Briefing

on

New England Institute of Technology

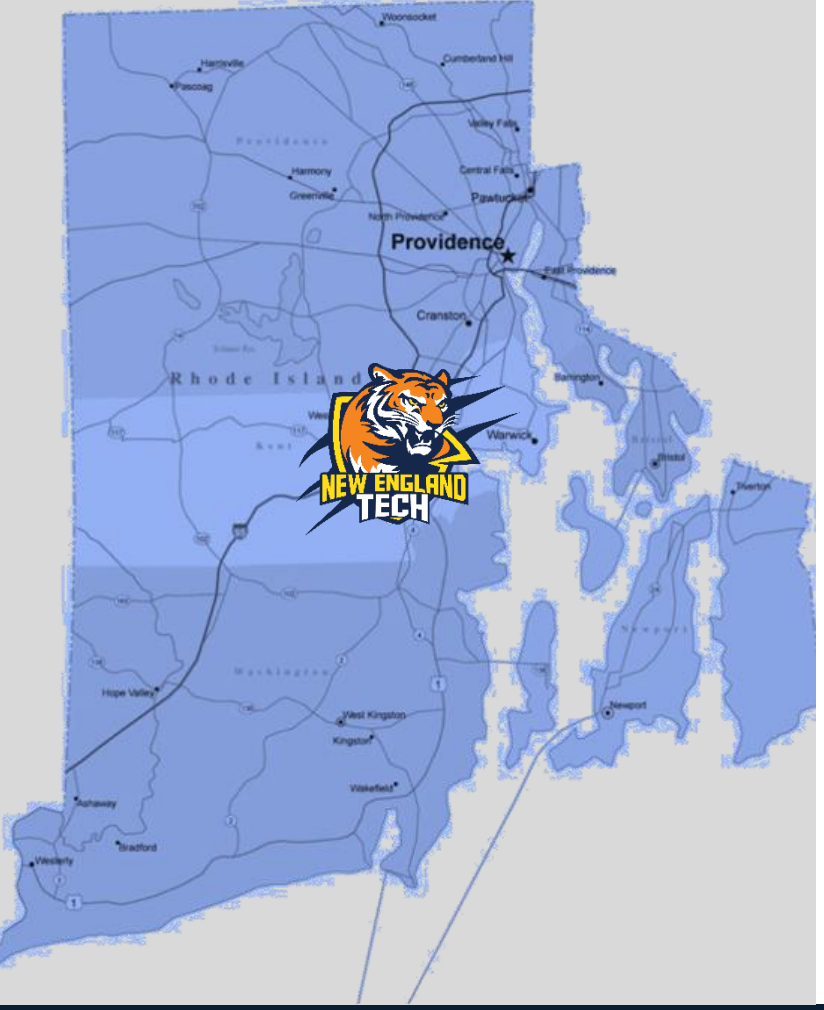
Programs Relevant to the Planning Profession

To

Special Legislative Commission (Planning H.E. Pipeline)

December 17, 2024

NEW ENGLAND TECH



Fast Facts

- Private, Non-Profit University
- New England Commission of Higher Education
- Hands-On, Experiential Learning Model
- Accelerated Degree Completion Tracks

Certificate	Associate	Bachelor's	Master's	Doctorate
12 months	18 months	18 months		

+2,000	12:1	96%	+50%	400
STUDENTS	FACULTY TO STUDENT RATIO	GRADS EMPLOYED IN-FIELD	CREDIT HOURS SPENT IN LAB	ON-CAMPUS RESIDENTIAL STUDENTS

ACADEMIC DEGREE PROGRAMS

Architecture, Interior Design & Construction Management

- Architectural & Building Engineering Technology, AS & BS
- Interior Design, AS & BS
- Construction Management, BS & MS

Automotive & Marine Technology (AS)

- Advanced Automotive Technology with Fabrication & Refinishing
- Automotive Collision Repair Technology
- Automotive Technology
- Automotive Technology with High Performance
- Marine Technology

Business Management (AS & BS)

Criminal Justice (AS & BS)

