

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

64 Credits

Curriculum Chair
 Professor William Widulski
 TECH-101A
 Telephone: (914) 606-6235

Reviewed By: _____
Date: _____
Approved By Chairperson/Dean: _____

Course #	SEMESTER 1	Credits	✓
ENG 101	<i>Composition & Literature 1</i>	3	
MATH 140 or MATH 178 or MATH 160	<i>Mathematics, (Statistics Mathematics or Discrete Mathematics or Finite Mathematics recommended)</i>	3	
COMSC 101	Computer Programming I	3	
COMSC 118	Networking I	4	
	<i>Behavioral, Social Science or Humanities-</i> _____	3	

Course #	SEMESTER 2	Credits	✓
ENG 102	<i>Composition & Literature 2</i>	3	
PHYS 101	<i>Tech Physics I & Tech Physics I lab recommended or Any Biology, Chemistry or Physics</i>	3-4	
COMSC 124	Networking II	4	
COMSC 105	Computer Architecture I	3	
	COMSC or ELEC Elective-	3	
	<i>PE (fitness)-</i> _____	1	

Course #	SEMESTER 3	Credits	✓
COMSC 128	Networking III	4	
COMSC 116	Unix OS	3	
	<i>Mathematic or Science -</i> _____	3-4	
	<i>Liberal Arts-</i> _____	3	
	COMSC or ELEC Elective-	3	

Course #	SEMESTER 4	Credits	✓
COMSC 132	Networking IV	4	
COMSC 134	Network Administration	3	
	COMSC or ELEC Elective-	3	
	<i>Behavioral, Social Science or Humanities-</i> _____	3	
	<i>PE(Sport) -</i> _____	1	

Bold italic items are Core Requirements.

NOTES:

Prerequisite: students must possess college-level mathematics and reading skills as demonstrated by Placement Test scores indicating readiness for Analytical Reading and college level mathematics, or by previous college-level mathematics and English courses.
 Math 116 and Math 117 do not fulfill either the Math or Math/Science requirement.

Select Concentration Electives from Computer Science:

- | | | |
|----------------------------------|---|--|
| COMSC 106 IT Essential I | COMSC 108 VB GUI Development | COMSC 110 Computer Programming II |
| COMSC 119 Assembler Programming | COMSC 120 Internship in Computer Science | COMSC 121 IT Essentials 2 (NO preregs) |
| COMSC 122 Web Programming for CS | COMSC 123 Home Technology Integration | COMSC 125 Computer Architecture II |
| COMSC 136 Adv. Routing Config | COMSC 138 Remote Access (Requires Networking 4) | COMSC 130 Voice Over IP |
| COMSC 145 Computer Forensics | COMSC 201 Data Structure | COMSC 142 Network Security |
| COMSC 207 Java for CompSci | | COMSC 202 Operating Systems Concepts |

Electrical Technology:

- | | | |
|--|-------------------------------|--|
| ELEC 208 Computer Systems for Telecommunication | ELEC 128 Electrical Circuits | ELEC 140 Voice/Data Cabling Basics (No Prereg) |
| ELEC 208 Computer Systems for Telecommunications | ELEC 261 Computer Diagnostics | |

CIS:

CIS 150: Internet Technologies may be taken for elective credit.

Social Science courses include History, Political Science, Economics and Geography.

Behavioral Science courses include Sociology, Psychology, Anthropology and Geography. General Psychology is the prerequisite for all upper level psychology courses.

Humanities courses include Art, Dance, Drama, Music, Foreign Language, Film, Philosophy, Theater and Photography at ARTWS.

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