

PROGRAM BREAKDOWN

BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

CONCENTRATION IN SOFTWARE DEVELOPMENT

LOWER DIVISION GENERAL EDUCATION COURSES

LOWER DIVISION GENERAL EDUCATION COURSES (15.0 CREDITS REQUIRED)

COURSE NUMBER	COURSE NAME	CREDIT HOURS
ORAL COMMUNICATIONS		
ENGL 100	Language and Speech Communications	3.0 credit hours
ENGL 115	Fundamentals of Public Speaking	3.0 credit hours
SPC 200	Speech and Public Speaking	3.0 credit hours
HUMANITIES		
PHIL 102	Legal and Ethical Issues	3.0 credit hours
PHIL 200	Introduction to Philosophy	3.0 credit hours
MATHEMATICS		
MATH 102	College Algebra	3.0 credit hours
ENGLISH		
ENGL 200	English Composition I	3.0 credit hours
BEHAVIORAL SCIENCE / SOCIAL ENVIRONMENT		
PSY 201	Psychology	3.0 credit hours
SOC 210	Sociology	3.0 credit hours

UPPER DIVISION GENERAL EDUCATION COURSES

UPPER DIVISION GENERAL EDUCATION COURSES (15.0 CREDITS REQUIRED)

ENGLISH		
ENGL 302	English Composition II	3.0 credit hours
FOREIGN LANGUAGE		
SPN 310	Conversational Spanish	3.0 credit hours
NATURAL SCIENCE		
BSC 310	General Biology	3.0 credit hours
ECONOMICS		
ECON 302	Principles of Economics (Microeconomics)	3.0 credit hours
ECON 303	Macroeconomics	3.0 credit hours

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BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

LOWER DIVISION MAJOR COURSES

LOWER DIVISION MAJOR COURSES (45 CREDITS REQUIRED)

COURSE NUMBER	COURSE NAME	CREDIT HOURS
CIT 102	Introduction to Computer Programming	3.0 credit hours
CIT 105	Programming Practice	3.0 credit hours
CIT 110	Computer Operating Systems	3.0 credit hours
CIT 225	Management Information Systems	3.0 credit hours
CIT 280	Network Design	3.0 credit hours
CIT 281	Network Administration and Technical Support	3.0 credit hours
CIT 282	Advanced Network Administration	3.0 credit hours
CIT 283	Networking on Azure and AWS	3.0 credit hours
CIT 381	Linux Technology	3.0 credit hours
CIT 382	Cloud Technology Developer	3.0 credit hours
CIT 383	Advanced Cloud Technology Architect	3.0 credit hours
CIT 384	Manage Cloud Technology Identities	3.0 credit hours
CIT 385	Cloud Technology Compute Services	3.0 credit hours
Elective		3.0 credit hours
Elective		3.0 credit hours

UPPER DIVISION MAJOR COURSES

UPPER DIVISION MAJOR COURSES (30 CREDITS REQUIRED)

CIT 406	Database Design	3.0 credit hours
CIT 407	T-SQL: Queries Design and Tuning	3.0 credit hours
CIT 408	Database Management Operations & Optimization	3.0 credit hours
CIT 410	Non-SQL Databases	3.0 credit hours
CIT 411	Programming with Python	3.0 credit hours
CIT 480	Security Technology	3.0 credit hours
CIT 481	Security Ethical Hacking	3.0 credit hours
CIT 482	Security Analyst	3.0 credit hours
CIT 483	Information Systems Security	3.0 credit hours
CIT 484	Advanced Information Systems Security	3.0 credit hours

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BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

TECHNICAL AND SPECIALIST MAJOR COURSES

CERTIFICATIONS SOFTWARE DEVELOPMENT

TECHNICAL AND SPECIALIST MAJOR COURSES (18 CREDITS REQUIRED)

COURSE NUMBER	COURSE NAME	CREDIT HOURS
CSD 420	Computer Programming Methodology	3.0 credit hours
CSD 430	Discrete Structures in Computing	3.0 credit hours
CSD 440	Programming Languages	3.0 credit hours
CSD 450	Software Engineering and Architecture	3.0 credit hours
CSD 460	System Analysis and Design	3.0 credit hours
CSD 470	Software Development	3.0 credit hours

ELECTIVE COURSES

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CIT 386	Cloud Network Design	3.0 credit hours
CIT 387	IaaS: Cloud Virtualization	3.0 credit hours
CIT 388	PaaS: Google App Services	3.0 credit hours
CIT 389	PaaS: AWS App Services	3.0 credit hours
CIT 390	PaaS: Azure App Services	3.0 credit hours