

PROGRAM: AAS NETWORKING
Division: Math, Computer, Engineering & Physical Sciences & Technologies
TECH-106 (914) 606-6788

63-65 Credits

Curriculum Chair

Professor William Widulski
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Reviewed By: _____

Date: _____

Approved By Chairperson/Dean: _____

Course #	SEMESTER 1	Credits	✓
ENG 101	<i>Composition & Literature 1</i>	3	
	<i>Mathematics</i>	3	
COMSC 106	IT Essential	3	
COMSC 118	Networking Fundamentals (Networking I)	4	
COMSC 101	Computer Programming I	3	

Course #	SEMESTER 3	Credits	✓
	<i>Science (lab recommended)-</i>	3-4	
COMSC 132	WAN Technologies (Networking IV)	4	
	COMSC or ELEC Elective-	3	
	<i>Behavioral, Social Science or Humanities-</i>	3	
	<i>PE(Sport) -</i>	1	

Course #	SEMESTER 2	Credits	✓
ENG 102	<i>Composition & Literature 2</i>	3	
COMSC 116	Linux OS	3	
COMSC 124	Routing Protocols (Networking II)	4	
COMSC 128	Switched Networks (Networking III)	4	
	<i>Behavioral, Social Science or Humanities-</i>	3	

Course #	SEMESTER 4	Credits	✓
COMSC 134	Network Administration	3	
	COMSC or ELEC Elective-	3	
	COMSC or ELEC Elective-	3	
	<i>Mathematic or Science -</i>	3-4	
	<i>Liberal Arts-</i>	3	
	<i>PE (fitness) _____</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 110 - Computer Programming II
 COMSC 136 - Advanced Routing Configuration
 COMSC 207 - Java Programming

Electrical Technology: ELEC 128 Electrical Circuits
 ELEC 218 - Introduction to Microprocessors

COMSC 100 - Introduction to Computing Concepts
 COMSC 120 - Internship in Computer Science
 COMSC 142 - Network Security
 COMSC 208A - GUI Development
 ELEC 129 - Digital Logic

COMSC 217 - Computer Architecture I
 COMSC 130 - Voice Over IP
 COMSC 201A - Data Structures
 COMSC 214A - Web Programming
 ELEC 208 Computer Systems

CIS: CIS 150 - Internet Technologies CIS 155 - Principles of Information Security (CIS) CIS 245 - Computer Penetration Testing

- ***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, COMM, DANCE, ENG, MUSIC, FILM, THEAT, ARABC, CHINS, FREN, GER, ITAL, JAPNS, RUSSN, SPAN, PHIL.

WCC SCIENCE COURSES

Science Courses with Lab

BIOL 101 – Biological Science (Lab) 4 credits	BIOL 103 – Human Biology (Lab) 4 credits
BIOL 115 – General Biology I (Lab) 4 credits	BIOL 117 – General Biology II (Lab) 4 credits
BIOL 121 – A & P I (Lab) 4 credits	BIOL 123 – A & P II (Lab) 4 credits
BIOL 128 – Basics Biotech 3 credits	BIOL 129 – Basics of Biotech Lab 0 credits
BIOL 203 – Basic Micro bio (Lab) 3 credits	BIOL 221 – General Micro bio (Lab) 4 credits
CHEM 107 – Inorganic Chem I (Lab) 4 credits	CHEM 111 – Inorganic Chem II (Lab) 4 credits
CHEM 113 – Prin. of Inorganic Chem (Lab) 4 credits	CHEM 117 – Prin. of Organic Chem (Lab) 4 credits
CHEM 127 – Intro to Forensic Science (Lab) 4 credits	CHEM 145 – Biochem of Addiction (Lab) 3 credits
CHEM 201 – Organic Chem I (Lab) 5 credits	CHEM 205 – Organic Chem II (Lab) 5 credits
PHYS 101 – Tech Physics I (Lab) 3 credits	PHYS 102 – Tech Physics II (Lab) 3 credits
PHYS 111 – College Physics I (Lab) 4 credits	PHYS 112 – College Physics II (Lab) 4 credits
PHYS 121 – Engineering Physics I (Lab) 5 credits	PHYS 122 – Engineering Physics II (Lab) 5 credits
PHYS 129 – Intro to Oceanography (Lab) 4 credits	PHYS 131 – Physics for Telecomm/Verizon 4 credits
PHYS 143 – Earth Science (Lab) 4 credits	PHYS 145 – Weather & Forecasting (Lab) 4 credits
PHYS 151 – Astronomy (Lab) 4 credits	PHYS 292 – Physical Geography (Lab) 4 credits

Science Courses with/without Lab

BIOL 143 – Environmental Science 3 credits	BIOL 144 – Environmental Science Lab 1 credit
BIOL 236 – Human Genetics 3 credits	BIOL 237 – Human Genetics Lab 1 credit

Science Courses without Lab

BIOL 155 – Environmental Studies 3 credits	BIOL 159 – Problems in Pollution 3 credits
BIOL 161 – Bio of Human Sexuality 3 credits	CHEM 131 – Intro to Forensic Science 3 credits
PHYS 120 – Physical Science Exploration 3 credits	PHYS 134 – Science, Pseudoscience & Critical Thinking
PHYS 159 – The Solar System	PHYS 162 – Climate Change and our Future
PHYS 165 – Principles of Energy	

Science Courses for Specific Areas/ Curriculums

BIOL 109C – Basic A & P (and Lab) PN 4 credits	BIOL 127 – Cross Sectional Anatomy 3 credits
BIOL 201 – Pharmacology (Respiratory Care) 3 credits	BIOL 202 – Pharmacology (For Nurses) 3 credits
BIOL 229 – Cardiopulmonary Pathology (Respiratory Care) 2 credits	BIOL 241 – Radiation Biology 3 credits

Honors Science Courses

BIOL 147H – Psych bio (and Lab) Honors 4 credits	PHYS 154H – Life in the Universe Honors 4 credits
PHYS 205H – Cambridge Science – Honor	