

Transfer Model Curriculum – Update DRAFT 11Dec2015

CCC Major: *Computer Science*

CSU Major or Majors: *Computer Science*

Total units: 28
(all units indicated are minimum semester units)

Degree Type : AS-T X

“Core” Courses –
Minimum Units 28 units (7 units double count as GE credit)

Title (typical units)	C-ID Designation	Rationale
Programming Concepts & Methodology I (CS1) (min. 3 units)	COMP 122	ACM/IEEE recommendation for a four semester introductory sequence
Programming Concepts & Methodology II (CS2) (min. 3 units)	COMP 132	
Computer Architecture & Organization (min. 3 units)	COMP 142	
Discrete Structures (min. 3 units)	COMP 152	
Single Variable Calculus I and II – Early Transcendentals (min. 8 units) or Single Variable Calculus I and II – Late Transcendentals (min. 8 units) or Single Variable Calculus Sequence (min. 8 units)	MATH 210 and 220 or MATH 211 and 221 or MATH 900S	Double count for GE B4
Calculus-Based Physics for Scientists and Engineers: A (min. 4 units)	PHYS 205	Double count for GE B1 and B3
Calculus-Based Physics for Scientists and Engineers: B (min. 4 units) or Cell and Molecular Biology (min. 4 units) or General Chemistry for Science Majors I, with Lab (min. 5 units)	PHYS 210 BIOL 190 CHEM 110	Double count for GE B2 and B3 Double count for GE B1 and B3

Summary of Feedback Including Issues and Concerns - Items of concern from the vetting process, along with the results of a direct survey of the CSUs involved (with a high response rate), were addressed: Requirement of Physics and Calculus. After reviewing the feedback, and in light of separate ABET accreditation requirements for Computer Science programs, the FDRG determined that students would continue to need both Calculus courses to be successful. To allow many more community colleges to implement this TMC, however, two alternatives to PHYS 210 were implemented which students could double-count for GE, specifically to meet Area B2.