



2023-2024 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

2023-2024 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
<b>FIRST SEMESTER</b>			
<a href="#">BIO 101</a>	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 <a href="#">MercerMail</a> daily, utilize features of Office 365, and get to know <a href="#">Student Planning</a> .  ✓ Take advantage of <a href="#">Learning Centers</a> or <a href="#">Online Tutoring</a> to support your studies and assignments.
<a href="#">ENG 101</a>	English Composition I (3/0)	3	
<a href="#">SUS 101</a>	Introduction to Sustainability (3/0)	3	
— —	<a href="#">Humanities general education elective</a>	3	
	<ul style="list-style-type: none"> <li>Select from PHI 102, 112, 113, 204, 205; SPA 101.</li> </ul>		
— —	<a href="#">Social Science general education elective</a>	3	
	<ul style="list-style-type: none"> <li>Select from ECO 111; GEO 101; POL 101, 102; PSY 101; SOC 101.</li> </ul>		

## SECOND SEMESTER

<a href="#">BIO 102</a>	General Biology II (3/3)	4	<p>✓ Transitioning to college can be challenging. Meet with your <a href="#">Success Coach</a> for guidance and support.</p> <p>✓ Apply for <a href="#">financial aid</a> by May 1.</p> <p>✓ Contact professors with questions and use their office hours to develop a connection.</p> <p>✓ Apply for Continuing Student scholarships at <a href="http://www.mccc.edu/m-scholarships">www.mccc.edu/m-scholarships</a>.</p> <p>✓ Begin attending college transfer events and visit campuses. Be sure to visit the <a href="#">Transfer Services</a> and <a href="#">Career Services</a> offices to get to know how the transfer process works and to explore career options.</p> <p>✓ Plan for how you will complete transfer applications while finishing your classes.</p>
<a href="#">CMN 111</a>	Speech: Human Communication (3/0)		
	<i>OR</i>	3	
<a href="#">CMN 112</a>	Public Speaking (3/0)		
<a href="#">ENG 102</a>	English Composition II (3/0)	3	
<a href="#">MAT 151</a>	Calculus I for the Mathematical and Physical Sciences (4/0)	4	

## THIRD SEMESTER

<a href="#">CHE 101</a>	General Chemistry I (3/3)	4	<p>✓ Keep in contact with each professor and your faculty advisor. Make sure you are on track to graduate.</p>
<a href="#">MAT 201</a>	Probability and Statistics for Science and Engineering (4/0)	4	
<a href="#">PHY 101</a>	College Physics I (3/3)		
	<i>OR</i>	4	

<u>PHY 115</u>	University Physics I (3/3)			✓ Complete your applications to desired transfer institutions.
— —	Technical elective		4	✓ Develop team and leadership skills by getting involved in <a href="#">activities and clubs</a> .
				✓ Manage your stress! Take advantage of the MCCC pool, <a href="#">Fitness Center</a> , free yoga and Zumba. Reach out for <a href="#">counseling</a> or other support if you need it. Your <a href="#">Success Coach</a> can connect you with resources.
				• Select from BIO 204; OHT 108; PHY 102, 215.

## FOURTH SEMESTER

<u>CHE 102</u>	General Chemistry II (3/3)		4	✓ Apply for <a href="#">financial aid</a> by May 1.
— —	Technical elective		4	✓ Talk to your faculty advisor and the <a href="#">Transfer office</a> for advice on how to successfully transition to a new school.
				✓ Apply for Graduating Student scholarships at <a href="http://www.mccc.edu/m-scholarships">www.mccc.edu/m-scholarships</a> .
— —	<u>General Education elective</u>		3	
				• Select from ECO 111; GEO 101; PHI 102, 112, 113, 204, 205; POL 101, 102; PSY 101; SOC 101; SPA 101.
— —	<u>General Education elective</u>		3	
				• Select from ECO 111; GEO 101; PHI 102, 112, 113, 204, 205; POL 101, 102; PSY 101; SOC 101; SPA 101.
			<b>60</b>	

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