

# PROGRAM: AAS TELECOMMUNICATION TECHNOLOGY

Division: Mathematics, Engineering and Physical Sciences  
TECH-129 (914) 606-6788

64 Credits

### Curriculum Chair

Professor Murray Haims  
TECH-138B  
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Reviewed By: \_\_\_\_\_

Date: \_\_\_\_\_

Approved By Chairperson/Dean: \_\_\_\_\_

Course #	SEMESTER 1	Credits	✓
<b>ENG 101</b>	<b>Composition &amp; Literature 1</b>	<b>3</b>	
<b>MATH 135</b>	<b>College Algebra with Trigonometry</b>	<b>4</b>	
CIVIL 103	Introduction to Technology	3	
ELEC 128	Electrical Circuits	3	
ELEC 129	Digital Logic	3	

Course #	SEMESTER 2	Credits	✓
<b>ENG 102</b>	<b>Composition &amp; Literature 2</b>	<b>3</b>	
<b>MATH 165</b>	<b>Technical Mathematics with Calculus</b>	<b>4</b>	
ELEC 138	Introduction to Telecommunication	4	
ELEC 226	Computer Applications (or CAD course)	2-3	
ELEC 137	Alternating Current and Non-Sine Waves	3	
	<b>PE (fitness)-</b> _____	<b>1</b>	

Course #	SEMESTER 3	Credits	✓
ELEC 136	Data Telecommunications	4	
ELEC 208	Computer Systems for Telecommunications	3	
	Technical Elective- _____	3	
	<b>Science and Lab-</b> _____	<b>4</b>	
	<b>Behavioral, Social Science or Humanities<sup>1</sup></b> _____	<b>3</b>	

Course #	SEMESTER 4	Credits	✓
ELEC 224	Network Telecommunications	4	
ELEC 262	Telecommunications Lab	1	
	Technical Elective- _____	3	
	Technical Elective- _____	3	
	<b>Behavioral, Social Science or Humanities<sup>1</sup></b> _____	<b>3</b>	
	<b>PE (sport)-</b> _____	<b>1</b>	

***Bold italic items are Core Requirements.***

**NOTES:**

Recommended Technical Electives

- ELEC 135 Voice Telecommunications 4cr.
- ELEC 226 Pulse and Timing Logic 3cr.
- ELEC 239 Analog Amplifiers 3cr.
- ELEC 261 Computer Diagnostics 3cr.
- ELEC 264 Emerging Technologies 4cr.
- ELEC 282 Electronic Communications 3cr.

- **Behavioral Science** courses include Sociology, Psychology, Anthropology and Geography. General Psychology is the prerequisite for all upper level psychology courses.
- **Social Science** courses include History, Political Science, Economics and Geography.
- **Humanities** courses include Art, Dance, Drama, Music, Foreign Language, Film, Philosophy, Theater and Photography courses at ARTWS.

<sup>1</sup> Behavioral, Social Science or Humanities Elective - Choose a 3-credit course from 2 areas for a total of 6 credits.

# WCC SCIENCE COURSES

## Science Courses with Lab

**BIOL 101** – Biological Science (Lab) 4 credits  
**BIOL 115** – General Biology I (Lab) 4 credits  
**BIOL 121** – A & P I (Lab) 4 credits  
**BIOL 128** – Basics Biotech 3 credits  
**BIOL 203** – Basic Micro bio (Lab) 3 credits  
**CHEM 107** – Inorganic Chem I (Lab) 4 credits  
**CHEM 113** – Prin. of Inorganic Chem (Lab) 4 credits  
**CHEM 127** – Intro to Forensic Science (Lab) 4 credits  
**CHEM 162** – Topic in Science 3 credits  
**CHEM 201** – Organic Chem I (Lab) 5 credits  
**PHYS 101** – Tech Physics I (Lab) 3 credits  
**PHYS 111** – College Physics I (Lab) 4 credits  
**PHYS 121** – Engineering Physics I (Lab) 5 credits  
**PHYS 129** – Intro to Oceanography (Lab) 4 credits  
**PHYS 143** – Earth Science (Lab) 4 credits  
**PHYS 151** – Astronomy (Lab) 4 credits

**BIOL 103** – Human Biology (Lab) 4 credits  
**BIOL 117** – General Biology II (Lab) 4 credits  
**BIOL 123** – A & P II (Lab) 4 credits  
**BIOL 129** – Basics of Biotech Lab 0 credits  
**BIOL 221** – General Micro bio (Lab) 4 credits  
**CHEM 111** – Inorganic Chem II (Lab) 4 credits  
**CHEM 117** – Prin. of Organic Chem (Lab) 4 credits  
**CHEM 145** – Biochem of Addiction (Lab) 3 credits  
**CHEM 163** – Topic in Science Lab 1 credit  
**CHEM 205** – Organic Chem II (Lab) 5 credits  
**PHYS 102** – Tech Physics II (Lab) 3 credits  
**PHYS 112** – College Physics II (Lab) 4 credits  
**PHYS 122** – Engineering Physics II (Lab) 5 credits  
**PHYS 131** – Physics for Telecomm/Verizon 4 credits  
**PHYS 145** – Weather & Forecasting (Lab) 4 credits  
**PHYS 292** – Physical Geography (Lab) 4 credits

## Science Courses with/without Lab

**BIOL 143** – Environmental Science 3 credits  
**BIOL 236** – Human Genetics 3 credits

**BIOL 144** – Environmental Science Lab 1 credit  
**BIOL 237** – Human Genetics Lab 1 credit

## Science Courses without Lab

**BIOL 155** – Environmental Studies 3 credits  
**BIOL 161** – Bio of Human Sexuality 3 credits  
**PHYS 119** – Science and Survival 3 credits  
**PHYS 159** – The Solar System

**BIOL 159** – Problems in Pollution 3 credits  
**CHEM 131** – Intro to Forensic Science 3 credits  
**PHYS 120** – Physical Science Exploration 3 credits  
**PHYS 165** – Principles of Energy

## Science Courses for Specific Areas/ Curriculum

**BIOL 109C** – Basic A & P (and Lab) PN 4 credits  
**BIOL 201** – Pharmacology (Respiratory Care) 3 credits  
**BIOL 229** – Cardiopulmonary Pathology (Respiratory Care) 2 credits

**BIOL 127** – Cross Sectional Anatomy 3 credits  
**BIOL 202** – Pharmacology (For Nurses) 3 credits  
**BIOL 241** – Radiation Biology 3 credits

## Honors Science Courses

**BIOL 147H** – Psych bio (and Lab) Honors 4 credits  
**PHYS 205** – Cambridge Science – Honor

**PHYS 154H** – Life in the Universe Honors 4 credits