ELECTRICAL CONSTRUCTION & MAINTENANCE

NORTHERN MAINE COMMUNITY COLLEGE

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HIGH DEMAND FIELD!

Questions?

Contact:
admissions@nmcc.edu

CAREER OPPORTUNITIES

Graduates of this program will find employment opportunities with:

- Electrical contractors
- Service shops
- Power companies
- Industrial maintenance operations
- Industry equipment suppliers

After necessary experience and licenses have been obtained, graduates may qualify for the following positions:

- Managers
- Supervisors
- Inspectors
- Operators of individual businesses

APPLICATION PROCEDURE

The following procedures constitute the admissions process:

1. Submit an NMCC application.
2. Submit official high school transcript and/or HiSET/GED scores (current senior's transcript should include completed ranking period grades).
3. Official college transcripts for applicants who have attended other post-secondary schools.
4. If SAT scores are not available, placement testing may be required.
5. Meet with an Admissions Counselor.
6. A campus tour is highly recommended.

PROGRAM PURPOSE

Electrical construction and maintenance is a two-year program that provides broad fundamental training in the principles used to install electrical equipment and the mathematics necessary to plan electrical systems. National electric code and theory are taught throughout the program.

The first year provides theory and practice in electrical and electronics basics. Studies include the use of diagnostic test equipment and troubleshooting techniques while performing hands-on laboratory exercises. Areas covered include: AC and DC circuits, semi-conductor devices, electronic circuits and digital electronics. The second year begins with an in-depth study of commercial and industrial wiring techniques and lighting design.

Hands-on exercises include conduit bending and installation and lighting and control system installation. Following a thorough study of rotating machinery and power systems analysis, industrial wiring and motor controls are studied. Hands-on exercises include the planning, wiring and testing of motor control circuitry.

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ELECTRICAL CONSTRUCTION & MAINTENANCE
Associate in Applied Science Degree Program

First Semester			C	L	CR
COL	103	College Success	1	0	1
> **ELE**	**112**	**Basic Residential Wiring**	**2**	**2**	**3**
> **ELS**	**115**	**Basic Electricity / Electronics**	**3**	**0**	**3**
> **ELS**	**116**	**Basic Electricity / Electronics Lab**	**0**	**6**	**2**
ENG	111	English Composition	3	0	3
MAT	121	Technical Mathematics	4	0	4
			13	8	16

Second Semester					
DIB	113	Introduction to Digital Systems	2	2	3
DRR	117	Blueprint Reading for Construction Trades	2	2	3
> **ELS**	**124**	**Industrial Electronics**	**2**	**3**	**3**
> **ELS**	**125**	**Motors & Controls**	**2**	**3**	**3**
		Social Science Elective	3	0	3
			11	10	15

Third Semester					
EET	221	Control Systems & PLCs	2	3	3
> **ELC**	**110**	**National Electric Code**	**3**	**0**	**3**
> **ELE**	**210**	**Electrical Construction & Maintenance I**	**3**	**0**	**3**
> **ELE**	**212**	**Electrical Construction & Maintenance I Lab**	**0**	**9**	**3**
PHY	150	Physics	3	2	4
			11	14	16

Fourth Semester					
COM	221	Technical Communications	3	0	3
> **ELC**	**116**	**National Electric Code for Industry**	**3**	**0**	**3**
> **ELE**	**222**	**Electric Construction & Maintenance II**	**3**	**0**	**3**
> **ELE**	**223**	**Electric Construction & Maintenance II Lab**	**0**	**9**	**3**
		Humanities Elective	3	0	3
			12	9	15

Total Required **62**

ELECTRICAL CONSTRUCTION & MAINTENANCE
Certificate Program

First Semester			C	L	CR
> **ELC**	**110**	**National Electric Code**	**3**	**0**	**3**
> **ELE**	**112**	**Basic Residential Wiring**	**2**	**2**	**3**
> **ELS**	**115**	**Basic Electricity / Electronics**	**3**	**0**	**3**
> **ELS**	**116**	**Basic Electricity / Electronics Lab**	**0**	**6**	**2**
MAT	121	Technical Mathematics	4	0	4
			12	8	15

Second Semester					
DRR	117	Blueprint Reading for Construction Trades	2	2	3
> **ELC**	**116**	**National Electric Code for Industry**	**3**	**0**	**3**
> **ELS**	**124**	**Industrial Electronics**	**2**	**3**	**3**
> **ELS**	**125**	**Motors & Controls**	**2**	**3**	**3**
ENG	111	English Composition	3	0	3
			12	8	15

Total Required **30**

> Major courses; a minimum grade of "C" or 2.0 is required

Key: C= Class Hours, CR= Credit Hours, L= Laboratory

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