



WENTWORTH

Institute of Technology

College of Professional and Continuing Education

evening / weekend / online

550 Huntington Avenue | Boston, MA 02115

617-989-4300 | wit.edu/continuinged

Associate in Applied Science Degree Engineering Technology

Wentworth Institute of Technology and The Sheet Metal Workers-Local 17

Through this degree program, you will earn an Associate of Applied Science in Engineering Technology. Graduates of the CORE Apprenticeship Training will earn 26 credits towards this degree program. The balance of 34 credits of general elective and technical courses will be offered over a 2-year period. Graduates may continue their education at Wentworth upon the completion of this Associate Degree. Possible programs of study include a Bachelor in Engineering Technology, or Bachelor in Project Management.

Program Requirements: Graduates of CORE Apprenticeship Training will earn **26 credits** for the following courses:

- Applied Math (1 credit)
- Environmental Health & Safety (1 credit)
- Basic Electricity (1 credit)
- Blue Print Reading & Building Codes (3 credits)
- HVAC Installation Techniques (1 credit)
- HVAC Fundamentals (2 credits)
- Heat Loads & Psychrometrics (2 credits)
- Sheet Metal Layout (3 credits)
- Sheet Metal Fabrication (4 credits)
- Technical Drawing (4 credits)
- Field Experience (4 credits)

Application Requirements:

- Online application
- Official high school or GED transcript
- Official transcript(s) from any college(s) you have attended
- Copy of Union Membership card
- Copy of Certificate of Completion of Apprenticeship Training
- Online math placement test, if applicable

Curriculum Requirements:

Semester One

English Composition
Math A

Semester Three

Math C
Humanities/Social Science

Semester Five

Physics B
Technical Elective

Semester Two

Math B
Literature and Composition

Semester Four

Technical Elective
Physics A

Degree Total: 60 credits (26 transfer)

Note: Wentworth Institute of Technology is accredited by the New England Association of Schools and Colleges, INC. (NEASC)

Curriculum Requirements:

ENGL English Composition (3 credits):

A short review of English basics is provided. Emphasis is on writing coherent paragraphs and short essays, basic rhetorical strategies and techniques of rewriting and editing. **Prerequisite: 4 units of high school English.**

MATH Math A (3 credits):

Topics in college algebra and trigonometry including the trigonometric functions, inverse trigonometric functions, trigonometric identities, trigonometric equations, and applications.

MATH Math B (3 credits):

Topics in college algebra including functions and their graphs, composite and inverse functions, applied functions and variation, quadratic functions, exponential functions, logarithmic functions, systems of equations, and applications. **Prerequisite: College Math A.**

ENGL Literature and Composition (3 credits):

This course introduces students to the study of literature and literary themes in the genres of short story, poetry, drama, and novel. While the emphasis is on critical reading and thinking, the course also encourages the continued development of effective writing skills through frequent writing assignments. **Prerequisite: English Composition.**

MATH Math C (3 credits):

Topics in college algebra and trigonometry including the trigonometric functions, inverse trigonometric functions, trigonometric identities, trigonometric equations, and applications. **Prerequisite: College Math B.**

PHYS Physics A (4 credits):

General introduction to mechanics, including Newton's Laws, equilibrium, work, energy, and momentum. The laboratory work will support the concepts studied in class.

PHYS Physics B (4 credits):

Physical properties of solids and fluids, heat, sound, light, electric and magnetic forces. **Prerequisites: Pre-calculus and Physics A**