

## Career Opportunities

Upon graduation, students obtain employment as outside plant technicians and network technicians.

According to the Illinois Department of Employment Security's Office of Employment Projections, employment for telecommunications technicians is expected to expand faster than average in both Illinois and the nation through 2010. The following are predicted: 24 percent employment growth of outside plant service technician and cable television installer positions, 21 percent employment growth of inside plant service technicians, and 6 percent growth of outside plant construction technicians.

Experienced telecommunications technicians may advance to supervisory positions or be promoted to engineering or vendor product specialists.



## Admission Procedures

1. Secure the admission application packet from the Student Services Office, file the completed application with the Admissions Office and pay the appropriate application fee.  
**OR**  
Apply online at [www.iecc.edu](http://www.iecc.edu).

Students seeking admission to degree or one-year certificate programs must then follow these steps:

2. Complete college placement exam (ACT, SAT or IECC-administered COMPASS; call the Student Services Office for details). The purpose of the testing is to assist the student in course selection and to improve the probability of student success in college-level work. Failure to take this test will preclude registration as a degree-seeking student for the second term.
3. Submit an official transcript of the high school record or the high school equivalency (GED) and certificate test scores to the Admissions Office.
4. Submit official transcripts and appropriate course descriptions of all previous college work to the Admissions Office prior to registration.

Scholarship opportunities and tuition waiver information is accessible online at [www.iecc.edu/ltc](http://www.iecc.edu/ltc).

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07/08

## TELECOMMUNICATIONS TECHNOLOGY



LINCOLN TRAIL  
COLLEGE

11220 State Highway 1  
Robinson, IL 62454-5705



618/544-8252 or 866/582-4322

AN ILLINOIS EASTERN COMMUNITY COLLEGE

# Telecommunications (Telephony) Technology

## D485

A two-year Associate in Applied Science Degree.

Telecommunications (Telephony) Technology is an occupational degree program. A two-semester certificate program is available in Outside Plant/Interconnect. See the college catalog for information on the certificate program.

## Program Description

The Telecommunications Technology degree program provides coursework in broad areas of telephony. Learned skills will include central office and EPABX switching, fiber optic and copper cable splicing, installation of home and business telephone systems and computer network infrastructure cabling. Also included are specific courses in math, electricity, electronics, digital techniques, communication skills and applied computer science. Additional training is provided through a paid internship program by placing students with telecom firms as on-the-job trainees.

Students desiring to continue their studies beyond the associate degree may be eligible for a capstone program at a participating senior-level institution.

## Scholarship

Scholarships are available from several participating telecommunications firms. In addition, the Illinois Telecommunications Association Foundation grants \$2,500 Jack Tharp Scholarship awards each year. These scholarships are awarded based on academic performance, financial need and in some cases geographical location.

# Program Requirements

## Telecommunications Technology Associate in Applied Science Degree

First Semester		Hrs.	Credit
GEN 1221	Occupational Safety	2	
MTH 1201	Technical Mathematics	3	
MSS 2202	Microcomputer Operating Systems	3	
TEL 1265	Introduction to Computers	3	
TEL 1266	Fundamentals of Telecom	4	
TEL 1273	Electronics in Telecom	3	
<i>Semester Total</i>		<u>18</u>	
Second Semester		Hrs.	Credit
ENG 1201	Communications	3	
MSS 1201	Maintenance & Diagnostics I	3	
MSS 2206	Microcomputer Operating Systems II	3	
TEL 1271	OSP Cable Splicing	3	
TEL 1272	Business Comm Systems I	3	
TEL 1274	Station Installation	3	
<i>Semester Total</i>		<u>18</u>	
Third Semester		Hrs.	Credit
MSS 2201	Maintenance & Diagnostics II	3	
MSS 2204	Local Area Networks	3	
TEL 2281	Outside Plant Construction* OR		
TEL 2282	TDM Switching Systems* OR	5	
TEL 2288	Computer Telephony I*		
* Student may choose one or more of the 5 semester hour courses.			
TEL 2294	Digital Transmission Networks	4	
	Math/Science Elective	<u>3</u>	
<i>Semester Total</i>		<u>18</u>	
Fourth Semester		Hrs.	Credit
GEN 2297	Employment Skills	3	
MSS 2223	Windows Server* OR		
TEL 2299	OSP Advanced Cable Splicing*	3	
* Student may choose one or both of the 3 semester hour courses.			
TEL 2287	Telecom VDV Convergence	1	
TEL 2291	OSP Cable Maintenance* OR		
TEL 2292	Business Comm Systems II* OR	4	
TEL 2298	Computer Telephony II*		
* Student may choose one or more of the 4 semester hour courses.			
TEL 2295	Telecommunications Conspectus	3	
TEL 2606	Fiber Terminating for LANs	1	
	Social Science/Humanities Elective	<u>3</u>	
<i>Semester Total</i>		<u>18</u>	
<i>Program Total</i>		<u>72</u>	

## Job Placement

Students receive hands-on instruction while at the H.L. Crisp Educational Center and during the optional supervised internship co-op program. Participating telcos, contractors and communications firms place many of our students into cooperative, on-the-job training situations, thereby providing work experience as well as a sound educational base. This combination assures our students of ample employment opportunities upon graduation.

Upon completion of the degree, employment is available in a wide variety of jobs throughout the telecommunications industry and other related fields. Base salaries start at \$24,000 to \$36,000 annually and can be advanced to \$40,000 to \$85,000.

## Campus Visit

Interested persons are invited to visit LTC's South Campus to learn more about the Telecommunications Technology degree program.



For More Information, Contact

LTC Telecommunications Technology Dept. - 11220 State Hwy. 1 - Robinson, IL 62454 - Toll-free 866-582-4322

[www.iecc.edu/telecom](http://www.iecc.edu/telecom)