

BROADBAND TELECOM ASSOCIATE IN APPLIED SCIENCE DEGREE (TEL D485)

FCC	✓ LTC	OCC	WVC
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The Broadband Telecom degree prepares students for employment in the evolving industry of broadband-related technologies. Students train in copper and fiber optic cabling, home and business phone systems, computer hardware and software, networking, customer relations, outside plant construction, and central office switching. Specific skills include installation, maintenance, and safety of these various technologies. Students prepare to take industry standard certification exams as part of the curriculum. Additional training opportunities exist through paid internships with broadband telecom companies.

First Semester	Credit Hours 20
GEN 1221 Occupational Safety	2
MTH 1201 Technical Mathematics ¹	4
TEL 1201 IT Fundamentals	3
TEL 1263 Introduction to Switching Technology	2
TEL 1266 Fundamentals of Telecom	3
TEL 1273 Electronics in Telecom	4
TEL 2219 Cellular Service Fundamentals	2

Second Semester	Credit Hours 18
TEL 1265 Introduction to Computers	3
TEL 1271 Basic Cable Splicing	3
TEL 1272 Business Comm Systems I	3
TEL 1274 Station Installation	3
TEL 2220 Wireless Service Fundamentals	2
TEL 2263 Structured Cabling Systems	1
TEL 2284 Networking Fundamentals	3

Third Semester	Credit Hours 18-19
ENG 1201 Communications ¹	3
TEL 2214 Cisco Fundamentals I OR	3
TEL 2281 Outside Plant Construction	4
TEL 2264 Intro to Fiber Optics	3
TEL 2287 IP Convergence	2
TEL 2292 Business Comm Systems II Math/Science Gen Ed Elective ¹	4 3

Fourth Semester	Credit Hours 15
GEN 2297 Employment Skills ¹	3
TEL 2215 Cisco Fundamentals II OR	3
TEL 2291 OSP Cable Maintenance	3
TEL 2282 TDM Switching Technology	3
TEL 2293 Advanced Switching Technology OR	3
TEL 2299 Advanced Cable Splicing Social Science/Humanities Gen Ed Elective ^{1*}	3 <u>3</u>

Total Credit Hours **71-72**

¹General Education Hours (16)

*Course must satisfy the IECC human diversity requirement

Recommended Electives:

Math/Science Gen Ed Electives

GEG 1103	Introductory Meteorology	3
GEL 1110	General Geology	3
PSC 1101	Intro to Physical Science	4

Social Science/Humanities Gen Ed Electives

HIS 2104	Intro to African Am History	3
MUS 1104	World Music	3
SOC 1108	Race and Ethnic Relations	3