, respiration, and reproduction.	~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	~~Exam~~ ~~Laborat~~
TO4	Coelenterates II: Arthropods Describe characteristics, members of group, compare intracellular digestion/extracellular, compare gas exchange methods to vertebrae, life cycles.	Post chapter quiz. Laboratory (Dissection, Microscopic Analysis)	Quiz, Ex Laborat
TO5	Coelenterates III : Echinoderms Compare and contrast features of Echinoderms. Explain pentaradial symmetry. Describe the five extant classes.	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO6	Chordate I: General Characteristics Outline nonvertebrate Chordates and vertebrate Chordates. Describe evolutionary relationships of chordates to other taxa.	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO7	Chordate II: Sharks and Fishes. Discuss the significance of the evolutionary innovations of fishes. List the major groups	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO8	Chordates III: Amphibians, Reptiles, and Birds. Outline the characteristics and groups of amphibians. Explain transition from aquatic to terrestrial environment. Discuss evolution of reptiles, and give examples of major orders. List characteristics of birds and compare and contrast to amphibians and reptiles.	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO9	Chordates IV: Mammals Compare the three living groups of mammals.	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO10	Mammalian System Physiology Describe and outline Animal Form and Function. Compare and contrast tissues, vital systems, interactions, and the role each system has in maintaining homeostasis.	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO11	General Developmental Biology Identify and explain the main structures/events of reproductive organs, fertilization, stages of development.	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO12	Ecology and Evolution Discuss Biogeochemical Cycles, Habitats, and Biodiversity crisis.	Post chapter quiz. ~~quiz.~~ ~~Laboratory (Dissection, Microscopic Analysis)~~	Quiz, Ex ~~Quiz, Ex~~ ~~Laborat~~ ~~Global E~~ ~~Presenta~~

12. Methods of Instruction

In the structuring of this course, what major methods of	o Formal lectures and informal discussions o Demonstrations o ~~Discovery-based laboratory assignments o~~ Web-based research

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instruction will be utilized?

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

Information

Communication-Written and Oral Yes

Related Course Learning Outcome CL01 CL04 CL05 CL06 CL08 CL10 CL16

Related Outline Component TO2 TO3 TO4 TO6 TO7 TO10 TO12

Assessment of General Education Goal (Recommended but not limited to)
Exam Essays
Evolution Presentation

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome ALL

Related Outline Component ALL

Assessment of General Education Goal (Recommended but not limited to)
Quiz, Exam ~~Laboratory Practical~~

Technological Competency Yes

Related Course Learning Outcome ALL

Related Outline Component ALL

Assessment of General Education Goal (Recommended but not limited to)
Online post chapter quiz. ~~Microscopic analysis of specimen.~~

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness Yes

Related Course Learning Outcome CL17

Related Outline Component TO12

Assessment of General Education Goal (Recommended but not limited to)
Exam, Global Ecological Paper/Presentation

Ethical Reasoning and Action

Independent/Critical Thinking	Yes
Related Course Learning Outcome	CL06 CL09
Related Outline Component	TO2 TO3 TO5

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

Discussion ~~Microscopic analysis of species.Lab reports outlining systems/functions.~~

14. Needs

Instructional Materials (text etc.):	Power Point Presentation, ~~Laboratory Manual,~~ Textbook . (Contact Department for current adaptation) Instructor Companion Website (From Publisher)
Technology Needs:	Desktop Computer/Overhead Projector, College Course Management System.
Human Resource Needs (Presently Employed vs. New Faculty):	
Facility Needs:	
Library needs:	

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates	Board of Trustees Approval Date: September 22, 2008 Board of Trustees Approval Date: June 27, 2011 Board of Trustees Approval Date: March 26, 2012 Board of Trustees Approval Date: March 22, 2013 Board of Trustees Approval Date: September 22, 2016
Reviewer Comments	

EXHIBIT B-17

Course Change Request

Date Submitted: 01/25/25 7:57 pm

Viewing: BIOL 232 : Microbiology Lecture

Last approved: 01/27/21 4:00 am

Last edit: 02/04/25 10:28 am

Changes proposed by: James Marshall (jmarshall)

Catalog Pages referencing this course	Approved General Education Courses Biology (BIOL) Nursing (NURS)
Programs referencing this course	AAS.HS.MDLT: Health Science - Option in Medical Laboratory Technology (w/ Mercer CC) AAS.NURS: Nursing, Associate in Applied Science

Learning Outcomes Display (show only)	AAS.NURS: Nursing, Associate in Applied Science PLO 2: Implement caring behaviors and interventions based on principles of liberal arts and science of nursing across a variety of settings.

1. Course Information

Subject	BIOL - Biology
School	Science, Technology, Engineering, Mathematics
Course Title	Microbiology Lecture

2. Hours

Semester Hours	3.00 ~~4.00000~~	
	Lecture	3.00
	Lab	~~2.00~~
	Practicum	

3. Catalog Description

For display in the online catalog	A course concerned primarily with microorganisms as they pertain to human welfare. ~~Laboratory activities relate to isolation, culture, identification and control of microorganisms.~~

4. Requisites

Prerequisites	BIOL 131 and ~~or~~ BIOL 131L or BIOL 162 and BIOL 162L
Corequisites	For the first attempt BIOL 232L is considered a corequisite. If the student should fail either lecture or lab after the first attempt then they may take the individual failed section. ~~None~~

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course	This course is required by the programs of study as outlined and approved for students in the nursing and/or allied health department.

