

Computer Programming Database Management - Computer Software Development Major
Engineering & Information Technologies
 2025-2026 Curriculum

Course	Title	Pre-Reqs	Lec	Lab	Credit Hours
Semester 1					
ENG-101	English Composition 1		3	0	3
FYE-100	First Year Experience		1	0	1
IT-100	Computer Programming Foundations		2	3	3
MAT-XXX	Mathematics Elective		2	2	3
PHI-110	Ethics		3	0	3
					13

Semester 2					
CPDM-210	System Analysis & Design		2	3	3
ENG-10X	English Composition Elective	ENG 101	3	0	3
IT-101	Programming 1		2	3	3
IT-111	Database Design and SQL 1		2	3	3
					12

Semester 3					
CPDM-120	Fund. of Object-Oriented Prog. Using Python	IT 101, IT 111	2	3	3
ECO-1XX	Economics Elective		3	0	3
IT-102	Programming 2	IT 101, IT 111	2	3	3
XXX-XXX	Technical Track Elective 1		2	3	3
					12

Semester 4					
IT-117	Web Application Development 1	CPDM 120, IT 102 (min grade C for both)	2	3	3
IT-161	Java Programming 1	CPDM 120, IT 102 (min grade C for both)	2	3	3
SET-151	C Programming 1	CPDM 120, IT 102 (min grade C for both)	2	3	3
XXX-XXX	Technical Track Elective 2		1	40	2
					11

Semester 5					
CPDM-290	CPDM Capstone Design Project	IT 218 or IT 262 or SET 252 or Program Chair Consent	2	3	3
IT-218	Web Application Development 2	IT 117	2	3	3
IT-262	Java Programming 2	IT 161	2	3	3
SET-252	C Programming 2	SET 151	2	3	3
					12

Total **60**

Economics Elective: ECO 105 or ECO 110

English Composition Elective: ENG 102, ENG 103, ENG 104, ENG 105

Mathematics Elective: MAT 124, MAT 125, MAT 131, MAT 151

Technical Track Electives:

Database Analytics Track: IT 112, IT 212

Experiential Learning Track (choose courses from 1 experiential learning group)

Cooperative Education: CPDM 190, CPDM 291, CPDM 292

Project-Based: CPDM 296, CPDM 297