

Overall Courses

Offering	No.	Course Number	Course Title	Credits	Prerequisites	BSCS	BSIT
CSIT	1	APCT 110	Intro to Programming Lec	2	-	Core Requirements	Core Requirements
		APCT 111	Intro to Programming Lab	1			
	2	APCT 115	Foundations of Computing	3		Core Requirements	Core Requirements
	3	APCT 231	Computer Science I Lec	3		Core Requirements	Core Requirements
		APCT 233	Computer Science I Lab	1			
	4	APCT 232	Computer Science II Lec	3	APCT 231, 233 Computer Science I (Lec+Lab)	Core Requirements	Core Requirements
		APCT 234	Computer Science II Lab	1			
	5	CMOP 235	Introduction to WebPage Development and HTML Lec	2	APCT 231, 233 Computer Science I (Lec+Lab)	Core Requirements	Core Requirements
		CMOP 236	Introduction to WebPage Development and HTML Lab	1			
	6	APCT 341	Advanced Web Development	3	CMOP 235, 236 Introduction to WebPage Development and HTM (Lec+Lab)	CS Electives	IT Electives
	7	CMOP 131	Computer Networking Fundamentals Lec	3	-		Core Requirements
		CMOP 132	Computer Networking Fundamentals Lab	1			
	8	CMOP 231	Wireless Local Area Networks Lec	2	CMOP 131, 132 Computer Networking Fundamentals (Lec+Lab)		Core Requirements
		CMOP 232	Wireless Local Area Networks Lab	1			
	9	CSCI 241	Data Structures	3	APCT 231, 233 Computer Science I (Lec+Lab)	Core Requirements	
	10	CSCI 251	Assemblers & Systems Lec	3	APCT 231, 233 Computer Science I (Lec+Lab)	CS Electives	
		CSCI 253	Assemblers & Systems Lab	1			
	11	CSCI 311	Computer Organization Lec	3	APCT 231, 233 Computer Science I (Lec+Lab)	Core Requirements	IT Electives
		CSCI 313	Computer Organization Lab	1			
	12	CSCI 315	Unix and System Programming	3	APCT 232, 234 Computer Science II (Lec+Lab)	CS Electives	IT Electives
	13	CSCI 317	Multimedia Programming & Design	3	APCT 232, 234 Computer Science II (Lec+Lab)		IT Electives
	14	CSCI 325	Organization of Programming Language	3	CSCI 241 Data Structures	Core Requirements	
	15	CSCI 341	Software Engineering	3	APCT 232, 234 Computer Science II (Lec+Lab)	Core Requirements	IT Electives
	16	CSCI 342	System & Network Administration	3	CMOP 131, 132 Computer Networking Fundamentals (Lec+Lab)		Core Requirements
	17	CSCI 343	Database Administration	3	CSCI 232, 234 Computer Science II (Lec+Lab)		Core Requirements
	18	CSCI 345	Human Computer Interaction	3	Junior standing or above	CS Electives	Core Requirements
	19	CSCI 351	Computer Networks	3	CMOP 131, 132 Computer Networking Fundamentals (Lec+Lab) or CSCI 241 Data Structures	Core Requirements	IT Electives
	20	CSCI 352	Network Security	3	CMOP 131, 132 Computer Networking Fundamentals (Lec+Lab)		IT Electives
	21	CSCI 353	Information Security	3	Junior standing or above		Core Requirements
	22	CSCI 410	Theory of Computing	3	CSCI 241 Data Structures MATH 152, 156 Calculus II or equivalent MATH 213 Discrete Mathematics	Core Requirements	
	23	CSCI 412	Operating Systems	3	CSCI 311, 313 Computer Organization (Lec+Lab)	Core Requirements	IT Electives
	24	CSCI 414	Introduction to Artificial Intelligence	3	CSCI 241 Data Structures	CS Electives	
	25	CSCI 415	Computer Architecture	3	CSCI 311, 313 Computer Organization (Lec+Lab)	Core Requirements	IT Electives
	26	CSCI 424	Introduction to Compiler Design	3	CSCI 325 Organization of Programming Language	CS Electives	
	27	CSCI 434	Analysis of Algorithms	3	CSCI 241 Data Structures MATH 152, 156 Calculus II or equivalent	CS Electives	
	28	CSCI 435	Digital Image Processing	3	Junior standing or above	CS Electives	
	29	CSCI 441	Digital Forensics	3	APCT 232, 234 Computer Science II (Lec+Lab)	CS Electives	Core Requirements
	30	CSCI 451	Advanced Network Management	3	CSCI 342 System & Network Administration		IT Electives
	31	CSCI 452	Database Systems Design	3	CSCI 241 Data Structures or CSCI 343 Database Administration	Core Requirements	Core Requirements
32	CSCI 453	Secure Software Engineering	3	CSCI 341 Software Engineering	CS Electives	IT Electives	
33	CSCI 454	Computer Graphics	3	CSCI 241 Data Structures MATH 225 Linear Algebra	CS Electives		
34	CSCI 455	Cryptography	3	Senior standing or above	CS Electives	IT Electives	
35	CSCI 456	Visualization	3	CSCI 454 Computer Graphics	CS Electives		
36	CSCI 490	Special Topics	3	APCT 232, 234 Computer Science II (Lec+Lab) Junior standing or above	CS Electives	IT Electives	
37	CSCI 495	Senior Seminar	1	90+ Credit Hours	Core Requirements	Core Requirements	
38	CSCI 498	Senior Project I	2	90+ Credit Hours	Core Requirements	Core Requirements	
39	CSCI 499	Senior Project II	3	90+ Credit Hours	Core Requirements	Core Requirements	
SEAS	1	CSCI 135	Scientific Programming	3	Service Course to SEAS		