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

General Education Category ~~Lab Science~~ Science (Non-Lab)

General Education Status Approved

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution Atlantic Cape CC

Course Title Microbiology

Course Number BIOL 203

Number of Credits 4

Comments

Institution Mercer County CC

Course Title Microbiology

Course Number BIOL 201

Number of Credits 4

Comments

Institution Brookdale CC

Course Title Microbiology

Course Number BIOL 213

Number of Credits 4

Comments

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
Bio EC, 4 credits	BI 219 for Nursing Program	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL 2003, 4 credits	Microbiology RN's only	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BY 107, 4 credits	Natural Science	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL 01072, 4 credits	General Ed.	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
Elective, 4 credits	Elective, General Ed.	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
BIOL 2170, 4 credits	Science	

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Describe the major classes of organisms that infect the human body with regard to general structure and patterns of infectivity.
CLO2	Describe key elements of Host Parasite relationships.
CLO3	Discuss the relationship between bacterial physiology and mechanisms of disease pathogenesis.
CLO4	Identify the major bacterial, viral, fungal and parasitic pathogens, and their consequences in human disease.
CLO5	Explain the general mechanisms of anti-microbial drugs and the nature of microbial resistance to drugs.
CLO6	Explain the concepts of virulence and virulence factors, and apply this knowledge to the understanding of the spectrum of microbial disease.
CLO7	Describe the major diseases that occur according to pathogens and by organ system.
CLO8	List essential nutrients for microbial growth and factors that influence growth rate.
~~CLO9~~	~~Understand general laboratory techniques and explain how they are used to differentiate between different etiologic agents.~~

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Introduction to Microbiology The scope of microbiology. The impact of microbes on the earth. Human use of microbes. History of microbiology.	Post chapter quiz.	Quiz, Ex
TO2	Prokaryotic Cell Structure and Function Bacterial form and function. External and internal structures. The Archaea.	Post chapter quiz. ~~Laboratory Experiment,~~ Microscopy	Quiz, Ex
TO3	Eukaryotic Cell Structure and Function The evolution of eukaryotes. Eukaryotic cell form and function. Fungi, Protists and Helminths.	Post chapter quiz. Microscopy ~~quiz.~~ ~~Laboratory Experiment, Microscopy~~	Quiz, Ex ~~Exam~~ ~~Laborat~~
TO4	Viruses The general structure of viruses. Modes of viral replication. Viruses and human health.	Post chapter quiz.	Quiz, Ex
TO5	Microbial Growth Microbial nutrition and the factors that affect growth.	Post chapter quiz.	Quiz, Ex
TO6	Microbial Metabolism The diverse metabolism of microbes. The role of enzymes as catalysts.	Post chapter quiz. ~~quiz.~~ ~~Laboratory Experiment~~	Quiz, Ex
TO7	Controlling microbial growth Physical methods of controlling microbial growth. Chemical agents used for microbial control.	Post chapter quiz. ~~quiz.~~ ~~Laboratory Experiment~~	Quiz, Ex
TO8	Antimicrobial drugs Antibacterial, antifungal and antiviral drugs. Antibiotic resistance	Post chapter quiz. ~~quiz.~~ ~~Laboratory Experiment~~	Quiz, Ex
TO9	Diseases of the Skin and Eye Infections of the skin and eyes	Post chapter quiz.	Quiz, Ex
TO10	Respiratory Infections Infectious diseases of the respiratory tract	Post chapter quiz.	Quiz, Ex
TO11	Diseases of the Digestive system Infectious diseases of the digestive system	Post chapter quiz.	Quiz, Ex
TO12	Diseases of the Nervous system Infectious diseases of the nervous system	Post chapter quiz.	Quiz, Ex
TO13	Diseases of the Cardiovascular system Infectious diseases of the cardiovascular system	Post chapter quiz.	Quiz, Ex

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?	o Lecture/Discussion o ~~Laboratory o~~ Demonstrations

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

Information

Communication-Written and Oral	Yes
Related Course	CL01 CL02 CL06 CL07

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Learning Outcome

Related Outline Component: TO1 TO2 TO4 TO5 TO7 TO9 TO11 TO12

Assessment of General Education Goal (Recommended but not limited to)
Threaded Discussions ~~Laboratory Report~~

Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning: Yes

Related Course Learning Outcome: CL01 CL02 CL03 CL04 CL05 CL06 CL07 CL08 ~~CL09~~

Related Outline Component: TO9 TO11 TO13

Assessment of General Education Goal (Recommended but not limited to)
Quizzes, Exams, Threaded Discussions ~~Quizzes, Exams~~

Technological Competency

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective: Yes

Related Course Learning Outcome: CL01

Related Outline Component: TO1 TO5

Assessment of General Education Goal (Recommended but not limited to)
Quizzes, Exams, Post chapter quiz.

Global and Cultural Awareness: Yes

Related Course Learning Outcome: CL05 CL07

Related Outline Component: TO9 TO10 TO11 TO12 TO13

Assessment of General Education Goal (Recommended but not limited to)
Exam, Term Paper

Ethical Reasoning and Action

Independent/Critical Thinking: Yes

Related Course Learning Outcome: CL03 CL04 ~~CL09~~

Related Outline Component: TO3 TO9 TO11 TO13

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

Threaded Discussions ~~Laboratory Experiments~~

14. Needs

Instructional Materials (text etc.):	PowerPoint presentation, ~~laboratory manual,~~ textbook (contact dept. for current adoption), and instructor companion website
Technology Needs:	Desktop computer/overhead projector and college course management system
Human Resource Needs (Presently Employed vs. New Faculty):	
Facility Needs:	Classroom, computer technology ~~laboratory setting and appropriate laboratory materials.~~
Library needs:	

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates	Board of Trustees Approval Date: September 22, 2008 Board of Trustees Approval Date: March 26, 2012 Board of Trustees Approval Date: September 22, 2016
Reviewer Comments	

EXHIBIT B-18

Course Change Request

Date Submitted: 01/25/25 7:58 pm

Viewing: CHEM 180 : Introductory Chemistry Lecture

Last approved: 06/09/21 12:17 pm

Last edit: 02/18/25 10:05 am

Changes proposed by: James Marshall (jmarshall)

Catalog Pages referencing this course	Approved General Education Courses Biology (BIOL) Chemistry (CHEM) Environmental Science (ENVI)
Programs referencing this course	AAS.NURS: Nursing, Associate in Applied Science
Other Courses referencing this course	In The Catalog Description: BIOL 130 : Human Anatomy and Physiology I Lecture CHEM 181 : General Chemistry I

