



**Program Description:**

The Energy Utility Technology Certificate is a nine-month program designed to prepare students for entry-level positions in the utility industry. The industry has forecast a strong need for new employees in the next several years for positions such as line workers, meter workers and substation maintenance personnel. The program includes courses that give students an introduction to the energy utility industry; knowledge of direct and alternating current circuits; generation, transmission and distribution of electricity; industrial safety; and computer applications. In addition, students will get hands-on experience at the National Grid training facilities in Millbury, Mass.

**Career and Transfer Outlook:**

Job opportunities nationwide include positions as maintenance and repair workers, electrical power line installers and repairers, first-line supervisors and managers, as well as overhead, underground and substation experts.

**Helpful Hints:**

Energy Utility Technology graduates can continue toward an associate degree and apply their credits from their certificate.

## ENERGY UTILITY TECHNOLOGY • Certificate

### BEDFORD CAMPUS - DAY

✓	COURSE #	COURSE TITLE	CREDITS	PREREQUISITES
_____	EUT 101	Introduction to the Energy Industry	3	ENG 060 or higher placement, completion or concurrent enrollment in ENG 071 or eligible for ENG 101
_____	EUT 111	Principles of Electricity I	4	Completion of or concurrent enrollment in TMA 095
_____	EUT 151	Industrial Safety	3	EUT 101 and EUT 111
_____	EUT 161	Principles of Electricity II	4	EUT 101, EUT 111 and TMA 095 with a grade of C or higher
_____	EUT 171	Electrical Power Generation, Transmission and Distribution	4	EUT 101, EUT 111 and TMA 095 with a grade of C or higher
_____	EUT 181	Energy Internship	3	Concurrent enrollment in or successful completion of EUT 151, EUT 161 and EUT 171
_____	CAP 101	Microcomputer Applications	3	ENG 060 or higher placement and either taking, having successfully completed or tested out of ENG 071 and MAT 070
_____	TMA 095	Applied Technical Mathematics I	<u>4</u> 28	MAT 070 or eligibility for MAT 080

**Admission Information**

Eligibility for MAT 080, Algebra II, a minimum reading score of 68, and concurrent enrollment in or completion of Basic Writing (ENG 071), or eligibility for ENG 101.

**Program Description:**

The Graphic Design Certificate program is for students who wish to acquire new skills or upgrade current graphic design experience. Students use state-of-the-art Macintosh equipment and software packages.

**Career and Transfer Outlook:**

Students completing this certificate are prepared for entry-level work in the design departments of companies, graphic design firms, advertising, print and multi-media design companies.

**Helpful Hints:**

Students who place into reading courses on the college placement test should complete that requirement without delay. Many Graphic Design Certificate graduates continue to take additional courses to complete the Graphic Design associate degree.

## GRAPHIC DESIGN • Certificate

### BEDFORD CAMPUS - DAY AND EVENING

✓	COURSE #	COURSE TITLE	CREDITS	PREREQUISITES
_____	ART 101	Art Appreciation	3	Eligible for ENG 101
_____	ART 113	Color and Design	3	
_____	ART 121	Drawing I	3	
_____	ART 151	Graphic Design I	3	
_____	ART 171	Graphic Design II	3	ART 151, ART 153 and successful completion of or concurrent enrollment in ART 161
_____	ART 153	Introduction to Computer Graphics	3	Basic Mac operating system knowledge
_____	ART 165	Graphic Production & Layout	3	ART 151, ART 153, ART 161, or *
_____	ART 161	Typography	3	ART 151, ART 153 or *
_____	ART 181	Graphic Design Portfolio Preparation	2	ART 151, ART 171, ART 165, ART 161, or *
_____	_____	Approved Elective	<u>3</u> 29	

\*Permission of instructor