Entec School of Engineering + TECHNOLOGY

Associate in Science ELECTRICAL POWER TECHNOLOGY [26854]

About the Program

The Electrical Power Technology (EPT) Program Associate in Science degree is offered by the Miami Dade College (MDC) School of Engineering + Technology at the Homestead Campus, in partnership with Florida Power & Light (FPL) / Next Era. This skilled-worker pipeline program was created to address the nationwide energy workforce shortage. The energy industry offers tremendous growth opportunities with high pay. As a highly skilled graduate of this program, you will be qualified to work in a power generation plant. Through this program, you will gain hands-on experience at our state-of-the-art training center. The program also offers the opportunity to apply for a paid summer internship at FPL / Next Era.

Pre-Requisites to Enter Program

- Contact Lindsey Mendelsohn to be placed on the Wait **List** to be considered for the program.
- Must be **College Ready** (Passed CPT/PERT exams, completed college prep for English, Reading and Math, or have acceptable SAT / ACT scores).
- Pass a mechanical aptitude test: MASS Test.
- Submit Transcripts from other colleges by April 15.
- Apply for Financial Aid by May 1 via: www.fafsa.ed.gov
- New Cohorts start every August in the Fall term.
- Full-time program only, in cohort setting.
- Once selected, all classes taken at MDC Homestead.



Students in class at MDC.



MDC student during internship at FPL.

Advantages of the Degree

- There is a high demand for skilled personnel in the energy industry.
- Entry level positions offer an excellent salary with good benefits.
- You will receive instruction from highly skilled and experienced faculty from MDC and FPL, as well as get hands-on experience.
- Your classes will be held in a cohort arrangement providing you with peer support.
- You will have an opportunity to apply for a paid summer internship with FPL / Next Era.
- Once you graduate, you have the opportunity to apply to FPL / Next Era. However, there is no guarantee of employment.

Average Starting Salaries

Position	Starting Salary
Mechanic	\$55,000
Electrician	\$55,000
Instrumentation & Control Tec	h. \$55,000

Visit our Web site: http://entec.mdc.edu

For more information contact: Lindsey Mendelsohn, (305) 237-5169, Imendels@mdc.edu Jeanie Canavan, (305) 237-5109, gcanavan@mdc.edu

Electrical Power Technology

Program Schedule

Associate in Science Electrical Power Technology (26054) Total credits required for the degree: 68

I. GENERAL EDUCATION REQUIREMENTS 15 credits required

Course	Course Title	Credits
1. COMMUNICAT ENC 1101	English Composition 1	3
2. ORAL COMMU SPC 1017	NICATIONS Fundamentals of Speech Communications	3
3. HUMANITIES PHI 2604	Critical Thinking/Ethics	3
4. BEHAVIORAL/ CLP 1006	SOCIAL SCIENCE Psychology of Personal Effectiveness	3
5. MATH/SCIENC MAC 1105	E College Algebra	3
II. COMPUTER COMPETENCY 4 credits required		

6. COMPUTER CO	DMPETENCY	
CGS 1060	Introduction to Microcomputers	4

III. MAJOR COURSE REQUIREMENTS

26 credits required

7. MAJOR COURS	E CORE REQUIRED	
EET 1015C	Direct Current Circuits	4
EET 1025C	Alternating Current Circuits	4
EGN 1949	Co-op Work Experience	1
ETI 1000	Industrial Plant Tools and Equipment	1
ETI 1701	Industrial Safety	3
ETP 1200	Power Plant Science	3
ETP 1220	Power Plant Fundamentals	2
ETP 1230	Power Plant Systems	2
MTB 1322	Technical Mathematics 2	3
PHY 1025	Basic Physics	3

IV. PROGRAM CORE REQUIREMENTS

23 credits required - choose one of three specialization options



Classes are held Monday through Friday and generally begin at 8:00 a.m. and end by 1:00 p.m.