Learning Outcomes Display (show only)

1. Course Information

Subject	CHEM - Chemistry
School	Science, Technology, Engineering, Mathematics
Course Title	Introductory Chemistry Lecture

2. Hours

Semester Hours	3.00 ~~4.00000~~
Lecture	3.00
Lab	~~2.00~~
Practicum	

3. Catalog Description

For display in the online catalog

A one-semester laboratory course designed for those who have not had a high-school science background or for those who have graduated from high school ten or more years ago. This course may be especially useful for those students preparing to enter the para-medical training programs or those wishing to prepare for college chemistry. The following are covered in this course: measurement, elements and compounds, properties of matter, atomic theory, nomenclature, quantitative analysis, chemical equations, calculations in chemistry, modern theory and the periodic table, chemical bonds, gaseous states of matter, matter and energy, atomic structure, periodic law, equation-writing, stochiometrics, pneumatics, solutions, acids, bases, salts, and oxidation-reduction. It is highly recommended that students enrolling in this course have taken high school algebra or MATH 011.

4. Requisites

Prerequisites	NONE
Corequisites	For the first attempt CHEM 180L is considered a corequisite. If the student should fail either lecture or lab after the first attempt then they may take the individual failed section. ~~NONE~~

5. Course Type

Course Type for Perkins Reporting	non-vocational (not approved for Perkins funding)

6. Justification

Describe the need for this course	This course provides a conceptual approach to the study of chemistry.

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

General Education Category	~~Lab Science~~ Science (Non-Lab)
General Education Status	Proposed ~~Approved~~

8. Consistency with the Vision and Mission Statements, the Academic Master Plan, and the strategic initiative

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

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

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	County College of Morris ~~Brookdale CC~~
Course Title	Introductory ~~Principles of~~ Chemistry
Course Number	CHM-117 ~~CHEM100~~
Number of Credits	3 ~~4~~
Comments	

Institution	Rowan ~~Middlesex County~~ College at Burlington County
Course Title	Chemistry ~~Principles of General, Organic, and Biochemistry~~
Course Number	CHE-107 ~~CHEM107~~
Number of Credits	3 ~~4~~

Comments

Institution	~~Atlantic Cape CC~~
Course Title	~~Introduction to College Chemistry~~
Course Number	~~CHEM 100~~
Number of Credits	~~4~~
Comments	

Institution	Mercer County CC
Course Title	Introductory Chemistry
Course Number	CHE-100
Number of Credits	3
Comments	

Institution	Salem CC
Course Title	Introductory Chemistry
Course Number	CHM-100
Number of Credits	3
Comments	

Institution	Union County College
Course Title	College Chemistry
Course Number	CHE-120
Number of Credits	3
Comments	

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CH111 World of Chemistry 4-credits ~~CH111~~	General Education (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Natural Science~~	

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CHEM1010 Preparatory Chemistry 4-credits ~~CHEM1010~~	General Education (linked course must complete both lecture & lab or only elective credit is granted) ~~Footnotes"K1,K3"~~	

Monmouth University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CE101 Chemistry in Our Lives 4-credits ~~CE101~~	General Education (linked course must complete both lecture & lab or only elective credit is granted)	

	~~Gen Ed Natural Science~~	

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CHEM 05102 Chemistry in Everyday Life 4-credits	General Education (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Lab Science~~	

Rutgers - New Brunswick, Mason Gross School of the Arts

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
01160134 Introduction to Chemistry 4-credits ~~01160134 "RU"~~	General Education (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed Lab Science~~	

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CHEMEC Chemistry Elective 4-credits ~~TRCREC~~	General Education (linked course must complete both lecture & lab or only elective credit is granted) ~~Gen Ed 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 basic mathematical principles to data collection and analysis: set ~~Set~~ up and solve chemical problems involving conversation of units, use of formulas, and solve equations for one variable; collect and organize data sets and derive the equation of a straight line from a graph, and analyze data according to the rules of significant figures ~~variable.~~
CLO2	Describe ~~data set~~ and demonstrate basic application ~~derive the equation~~ of fundamental chemical laws and theories related to the chemical structure and properties of matter, namely: ~~a straight line from a graph.~~ describe states of matter and application of gas laws; discuss basic electronic structure of atoms and ions in terms of atomic theory, define isotopes, write ground state electron configurations, and relate them to chemical bonding and valence numbers; describe oxidation and reduction; and identify different types of chemical reactions.
CLO3	Write, analyze and use chemical equations in solving problems and predicting processes outcomes and efficiency; name simple inorganic compounds according to standard rules of nomenclature and write chemical formulas of simple inorganic compounds based on their systematic names; calculate molar masses and molar quantities for chemical substances; write an balance chemical equations; use the balanced chemical equations for calculations of theoretical and percent yields of chemical reactions and discuss potential sources of non-ideal product yields ~~Analyze data according to the rules of significant figures.~~
CLO4	Examine the relationship between the chemical principles and their applications to real world dilemmas such as stoichiometry and manufacturing or pH and pollution.
CLO5	Communicate effectively, both orally and in writing ~~Name simple inorganic compounds according to standard rules of nomenclature.~~
CLO6	Develop formal (abstract) thinking skills as well as concrete thinking skills, think critically and analyze chemical problems ~~Calculate molar mass and molar quantities.~~
CLO7	Discuss the scientists responsible for the development of the main concepts

	discussed in this course and their country of origin or study ~~Define isotopes.~~
~~CLO8~~	~~Balance chemical equations.~~
~~CLO9~~	~~Describe states of matter.~~
~~CLO10~~	~~Describe the application of gas laws.~~
~~CLO11~~	~~Describe the basic electronic structure of atoms and ions in terms of atomic theory~~
~~CLO12~~	~~Write ground state electron configurations~~
~~CLO13~~	~~Describe chemical bonding and valence number~~
~~CLO14~~	~~Describe oxidation and reduction~~
~~CLO15~~	~~Work effectively and safely in a laboratory environment~~
~~CLO16~~	~~Communicate effectively, both orally and in writing~~
~~CLO17~~	~~Think critically and analyze chemical problems~~
~~CLO18~~	~~Develop formal (abstract) thinking skills as well as concrete thinking skills.~~
~~CLO19~~	~~Discuss the scientists responsible for the development of the main concepts discussed in this course and their country of origin or study.~~

