

Energy Utility Technology Program

Division of Engineering Technologies and Computer Sciences

Curriculum Code: 2308

Will Earn Upon Program Completion: Associate in Applied Science (A.A.S.) Degree

Why major in Energy Utility Technology?

Public Service Electric & Gas (PSE&G) has teamed up with Essex County College to offer an exciting new Associate Degree that can help you get started on a career in one of New Jersey's most stable and essential industries and one of the state's oldest and most well-respected corporate partners, PSE&G. Through a unique blend of coursework, specialized training, and hands-on work experience, you will acquire the knowledge and skill needed to be a technician in the energy utility industry.

If I major in Energy Utility Technology, can I transfer to an upper-division college or university?

The major is job-oriented and designed for entrance to industry. However, you can transfer to Thomas Edison State College and earn a B.S. in Energy Utility Technology.

Are there any requirements I must satisfy before I start taking courses in my major?

All new students must take a basic skills competency test. Based on the results of the test, you may be required to take developmental courses in English and mathematics.

How long will it take for me to complete this degree?

If you do not need developmental coursework and you attend full time, you can complete the degree in two years. Part-time students who work full time can complete the program in three or four years.

Where should I direct specific questions about this program?

Contact the Division at (973) 877-4400.

Upon completion of this program, graduates will be able to:

- ◆ Demonstrate an understanding of the energy industry, including the history of providing reliable service and regulatory influences;
- ◆ Read schematic electronics diagrams for purposes of testing and development;
- ◆ Diagnose combustion problems as they relate to the energy utility industry;
- ◆ Use basic electronics test and measurement instruments including multimeters and oscilloscopes to troubleshoot electronics devices;
- ◆ Perform piping on residential appliances and gas leak investigation;
- ◆ Install and test meters and demonstrate an understanding of electric utility distribution.

Energy Utility Technology — A.A.S. Degree Program

<p>GENERAL EDUCATION REQUIREMENTS: (23 credits)</p> <p>Communications (6 credits) ENG 101 College Composition I 3 ENG 102 College Composition II or ENG 105 Technical Writing 3</p> <p>Social Science (6 credits) Select two courses from: ANT 101, 105; ECO 101, 102; POL 101, 104; PSY 101, 102 219; SOC 101, 108, 219 6</p> <p>Lab Science/Math (8 credits) MTH 100 Introductory College Mathematics 4 MTH 113 College Algebra with Trig. 4</p> <p>Humanities (3 credits) Select one History course from: HST 101, 102, 111, 112, 121, 122, 131, 132, 134-137, 161, 162 3</p> <p>MAJOR COURSE REQUIREMENTS: (25-31 credits)</p> <p>UTI 101 Intro. to the Energy Utility Ind. 3 UTI 102 Fund. of Gas Combustion 3 UTI 103 Fund. of Power Alternating Current 3 UTI 201 Energy Utility Co-op I 4 UTI 202 Energy Utility Co-op II 4 Energy Utility Elective¹ 4-7 Energy Utility Elective¹ 4-7</p> <p>ADDITIONAL COURSE REQUIREMENTS: (15 credits)</p> <p>ELC 115 Electric Circuits: DC & AC 4 BUS 207 Leadership and Supervision in Organizations 3 Laboratory Science course² 4 Laboratory Science course² 4</p> <p>Total Credits Required for Degree 63-69</p>	<p>RECOMMENDED SEQUENCE OF COURSES:*</p> <p><u>First Semester</u></p> <p>ENG 101 College Composition I 3 MTH 100 Introductory College Mathematics 4 UTI 101 Intro. to the Energy Utility Ind. 3 UTI 102 Fund. of Gas Combustion 3</p> <p><u>Second Semester</u></p> <p>ENG 102 College Composition II or ENG 105 Technical Writing 3 ELC 115 Electric Circuits: DC & AC 4 MTH 113 College Algebra with Trig. Social Science requirement 4 3</p> <p><u>Summer</u></p> <p>UTI 201 Energy Utility Co-op I 4 Energy Utility Elective¹ 4-7</p> <p><u>Third Semester</u></p> <p>UTI 103 Fund. of Power Alternating Current 3 Laboratory Science requirement 4 Social Science requirement 3 Humanities requirement 3</p> <p><u>Fourth Semester</u></p> <p>Laboratory Science requirement 4 BUS 207 Leadership and Supervision in Organizations 3</p> <p><u>Summer</u></p> <p>UTI 202 Energy Utility Co-op II 4 Energy Utility Elective¹ 4-7</p>
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***NOTE:** This plan assumes the completion of all required developmental courses in reading, writing, and mathematics as well as other pre- and co-requisites for some of the courses, as listed in the Course Descriptions section.

¹ Select, in consultation with an academic advisor, from UTI 104 through UTI 110.