Cybersecurity & Information Technology

- Cybersecurity and Network Engineering Technology, AS & BS
- Cybersecurity Defense, MS
- Software Engineering & Web Development, AS
- Software Engineering, BS
- Information Technology, MS

Digital Media & Web Design

- Digital Media Production, AS & BS
- Graphics, Multimedia and Web Design, AS & BS

Engineering Technology

- Civil Engineering Technology, AS & BS
- Electronics, Robotics & Drones Technology, AS
- Mechanical Engineering Technology, AS & BS
- Electrical Engineering Technology, BS
- Engineering Management, MS

Professional Building Trades (AS)

- Building Construction Technology
- Electrical Technology
- Facilities Management
- Plumbing and Heating Technology
- Refrigeration-Air Conditioning-Heating Technology
- Welding Engineering Technology

Video Game Development & Design

- Video Game Design, AS & BS
- Game Development & Simulation Programming, BS

Purpose of the Commission:

To review the ability of Rhode Island's educational system to provide cities and towns with a pipeline of qualified planners, planning technicians, and staff.

Planning Technician

Career Center

Job Seekers

Employers

Post a Job

Posting Rates and Tips

Employer Dashboard

Advance Your Career

Choosing the Planning Profession

Mentoring at APA

Consultants / RFP-RFQ

Planning Technician Job Description

The position of Planning Technician, which may also be called GIS Technician/Analyst, Code Enforcement Technician, Zoning Technician, or other specialized technician, is entry-level paraprofessional work. The Planning Technician devotes a significant amount of time on routine administrative tasks. A Planning Technician often works closely with the public on a regular basis to provide customer service on planning issues. Successful Planning Technicians may be asked to perform professional-level (Planner I) duties of limited complexity as a trainee.

TYPICAL FUNCTIONS

- Provides technical assistance and information to staff and the public in the administration of specific planning-related programs and ordinances
- Reviews building plans and zoning permit applications to assure compliance with

American Planning Association

Creating Great Communities for All

Planning Technician

TYPICAL SKILLS

- Oral communication and interpersonal skills to explain rules and procedures clearly to the public
- Problem-solving skills to gather relevant information to solve practical problems and address citizen inquiries and concerns
- Ability to review plans and apply provisions of the ordinances and codes to determine compliance with such regulations and to apply regulations to field conditions
- Ability to work on several projects or issues simultaneously
- Ability to work independently or in a team environment as needed

MINIMUM QUALIFICATIONS

The Planning Technician level generally requires, at a minimum, the completion of an associate's degree in urban planning, architecture, construction management, social sciences or related field. Two years of experience in plans review, zoning administration, building code issuance of surveying is also required. A bachelor's degree is preferred and may substitute for two years of experience.

New England Institute of Technology Architectural & Building Engineering Curriculum

Term I

Course No.		Course Title
ABT	111	Introduction to Building Science
ABT	112	Technical Drafting and Graphic Communications
ABT	114	Introduction to Computer-Aided Drafting (CAD)
ABT	115	Introduction to Structures
		CHOOSE ONE *(depending upon Math placement)*
MA	*105*	*Basic College Math with Lab (MA/SCI Core)*
MA	*110*	*Introduction to College Math (MA/SCI Core)*
ELECTIVE		*100-200 Level Math/Science, Humanities, Social Sciences, or Arts/Foreign Language Core*

Term II

Course No.		Course Title
ABT	122	Two- and Three-Dimensional Design Theory
ABT	124	Construction Methods & Materials
ABT	125	Building Design & Technology I
MA	*125*	*Technical Math I (MA/SCI Core)*
EN	*100*	*Introduction to College Writing (COM Core)*

Term III

Course No.		Course Title
ABT	135	Building Design & Technology II
ABT	137	Introduction to Environmental Systems
ABT	138	Surveying & Civil Technology
MA	*210*	*Technical Math II (MA/SCI Core)*
EN	*200*	*Workplace Communications (COM Core)*