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Foundation Concepts Introduction to Chemistry, Standards for Measurement, Elements and Compounds	Scientific Method, States of Matter, Scientific Notation, Significant Figures, The Metric System, Dimensional Analysis, Mass, Volume, Temperature, and Density, Elements, Compounds, Chemical Formulas.	Unit Tes
TO2	Matter and Early Atomic Theory, Chemical Terminology Properties of Matter, Atomic Theory, Nomenclature	Changes, Solving Chemical Problems, Energy and Heat, Dalton's Model of the Atom, Composition of Compounds, Electric Charge, Ions, Subatomic Structures, Isotopes, Atomic Mass, Naming: Elements, Ions, Binary Compounds, Polyatomic Ions, Acids	Unit Tes
TO3	Quantitative Calculations for Chemistry Quantitative Composition, Chemical Equations, Stoichiometry	Moles, Molar Mass, Percent Composition, Empirical Formulas, Molecular Formulas, Writing and Balancing Chemical Equations, Thermodynamics, Stoichiometry, Mole-Mole, Mole-Mass, Mass-Mass Calculations, Limiting Reaction	Unit Tes
TO4	Modern Theory, Bonding, and Gases Modern Theory, Periodic Table, Chemical Bonds, Gas Laws	Historical Significance of Atomic Theory, EM Radiation, Energy Levels of Electrons, Atomic Structure, Applications to the Periodic Table, Lewis Structures, Ionic Bonds, Covalent Bonds, Electronegativity, Molecular Shape, VSEPR Theory, Kinetic Molecular Theory, Gas Laws from Boyle's Law to Dalton's Law of Partial Pressure	Unit Tes

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?	Lecture/Discussion/Laboratory Experimentation

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

Information

Communication-Written and Oral

Quantitative Knowledge and Skills Yes

Quantitative Knowledge and Skills Yes

Related Course Learning Outcome	CLO1, CLO2, CLO3 ~~CLO3, CLO6, CLO15~~
Related Outline Component	TO1, TO2, TO3
Assessment of General Education Goal (Recommended but not limited to)	Unit Test and Lab Exercises

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Scientific Knowledge and Reasoning Yes

Related Course Learning Outcome	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7 ~~CLO7, CLO8, CLO9, CLO10, CLO11, CLO12, CLO13, CLO14, CLO15, CLO16, CLO17, CLO18, CLO19~~
Related Outline Component	TO1, TO2, TO3, TO4
Assessment of General Education Goal (Recommended but not limited to)	Unit Test and Lab Exercises

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Technological Competency

Information Literacy

Society and Human Behavior

Humanistic Perspective

Historical Perspective

Global and Cultural Awareness

Ethical Reasoning and Action

Independent/Critical Thinking Yes

Related Course Learning Outcome	CLO1, CLO2, CLO3, CLO4, CLO5, CLO6, CLO7 ~~CLO7, CLO8, CLO9, CLO10, CLO11, CLO12, CLO13, CLO14, CLO15, CLO16, CLO17, CLO18, CLO19~~
Related Outline Component	TO1, TO2, TO3, TO4
Assessment of General Education Goal (Recommended but not limited to)	Unit Test and Lab Exercises

14. Needs

Instructional Materials (text etc.):	An appropriate textbook will be selected. Please contact the Department Office for current adoption. A pocket calculator with logarithmic functions is ~~and safety goggles are~~ required.
Technology Needs:	Computers for lecture presentations, chemistry animations and data graphing.

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Human Resource Needs (Presently Employed vs. New Faculty):	Presently Employed and Adjunct Faculty.
Facility Needs:	~~Laboratory setting and appropriate laboratory materials.~~
Library needs:	

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates	Revised: December, 1990 Revised: February 27, 1996 Revised: April 30, 1996 Revised: December, 1998 Revised: May 4, 2004 Revised: August 18, 2005 Revised: August 27, 2007 Revised: April 27, 2009 Revised: May 22, 2012 Board of Trustees Approval Date: January 26, 2017
Reviewer Comments	

EXHIBIT B-19

Course Change Request

Date Submitted: 12/11/24 1:21 pm

Viewing: CSIT 144 : Introduction to Operating System Using Linux ~~Unix~~

Last approved: 10/16/21 4:00 am

Last edit: 12/11/24 1:21 pm

Changes proposed by: Vandana Saini (vsaini)

Catalog Pages referencing this course	Computer Science/ Information Technology (CSIT)
Programs referencing this course	AAS.CS.CY: Computer Science/Informational Technology - Option in Cybersecurity, Associate in Applied Science AS.CS.CIS: Computer Science with Cyber-Information Security Option, Associate in Science AAS.CS: Computer Science/Information Technology, Associate in Applied Science CC.INFO: Information Technology, Certificate of Completion CC.CYBER: Certificate of Completion in Cybersecurity

Learning Outcomes Display (show only)	CC.CYBER: Certificate of Completion in Cybersecurity PLO 1: Demonstrate a knowledge of the fundamental concepts of computer, network, application and information security. Student will possess knowledge on a broad category of security topics such as security controls, basic cryptography concepts, secure network architectures, protocols and cyber-attacks.

1. Course Information

Subject	CSIT - Computer Science/ Information Technology
School	Science, Technology, Engineering, Mathematics
Course Title	Introduction to Operating System Using Linux ~~Unix~~

2. Hours

Semester Hours	3.00000
Lecture	3
Lab	0
Practicum	0

3. Catalog Description

For display in the online catalog	This course is designed to enable the student to use the Linux ~~UNIX~~ operating system. Topics include basic commands, compilers, editors, text processors, shell and awk programming, file system organization and basic system administration. Students will have access to the Mac computers and a Linux ~~UNIX~~ server housed in the Technology building. Open lab time required.

