

## **BROADBAND TECHNICIAN CERTIFICATE (TEL C486)**

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The Broadband Technician certificate prepares students for entry-level positions in the broadband telecommunications industry. Students receive an introduction to telecom basics, telecom electronics, cable splicing, station installation, structured cabling systems, networking fundamentals, and fiber optics. This program consists of three stackable micro-certificates.

<u>First Semester</u>	<u>Credit Hours 16</u>	<u>Second Semester</u>	<u>Credit Hours 15</u>
TEL 1201 IT Fundamentals	4	GEN 2297 Employment Skills	V3
TEL 1202 Networking Fundamentals I	4	TEL 1232 Networking Fundamentals II	4
TEL 1203 Combination Technician I	4	TEL 1233 Combination Technician II	4
TEL 1204 Outside Plant I	4	TEL 1234 Outside Plant II	<u>4</u>
<b>Total Credit Hours</b>			<b>31</b>

## **NETWORKING CERTIFICATE (TEL C480)**

This micro-certificate is designed to help students gain experience in basic computer hardware, software, and networking as it relates to broadband technology. Students will learn to work with various types of computers, cabling, and networking equipment including installation, troubleshooting, and maintenance. Students also have the opportunity to take the industry recognized CompTIA IT Fundamentals certification test as part of this micro-certificate.

<u>Requirements</u>	<u>Credit Hours 8</u>
TEL 1202 Networking Fundamentals I	4
TEL 1232 Networking Fundamentals II	<u>4</u>
<b>Total Credit Hours</b>	<b>8</b>

## **COMBINATION TECHNICIAN CERTIFICATE (TEL C479)**

The Combination Technician micro-certificate is designed to help students gain experience as broadband combination technicians. Students will learn to install copper and fiber optic services to businesses and homes. This will include experience installing and configuring network interface devices (NID), optical network terminals (ONT), and maintaining a service vehicle. Troubleshooting and diagnosing various problems experienced by combination technicians will also be covered.

<u>Requirements</u>	<u>Credit Hours 8</u>
TEL 1203 Combination Technician I	4
TEL 1233 Combination Technician II	<u>4</u>
<b>Total Credit Hours</b>	<b>8</b>

## **OUTSIDE PLANT TECHNICIAN CERTIFICATE (TEL C478)**

The Outside Plant Technician micro-certificate is designed to help students gain experience as broadband outside plant technicians. Students will learn to install and splice copper and fiber optic cabling. Students will also have the opportunity to obtain the nationally recognized Certified Fiber Optic Technician (CFOT) certificate through the Fiber Optic Association as part of the coursework. Students will be trained on heavy equipment, which includes, bucket truck, derrick digger, and plow operation and maintenance.

<u>Requirements</u>	<u>Credit Hours 8</u>
TEL 1204 Outside Plant I	4
TEL 1234 Outside Plant II	<u>4</u>
<b>Total Credit Hours</b>	<b>8</b>