Computer Science (Software Engineering) Flow Chart
2022 – 2023 Catalog Year

CHANDLER-GILBERT COMMUNITY COLLEGE
A MARICOPA COMMUNITY COLLEGE

STEM

	Prerequisite Courses (if needed)			Required Courses				
				1st Semester	2nd Semester	3rd Semester	4th Semester	5th Semester
MATHEMATICS:	**MAT 121/122 (3-4)** Intermediate Algebra	**MAT151/152 (3-4)** College Algebra and	**MAT 182 (3)** Trigonometry *OR* **MAT 187 (5)** Pre-Calculus	**MAT 220/221 (4-5)** Calculus I	**MAT 230/231 (4-5)** Calculus II	**MAT 240/241 (4-5)** Calculus III	**MAT 227 (3)** Discrete Mathematical Structures	
PHYSICS:		**PHY 111 (4)** General Physics I	**PHY 112 (4)** General Physics II ***OR* 1 year high school physics***	For Natural Science, please select with a Chemistry, Physics, Biology or Geology sequence. Make sure you select from the same subject area or discipline. **See second page.**				
BIOLOGY OR CHEMISTRY:			**CHM 130 (3) & CHM 130LL (1)** Fundamental Chemistry ***OR* 1 year high school chemistry*** ***AND*** eligibility for CRE 101 or grade of "C" or better in RDG 100.					
ENGINEERING:				**ECE 102 (2)** Engineering Analysis Tools & Design **CSC 110 or 110AA or 110AB (3-4)** Introduction to Computer Science	**ECE 103 (2)** Engineering Problem Solving & Design **CSC 205 or 205AA or 205AB (3-4)** Object Oriented Programming and Data Structures	**CSC/EEE 120 (4)** Digital Design Fundamentals **CSC 240 (3)** Introduction to Programming Languages	**CSC/EEE 230 (4)** Computer Organization and Assembly Language	
ENGLISH:			**WAC 101 (3)** Writing Across the Curriculum	**ENG 101 (3)** First Year Composition I	**ENG 102 (3)** First Year Composition II			
GENERAL EDUCATION:				**SB with H or G (3)** See Academic Advisor for more information.	**HU with L and C (3)** See Academic Advisor for more information. DAH 255, ENH 255, or MHL 204 recommended.	**Recommended Humanities course: ECE 150 (3)** Exploring Engineering and its impact on Society.	**HU with H or G (3)** ***AND*** **SB chosen from COM 100 or COM 110 or COM 230 (3)** Oral Communication	

A 3.0 transfer GPA as calculated by ASU for admissions is required. All courses must be completed with a grade of "C" or better. **Be sure to check MAPP (ASU Pathway Agreement) for requirements. Link to **BSE Pathway**: Pathway Agreement (asu.edu)

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Natural Science [SQ, SG]

CHM 151: General Chemistry I and CHM 151LL: General Chemistry I Laboratory or CHM 150: General Chemistry I and CHM 151LL: General Chemistry I Laboratory or CHM 150AA: General Chemistry I or CHM 151AA: General Chemistry I OR PHY 115: University Physics I or PHY 121: UNIVERSITY PHYSICS I: MECHANICS OR BIO 181: General Biology (Majors) I or BIO 181XT: General Biology (Majors) I OR GLG 101IN: Introduction to Geology I - Physical or GLG 101: Introduction to Geology I - Physical Lecture and GLG 103: Introduction to Geology I - Physical Lab	4-5 hrs	Select a Chemistry, Physics, Biology, or Geology sequence. For both Natural Science requirements, select from the same subject area or discipline.
CHM 152: General Chemistry II and CHM 152LL: General Chemistry II Laboratory or CHM 152AA: General Chemistry II OR PHY 116: University Physics II or PHY 131: University Physics II: Electricity and Magnetism OR BIO 182: General Biology (Majors) II or BIO 182XT: General Biology (Majors) II OR GLG 102IN: Introduction to Geology II - Historical or GLG 102: Introduction to Geology II - Historical Lecture and GLG 104: Introduction to Geology II - Historical Lab	4-5 hrs	Select a Chemistry, Physics, Biology, or Geology sequence. For both Natural Science requirements, select from the same subject area or discipline.

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Additional Lower Division Requirements

BIO 181: General Biology (Majors) I or BIO 181XT: General Biology (Majors) I OR CHM 150: General Chemistry I and CHM 151LL: General Chemistry I Laboratory or CHM 151: General Chemistry I and CHM 151LL: General Chemistry I or CHM 150AA: General Chemistry I or CHM 151AA: General Chemistry I OR GLG 101IN: Introduction to Geology I or GLG 101: Introduction to Geology I - Physical Lecture and GLG 103: Introduction to Geology I - Physical Lab OR PHY 115: University Physics I or PHY 121: University Physics I: Mechanics OR GLG 102IN: Introduction to Geology II - Historical Lecture or GLG 102: Introduction to Geology II - Historical Lecture and GLG 104: Introduction to Geology II - Historical Lab OR GLG 110IN: Geological Disasters and the Environment or GLG 110: Geological Disasters and the Environment and GLG 111: Geological Disasters and the Environment	0-5 hrs	Additional Lab Science requirement: select a course not already used in the Natural Science [SQ, SG] sections above. May be completed after transferring. Refer to CIDSE for Lab Science course requirements: http://cidse.engineering.asu.edu/forstudent/undergraduate/majors/computer-science-bs/degreerequirementsbscs/