FIRST TER	m — Fall Term 15 C	redits
ETP 1220 ETI 1701 ENC 1101 CGS 1060 MAC 1105	Power Plant Fundamentals Industrial Safety English Composition 1 Intro to Microcomputers College Algebra	2 3 3 4 3
Second T	erm — Spring Term 15 C	redits
EET 1015C EET 1025C ETI 1000 MTB 1322 PHY 1025	Direct Current Circuits Alternating Current Circuits Industrial Plant Tools and Equipm Technical Mathematics 2 Basic Physics	4 4 ent 1 3 3
Third Ter	rm — Summer Term 6 C	redits
ETP 1200 ETP 1230 EGN 1949	Power Plant Science Power Plant Systems Co-op Work Experience	3 2 1
Fourth Te	erm — Fall Term 16 C	redits
	Speech Communications Critical Thinking/Ethics	3 3
•	Critical Thinking/Ethics lization Options - (Based On Ava	3
PHI 2604 <i>Specia</i> Instrument: ETS 2542C EET 1141C ETS 2520C	Critical Thinking/Ethics	3 <i>ilability)</i> 3 4
PHI 2604 <i>Specia</i> Instrument: ETS 2542C EET 1141C ETS 2520C Mechanical ETI 2425C ETM 1315C ETP 2231C	Critical Thinking/Ethics <i>lization Options - (Based On Ava</i> ation and Control Programmable Logic Controllers 1 Electronics 1	3 ilability) 3 4 als 3 mics 3 s 3
PHI 2604 Specia Instrument: ETS 2542C EET 1141C ETS 2520C Mechanical ETI 2425C ETM 1315C	Critical Thinking/Ethics lization Options - (Based On Ava ation and Control Programmable Logic Controllers 1 Electronics 1 Process Measurement Fundament. Metallurgical Properties and Dynam Applied Pneumatics and Hydraulic	3 ilability) 3 4 als 3 mics 3 s 3
PHI 2604 Specia Instrument ETS 2542C EET 1141C ETS 2520C Mechanical ETI 2425C ETM 1315C ETP 2231C Electrical ETS 2542C EET 1141C EET 2515C	Critical Thinking/Ethics lization Options - (Based On Ava ation and Control Programmable Logic Controllers 1 Electronics 1 Process Measurement Fundament. Metallurgical Properties and Dyna Applied Pneumatics and Hydraulic Power Plant Machines & Compone Programmable Logic Controllers 1 Electronics 1 Motors and Generators	3 <i>ilability</i>) 3 4 als 3 mics 3 s 3 nts 1 4 3 4

Specialization Options - (Based on Availability)

Instrumentation and Control			
ETS 2544C	Programmable Logic Controllers 2	3	
EET 2101C	Electronics 2	4	
ETS 2530C	Process Control Technology	3	
ETI 2315C	Fluid / Pneumatic Instrumentation	3	
Mechanical			
ETI 2451C	Mechanical Maintenance Power Plants	3	
ETI 2408C	Welding Processes	3	
ETI 1805C	Introduction to Rigging and Lifting	3	
ETP 2232C	Power Plant Machines & Components 2	4	
Electrical			
ETS 2544C	Programmable Logic Controllers 2	3	
EET 2101C	Electronics 2	4	
EET 2527C	Motor Starters, Controllers & Breakers	3	
EET 2547C	Transformers and Power Distribution	3	

R П District Board of Trustees: Chair • Armando J. Bucelo Jr., V • Benjamin León III • • Marili Cancio • Jose K. Fuentes

College Foundation supports the mission and values of Miami Dade uraging gifts from a wide variety of sources, particularly in the ship and program support. For more information on how you can e College, please call MDC at 305-237-3240.

Miami Dade College is an equal access/equal opportunity affirmative action institution. This information is available in accessible formats. For this, or special accommodations call 305-237-3848 three days before the event. TDD at 1-800-955-8771

R

E



R

D

F

N

Ν

Write us School of Engineering + Technology MDC Homestead Campus 500 College Terrace Miami, FL 33030 Call or Email us Revised 10/3/12 305-237-5169/Imendels@mdc.edu