

PROGRAM: AAS TELECOMMUNICATION TECHNOLOGY

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

64 Credits

Curriculum Chair

Professor Murray Haims
Murray.Haims@sunywcc.edu
TECH-137B
Telephone: (914) 606-6274

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 Humanities</i> ¹ _____	<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 Humanities</i> ¹ _____	<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.

- ***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.

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 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