

ENVIRONMENTAL SCIENCE CONCENTRATION

Program Description

The **Associate in Science (A.S.) in Science – Environmental Science Concentration** is designed for students who plan to transfer to a four-year institution to pursue a bachelor's degree in environmental science, environmental studies, ecology, sustainability, or a related field.

This track provides a strong foundation in biology, chemistry, environmental systems, and mathematics, along with laboratory and field-based scientific investigation. Students explore the relationships between natural systems and human activity while developing analytical, quantitative, and problem-solving skills. Coursework emphasizes scientific inquiry, environmental stewardship, and the application of data to real-world environmental challenges.

Because mathematics preparation varies by student, multiple course sequences are available. Students should review the additional tabs and select the appropriate pathway based on their starting level in mathematics. Beginning in the appropriate math course is essential to staying on track for graduation and transfer.

Transfer Information

The Environmental Science Concentration is structured to align with bachelor's degree programs in environmental science and related disciplines such as sustainability, environmental policy, conservation biology, and natural resource management. Students are encouraged to work closely with OCC faculty and Advising & Transfer Services to ensure their coursework aligns with the requirements of their intended transfer institution.

Students planning to transfer within New Jersey should explore the "Transfer Programs" feature on NJ Transfer (www.njtransfer.org (<http://www.njtransfer.org>)) to review articulation agreements and degree requirements.

Because environmental programs may vary in their science and mathematics requirements, early planning is strongly recommended.

Career Information

The A.S. in Science – Environmental Science Concentration is designed primarily for transfer. A bachelor's degree (and sometimes graduate study) is typically required for professional roles in environmental science and related fields.

After completing a four-year degree, graduates may pursue careers such as:

- Environmental scientist
- Sustainability coordinator
- Environmental consultant
- Conservation specialist

- Environmental policy analyst
- Natural resource manager

Students interested in careers focused on environmental protection, climate science, sustainability, or conservation are encouraged to consult with OCC faculty and Career Services as they begin exploring long-term academic and career goals. OCC students may also use Focus2 Career through Ocean Connect to research degree pathways and related professions.

Fall One		Credit Hours
STSC 150	Student Success Seminar	2
ENGL 151	English I	3
MATH 166	Topics in Algebra	4
ENVI 152 & 152L	Environmental Science Lecture and Environmental Science Lab	4
PSYC 172	General Psychology	3
Credit Hours		16

Spring One		Credit Hours
ENGL 152	English II	3
MATH 196	Precalculus	4
CSIT 123	Integrated Office Software	3
BIOL 161 & 161L	General Biology I Lecture and General Biology I Lab	4
Credit Hours		14

Fall Two		Credit Hours
MATH 265	Calculus I	4
BIOL 162 & 162L	General Biology II Lecture and General Biology II Lab	4
BIOL 261 & 261L	Ecology Lecture and Ecology Lab	4
CHEM 181 & 181L	General Chemistry I Lecture and General Chemistry I Lab	4
Credit Hours		16

Spring Two		Credit Hours
ENVI 241	Environmental Sustainability	3
BIOL 163 & 163L	Introductory Botany Lecture and Introductory Botany Lab	4
CHEM 182 & 182L	General Chemistry II Lecture and General Chemistry II Lab	4
SOCI 181	Introduction to Sociology	3
HIST 171	Western Civilization to 1650	3
Credit Hours		17

Total Credit Hours 63

Fall One		Credit Hours
ENGL 151	English I	3
STSC 150	Student Success Seminar	2
MATH 196	Precalculus	4
ENVI 152 & 152L	Environmental Science Lecture and Environmental Science Lab	4
PSYC 172	General Psychology	3
Credit Hours		16

Spring One		Credit Hours
ENGL 152	English II	3
MATH 265	Calculus I	4
CSIT 123	Integrated Office Software	3
BIOL 161 & 161L	General Biology I Lecture and General Biology I Lab	4
Credit Hours		14

Fall Two		Credit Hours
MATH 156	Introduction to Statistics	3
BIOL 162 & 162L	General Biology II Lecture and General Biology II Lab	4

BIOL 261 & 261L	Ecology Lecture and Ecology Lab	4
CHEM 181 & 181L	General Chemistry I Lecture and General Chemistry I Lab	4

Credit Hours 15

Spring Two

ENVI 241	Environmental Sustainability	3
BIOL 163 & 163L	Introductory Botany Lecture and Introductory Botany Lab	4
CHEM 182 & 182L	General Chemistry II Lecture and General Chemistry II Lab	4
SOCI 181	Introduction to Sociology	3
HIST 171	Western Civilization to 1650	3

Credit Hours 17

Total Credit Hours 62

Fall One **Credit Hours**

ENGL 151	English I	3
STSC 150	Student Success Seminar	2
MATH 265	Calculus I	4
PSYC 172	General Psychology	3
ENVI 152 & 152L	Environmental Science Lecture and Environmental Science Lab	4

Credit Hours 16

Spring One

ENGL 152	English II	3
CSIT 123	Integrated Office Software	3
BIOL 161 & 161L	General Biology I Lecture and General Biology I Lab	4
Electives to meet 60 credits		3

Credit Hours 13

Fall Two

MATH 156	Introduction to Statistics	3
BIOL 162 & 162L	General Biology II Lecture and General Biology II Lab	4
BIOL 261 & 261L	Ecology Lecture and Ecology Lab	4
CHEM 181 & 181L	General Chemistry I Lecture and General Chemistry I Lab	4

Credit Hours 15

Spring Two

ENVI 241	Environmental Sustainability	3
BIOL 163 & 163L	Introductory Botany Lecture and Introductory Botany Lab	4
CHEM 182 & 182L	General Chemistry II Lecture and General Chemistry II Lab	4
SOCI 181	Introduction to Sociology	3
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Total Credit Hours 61