

**Requirements:**

Number	Course Name	Credit Hours
ENG 1233	Technical Composition .....	3
MATH 1103	Tech Math .....	3
MIS 1443	Tech Computers App .....	3
TCOM 1003	Installer .....	3
TCOM 1013	Installer Technician .....	3
TCOM 1103	Intro to Networking .....	3
TCOM 1113	Intro to Networking: LAN/WAN .....	3
TCOM 1143	Internetworking with TCP/IP .....	3
TCOM 1233	PCs for Telecommunications I .....	3
TCOM 1303	PCs for Telecommunications II .....	3
TCOM 1803	Service Technician .....	3
TCOM 1853	Troubleshooting Adv Services .....	3
TCOM 2953	Internship: Telecom Engineering Planning .....	3

**Minimum Required Credit Hours (39)**

**Frequently Asked Questions**

**Q:** What is the procedure for admission once I am selected by a sponsor?

**A:** A completed ASU-Newport Application for Admission is the first step to admissions. Then all college and high school official transcripts and a copy of your medical immunization records should be sent to the Office of the Admissions and Records. If you have taken the ACT or SAT, that score should also be sent.

**Q:** Is all this coursework just theory?

**A:** No, in the Internship you will be involved with other technicians and actually work on the equipment you are learning about. Also as a part of the program in the Internship you will spend time engaging in a supervised internship to put those skills that you have learned to use. There are also general education courses in English, Mathematics, and Technical Computer Applications.

**Q:** What are the costs associated with this program of study?

**A:** If you are a sponsored student, all tuition and books are provided by the sponsor. The cost of housing while attending is typically not covered by the sponsor, and must be provided by the student.

**Q:** Can I qualify for Federal Financial Aid?

**A:** The Financial Aid Office is able to provide all forms and is willing to help all students in the completion of the forms.

**Q:** Is there housing available on campus?

**A:** No, but the Office of Student Services can provide you with a list of possible rentals.



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# Technical Certificate in Telecommunications

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Arkansas State University-Newport and Ritter Communications are excited to extend to individuals an opportunity to obtain a Technical Certificate in Telecommunications! Prospective students are encouraged to apply for admission anytime after being selected for sponsorship. Once admitted, students should take full advantage of this unique opportunity to learn and pursue an outstanding career. Students are also encouraged to apply as self-paying students. Financial Aid is available.

Ritter Communications has a century-long tradition of providing quality residential and business communication services all across Arkansas.

A pioneer in the telecommunications industry, Ritter Communications has over the years become a total local communications connection offering the latest communication innovations for both home and business including local and long-distance telephone, customized business systems, internet and even premium cable service.

Recognizing that all of the industry-leading technological advancements in the world mean nothing if they are not backed by a strong and responsive service, ASU-Newport and Ritter Communications' Technical Certificate in Telecommunications will provide students a program of study that will fulfill this need.

## A Brief Description of the Program's Technical Courses

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### **ENG 1233 Technical Composition (3 credit hrs)**

This course will include exercises in basic grammar, in mechanics, in sentence structure, and in paragraph structure.

### **MATH 1103 Technical Mathematics(3 credit hrs)**

This course includes a review of arithmetic, calculator use, linear and angular measurement, use of formulas and equations, elementary applications of geometry and basic statistics.

### **MIS 1443 Technical Computers Application (3 credit hrs)**

This course will include PC basics, browsing and searching the Web, sending e-mails and attachments, writing and printing documents, spreadsheets, working with graphics and working with industry specific software.

### **TCOM 1003 Installer (3 credit hrs)**

Focuses on the fundamentals of DC/AC, data, voice and video cabling methods, techniques and standards, and safety procedures including climbing ladders and electrical poles.

### **TCOM 1013 Installer Technician (3 credit hrs)**

Teaches practical aspects of data, voice and video cabling methods, techniques and standards. Servicing single and multiple dwelling unit drops and troubleshooting problems with drop installations.

### **TCOM 1103 Introduction to Networking (3 credit hrs)**

The course teaches the fundamentals of networking and data communications and outlines how the all-digital network transports voice, video, and data. Students learn how signals travel across different types of physical network structures and how those signals carry useful data from one device to another.

### **TCOM 1113 Intro to Networking: LAN/WAN (3 credit hrs)**

Introduction to Networking: Local Area Networks explains the concepts, technologies, and components used to build and maintain local area networks (LANs). Students completing this course will have a solid understanding of the fundamentals needed to build and maintain LANs. This course also describes the concepts, technologies, and functions of wide area networks (WANs) and how they help support broadband-related services such as Voice over Internet Protocol (VoIP).

### **TCOM 1143 Internetworking/ TCP/IP (3 credit hrs )**

The Internetworking with TCP/IP course introduces networking protocols, including transmission control protocol (TCP), HTTP, TFTP, and FTP, and outlines how to test and troubleshoot Internetworked communications systems.

### **TCOM 1233 PCs for Telecommunications I(3 credit hrs)**

Introduces personal computers for use as interface devices. Focuses on hardware fundamentals of personal computers including installation and troubleshooting of components and digital modem operation.

### **TCOM 1303 PCs for Telecommunications II(3 credit hrs)**

Continues the study of personal computers for use as interface devices. Focuses on operating systems used by personal computers and advanced troubleshooting techniques.

### **TCOM 1803 Service Technician (3 credit hrs)**

This course teaches the basic characteristics and functions of the feeder line system, active and passive devices, the fundamentals of cable powering, basic test equipment operation, signal leakage basics, coaxial cable and connectorization, and an overview of fiber optics.

### **TCOM 1853 Troubleshooting Advanced Services (3 credit hrs)**

Describes advanced services problems, instructing the student in the isolation and resolution of those problems including troubleshooting digital channels, remote control problems, picture and audio quality problems, verifying digital set-top terminal configuration and operation and using digital set-top terminal diagnostic screen.

### **TCOM 2953 Internship: Telecom Engineering Planning (3 credit hrs)**

Provides students with an opportunity to gain practical experience in applying their occupational skills and/or to develop specific skills in a practical work setting. The Instructor will work with the student to select an appropriate work site, establishing learning objectives and to coordinate learning activities with employer or work site supervisor.

