

# ARCHITECTURE ENGINEERING PLUMBING SYSTEMS DESIGN (AEPL1-CE)

## AEPL1-CE 9500 Plumbing Systems Design I (3 Credits)

Learn the fundamentals of pressurized water distribution, sanitary, and storm systems for commercial and residential low-rise buildings. Topics include a general overview of fluids, construction design, plumbing code, pressure flow equations, friction, mechanical pumping, cold and hot water distribution, water heater selection, backflow prevention, and application and system selection.

**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](mailto: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](mailto:AskITS@nyu.edu).

**Grading:** SPS Non-Credit Graded

**Repeatable for additional credit:** Yes

## AEPL1-CE 9501 Plumbing Systems Design II (3 Credits)

Gain an understanding of the advanced principles of plumbing system design. This course covers plumbing system design for high-rise buildings, including specifications, riser diagrams, and natural gas systems. Additionally, it focuses on ejectors, sump pumps, and trap design. Topics include water filtration systems, acid neutralization systems, vacuum systems, and an introduction to medical gas systems and storm water control flow systems.

**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.

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**Grading:** SPS Non-Credit Graded

**Repeatable for additional credit:** Yes

## AEPL1-CE 9502 Plumbing Systems Design III (3 Credits)

This is the third course in the Plumbing Systems Design series. Learn about advanced building drainage and specialty systems. Topics include sustainable infrastructure for water use, rainwater harvesting, treated sewage systems, solar-thermal design, building information modeling (BIM), various design methodologies, life-cycle costing, and systems integration.

**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.

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**Grading:** SPS Non-Credit Graded

**Repeatable for additional credit:** Yes

**AEPL1-CE 9503 Plumbing Systems Design IV (3 Credits)**

This course will review the operation, selection, and design of fire protection systems. You will gain an understanding of fire protection design basics. Sprinklers (wet, dry, pre-action, deluge), standpipes (manual/automatic, wet/dry), fire pumps, and gaseous and chemical suppression systems will be covered. Also, basic fire alarm systems will be discussed with the electrical or fire alarm designer. This mixed-concept course will present the way systems work with design as well as the application of systems, using commonly seen real-world building examples. A review of the following codes also will be conducted in class: IBC, IFB, NFPA-11, 12, 13-13D-13R, 14, 15, 16, 17, 17A, 20, 750, 2001, 2010.

*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.

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**Grading:** SPS Non-Credit Graded

**Repeatable for additional credit:** Yes