AS: Computer Science

Curriculum Chair: Prof. Dennis Ramos TECH-30 Tel # (914) 606-6085 Email: Dennis.Ramos@sunywcc.edu
Associate Dean: Ted Nygreen TECH-106 Tel # (914) 606-6789 Email: Ted.Nygreen@sunywcc.edu

	Developmental Courses as required based on placement scores
☐	**No Developmental Courses Required**
☐	**ENG 91** Writing for College 1 – Score of 4 E Code 1 and below
☐	**ENG 92** Writing for College 2 – Score of 6 E Code 2
☐	**ESL 94** Academic Writing 1 – Score of 5 or 6 E Code 6
3☐	**ESL 122** Academic Writing 2 (3 credits) – Score of 7 E Code 7
☐	**MATH 92** Pre-Algebra – Arithmetic score 44 and below, Elementary Algebra 54 and below
☐	**MATH 93** Beginning Algebra – Arithmetic score 45 and above, Elementary Algebra 54 and below **OR** **MATH 94** Math Literacy – Arithmetic score 45 and above, Elementary Algebra 54 and below
☐	**READ 93** Foundation of College Reading – Score of 57 and below
3☐	**READ 105** Analytical Reading (3 credits) – Score of 58 and higher

	Core Requirements
3☐	**ENG 101** – Writing and Research Choose an item.
3☐	**ENG 102** – Writing and Literature Choose an item.
	MATH 181 – Calculus 1 **Computer Science Math Requirements include MATH 181, MATH 191 and MATH 178.** Students who need to take the prerequisite courses for these required courses, (**MATH 135** and **MATH 161**), must start taking these prerequisites in the first semester. While students may need to take **MATH 135** and **MATH 161**, they will not be applied toward the degree. Computer Science students who need to take College Algebra, must take **MATH 135**-College Algebra with Trigonometry. After **MATH 135**, students must take **MATH 161**-Pre-calculus. **For more information contact the Curriculum Chair.** Choose an item.
4☐	**MATH 191** – Calculus 2 Choose an item.
	SCIENCE (BIOL), (CHEM), (PHYSC): Science courses must be taken as a pair from the following specified list of courses (8 to 10 credits) Choose an item. **PHYSC 121/122**-Engineering Physics I & II w/Lab, **PHYSC 111/112**-College Physics I & II w/Lab, **BIOL 115/117**-General Biology I & II w/Lab, **BIOL 121/123**-Anatomy & Physiology I & II w/Lab, **CHEM 107/111**-Inorganic Chemistry I & II w/Lab, or **CHEM 201/205**-Organic Chemistry I & II w/Lab.
4☐ / 5☐ 4☐ / 5☐	
	HUMANITIES: One course (3 credits) **Courses include:** ▪ Art (**ART**) 101, 103, 105, 108, 108A, 108B, 109, 109A, 125, 128, 129, 133, 139, 185, or 265. Additional fees and/or supplies may be required of **ART** classes; see catalog for details. ▪ Communications (**COMM**) 101, 103, 109, or 115 ▪ Dance (**DANCE**) 101, 102, 105, 107, 121, 205, or 207 OR A combination of three 1 credit dance classes to be chosen from **DANCE** 112, 115, 120, or 122 ▪ English (ENG) any **ENG** course **EXCEPT** ENG 101, 101H, 102, 102H, 124, or 222 CANNOT BE USED TO FULFILL Humanities elective. ▪ Film (**FILM**) 100, 101, 102, 103, 109, 113, 114H, 115H, 125, 125H, 220, 220H ▪ Foreign Language to be chosen from: **ARABC, CHINS, FREN, GER, ITAL, JAPNS, RUSSN, SPAN**. **ITAL 104** or **ITAL 105** CANNOT BE USED TO FULFILL a Foreign Language elective, but CAN BE USED TO FULFILL a Humanities elective ▪ Music (**MUSIC**) 100, 101, 102, 103, 111, 150, or 211 ▪ Philosophy (**PHIL**) 101A, 102A, 111, 150, 160, or 201H ▪ Theater (**THEAT**) 101, 103, 111, 113, or 201

