



Electrical Technology Spring Semester 2011 Course Offerings

The following have been copied from the Spring Semester Course Schedule Book. Due to strong enrollment in a couple courses, we have added an additional section of ELTE 131 – Machine Controls I and ELTE 141 – National Electrical Code I. The additional sections have been included in the list below. The additional ELTE 141 class is offered on-line.

Some contractors have expressed an interest in the Fire Alarm class for non-apprentices. Anyone is welcome to enroll. Where a class has a prerequisite for enrollment, that prerequisite can be waived if the individual has equivalent knowledge or field experience. All classes can also be audited – taken without the pressure of a grade. Contact Dave Mattson with any questions (517-483-1348 or dmattson@lcc.edu).

SPRING SEMESTER 2011	Course Offerings
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CRN#	Type	Cr/Bill Hrs	Start/End Dates	Days	Times	Location	Instructor	E/W*
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Electrical Technology

ELTE102	Industrial/Construction Safety	Course Fee: \$45
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Prerequisite: Reading Level 3 and Writing Level 2

Course Note: This course requires students to be certified in CPR and First Aid as part of the course grade. Training will occur as part of traditional on-campus sections. On-line students have the option of attending CPR and First Aid sessions at LCC's West Campus. Students who cannot travel to LCC will need to make other arrangements to become certified.

83133	Online	2.00/ 3.00	01/15-05/13		Arranged	ONLINE	Mattson J	
83140	Online	2.00/ 3.00	01/15-05/13		Arranged	ONLINE	Mattson J	
83145	Lab/Lecture	2.00/ 3.00	01/15-05/13	W	8:10am-11:00am	WCB-U233	Staff	
83149	Lab/Lecture	2.00/ 3.00	01/15-05/13	T	9:10am-12:00pm	WCB-U233	Staff	
83153	Lab/Lecture	2.00/ 3.00	01/15-05/13	R	9:10am-12:00pm	WCB-U234	Taylor M	
83159	Lab/Lecture	2.00/ 3.00	01/15-05/13	S	9:10am-12:00pm	WCB-U233	Mattson J	W
83166	Lab/Lecture	2.00/ 3.00	01/15-05/13	M	12:10pm-3:00pm	WCB-U233	Staff	
83170	Lab/Lecture	2.00/ 3.00	01/15-05/13	W	12:10pm-3:00pm	WCB-U233	Staff	
83174	Lab/Lecture	2.00/ 3.00	01/15-05/13	R	1:10pm-4:00pm	WCB-U234	Taylor M	
83178	Lab/Lecture	2.00/ 3.00	01/15-05/13	T	2:10pm-5:00pm	WCB-U234	Staff	
83182	Lab/Lecture	2.00/ 3.00	01/15-05/13	W	6:10pm-9:00pm	WCB-U237	Shaud J	E
83186	Lab/Lecture	2.00/ 3.00	01/15-05/13	R	6:10pm-9:00pm	WCB-U234	Mattson J	E

ELTE110	Practical Electricity	Course Fee: \$70
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Prerequisite: Minimum 2.0 in (ELTE 100 or ELTE 102 or HVAC 102 or METS 102 or WELD 102 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3

Recommended: Math Level 4 or MATH 050 concurrently

83107	Self-Paced	3.00/ 6.00	01/15-05/13		Arranged	WCB-U206	Staff	
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83107: ELTE 110 is offered on a self-paced, open-lab basis. It is not an online course. Orientation for ELTE 110 is scheduled at the West Campus Room U206, 11:30 am on Saturday, January 15, 2011 and again at 6:10 pm on Tuesday, January 18, 2011. ALL STUDENTS IN ELTE 110 MUST ATTEND ONE OF THESE ORIENTATIONS. If you have any questions, call the Electrical Lab at (517) 483-1360.

The Electrical Lab is open on Tuesdays and Thursdays from 2:00 pm to 9:00 pm, Wednesdays from 9:00 am to 9:00 pm, Fridays from 9:00 am to Noon and Saturdays from 9:00 am to 2:00 pm for students to work on their course and to get assistance.

