Curriculum Chair	Reviewed By:_____
Professor William Widulski William.Widulski@sunywcc.edu TECH-101A Telephone: (914) 606-6235	Date:_____ Approved By Chairperson/Dean: _____

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

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

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

Course #	SEMESTER 4	Credits	✓
COMSC 134	Network Administration	3	
	COMSC or ELEC Elective-_____	3	
	COMSC or ELEC Elective-_____	3	
	Mathematic or Science -_____	*3-4*	
	Liberal Arts-_____	*3*	
	PE (fitness) _____	*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 100 - Introduction to Computing Concepts   COMSC 217 - Computer Architecture I
COMSC 110 - Computer Programming II   COMSC 120 - Internship in Computer Science   COMSC 130 - Voice Over IP
COMSC 136 - Advanced Routing Configuration   COMSC 142 - Network Security   COMSC 201A - Data Structures
COMSC 207 - Java Programming   COMSC 208A - GUI Development   COMSC 214A - Web Programming
Electrical Technology: ELEC 128 Electrical Circuits   ELEC 129 - Digital Logic   ELEC 208 Computer Systems
ELEC 218 - Introduction to Microprocessors
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, DANCE, ENG, MUSIC, FILM, THEAT, ARABC, CHINS, FREN, GER, ITAL, JAPNS, RUSSN, SPAN, PHIL.

Updated 8/2013 RR

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
PHYSC 101 – Tech Physics I (Lab) 3 credits
PHYSC 111 – College Physics I (Lab) 4 credits
PHYSC 121 – Engineering Physics I (Lab) 5 credits
PHYSC 129 – Intro to Oceanography (Lab) 4 credits
PHYSC 143 – Earth Science (Lab) 4 credits
PHYSC 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
PHYSC 102 – Tech Physics II (Lab) 3 credits
PHYSC 112 – College Physics II (Lab) 4 credits
PHYSC 122 – Engineering Physics II (Lab) 5 credits
PHYSC 131 – Physics for Telecomm/Verizon 4 credits
PHYSC 145 – Weather & Forecasting (Lab) 4 credits
PHYSC 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
PHYSC 120 – Physical Science Exploration 3 credits
PHYSC 159 – The Solar System
PHYSC 165 – Principles of Energy

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

Science Courses for Specific Areas/ Curriculums

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
PHYSC 205H – Cambridge Science – Honor

PHYSC 154H – Life in the Universe Honors 4 credits