

PROGRAM: AAS TELECOMMUNICATION TECHNOLOGY

Division: Mathematics, Engineering and Physical Sciences

TECH-106 (914) 606-6788

64 Credits

Curriculum Chair

Professor Murray Haims

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TECH-137B

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Reviewed By: _____

Date: _____

Approved By Chairperson/Dean: _____

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

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

Course #	SEMESTER 3	Credits	✓
ELEC 136	Data Telecommunications	4	
ELEC 208	Computer Systems for Telecommunications	3	
	Technical Elective- _____	3	
	<i>Science and Lab-</i> _____	<i>4</i>	
	<i>Behavioral, Social Science or Humanities¹</i> _____	<i>3</i>	

Course #	SEMESTER 4	Credits	✓
ELEC 224	Network Telecommunications	4	
ELEC 262	Telecommunications Lab	1	
	Technical Elective- _____	3	
	Technical Elective- _____	3	
	<i>Behavioral, Social Science or Humanities¹</i> _____	<i>3</i>	
	<i>PE (sport)-</i> _____	<i>1</i>	

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.

- ***Social Science*** courses include History (HIS), Political Science (POLSC), Economics (ECON) and Geography (GEOG).
- ***Behavioral Science*** courses include Sociology (SOC), Psychology (PSYCH), Anthropology (ANTHR) and Geography (GEOG). General Psychology is the prerequisite for all upper level psychology courses.
- ***Choose ONLY those courses whose descriptions are labeled as "humanities credits" from:*** ART, DANCE, ENG, MUSIC, FILM, THEAT, ARABC, CHINS, FREN, GER, ITAL, JAPNS, RUSSN, SPAN, PHIL.

¹ 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 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 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 120 – Physical Science Exploration 3 credits
PHYS 159 – The Solar System
PHYS 165 – Principles of Energy

BIOL 159 – Problems in Pollution 3 credits
CHEM 131 – Intro to Forensic Science 3 credits
PHYS 134 – Science, Pseudoscience & Critical Thinking
PHYS 162 – Climate Change and our Future

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 205H – Cambridge Science – Honor

PHYS 154H – Life in the Universe Honors 4 credits