4. Requisites

Prerequisites	Prior programming experience suggested
Corequisites	None

5. Course Type

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

6. Justification

Describe the need for this course	This is a program-specific requirement in the AS Computer Science Degree with Cyber Security Option.

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 initiative

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

	Add item
1	Offer comprehensive educational programs that develop intentional learners of all ages and ensure the full assessment of student learning in these programs. (Mission Statement)
2	Foster educational innovation through effective teaching-learning strategies, designed to develop and nurture intentional learners who are informed and empowered. (Vision Statement)
3	Employ technology and learning outcomes assessment to ensure student success in an increasingly diverse and complex world. (Vision Statement)
4	Prepare students for entrance into the workforce and/or for successful transfer to other educational institutions. (Academic Master Plan)
5	Seek to empower students through the mastery of intellectual and Practical Skills. (Academic Master Plan)
6	Challenge students to transfer information into knowledge and knowledge into action. (Academic Master Plan)

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Brookdale CC
Course Title	Introduction to UNIX
Course Number	COMP 145
Number of Credits	3
Comments	

Institution	Middlesex County College
Course Title	Unix and Shell Programming
Course Number	CSC 145
Number of Credits	3

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Comments

Institution	Mercer County CC
Course Title	Mastering Linux
Course Number	NET 214
Number of Credits	3
Comments	

Institution	Raritan Valley CC
Course Title	Unix and Linux
Course Number	CISY 237
Number of Credits	3
Comments	

Institution	Atlantic Cape CC
Course Title	Using PC Operating Systems
Course Number	CISM130
Number of Credits	3
Comments	This course addresses the Unix Operating System although not exclusively

Institution	Bergen CC
Course Title	Unix/Linux Network Administration
Course Number	INF-254
Number of Credits	3
Comments	

Institution	Camden County College
Course Title	Linux/UNIX Essentials
Course Number	CIS-181
Number of Credits	3
Comments	

Institution	Essex County College
Course Title	Intro to Linux/Unix Operating System
Course Number	CSC 113
Number of Credits	4
Comments	

Institution	County College of Morris

Course Title	Introduction to UNIX
Course Number	CMP-209
Number of Credits	3
Comments	

Institution	Warren County CC
Course Title	Operating Systems Fundamentals: UNIX
Course Number	CSC 150
Number of Credits	3
Comments	

Transferability of Course

Georgian Court University

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

Kean University

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

Monmouth University

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

Rowan University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CS01102 Intro to Programming 3 cr.	Major, Gen. Ed.	

Rutgers - New Brunswick, Mason Gross School of the Arts

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

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
CSISEC, Computer Science & Info Sys Elective 3 cr.	Computer Science 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	Describe the Linux ~~UNIX~~ system and how it works.
CLO2	Communicate electronically with users.
CLO3	Discuss the current use of Linux ~~UNIX~~ and its advantages.
CLO4	Describe and use the Linux ~~UNIX~~ file system.
CLO5	Describe and use filters and pattern matching.

CLO6	Describe and use Shell programming.
CLO7	Describe and use compilers, linkers and awk programming.
CLO8	Describe and use processes (scheduling, monitoring, prioritizing and canceling).
CLO9	Describe and use system administration.
CLO10	Compare the Linux ~~Unix~~ system with other similar operating systems.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	Introduction to the Linux ~~UNIX~~ system 1) Components of the Linux ~~UNIX~~ operating system 2) History of Linux ~~UNIX~~ 3) Current uses and applications of the Linux ~~UNIX~~ operating system 4) Login/logout process 5) Establishing passwords	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;
TO2	Communication 1) Determining users on 2) Chat 3) Mail 4) Broadcast 5) Preventing user messages	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;
TO3	Popular tools 1) Obtaining help 2) Switching accounts 3) Disk utilization 4) Date and calendar	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;
TO4	File system structure 1) File types 2) Directory structure a) Paths: absolute and relative b) Creating files and directories c) Copy, Move and Link files d) Mounting and unmounting file systems e) Default and home directories f) Hard and symbolic links 3) Permissions a) Changing user, group and others b) Set user id, group id and sticky bit c) umask 4) Listing files a) Wildcards and metacharacters b) File types c) File substitutions d) Redirection and pipes	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;
TO5	Editor (vi vs. IDEs) 1) Basic commands 2) Searching, changing and replacement 3) Inputting and saving text in vi 4) Macros, abbreviations, set options and shell escapes	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;
TO6	Compiling (JAVA vs. C++) 1) Compilers 2) Linking	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;
TO7	Process Control 1) Monitoring processes	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;

	2) Background and foreground 3) Timing 4) Prioritizing 5) Killing		
TO8	Performance tuning 1) Scheduling (at and cron)	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;
TO9	Filters 1) Sorting 2) Differences between files 3) Pattern matching 4) Stream editor	Hands-on; In-class & Lab exercises, Programing Projects	Quizzes;
TO10	Shell programming 1) Kernel and Shell 2) Functions of Shell 3) Bourne Shell a) Variables b) Expressions c) Quoting d) Command line parameters e) Customizing 4) Shell programming a) Looping b) Decision making c) Functions d) Validating input e) Calling shell scripts		Quizzes;
TO11	Awk programming 1) Syntax 2) Joining files using cut and paste 3) Creating program 4) Running program		Quizzes;
TO12	Comparisons to other operating systems 1) ~~Linux~~ ~~2)~~ Various versions of UNIX 2) ~~3)~~ Mobile UNIX-based		Quizzes;
TO13	Basic system administration 1) Establishing users and groups 2) Establishing environments 3) Backup and restores 4) System monitoring tools 5) System accounting tools		Quizzes;

12. Methods of Instruction

In the structuring of this course, what major methods of instruction will be utilized?	Class lecture, discussion, demonstrations, lab assignments, programs and online presentations.

