

ARCHITECTURE ENGINEERING HVAC SYSTEMS DESIGN (AEHV1-CE)

AEHV1-CE 9517 HVAC Systems Design I (4 Credits)

Explore the fundamentals of HVAC design. Topics include heating and cooling systems; load calculations, including building envelopes, U-values, internal and external heat gains, and ventilation criteria; psychrometrics; air handling systems and their components, selection criteria, and classification; duct system design, including pressure loss calculation; fan classification and selection; and relevant laws.

Note: Registering at least two weeks prior to the start of the course date is highly recommended. Popular classes fill up quickly and more specialized classes need sufficient enrollment.

For general information about this course, please call 212-992-3336 or email sps.realestate@nyu.edu. If you are registered for an online course and are not able to access/view your course in Brightspace, please note the following: It may take at least 24 hours from the time you registered for your information to be transferred into Brightspace.

New students registering two days or LESS before the start date of the course may experience delayed access.

For additional technical support, contact the [IT Service Desk](http://www.nyu.edu/its/askits/helpdesk) (available 24/7/365) at 212-998-3333 or AskITS@nyu.edu.

Grading: SPS Non-Credit Graded

Repeatable for additional credit: Yes

AEHV1-CE 9518 HVAC Systems Design II (4 Credits)

This course focuses on the types of building systems, including constant and variable volume; vapor compression refrigeration cycle; centrifugal and absorption chillers; heat rejection options, including cooling towers, air-cooled condensers, and river water; pipe sizing for hydronic and steam systems; centrifugal pumps, including selection criteria and pump laws; and boilers and heat pumps.

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Repeatable for additional credit: Yes

AEHV1-CE 9519 HVAC Systems Design III (4 Credits)

Examine methods for comparing various HVAC systems and their components. Topics for comparison include energy performance, life expectancy, flexibility, maintenance, quality of control, and total life-cycle costs.

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Grading: SPS Non-Credit Graded

Repeatable for additional credit: Yes

AEHV1-CE 9520 HVAC Systems Design IV (4 Credits)

Study the relationships between architect, developer, building owner, and consulting engineers, as well as the coordination between departments within a consulting office. Examine the various code requirements for HVAC systems (NFPA, BOCA, New York State, and New York City).

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Repeatable for additional credit: Yes