Students will be able to select from the following lecture sessions each week to assist them in gaining an understanding of the course outcomes: Wednesday from 9:10 am to 11:00 am; Wednesday from 6:10 pm to 8:00 pm; Thursday from 4:10 to 6:00 pm; or Saturday from 9:10 am to 11:00 am. Attendance at lecture sessions is strongly recommended.

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CRN#	Type	Cr/Bill Hrs	Start/End Dates	Days	Times	Location	Instructor	E/W*	
ELTE111		Intro to Industrial Automation					Course Fee: \$70		
Prerequisite: Reading Level 3									
Course Note: Students will be required to provide a 2-Gigabyte memory stick (jump drive) with USB port interface. Knowledge of computers, operating systems and software programs is recommended.									
83108	Lab/Lecture	4.00/ 6.00	01/15-05/13 01/15-05/13	TR	9:10am-11:00am Arranged	WCB-U205 WCB-U205	Staff		
83109	Lab/Lecture	4.00/ 6.00	01/15-05/13 01/15-05/13	M	6:10pm-10:00pm Arranged	WCB-U205 WCB-U205	Miller W	E	
83110	Lab/Lecture	4.00/ 6.00	01/15-05/13 01/15-05/13	W	6:10pm-10:00pm Arranged	WCB-U205 WCB-U205	Staff	E	
ELTE112		Basic Wiring Installation					Course Fee: \$35		
Prerequisite: Minimum 2.0 in (ELTE 110 or HVAC 110)									
Course Note: Students will be required to provide hand tools not included in the course fee. A list of these tools will be provided at the first class meeting.									
83111	Lab/Lecture	2.00/ 3.00	02/12-05/13	TR	2:10pm-4:00pm	WCB-U209	Jackson T		
83111: Students enrolling in ELTE 110 during Fall Semester may also be able to enroll in this late start section of ELTE 112. Contact the Electrical Technology program at (517) 483-1360 to request a waiver.									
83112	Lab/Lecture	2.00/ 3.00	01/15-04/15	R	6:10pm-10:00pm	WCB-U209	Jackson T	E	
ELTE121		Electrical Mathematics					Course Fee: \$50		
Prerequisite: Minimum 2.0 in (ELTE 100 or ELTE 102 or HVAC 102 or METS 102 or WELD 102) and (ELTE 110 or ELTE 118) and (minimum 2.0 in MATH 107 or MATH 114 or Math Level 5) and Reading Level 5									
83113	Lab/Lecture	5.00/ 6.00	01/15-05/13 01/15-05/13	MW	9:10am-11:00am Arranged	WCB-U203 WCB-U206	Feldpausch M		
83114	Lab/Lecture	5.00/ 6.00	01/15-05/13 01/15-05/13	TR	4:10pm-6:00pm Arranged	WCB-U203 WCB-U206	Feldpausch M	E	
ELTE122		Industrial Control Electronics					Course Fee: \$60		
Prerequisite: Minimum 2.0 in (ELTE 111 and ELTE 121)									
83116	Lab/Lecture	5.00/ 7.00	01/15-05/13 01/15-05/13	T	5:40pm-10:30pm Arranged	WCB-U205 WCB-U205	Staff	E	
ELTE131		Machine Controls I					Course Fee: \$75		
Prerequisite: Minimum 2.0 in ELTE 110									
83117	Lab/Lecture	4.00/ 5.00	01/15-05/13	TR	11:10am-1:30pm	WCB-U206	Staff		
83118	Lab/Lecture	4.00/ 5.00	01/15-05/13	F	5:40pm-10:30pm	WCB-U206	Vossler S	E	
83704	Lab/Lecture	4.00/5.00	01/15-05/13	M	5:40pm-10:30pm	WCB-U206	Staff	E	
ELTE132		Control Panel Assembly					Course Fee: \$360		
Prerequisite: Minimum 2.0 in (ELTE 131 or concurrently) and Reading Level 3 and Writing Level 2 and Math Level 3									
83496	Lab/Lecture	2.00/ 3.00	01/15-05/13	T	6:10pm-9:00pm	WCB-U209	Neumann M	E	
ELTE141		National Electrical Code I					Course Fee: \$15		
Prerequisite: Minimum 2.0 in (ELTE 110 or HVAC 110)									
Course Note: Students with a minimum of one year of experience may request a waiver for the prerequisites of this class. Call (517) 483-1360 to request a waiver.									
83120	Lecture	4.00/ 4.00	01/15-05/13	TR	9:10am-11:00am	WCB-U206	Mattson D		
83121	Lecture	4.00/ 4.00	01/15-05/13	M	6:10pm-10:00pm	WCB-U203	Williams D	E	
83701	ONLINE	4.00/4.00	01/15-05/13		ONLINE		Mattson D		
ELTE142		National Electrical Code II					Course Fee: \$15		
Prerequisite: Minimum 2.0 in ELTE 141									
Course Note: Students with a minimum of two years of experience and a previous course in the National Electrical Code may request a waiver for the prerequisites of this class. Call (517) 483-1360 to request a waiver.									
83122	Lecture	4.00/ 4.00	01/15-05/13	T	6:10pm-10:00pm	WCB-U203	Foote K	E	