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

Information

Communication-Written and Oral

Quantitative Knowledge and Skills

_____

Scientific Knowledge and Reasoning

_____

Technological Competency Yes

Related Course Learning Outcome All

Related Outline Component All

Assessment of General Education Goal (Recommended but not limited to)
Quizzes; Exams, Programing Projects

_____

Information Literacy

_____

Society and Human Behavior

_____

Humanistic Perspective

_____

Historical Perspective

_____

Global and Cultural Awareness

_____

Ethical Reasoning and Action

_____

Independent/Critical Thinking Yes

Related Course Learning Outcome All

Related Outline Component All

Assessment of General Education Goal (Recommended but not limited to)
Quizzes; Exams, Programing Projects

14. Needs

Instructional Materials (text etc.):	An appropriate text and/or open educational resource will be selected. Assembly Language Programming Software, Logic Gate Simulation Software and/or actual Integrated Circuits. Contact the department for Current adoptions. Class notes, presentations, and online materials.
Technology Needs:	College portal and/or college distance learning platform and/or textbook or instructor website. Computer lab equipped with necessary software to accommodate each student.
Human Resource Needs (Presently Employed vs. New Faculty):	Faculty (Fulltime, Adjunct and Lecturers)
Facility Needs:	Computer lab equipped with necessary software to accommodate each student. Ideally a computer-equipped podium with a connect projector (for demonstrations)
Library needs:	

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates	Revised: December 1990; February 27, 1996; April 30, 1996; December 1998; May 4, 2004; Feb. 28, 2006; March 8, 2006 Board of Trustees Approval Date: December 11, 2006 Board of Trustees Approval Date: March 26, 2012 PLT Approval of Form: May 22, 2012 Board of Trustees Approval Date: November 3, 2014 PLT Approval of Form: October 28, 2014 Approval of Form: September 2017 Board of Trustees Approval Date: March 26, 2020 Board of Trustees Approval Date: April 7, 2023
Reviewer Comments	

EXHIBIT B-20

Course Change Request

Date Submitted: 12/03/24 3:21 pm

Viewing: GRPH 151 : Graphic Design I ~~Digital Imagery~~

Last approved: 04/05/23 2:46 pm

Last edit: 01/10/25 9:04 am

Changes proposed by: James Marshall (jmarshall)

Catalog Pages referencing this course	Graphic Design (GRPH)
Programs referencing this course	AS.GADM: Graphic Arts, Design, & Media, Associate in Science CC.PHOT: Photography, Certificate of Completion AAS.WBMKT: Web marketing, Associate in Applied Science

Learning Outcomes Display (show only)

AS.GADM: Graphic Arts, Design, & Media, Associate in Science

PLO 1: Construct, communicate, and modify specific messages with visual design tools (print or electronic).

PLO 2: Apply creative thinking and problem-solving techniques to various design tasks.

PLO 3: Demonstrate ethical and social awareness of the history of design practices.

PLO 4: Appraise and inspect others' work while participating in group critiques.

PLO 7: Develop aesthetic and intellectual understanding pertaining to visual communications.

PLO 8: Develop and maintain a body of creative work.

1. Course Information

Subject	GRPH - Graphic Design
School	Arts and Humanities
Course Title	Graphic Design I ~~Digital Imagery~~

2. Hours

Semester Hours	3.00000
Lecture	2
Lab	2
Practicum	0

3. Catalog Description

For display in the online catalog

Graphic Design I ~~Digital Imagery~~ is an introductory college-level course that ~~which~~ provides foundational ~~an orientation and basic~~ skills in ~~to the~~ industry-standard computer imaging, focusing on raster images, color techniques, and a variety of design software, including Adobe Photoshop. ~~Photoshop and Adobe Illustrator software.~~ The ~~This~~ course explores design applications across multiple media, such ~~is designed to introduce students to the computer~~ as print ~~a tool for making art, with emphasis on hand built two dimensional vector~~ and interactive/online formats, introducing students to the computer as a tool for creating design and art. ~~raster based images.~~ Emphasis is placed ~~Students focus~~ on raster-based images and the integration of ~~how vector and~~ raster ~~images can be used as a communicative device for design~~ and vector images to communicate effectively in design ~~illustration~~ and illustration while exploring ~~as an exploration of the unique visual qualities of~~ their unique visual qualities. ~~combination.~~

Through a series of assignments that simulate real-world professional scenarios, students will

develop problem-solving techniques, apply elements and principles of art, and hone verbal and visual conceptual skills. Lectures. ~~This will be accomplished through lectures,~~ exercises, individual and ~~student~~ team projects, discussions. ~~assignments, discussion, and exploration in~~ and both in-class and independent exploration will support their learning. ~~outside of the classroom.~~ Assignments require ~~that~~ students to combine traditional media with digital technologies to expand their creative experiences. ~~as a means of extending the experience. These skills are prerequisites for all those interested in transferring or working within the graphic design industries.~~

4. Requisites

Prerequisites	None
Corequisites	None

5. Course Type

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

6. Justification

Describe the need for this course	This course is essential component of the A.S. in Graphic Arts, Design, and Media. The course is intended for students interested in learning how to create and edit basic raster images ~~and vector graphics~~ for professional use. Topics include fundamental design elements ~~principles, developing vector~~ and principles, developing raster images combined with vector art for print and web, some color theory, graphic file formats and resolution. Students will acquire both a theoretical understanding and a foundation of practices and vocabularies in these areas, which will lay the foundation for future creative work and projects.

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 initiative

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

	Add item
1	This course will help the college to fulfill its mission of fostering excellence by offering ~~by offering~~ comprehensive programs that develop intentional learners of all ages.
2	This course is consistent with the following goals of the college as expressed in the Academic Master Plan: o Provide a challenging, coherent, and integrated curriculum including high quality instructional and cultural programs for a diverse population of students. o Establish a shared commitment to high and meaningful educational and ethical standards. o Prepare students for successful transfer to other educational institutions. o Prepare students for a rewarding life marked by personal growth and lifelong learning.

