

BACHELOR OF SCIENCE IN APPLIED COMPUTER SCIENCE

2024-2025 Degree Requirements

Name _____ ID# _____

TOTAL CREDITS FOR DEGREE: 121

UNIVERSITY CORE CURRICULUM: 42 credits

Required Fundamental Courses:

COMM 101	Oral Comm. & Pres.	3 credits	_____
ENGL 101	College Composition	3 credits	_____
UNIV 101	City-University Life	3 credits	_____
Senior Capstone	CMPS 480	3 credits	_____ (Senior Project)

Choose Thematic Core courses in the following:

Explore the World - Choice 1		3 credits	_____
Explore the World - Choice 2		3 credits	_____
Investigate Science		3 credits	_____
Investigate Mathematics	MATH 180	3 credits	_____ (College Algebra)
Interpret Creative Works		3 credits	_____
Understand People - Choice 1		3 credits	_____
Understand People - Choice 2		3 credits	_____
Succeed in Business		3 credits	_____
Appreciate & Apply the Arts		3 credits	_____
Discover Technology		3 credits	_____

BUSINESS CORE REQUIREMENTS: 31 cr.

MATH 175 Elementary Statistics (3)	_____
ACCT 210 Intro to Financial Acctg (3)	_____
BMGT 201 Business Law I (3)	_____
BMGT 280 Business Career Prep (1)	_____
MKTS 205 Principles of Marketing (3)	_____
HRM 205 People and the Environment (3)	_____
CMPS 163 Business Analytics (3)*	_____
CMPS 101 Intro to Applied Computer Science (3)	_____
ACCT 220 Mgmt Accounting for Decision Makers (3)	_____
FIN 300 Financial Management (3)	_____
ECON 202 Microeconomics (3)	_____

MAJOR REQUIREMENTS: 21 cr.

CMPS 160 Databases (3)	_____
CMPS 161 Networking and Security (3)	_____
CMPS 162 Intro to Programming (3)	_____
CMPS 260 Data Structures (3)	_____
CMPS 261 Server Mgmt (3)	_____
CMPS 262 Adv Programming (3)	_____
ECON 201 Macroeconomics (3)	_____

MAJOR ELECTIVES: EITHER choose 18 cr. From the following

BMGT 380 Cooperative Ed I (6)	_____
BMGT 480 Cooperative Ed II (6)	_____
CMPS 355 Internship in Info Tech I (3)	_____
CMPS 356 Internship in Info Tech II (3)	_____
CMPS 360 Survey of Prog Lang (3)	_____
CMPS 361 Web App Dev (3)	_____
CMPS 362 Networking (3)	_____
CMPS 363 Digital Security (3)	_____
CMPS 364 NoSQL Databases (3)	_____
CMPS 460 Mobile App Dev (3)	_____
CMPS 461 Big Data App (3)	_____
CMPS 462 Data Mining (3)	_____
Special Topics/Ind Study Courses (1-6)	_____

* **BMGT 338 Quantitative Analysis for Business Decision Making (3)**
OR **CMPS 163 Business Analytics (3)**

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Or Complete A Concentration: 18 cr

Software Development

CMPS 360 Survey of Programm (3)

CMPS 361 Web Applications (3)

CMPS 460 Mobile App Dev. (3)

CMPS _____ (3)

CMPS _____ (3)

CMPS _____ (3)

General Electives: 9 cr*

_____ (3)

_____ (3)

_____ (3)

*MATH 190 is recommended if graduate study is anticipated.

Big Data & Analytics

CMPS 364 NoSQL Databases (3)

CMPS 461 Big Data App (3)

CMPS 462 Data Mining (3)

CMPS _____ (3)

CMPS _____ (3)

CMPS _____ (3)

Networking and Security

CMPS 362 Networking (3)

CMPS 363 Digital Security (3)

CMPS _____ (3)

CMPS _____ (3)

CMPS _____ (3)

CMPS _____ (3)

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PROGRAM OBJECTIVES

Upon successful completion of this program, a student will be able to:

1. Analyze, integrate, and communicate complex information to facilitate management decision making.
2. Work well with others and with a demonstrated appreciation of individual differences and a sensitivity to diversity.
3. Clearly communicate thoughts and ideas both verbally and in writing.
4. Apply major Applied Computer Science concepts within the traditional areas of business.
5. Apply professional, ethical, and legal standards within a diverse global environment.
6. Apply Applied Computer Science tools and techniques to meet the needs and expectations of the workplace.