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CRN#	Type	Cr/Bill Hrs	Start/End Dates	Days	Times	Location	Instructor	E/W*	
ELTE143		National Electrical Code III				Course Fee: \$15			
Prerequisite: Minimum 2.0 in ELTE 142									
Course Note: Students with a minimum of three years of experience may request a waiver for the prerequisites of this class. Call (517) 483-1360 to request a waiver.									
83123	Lecture	4.00/ 4.00	01/15-05/13	W	6:10pm-10:00pm	WCB-U203	Foote K	E	
ELTE150		Electric Motor Maintenance				Course Fee: \$20			
Prerequisite: Minimum 2.0 in (ELTE 110 or HVAC 110)									
83125	Lab/Lecture	2.00/ 3.00	01/15-04/15	W	1:10pm-5:00pm	WCB-U209	Bulmer J		
83126	Lab/Lecture	2.00/ 3.00	01/15-04/15	W	6:10pm-10:00pm	WCB-U209	Bulmer J	E	
ELTE240		Electrical Estimating				Course Fee: \$35			
Prerequisite: Minimum 2.0 in (ELTE 112 and ELTE 145)									
83127	Lab/Lecture	3.00/ 4.00	01/15-05/13	T	6:10pm-10:00pm	WCB-U237	Swain J	E	
ELTE261		Programmable Controllers II				Course Fee: \$170			
Prerequisite: Minimum 2.0 in ELTE 260									
Course Note: Students will be required to provide a 2-Gigabyte memory stick (jump drive) with USB port interface. Knowledge of computers, operating systems and software programs is recommended.									
83128	Lab/Lecture	6.00/ 8.00	01/15-05/13 01/15-05/13	R	6:10pm-10:00pm Arranged	WCB-U205 WCB-U205	Vossler S	E	

In addition to our regular Electrical Technology (ELTE) courses, we are offering the following classes that are specific to the Electrical Apprenticeship. These are “late start” sections (running during the last eight weeks of the Spring Semester). The ELTE courses begin at the start of our normal semester – the week starting January 15th.

- ELTA 105 – Electrical Industry Orientation
 - Description: An overview of laws and standards that apply to the electrical construction industry in the State of Michigan.
 - Credits: 0.5 Billing Hours: 0.5
 - Tuesdays from 6:10 to 9:00 PM
 - **ONLY:** 4/12/2011, 4/19/2011, 4/26/2011 (The class only meets these three nights)
 - Room: West Campus U238
 - Instructor: Dave Williams
 - CRN: 83678

- ELTA 180 – Introduction to Fire Alarms
 - Description: This course provides an introduction to the installation and operation of fire alarm systems. Topics covered include: wiring methods, components, circuit types, system types and code rules.
 - Credits: 1 Billing Hours: 1
 - Mondays from 6:10 to 8:00 PM
 - Starting March 21st and running through May 9th
 - Room: West Campus M124A
 - Instructor: Keith Foote
 - CRN: 83679