9. Related Courses at Other Institutions

Comparable Courses at NJ Community Colleges

Institution	Bergen CC
Course Title	Computer Imaging
Course Number	ART 197
Number of Credits	3
Comments	

Institution	County College of Morris
Course Title	~~Introduction to~~ Computer Graphics for Designers I
Course Number	GRD 108 ~~11~~
Number of Credits	3
Comments	

Institution	Sussex County CC
Course Title	Introduction to Computer Graphics
Course Number	GRAD 101
Number of Credits	3
Comments	

Institution	Rowan College of South Jersey
Course Title	Introduction to Computer Graphics
Course Number	CG 101
Number of Credits	3
Comments	Cumberland Campus

Institution	Salem CC
Course Title	Introduction to Computer Graphics
Course Number	CGA 101
Number of Credits	3
Comments	

Institution	Rowan College of South Jersey
Course Title	Foundations of Computer Graphic Arts
Course Number	CGA 115
Number of Credits	3
Comments	Gloucester Campus

Transferability of Course

Georgian Court University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
~~GD 111, Introduction to Design, 3 cr.~~	~~Major~~	Unable to determine status

Kean University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
~~GD 1000, Computers In Graphic Design, 3 cr.~~	~~Major~~	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
~~001,Graphic Design 1, 3 cr.~~	~~Major~~	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
~~21:085:370, Computers in Graphic Design, 3 cr.~~	~~Major~~	Unable to determine status

Stockton University

Course Code, Title, and Credits	Transfer Catagory	If non-transferable; select status
~~ARTV2270-001, Graphic Design 1, 3 cr.~~	~~Major~~	Unable to determine status

If not transferable to any institution, explain:

10. Course Learning Outcomes

Learning Outcomes

	Students who successfully complete this course will be able to:
CLO1	Formally analyze and ~~&~~ critique individual graphics and ~~and~~ design composition and ~~and~~ demonstrate an understanding the importance of various elements and ~~unity~~ principles of art in design projects.
CLO2	Acquire basic graphic design terminology.
CLO3	Discover basic graphic design techniques by use of the Adobe Photoshop program and creation of raster images. ~~Illustrator programs.~~
CLO4	Develop an understanding of the basic digital file formats, resolution, color models, and vector vs. bitmap images.
CLO5	Demonstrate a basic proficiency in the creation and modification of raster based images ~~vector~~ and compositing them with vector art. ~~raster based images.~~
CLO6	Explain the basic design process and social context of graphic design, its history, and social impact.

11. Topical Outline

(include as many themes/skills as needed)

	Major Themes/ Skills	Assignments (Recommended but not limited to)	
TO1	-Technology Foundations. -Introduction to Mac OS, software, hardware and technology general overview. -Pixel-Based Software :Adobe Photoshop user interface and basic tools. · File formats, resolution -File Management;	· Reading in course text · Class discussions · Presentations · Exercises · Project	· Quizze · Project

	-Saving in appropriate format and understand purpose of file formats (PSD,JPEG, EPS, GIF, PNG, RAW, PDF, etc); · Understanding the difference between raster & vector images; · Navigating workspace; Creating and saving custom workspace; -Arrangement of multiple documents; -Foundations of Design; ~~Introduction to Adobe Illustrator and basic tools.~~ ~~· File formats~~ ~~· Understanding the difference between raster & vector images.~~ ~~· Basic tools applied to an illustration.~~		
TO2	-Compositing image and artwork; -Understanding file saving preferences; -Rasterize a vector file; -Place files as a smart object; -Embedded vs.linked images; -Foundations of Design. · Using design elements and principles; -Learn how to effectively use Bridge for quickly finding and viewing images ~~Learning to render.~~ ~~· Shape based tools, layering and grouping.~~ ~~· Controlling color.~~ ~~· Navigating workspace.~~ ~~· Using unity principles and multiples to create a draft based approach to digital imaging.~~	· Reading in course text · Writing · Class discussions · Project · Exercises · Presentations	· Design · Writter · Project · Quizze
TO3	-Managing Layers; -Creating, name layers and layer groups; -Understanding Appearances and how to edit them; -Work with Layer Groups; -Move and transform smart object layers; -Transform regular and background layers; -Navigating the History -Layer Masks and editing -Understanding Adjustment layers -Special Effects; -Historical and contemporary compositing features and techniques; -Foundations of Design; ~~Design & text~~ ~~· Text tools.~~ ~~· Preparing a file for fail safe file sharing.~~ ~~· Text as a visual element, historical strategies.~~	· Reading in course text · Research · Presentations · Writing · Class discussions · Project · Exercises	· Quizze · Design · Writter · Project
TO4	-Creating complex selections; -Categories of available selection tools and commands; -Making freehand selections in a smart objects; -Understanding Lasso tiool; -Saving selections; -Understanding channels; -Foundations of Design; ~~Layers& automatic image creation tools~~ ~~· Controlling and editing anchors & paths.~~ ~~· Color variation and~~	· Reading in course text · Class discussions · Project · Exercises · Group critiques	· Quizze · Writter · Presen · Project

