

Sustainability

Program **HORT.SUST.AS**
CIP 240101

Associate in Science Degree

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.

Curriculum

Code	Course (lecture/lab hours)	Credits
FIRST SEMESTER		
BIO 101	General Biology I (3/3)	4
ENG 101	English Composition I (3/0)	3
HIS 214	The United States Since 1945 (3/0)	3
SUS 101	Introduction to Sustainability (3/0)	3
SECOND SEMESTER		
BIO 102	General Biology II (3/3)	4
CMN 111	Speech: Human Communication (3/0)	3
	OR	
CMN 112	Public Speaking (3/0)	3
ENG 102	English Composition II (3/0)	3
ENG 204	World Literature II (3/0)	3
MAT 151	Calculus I (4/0)	4
THIRD SEMESTER		
CHE 101	General Chemistry I (3/3)	4
PHY 101	College Physics I (3/3)	4
	OR	
PHY 115	University Physics I (3/3)	4
MAT 201	Probability and Statistics for Science and Engineering (4/0)	4
— —	Technical elective ¹	4
FOURTH SEMESTER		
CHE 102	General Chemistry II (3/3)	4
HPE 110	Concepts of Health and Fitness (1/2)†	2
— —	Technical elective ¹	4
— —	Humanities general education elective ²	3
— —	Social Science general education elective ³	3
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NOTE: Electives should be selected in consultation with an academic advisor in order to ensure maximum transfer of credits.

¹ Select from BIO 204, OHT 108, PHY 215.

² Select from PHI 102, 204.

³ Select from ECO 111, 112; GEO 101; PSY 101; SOC 101.

†CSW 100 is a preferred alternative; HPE 111 is an acceptable alternative.

NOTE: All program listings are subject to periodic updates. Please consult your program advisor, academic division, or www.mccc.edu/programs_degree

