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

### Course Chair
Professor William Widulski
William.Widulski@sunywcc.edu
TECH-101A
Telephone: (914) 606-6235

### Reviewed By:
_____________________
Date: ___________________
Approved By Chairperson/Dean: ___________________

<table>
<thead>
<tr>
<th>Course #</th>
<th>SEMESTER 1</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 101</td>
<td>Composition &amp; Literature 1</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>COMSC 106</td>
<td>IT Essential</td>
<td>3</td>
</tr>
<tr>
<td>COMSC 118</td>
<td>Networking Fundamentals (Networking I)</td>
<td>4</td>
</tr>
<tr>
<td>COMSC 101</td>
<td>Computer Programming I</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course #</th>
<th>SEMESTER 2</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 102</td>
<td>Composition &amp; Literature 2</td>
<td>3</td>
</tr>
<tr>
<td>COMSC 116</td>
<td>Linux OS</td>
<td>3</td>
</tr>
<tr>
<td>COMSC 124</td>
<td>Routing Protocols (Networking II)</td>
<td>4</td>
</tr>
<tr>
<td>COMSC 128</td>
<td>Switched Networks (Networking III)</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Behavioral, Social Science or Humanities-</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course #</th>
<th>SEMESTER 3</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Science (lab recommended)-</td>
<td>3-4</td>
</tr>
<tr>
<td>COMSC 132</td>
<td>WAN Technologies (Networking IV)</td>
<td>4</td>
</tr>
<tr>
<td>COMSC or ELEC Elective-</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Behavioral, Social Science or Humanities-</td>
<td>3</td>
</tr>
<tr>
<td>PE(Sport)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course #</th>
<th>SEMESTER 4</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMSC 134</td>
<td>Network Administration</td>
<td>3</td>
</tr>
<tr>
<td>COMSC or ELEC Elective-</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>COMSC or ELEC Elective-</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mathematic or Science -</td>
<td>3-4</td>
</tr>
<tr>
<td></td>
<td>Liberal Arts-</td>
<td>3</td>
</tr>
<tr>
<td>PE (fitness)</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**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 120 - Internship in Computer Science
- COMSC 142 - Network Security
- COMSC 147 - Data Structures
- ELEC 128 Electrical Circuits
- ELEC 129 - Digital Logic
- ELEC 208 Computer Systems
- 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
- **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 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 161** – Bio of Human Sexuality 3 credits
- **PHYS 120** – Physical Science Exploration 3 credits
- **PHYS 159** – Problems in Pollution 3 credits
- **PHYS 159** – The Solar System
- **PHYS 162** – Principles of Energy
- **CHEM 131** – Intro to Forensic Science 3 credits
- **PHYS 134** – Science, Pseudoscience & Critical Thinking
- **PHYS 165** – Climate Change and our Future

**Science Courses for Specific Areas/ Curriculums**

- **BIOL 109C** – Basic A & P (and Lab) PN 4 credits
- **BIOL 120** – Pharmacology (Respiratory Care) 3 credits
- **BIOL 229** – Cardiopulmonary Pathology (Respiratory Care) 2 credits
- **BIOL 127** – Cross Sectional Anatomy 3 credits
- **BIOL 201** – 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

Updated 8/2013 RR