	adjustment tools. - Exploring representation and illustration options. - Understanding the impact of photography on image creation.		
TO5	-Applying styles and filters; -Applying textures; -Layer Styles in depth; -Custom Layer effects; -Creating customAdjustment layers; -Distinguishing Blending modes; -Create Pattern fill layers; -Foundations of Design; Creating sophisticated images and design - Unity principles and design strategies - Avoiding cliché in image creation - Communicating effectively in a visual medium	· Class discussions · Project · Exercises · Presentations · Class discussions	· Quizze · Writte · Project
TO6	-Raster images, color, gradient and style; -Understand tints, shades and tones; -Basic color harmonies based on the color wheel -Color psychology and its impact on design; -Creating and using color panels effectively; -Color adjustments, corrections, and harmonies in Photoshop; -Color for print and web; -Understand how to select complementary, analogous, triadic, split complementary, tetradic and square color schemes; -Differences between RGB, CMYK and spot colors and how to properly utilize each for specific projects and media; -Utilize Color as a functional design element of perception and visual communication; -Color Calibration; -Historical & contemporary compositing features; -Foundations of Design; Illustration & style - Developing style by avoiding default settings - Controlling color - Controlling content and concept - Historical & contemporary illustration features	· Class discussions · Project · Exercises · Group critiques · Presentations · Group critiques	· Design · Writte · Project · Quizze · Test
TO7	-Correcting and enhancing digital photo images; • Color mode; • Image resolution and size; • Straighten and crop image; • Rotate cropped image; • Automatic adjustments; • Manually adjusting tonal range; • Replacing color; -Clone tool; -Spot healing brush; -Correcting Red Eye; -Sharpening; -Distortion; -Adding Depth of Field;	· Class discussions · Project · Exercises · Presentations · Class discussions	· Design · Writte · Project · Quizze

	-Cleaning & cropping photos; ~~7.Introducing Photoshop basics~~ ~~- Navigating the workspace~~ ~~- Controlling light, color & contrast~~ ~~- Creating strong photographic images – viewing angle & distance~~ ~~- Cleaning & cropping photos~~		
TO8	-Type in Photoshop -Point v Paragraph Type; -Character panel; -Paragraph panel; -Type on a Path; -Warping Type; -Convert type to shapes; -Horizontal/Vertical Type Mask Tool; -Create a selection in the shape of type; -Clipping Mask w/ Type; -Open Type; -Foundations of Design. ~~Photomontage & text~~ ~~- Using layers, masks & transparency~~ ~~- Creating a visual hierarchy through unity principles~~ ~~- Using Layer Styles with type~~ ~~- Warping Type~~ ~~- Type on a Path~~ ~~- Type Masks~~	· Reading in course text · Class discussions · Project · Writing · Research	· Quizze · Writte · Project · Group
TO9	-Creating Vector Graphics in Photoshop ; -Bitmap vs. Vector; -Pen Tool; -Magnetic and Freeform Pen Tool; -Shape layers; -Smart Objects; -Creating a visual hierarchy through unity principles; -Foundations of Design; ~~Combing raster & vector~~ ~~- Adding visual texture~~ ~~- Utilizing handbuilt drawing, painting and collage.~~ ~~- Controlling selection tools.~~	· Reading in course text · Research · Class discussions · Project · Writing	· Design · Writte · Project · Quizze · Presen
TO10	-Combing raster & vector images; · Utilizing handbuilt drawing, painting and collage. -Creating a visual hierarchy through unity principles; -Color management in théorie and practice; -Converting image color modes; -Identifying out-of-gamut colors; -Converting image color modes; -Converting images to grayscale modes; ~~Printing, saving and Exporting~~	· Reading in course text · Writing · Class discussions · Viewing video content	· Quizze · Writte · Test
TO11	-Advanced Image Manipulation	· Reading in course text	· Design

TO11	-Advanced Image Manipulation; -Photo compositing, and photo-manipulations; -Special effects: blending modes, filters, and advanced image adjustments; -Advanced photo manipulation and retouching;	· Reading in course text · Writing · Class discussions · Viewing video content	· Design · Writter · Project · Quizze · Presen
TO12	-Print Production and Prepress; -Preparing documents for professional printing: bleeds, margins; -CMYK color mode and color management for print; -Print file formats and export settings; -Collaborating with print providers and understanding the production process; -Designing for the web: responsive design and screen resolution; -Creating web graphics: banners, icons, and UI/UX design and elements.	· Reading in course text · Research · Class discussions · Project · Writing	· Quizze · Writter · Test

12. Methods of Instruction

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

o Lectures
o Exercises
o Projects
o Student team assignments
o Group discussion
o Exploration in and outside of the computer assisted classroom
o Examinations

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

Information

Communication-Written and Oral — Yes

Related Course Learning Outcome — CLO1-CLO4, CLO6

Related Outline Component — TO: All

Assessment of General Education Goal (Recommended but not limited to)
· Quizzes · Exams · Written assignments · Research papers · Projects · Group Projects · Group Discussions

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Quantitative Knowledge and Skills

Scientific Knowledge and Reasoning

Technological Competency — Yes

Related Course Learning Outcome — CLO: All

Related Outline Component — TO: All

Assessment of General Education Goal (Recommended but not limited to)
· Quizzes · Exams · Written assignments · Research papers · Projects · Group Projects · Group Discussions

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Information Literacy

Society and Human Behavior

Humanistic Perspective	Yes
Related Course Learning Outcome	CLO: All
Related Outline Component	TO: All

Assessment of General Education Goal (Recommended but not limited to)
· Quizzes · Exams · Written assignments · Research papers · Projects · Group Projects · Group Discussions

Historical Perspective

Global and Cultural Awareness

Ethical Reasoning and Action

Independent/Critical Thinking	Yes
Related Course Learning Outcome	CLO: All
Related Outline Component	TO: All

Assessment of General Education Goal (Recommended but not limited to)
· Quizzes · Exams · Written assignments · Research papers · Projects · Group Projects · Group Discussions

14. Needs

Instructional Materials (text etc.):	An appropriate textbook will be selected. Contact the department for current adoptions.
Technology Needs:	Online modality requires computer with Internet access, and creative software.
Human Resource Needs (Presently Employed vs. New Faculty):	Presently Employed
Facility Needs:	Presently Existing TECH 206
Library needs:	

15. Grade Determinants

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

A: Excellent

B+: Very Good

B: Good

C+: Above Average

C: Average

D: Below Average

F: Failure

I: Incomplete

R: Audit

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

16. Board Approval

History of Board approval dates	Board of Trustees Approval Date: March 23, 2017 FYI only - Course fee update in batch. CC 2/23/23, senate 3/2/23, and BOT 3/17/23
Reviewer Comments	**James Marshall (jmarshall) (12/17/24 1:58 pm):** Rollback: Name Change and Course Description Sentence Edit.