

Computer Programming Database Management - Software Engineering Technology 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-XXX	First Year Experience Elective		1	0	1
IT-100	Computer Programming Foundations		2	3	3
MAT-XXX	Mathematics Elective		3	0	3
XXX-XXX	Arts/Humanities Elective		3	0	3
					13

Semester 2					
CPDM-210	System Analysis and Design		2	3	3
IT-101	Programming 1		2	3	3
IT-111	Database Design and SQL		2	3	3
XXX-XXX	Software Engineering Technology Elective 1		3	3	4
					13

Semester 3					
CPDM-120	Fund of Object-Orientated Prog Using Python	IT 101, IT 111	2	3	3
ECO-1XX	Economics Elective	ENG 101	3	0	3
IT-102	Programming 2	IT 101, IT 111	2	3	3
XXX-XXX	Software Engineering Technology Elective 2		3	3	4
					13

Semester 4					
XXX-XXX	Experiential Learning Elective 1		1	40	2
XXX-XXX	Technical Track Elective 1	CPDM 120, IT 102	2	3	3
XXX-XXX	Technical Concentration Elective 1	CPDM 120, IT 102	2	3	3
					8

Semester 5					
ENG-10X	English Composition Elective	ENG 101	3	0	3
XXX-XXX	Software Engineering Technology Elective 3		3	3	4
XXX-XXX	Technical Concentration Elective 2		2	3	3
XXX-XXX	Technical Track Elective 2		2	3	3
					13

Semester 6					
CPDM-290	Computer Programming & Database Mgmt Capstone	IT 218 or IT 262 or SET 252 or Program Chair Consent	2	3	3
XXX-XXX	Experiential Learning Elective 2		1	40	2
					5
					Total 65

Arts/Humanities Elective: Any Transfer Module course from ART, LIT, MUST, PHI, REL, THE, or COMM 130

Economics Elective: ECO 105, ECO 110

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

Experiential Learning Electives (Choose courses from 1 experiential learning group):

Cooperative Education: CPDM 190, CPDM 291, CPDM 292

Project-Based: CPDM 296, CPDM 297

First Year Experience: FYE 100, FYE 105, FYE 110

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

Software Engineering Technology Electives: BIO 131, CHE 110, CHE 111, MAT 126, MAT 251, MAT 252,

PHY 151, PHY 152

Technical Concentration Electives (Choose 1 concentration):

C Programmer Concentration: SET 151, SET 252

Java Programmer Concentration: IT 161, IT 262

Web Programmer Concentration: IT 117, IT 218

Technical Track Electives (Choose courses from 1 track):

C Programming Track 1: SET 151, SET 252

Computer Networking Track: NETC 121, NETC 122

Database Analytics Track: IT 112, IT 212

Game Development Track: CPDM 250, CPDM 255

IBMi Powersystem Track: CPDM 211, CPDM 212

Java Programming Track: IT 161, IT 262

Mobile Application Track: CPDM 230, CPDM 240

Web Programming Track: IT 117, IT 218