The Telecommunications Technology curriculum provides training in the expanding field of telecommunications. For students interested in technology, the program will provide state-of-the-art training for fulfilling telecommunications careers. In addition, the program aims to retrain telecommunications workers with technological advances in the field. The program also provides a smooth transition to baccalaureate programs of four-year schools, specifically the bachelor’s degree program in Telecommunications at CUNY New York City Technical College. Graduates can expect to be hired by various companies ranging from small businesses to telecommunication giants such as AT&T, Verizon, MCI and cable television companies.

Curriculum Coordinator: Dr. Ajaz Sana

Telecommunications Technology Curriculum (Pathways)
65 Credits required for A.A.S. Degree

Required Core
A. English Composition
   • ENG 10 Fundamentals of Composition and Rhetoric OR ENG 11 Composition and Rhetoric I (3 Credits)
   • ENG 12 Composition and Rhetoric II (3 Credits)
B. Mathematical and Quantitative Reasoning
   • MTH 30 Pre-Calculus Mathematics (4 Credits)
C. Life and Physical Sciences
   • PHY 11 College Physics I (4 Credits)

Flexible Core
A. World Cultures and Global Issues
   • HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World (3 Credits)
D. Individual and Society
   • COMM 11 Fundamentals of Interpersonal Communications (3 Credits)
E. Scientific World
   • PHY 12 College Physics II (4 Credits)

Required Areas of Study
   • ART 10 Art Survey OR MUS 10 Music Survey (1 Credit)
   • MTH 31 Calculus and Analytical Geometry I (4 Credits)
   • PEA Physical Education activity course (1 Credit)
   • FREE ELECTIVE (1 Credit)

SUBTOTAL 7

Specialization Requirements
   • ELC 11 DC Circuit Analysis (4 Credits)
   • ELC 15 Computer Applications in Technology (2 Credits)
   • ELC 21 AC Circuit Analysis (4 Credits)
   • ELC 25 Electronics I (4 Credits)
   • ELC 96 Digital Systems I (4 Credits)
   • TEC 11 Voice Communications (4 Credits)
   • TEC 21 Data Communications (4 Credits)
   • TEC 31 Local Area Networks (4 Credits)
   • TEC 41 Advanced Topics in Telecommunications (4 Credits)

SUBTOTAL 34
TELECOMMUNICATIONS TECHNOLOGY
(PRE-PATHWAYS)
Associate in Applied Sciences Degree | Career Program
Physics and Technology Department

If you began studying at BCC in or after Fall 2013, Pathways applies. Pathways also applies to students who have returned to CUNY after an absence of more than one semester. If you are a continuing student who entered before Fall 2013, you will be able to choose whether you remain with your existing requirements or change to Pathways. You should consult with an academic advisor.

Curriculum Coordinator: Dr. Ajaz Sana

Telecommunications Technology Curriculum
65 Credits required for A.A.S. Degree

Core Requirements
• ENG 10 Fundamentals of Composition and Rhetoric OR ENG 11 Composition and Rhetoric I (3 Credits)
• CMS 11 Fundamentals of Interpersonal Communication (3 Credits)
• HIS 10 History of the Modern World OR HIS 11 Introduction to the Modern World (3 Credits)
• MTH 13* Trigonometry and College Algebra (3 Credits)
• PEA Physical Education (one activity course) (1 Credits)
TOTAL 13

Required Areas of Study
• ENG 23 Scientific and Technical Writing (3 Credits)
• MTH 14 College Algebra and Introduction to Calculus (3 Credits)
• MTH 15 Calculus (3 Credits)
• PHY 21** Physics for Engineering Technology I (4 Credits)
• PHY 22 Physics for Engineering Technology II (4 Credits)
• MUS 10 Music Survey OR ART 10 Art Survey (1 Credit)
TOTAL 18

Specialization Requirements
• ELC 15 Computer Applications in Technology (2 Credits)
• ELC 11 D.C. Circuit Analysis (4 Credits)
• ELC 21 A.C. Circuit Analysis (4 Credits)
• ELC 25 Electronics I (4 Credits)
• ELC 96 Digital Systems I (4 Credits)
• TEC 11 Voice Communications (4 Credits)
• TEC 21 Data Communications (4 Credits)
• TEC 31 Local Area Networks (4 Credits)
• TEC 41 Advanced Topics in Telecommunications (4 Credits)
TOTAL 34

NOTE: At least two courses must be taken from a list designated as “Writing Intensive” as published each semester in the Registration Guide and Schedule of Classes.

*Students may choose to take MTH 30, 31, and 32 in lieu of MTH 13, 14, and 15 if they plan to continue their studies at CCNY after completing the A.A.S. degree.

** Students may choose to take PHY 31 and 32 in lieu of PHY 21 and 22 if they plan to continue their studies at CCNY after completing the A.A.S. degree.