AS: Computer Science

Curriculum Chair: Prof. Steven Miller TECH-117 Tel # (914) 606-6274 Email: Steven.Miller@sunywcc.edu
Academic Dean: Dr. Raymond Houston TECH-106 Tel # (914) 606-6789 Email: Raymond.Houston@sunywcc.edu

	Developmental Courses as required based on placement scores
☐	**ENG 91** Writing for College 1 – Score of 4 E Code 1 and below, **30.01**
☐	**ENG 92** Writing for College 2 – Score of 6 E Code 2, **30.02**
☐	**ENG 99** Writing Studio with linked ENG 101+ - Score of 6 E Code 2, **30.02** OR successful completion of ENG 91
☐	**ESL 94** Academic Writing 1 – Score of 5 or 6 E Code 6, **20.01**.
3☐	**ESL 122** Academic Writing 2 – Score of 7 E Code 7, **21.01**
☐	**MATH 92** Pre-Algebra – Arithmetic score 44 and below, Elementary Algebra 54 and below, **40.01**
OR ☐	**MATH 93** Beginning Algebra – Arithmetic score 45 and above, Elementary Algebra 54 and below, **40.02** **MATH 94** Foundations of Mathematical Reasoning – Arithmetic score 45 and above, Elementary Algebra 54 and below, **40.02**
☐	**READ 93** Foundation of College Reading – Score of 57 and below, **10.01**
3☐	**READ 105** Analytical Reading – Score of 58 and higher **11.01**

	New General Education Requirements
3☐	**ENG 101** – Writing and Research **OR ENG 101H**
3☐	**ENG 102** – Writing and Literature **OR ENG 102H**
3☐	**MATH 178** – Discrete Mathematics: **COMSC 101 is the prerequisite.**
4☐	**MATH 181** – Calculus 1 **MATH 161 is the prerequisite. MATH 135 is the prerequisite for MATH 161.**
4☐	**MATH 191** – Calculus 2 **MATH 181 is the prerequisite.**
	NATURAL SCIENCE GENERAL ED REQUIREMENTS – Select two sequence 4 credit Science w LAB course: BIOL 115 and 117 **OR** BIOL 115H and 117H **OR** BIOL 121 and 123 **OR** CHEM 107 and 111 **OR** CHEM 201 and 205 **OR** PHYSC 111 and 112 **OR** PHYSC 121 and 122
4☐	
4☐	
	SOCIAL SCIENCES GENERAL ED REQUIREMENTS – Select a 3 credit course: **ANTHR** 101, 102, 102H, 103, 201, **CJ** 111, **ECON** 101, 101H, 102, 102H, **GEOG** 101, **HSERV** 102, 200, **LIN** 201, **POLSC** 111, 111H, 115, **PSYCH** 101, 101H, 103, 103H, 107, 109, 110, 111, 112H, 201 **SOC** 101, 101H, 102, 103, 104
3☐	
	THE ARTS, FOREIGN LANGUAGE, or OTHER WORLD CIVILIZATIONS GENERAL ED REQUIREMENTS – Select a 3/4 credit course:

	ART 101, 102, 103, 104, 105, 106, 107, 107H, 108, 109, 109A, 110, 111, 112, 125, 129, 130, 133, 134, 135, 137, 138, 140, 141, 147, 201, 203, 212, 265, **DANCE** 101, 102, 107, 112, 115, 120, 121, 205, 207, **FILM** 100, 101, 102, 130 **MUSIC** 110, 110H, 111, 120, 121, 130, 131, 132, 133, 150, 230, 231, 232, 233, **THEAT** 111, 113, 201
	ARABC 101, 102, **CHINS** 102, **FREN** 101, 102, 201, **ITAL** 101, 102, 103, 201, 201H, 202, 202H, 250, **JAPNS** 101, 102, **RUSSN** 101, **SPAN** 101, 102, 103, 104, 201, 201H, 202, 202H, 203, 204, **ANTHR** 120, 210, 215H, **HIS** 119, 128, 129, 131, **POLSC** 113, **ENG** 227
3☐/4☐	
	AMERICAN HISTORY or WESTERN CIVILIZATION GENERAL ED REQUIREMENTS – Select a 3 credit course: **ART** 108, 109, **HIS** 101, 102, 104, 106, 110, 111, 112, 121*, 133**, 134**, **POLSC** 102, 104, 107 *Students who complete this course cannot use HIS 133 or 134 to fulfill degree and/or general education requirements* **Students who complete this course cannot use HIS 121 to fulfill degree and/or general education requirements*
3☐	

Degree Requirements	
4☐	**COMSC 101** – Computer Programming 1: **Prerequisite: Placement Reading score of 80 or above or passing READ 105. MATH 181 or higher are pre/ co-requisites**.
4☐	**COMSC 110** – Computer Programming 2: **COMSC 101 with a grade of "C" or higher is the prerequisite.**
4☐	**COMSC 201** – Data Structures: **COMSC 110 with a grade of "C" or higher is the prerequisite.**
4☐	**COMSC 207** – Java Programming: **COMSC 110 with a grade of "C" or higher is the prerequisite.**
4☐	**COMSC 217** – Computer Architecture: **COMSC 101 with a grade of "C".**
3☐/4☐	**COMSC 116** – LINUX Operating System: **COMSC 101 with a grade of "C" or higher is the prerequisite.** **OR** **COMSC, Engineering or MATH ELECTIVE. (SEE NOTE BELOW)**
3☐/4☐	**COMSC, Engineering or MATH ELECTIVE. (SEE NOTE BELOW)**

SEEN BY: **Completed credits**   **of 60 required**

COMSC 101-Computer Programming I: The **Co requisite** for **COMSC 101** is **MATH 181** or **higher**. The **Prerequisite** for **COMSC 101** is a Reading Placement score >= 80 or a passing grade in **READ 105**.

COMSC 100-Intro to Computing Concepts: Students who need to take developmental courses, and so are ineligible to take **COMSC 101**, should take **COMSC 100**. It is a good alternative for students who are trying to decide between CS, CIS, Networking, or Computer Arts. Students who have never used a computer, not even for email, the internet or word processing should also take this course before taking **COMSC 101**.

Computer Science, Engineering, or Math electives (min. 6 Credits)
ELEC (Electrical Technology) – Any course
CIVIL (Civil Technology) – Any course
COMSC 106, COMSC 114, COMSC 118, COMSC 120, COMSC 121, COMSC 123, COMSC 124, COMSC 125, COMSC 128, COMSC 130, COMSC 132, COMSC 134, COMSC 136, COMSC 138, COMSC 142, COMSC 145, COMSC 208A, COMSC 214A. There is one exception, COMSC100; this is a survey course.
MATH 215, MATH 230, MATH 240.
MECH (mechanical technology) – Any course

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Academic Plan		Completed credits of 60 required			
		Fall/Spring		**Fall/Spring**	
Class	**Credits**	**Class**	**Credits**	**Class**	**Credits**
		Fall/Spring		**Fall/Spring**	
Class	**Credits**	**Class**	**Credits**	**Class**	**Credits**

September 27, 2018 AG