

DIGITAL CITIES

Learning + Collaborating Across Disciplines

NEET Digital Cities

Do you want to learn how to plan and build the cities of the future by exploring the emerging intersections of computer science and urban planning?

In the New Engineering Education Transformation (NEET) Digital Cities (DC) thread, you will develop fundamental skills in urban planning and policy including:

**Ethics, Justice, +
Engagement**

**Statistics +
Data Science**

**Geospatial Analysis
+ Visualization**

**Computational
Thinking, Simulation,
+ User Experience**

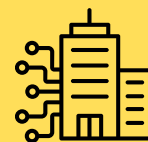
NEET is a three-year, experiential learning certificate program (sophomore through senior year) that you complete along with your major in the usual four years. All NEET scholars gain exclusive access to the NEET Scholars Collaboration Space (3-001) and other unique opportunities and benefits.



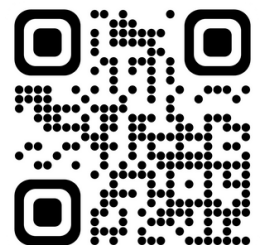
Dr. Cong Cong

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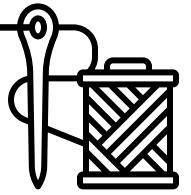
DC Lead Instructor, Lecturer
NEET, MIT School of Architecture +
Planning



LEARN MORE



DC Thread Requirements



Complete all requirements below (in any sequence) to receive your certificate.

Foundational Subjects

- 11.001 | Introduction to Urban Design and Development (12 units, HASS-H)
- 6.100A/6.100B | Introduction to Programming (12 units, REST)

Project-Based Subjects

- 11.007 | Urban and Environmental Technology Implementation Lab (12 units)
- 11.154 | Big Data, Visualization, and Society (12 units, HASS-S)
- 11.138 | Crowdsourced City: Civic Tech Prototyping (12 units, HASS-S)

Seminars

- 11.251 | Frontier of Transportation Research (3 units; J. Zhao)

Suggested Electives

- 11.188 | Introduction to Spatial Analysis and GIS Lab (12 units; E. Huntley)
- 6.1010 | Fundamentals of Programming (12 units)
- 11.118 | Applied Data Science for Cities (6 units; C. Cong)
- 11.902 | Independent Study: Urban Studies and Planning (P/D/F)

Professor David Hsu

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DC Founding Faculty Lead, Associate Director
MIT School of Architecture + Planning

