

BROADBAND TECHNOLOGY (BBT)

BBT 100 (3 credit hours)

Introduction to HFC/Cable-TV

Introduces the basics of the HFC (Hybrid Fiber Coaxial) portion of the broadband industry. Focuses on primary areas: cable and wire - the design of the cables physically and electrically and how to splice them; print reading - construction drawings and system maps/circuit diagrams; station installation - installation of customer materials and equipment and teaching the customers how to properly use the equipment; basic troubleshooting - finding and repairing trouble in materials and equipment; processing requirements for various signals used in the HFC system and signal level meters and signal testing. Covers the transmission of voice and data signals and how they are transmitted to the subscriber and back to the central office. Includes troubleshooting and fault locating techniques used to repair and maintain subscriber equipment. Lecture/Lab: 3.0 credits (75 contact hours)

Pre-requisite: MAT 65 or Equivalent Placement Level or Consent of Instructor.

Attributes: Technical

Components: LEC: Lecture

BBT 200 (2 credit hours)

Introduction to Cellular Technology

Introduces the world of wireless communications. Provides information to enhance an understanding of how we use radio frequencies to transmit signals, data, and voice over the airwaves. Provides information regarding how to correctly set up and troubleshoot a variety of equipment used in radio communications. Lecture: 2.0 credits (30 contact hours).

Attributes: Technical

Components: LEC: Lecture