Term IV

Course No.		Course Title
ABT	126	Presentation Techniques
ABT	218	Building Information Modeling I (BIM I)
ABT	236	Building Codes
ID	212	Programming
SS	*263*	*Architectural History (SS Core)*

Term V

Course No.		Course Title
ABT	221	Visualization Studies I
ABT	223	Structures I
ABT	225	Building Design & Technology III
ELECTIVE		*100-200 Level Humanities (or Arts/Foreign Language) Core*

Term VI

Course No.		Course Title
ABT	127	Introduction to Construction Estimating
ABT	232	Structures II
PHY	*200*	*Physics I & Lab (MA/SCI Core)*
		CHOOSE (depending on BS degree choice)
ABT	235	Building Design & Technology IV (for ABT-BS)
		Or both below
ENG	263	Commercial Utilization of Drones/UAVs (for CMT-BS)
CET	231	Surveying II (for CMT-BS)

New England Institute of Technology Curriculum

Term VII

Course No.		Course Title
ABT	314	Construction Contracts & Specifications
ABT	315	Structural Wood Design
ABT	324	Masonry Construction & Detailing
PHY	*300*	*Physics II & Lab (MA/SCI Core)*
ELECTIVE		*300-400 Level Humanities or 200 Level Foreign Language Core*

Term VIII

Course No.		Course Title
ABT	325	Soil Mechanics & Foundation Design
ABT	328	Structural Steel Design
ABT	337	Building Information Modeling II (BIM II)
EN	*322*	*Argumentative Research Writing (COM Core)*

Term IX

Course No.		Course Title
ABT	331	Advanced Environmental Systems
ABT	334	Site Engineering & Planning
ABT	338	Reinforced Concrete Design
ABT	340	Laser Scanning & Point Clouds
MA	*310*	*Calculus I (MA/SCI Core)*

Term X

Course No.		Course Title
ABT	410	Building Design & Technology V (Low Rise)
ABT	412	Sustainability in Construction
ABT	416	Portfolio Development
EN	*421*	*Technical Communications (COM Core)*

Term XI

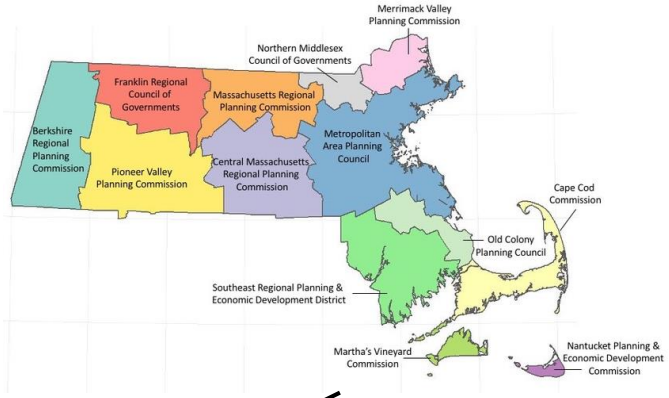
Course No.		Course Title
ABT	420	Building Design & Technology VI (High Rise)
ABT	421	Acoustics & Lighting
ABT	427	Senior Thesis Proposal & Research
ELECTIVE		*300-400 Level Humanities, Social Sciences, or 200 Level Foreign Language Core*

Term XII

Course No.		Course Title
ABT	430	Senior Thesis
ABT	433	Construction Law
MGM	340	Engineering Finance
ELECTIVE		*300-400 Level Social Sciences Core*

construction mgt

development



government

architecture

Where our grads go…

NEW ENGLAND TECH

Recommendations:

NEW ENGLAND TECH

- Cities and Towns establish **internships** with NEIT AS and BS degree students in architecture and construction management. Interns are often hired upon graduation.
- Create **articulation agreements between CCRI and NEIT** for students wishing to pursue a bachelor degree/career in architectural & building engineering or construction management.
- Develop **pathway from NEIT to URI grad certificate programs** in Planning.
- NEIT offers **industry training** in a variety of technologies utilized by municipal officials (i.e., CAD, BIM, Project Management, Scheduling, Estimating, OSHA). Upskill your current employees!