CS Program Required Course Mapping to Program SLOs

Course ID	Course Title (Units)	Course Type	Prerequisites	SLO-1	SLO-2	SLO-3	SLO-4	SLO-5	SLO-6	SLO-7	SLO-8	SLO-9	SLO-10	SLO-11
CS 310	Data Structures (3)	Required	CS 108, Math 245	D	D	D			D		D	D	D	D
CS 320	Programming Languages (3)	Required	CS 108	D	D	D					D	D		
CS 370	Computer Architecture (3)	Required	CS 237	D	D	D	D				D	D		D
CS 440	Social/Legal/Ethical Issues in Computing (3)	Required	CS 108					P	D	P	D			
CS 490	Senior Seminar (1)	Required	15 units upper division CS courses					P	P	P	P			
CS 530	Systems Programming (3)	Required	CS 237, 310	P	P	P	P	D	D			P	P	P
CS 560	Algorithms and Their Analysis (3)	Required	CS 310	P	P	P						P	P	P
CS 570	Operating Systems (3)	Required	CS 310, 370 and C language	P	P	P	D	D			D	P	P	P

Legend:

I - Introductory/Novice*

D - Developing competence*

P - Proficient*

* From Wikipedia/Dreyfus model of skill acquisition

Program Student Learning Objectives:

SLO-1 Apply knowledge of computing and mathematics appropriate to the discipline

SLO-2: Analyze a problem, and identify and define the computing requirements appropriate to its solution

SLO-3: Design, implement, and evaluate a computer-based system, process, component, or program to meet desired needs

SLO-4: Function effectively on teams to accomplish a common goal

SLO-5: Honor professional, ethical, legal, security, and social issues ad responsibilities

SLO-6: Communicate effectively with a range of audiences

SLO-7: Analyze the local and global impact of computing on individuals, organizations, and society.

SLO-8: Engage in continuing professional development

SLO-9: Use current techniques, skills, and tools necessary for computing practice.

SLO-10: Apply mathematical foundations, algorithmic principles, and computer science theory in the modeling and design of computer-based systems in a way that demonstrates comprehension of the tradeoffs involved in design choices.

SLO-11: Apply design and development principles in the construction of software systems of varying complexity.