ENVIRONMENTAL TECHNOLOGY, ASSOCIATE IN APPLIED SCIENCE

College(s): WR
Program Code: 0160

The Associate in Applied Science degree program for Environmental Technology prepares students with the skills and knowledge needed to participate in environmental careers including environmental compliance in public and private sector organizations, pollution prevention, environmental remediation, workplace health and safety, and emergency response preparedness. You will learn to develop procedures for proper hazardous materials handling techniques and design training programs used to implement existing and future regulatory requirements to ensure compliance. Upon graduation, you will be prepared to work in the health and safety field in such positions as compliance officer, environmental safety specialist, laboratory technician, hazardous materials emergency response technician, and environmental coordinator.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGLISH 101</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>SPEECH 101</td>
<td>Fundamentals of Speech Communication</td>
<td>3</td>
</tr>
<tr>
<td>CHEM 121</td>
<td>Basic Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>CIS 120</td>
<td>Introduction to Computer Applications</td>
<td>3</td>
</tr>
<tr>
<td>Fine Arts &amp; Humanities course ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Social and Behavioral Sciences course ¹</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>BIOLOGY 115</td>
<td>Human Biology</td>
<td>4</td>
</tr>
<tr>
<td>BIOLOGY 119</td>
<td>Environmental Biology</td>
<td>4</td>
</tr>
<tr>
<td>ENGLISH 102</td>
<td>Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENVR TC 131</td>
<td>Environmental Health &amp; Safety</td>
<td>3</td>
</tr>
<tr>
<td>ENVR TC 141</td>
<td>Site Investigation &amp; Sampling</td>
<td>3</td>
</tr>
<tr>
<td>ENVR TC 151</td>
<td>Intro to Environmental Laws &amp; Policies</td>
<td>3</td>
</tr>
<tr>
<td>ENVR TC 175</td>
<td>Hazardous Material Handling &amp; Transportation</td>
<td>3</td>
</tr>
<tr>
<td>ENVR TC 211</td>
<td>Recycling &amp; Waste Minimizing</td>
<td>3</td>
</tr>
<tr>
<td>ENVR TC 241</td>
<td>Environmental Sampling</td>
<td>4</td>
</tr>
<tr>
<td>ENVR TC 243</td>
<td>Environmental Analysis</td>
<td>4</td>
</tr>
<tr>
<td>MATH 118</td>
<td>General Education Math (or higher)</td>
<td>4</td>
</tr>
</tbody>
</table>

Program Electives

Students should meet with a College Advisor for selection of elective courses.

Total Hours: 68

¹ One of the courses must fulfill the Human Diversity requirement.

Pathway

This is an example course sequence for students interested in environmental technology. It does not represent a contract, nor does it guarantee course availability. If this pathway is followed as outlined, you will earn a Basic Certificate (BC) and an Associate in Applied Science (AAS) degree in Environmental Technology. One course will satisfy the Human Diversity (HD) requirement, and is labeled with an (HD) in the sequence below.

Semester-by-Semester Program Plan for Full-Time Students

All plans can be modified to fit the needs of part-time students by adding more semesters.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Semester 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>ENGLISH 101</td>
<td>Composition ¹</td>
<td>3</td>
</tr>
</tbody>
</table>
CHEM 121  Basic Chemistry 1  4
MATH 118  General Education Math (or higher)  4
CIS 120  Introduction to Computer Applications 1  3
ENVR TC 121  Intro To Hazardous Materials Management  3

Hours  17

Semester 2
SPEECH 101  Fundamentals of Speech Communication  3
BIOLOGY 115  Human Biology  4
ENVR TC 131  Environmental Health & Safety  3
ENVR TC 141  Site Investigation & Sampling  3
100-Level Program Elective (https://catalog.ccc.edu/courses-az/envr_tc/) 2  4

Hours  17

Semester 3
ENGLISH 102 or ENGLISH 107  Composition 1  3
or ENGLISH 107  or Report Writing
BIOLOGY 119  Environmental Biology  4
ENVR TC 151  Intro to Environmental Laws & Policies  3
ENVR TC 211  Recycling & Waste Minimizing  3
200-Level Program Elective (https://catalog.ccc.edu/courses-az/envr_tc/) 2  4

Hours  17

Semester 4
Social and Behavioral Sciences course 1  3
Fine Arts & Humanities course (HD) 1  3
ENVR TC 175  Hazardous Material Handling & Transportation  3
ENVR TC 241  Environmental Sampling  4
ENVR TC 243  Environmental Analysis  4

Hours  17

Total Hours  68

1

General Education Requirement

2

Students should meet with a College Advisor for selection of elective courses.

Choose your courses with your College Advisor.

Careers
This program can prepare students for the jobs listed below. Click on each one to learn more, including average earnings, annual job openings, and how much education people in that field have. For additional guidance and resources on career options, current City Colleges students and alumni can contact the Career Services Office (https://www.ccc.edu/departments/Pages/Career-Services.aspx).

Environmental Engineering Technologists and Technicians
Job Description
Apply theory and principles of environmental engineering to modify, test, and operate equipment and devices used in the prevention, control, and remediation of environmental problems, including waste treatment and site remediation, under the direction of engineering staff or scientists. May assist in the development of environmental remediation devices.

Salary Based on Experience Level
Take a look at the average hourly/annual earnings for this career in Cook County

Emsi earnings figures are based on OES data from the BLS and include base rate, cost of living allowances, guaranteed pay, hazardous-duty pay, incentive pay (including commissions and bonuses), on-call pay, and tips.

Annual Wages
Entry-Level 10th Percentile  $25,942
Median 50th Percentile  $46,110
Senior-Level 90th Percentile  $91,375

Hourly Wages
Entry-Level 10th Percentile  $12
Median 50th Percentile  $22
Senior-Level 90th Percentile  $44

Annual Job Openings
21 annual openings in Cook County

National Education Attainment
Here, you can see the level of education that people in this career complete.

Degree Program  % of Jobs
A high school diploma or less  10.79%
A certificate  8.19%
Some college  6.64%
An Associate degree  1.46%
A Bachelor's degree  72.05%
A Master's or Professional degree  0.88%
A Doctoral degree or more  0.00%

72.93% continue their education beyond an associate degree