



ELECTRICAL TRANSMISSION SYSTEMS TECHNOLOGY

Providing Continuing Education and Training for Dispatchers



There are many options within the Electrical Transmission Systems Technology program:

- Continuing education hours (CEHs) for North American Electric Reliability Corporation (NERC) certification
- Individual college courses for professional development
- Complete a Certificate or Associate of Applied Science Degree in ETST



Benefits to Enrolling:

- Become qualified in an industry with critical employment needs
- Online courses are flexible to fit varying work schedules
- Interactive industry approved online education
- Program available entirely online
- Courses begin every 3-5 weeks throughout the year



Enhance Your Company Training:

- Cost effective NERC CEHs
- Customized training plans for NERC CEH needs
- Leverage cutting edge learning tools
- Accelerate development from within
- Standardize across regional/national footprint
- Align to your tuition reimbursement program

NERC

NORTH AMERICAN ELECTRIC
RELIABILITY CORPORATION

Bismarck State College
(BSC_001) is recognized by the
North American Electric
Reliability Corporation as a
continuing education provider
that adheres to NERC CE
Program Criteria.



ELECTRICAL TRANSMISSION SYSTEMS TECHNOLOGY

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The Electric Transmission Systems Technology program teaches students about the electrical power system in North America, including basic electricity, generation, distribution and transmission, with a strong emphasis on system operations. Courses in this program are approved for North American Electric Reliability Corporation (NERC) continuing education hours (CEHs) combined with college credit.



CORE CLASSES

- ETST 240** Power Industry Concepts
- ENRT 106** DC Fundamentals (30 CEH)
- ENRT 108** AC Fundamentals (30 CEH)
- ETST 250** Electrical Generation Theory (32 CEH)

- ETST 254** System Elements I – Substations (31 CEH)
- ETST 256** System Elements II – Transformers (34 CEH)
- ETST 260** Electrical Diagram Interpretation (13 CEH)
- ETST 258** System Elements III - Protective Relaying (37 CEH)

- ETST 262** Power System Operations (30 CEH)
- ETST 266** Interconnected System Operations (35 CEH)
- ETST 268** Power Flow (30 CEH)
- ETST 270** System Operator Work Practices (32 CEH)

- ETST 272** Power System Safety (23 CEH)
- ETST 274** Communication & Control Technology (24 CEH)
- ETST 276** Power System Economics (36 CEH)
- ETST 278** Power System Emergency Concepts (32 CEH)
- ETST 280** Reliability Policies & Procedures (35 CEH)

Additional courses are available for CEH only

- Emergency Operations Section 1 (12 CEH)
- Emergency Operations Section 2 (12 CEH)
- Emergency Operations Section 3 (12 CEH)
- NERC Standards Section 1 (12 CEH)
- NERC Standards Section 2 (12 CEH)
- NERC Standards Section 3 (12 CEH)
- Power System Operations 1 (5 CEH)
- Power System Operations 2 (5 CEH)
- Basic Electrical Theory (7 CEH)
- Switchman Training (9 CEH)
- Power Control 1 (6 CEH)
- Power Control 2 (5 CEH)

For detailed hours including simulation hours and operator hours, visit bismarckstate.edu/energy/nerc

CEH hours listed current as of 10/2018

Discover additional programs at:
bismarckstate.edu/energy/programs/

- BAS in Energy Management
- Electric Power Technology
- Energy Services & Renewable Technician
- Instrumentation & Control Technology
- Lineworker (Electrical)
- Mechanical Maintenance Technology
- Nuclear Power Technology
- Petroleum Production Technology
- Power Generation Technology
- Process Technology
- Water & Wastewater Technology

Bismarck State College has been a leading provider of energy education for more than 45 years. With a dozen degree and certificate offerings in a variety of energy-related programs, the college prepares graduates with the skills and education they need for successful, life-long career opportunities in the industry.