	THEAT 117A is a 2 credit course which must be combined with another 1 credit approved Humanities elective.		
3☐ / 4☐			
	SOCIAL SCIENCE: One course (3 credits) **Courses include:** History (**HIS**), Political Science (**POLSC**), Economics (**ECON**), and Geography (**GEOG**). *However SS 102 and SS 105 CANNOT BE USED TO FULFILL Social Science.*		
3 ☐			
	BEHAVORIAL SCIENCE: One course (3 credits) **Courses include:** Sociology (**SOC**), Psychology (**PSYCH**), Anthropology (**ANTHR**), Linguistics (**ANTHR**), and Geography (**GEOG**). *However SS 101 and SS 103 CANNOT BE USED TO FULFILL Behavioral Science.*		
3 ☐			
	PEC/PEH/PES: A combination of two courses (2 credits) either **PEH** and **PES**, or **PEC** and **PES**, or **PEC** or **PEH**, **PEC** and **PEC**. **PEC 110** (2 credits) *IS THE ONLY COMBINIATION COURSE THAT FULFILLS BOTH P.E. REQS.*		
1 ☐		**1 ☐**	

Degree Requirements

3☐	**COMSC 101** – Computer Programming 1: **Prerequisite: Placement Reading score of 80 or above or passing READ 105. MATH 135, or MATH 161, or MATH 181, or MATH 191 are co-requisites**. Choose an item.
3☐	**COMSC 110** – Computer Programming 2: **COMSC 101 with a grade of "C" or higher is the prerequisite.** Choose an item.
3☐	**COMSC 116** – LINUX Operating System: **COMSC 101 with a grade of "C" or higher is the prerequisite. COMSC 120** – Internship in Computer Science is alternative with permission from the Computer Science Curriculum Chair. **COMSC 101, one other Computer Science course, ENG 101, and a G.P.A. of 2.5 or higher are the prerequisites.** Choose an item.
4☐	**COMSC 201A** – Data Structures: **COMSC 110 with a grade of "C" or higher is the prerequisite.** Choose an item.
3☐	**COMSC 207** – Java Programming: **COMSC 110 with a grade of "C" or higher is the prerequisite.** Choose an item.
4☐	**COMSC 208A** – GUI Development: **COMSC 207 with a grade of "C" or higher is the prerequisite. MATH 230** – Calculus 3 and **MATH 215** – Linear Algebra are alternative with permission from the Computer Science Curriculum Chair. **MATH 191 is the prerequisite for both courses.** Choose an item.
4☐	**COMSC 214A** – Web Programming: **COMSC 110 with a grade of "C" or higher is the prerequisite. MATH 230** – Calculus 3 **and MATH 215** – Linear Algebra are alternative with permission from the Computer Science Curriculum Chair. Choose an item.
4☐	**COMSC 217** – Computer Architecture: **COMSC 101 with a grade of "C" or higher and MATH 135 are the prerequisites.** Choose an item.
3☐	**MATH 178** – Discrete Mathematics: **MATH 160, 161 or 165 and COMSC 101 are the prerequisites.** Choose an item.

SEEN BY: **Completed credits   of 71 required**

COMSC 101-Computer Programming I: The **Co requisite** for **COMSC 101** is **MATH 135** or **MATH 161** or **MATH 181** or **MATH 191**.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**.

Westchester Community College
State University of New York

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Academic Plan		Completed credits		of 64 required	
		Fall/Spring		**Fall/Spring**	
Class	**Credits**	**Class**	**Credits**	**Class**	**Credits**
Fall/Spring		**Fall/Spring**			
Class	**Credits**	**Class**	**Credits**	**Class**	**Credits**

22 December 2014   RR