



2022-2023 Academic Year

Sustainability

Associate in Science Degree (A.S.)

B-STEM Division

Business, Science, Technology, Engineering and Math

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An increased global focus on green initiatives, alternative energy, and conservation practices has prompted a growing demand for graduates with specialized training in sustainability. The **Sustainability** A.S. degree program exposes students to the various components of sustainability, including areas such as the natural sciences, ethics, and economics as a foundation of sustainability education.

Upon completion of the program, students will be able to transfer to a university and pursue a bachelor's degree in their chosen area of specialization. Currently in New Jersey, Kean University, Stockton College, Montclair State University, and Drew University all maintain bachelor's degree programs in sustainability. Additionally, Rider University offers a minor in sustainability and Ramapo College and Montclair State University have a master's degree program.

Admission to the program requires a high school diploma or its equivalent.

PROGRAM OUTCOMES

- Demonstrate an understanding of the fundamental concept of sustainability;
- View the world and all of its resources with a greater understanding, insight, and appreciation;
- Understand key environmental issues as they relate locally, nationally and globally;
- Demonstrate the ability to apply the scientific method of inquiry to gather and use information for the purpose of critical thinking, information analysis and problem solving;
- Recognize that knowledge of history, literature, geography, economics and ethics all play an important role in sustainability;
- Transfer and successfully pursue a baccalaureate degree in sustainability.

DEGREE CURRICULUM

2022-2023 Academic Year

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The course sequence below represents a recommended example of how this degree program can be completed in two years, presuming a Fall Term start and satisfaction of all Developmental Studies (foundation courses) requirements and prerequisites. Actual approaches toward completion depend on each student's anticipated transfer institution, career objectives, or other individual circumstances.

Students are encouraged to meet regularly with an academic advisor or Success Coach to consider options, establish plans, and monitor progress.

Code	Course (lecture/lab hours)	Credits	To Do This Semester
FIRST SEMESTER			
BIO 101	General Biology I (3/3)	4	✓ Meet with your faculty advisor to complete an academic plan. Make sure you are aware of any course prerequisites you may need to take, and how long it will take to complete your degree. ✓ Use your online tools: Check your MercerMail daily, utilize features of Office 365, and get to know Student Planning . ✓ Take advantage of Learning Centers or Online Tutoring to support your studies and assignments.
ENG 101	English Composition I (3/0)	3	
SUS 101	Introduction to Sustainability (3/0)	3	
— —	Humanities general education elective	3	
	<ul style="list-style-type: none"> Select from PHI 102, 112, 113, 204, 205; SPA 101. 		
— —	Social Science general education elective	3	
	<ul style="list-style-type: none"> Select from ECO 111; GEO 101; POL 101, 102; PSY 101; SOC 101. 		

SECOND SEMESTER

BIO 102	General Biology II (3/3)	4	<ul style="list-style-type: none"> ✓ Transitioning to college can be challenging. Meet with your Success Coach for guidance and support. ✓ Apply for financial aid by May 1. ✓ Contact professors with questions and use their office hours to develop a connection. ✓ Apply for Continuing Student scholarships at www.mccc.edu/m-scholarships. ✓ Begin attending college transfer events and visit campuses. Be sure to visit the Transfer Services and Career Services offices to get to know how the transfer process works and to explore career options. ✓ Plan for how you will complete transfer applications while finishing your classes.
CMN 111	Speech: Human Communication (3/0)		
	<i>OR</i>	3	
CMN 112	Public Speaking (3/0)		
ENG 102	English Composition II (3/0)	3	
MAT 151	Calculus I for the Mathematical and Physical Sciences (4/0)	4	

THIRD SEMESTER

CHE 101	General Chemistry I (3/3)	4	<ul style="list-style-type: none"> ✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.
MAT 201	Probability and Statistics for Science and Engineering (4/0)	4	
PHY 101	College Physics I (3/3)		
	<i>OR</i>	4	

PHY 115 University Physics I (3/3)

— — Technical elective

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- Select from BIO 204; OHT 108; PHY 102, 215.

✓ Complete your applications to desired transfer institutions.

✓ Develop team and leadership skills by getting involved in [activities and clubs](#).

✓ Manage your stress! Take advantage of the MCCC pool, [Fitness Center](#), free yoga and Zumba. Reach out for [counseling](#) or other support if you need it. Your [Success Coach](#) can connect you with resources.

FOURTH SEMESTER

CHE 102 General Chemistry II (3/3)

4

— — Technical elective

4

- Select from BIO 204; OHT 108; PHY 102, 215.

✓ Apply for [financial aid](#) by May 1.

✓ Talk to your faculty advisor and the [Transfer office](#) for advice on how to successfully transition to a new school.

— — General Education elective

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- Select from ECO 111; GEO 101; PHI 102, 112, 113, 204, 205; POL 101, 102; PSY 101; SOC 101; SPA 101.

✓ Apply for Graduating Student scholarships at www.mccc.edu/m-scholarships.

— — General Education elective

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- Select from ECO 111; GEO 101; PHI 102, 112, 113, 204, 205; POL 101, 102; PSY 101; SOC 101; SPA 101.

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NOTE: Electives should be selected in consultation with an academic advisor in order to ensure maximum transfer of credits.