BACHELOR OF SCIENCE IN APPLIED COMPUTER SCIENCE
2025-2026 Degree Requirements

Name _____ ID# _____

TOTAL CREDITS FOR DEGREE: 120

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: 21 cr.

ACCT 210 Intro to Financial Acctg (3)	_____
BMGT 201 Business Law I (3)	_____
FIN 200 Intro to Financial Management (3)	_____
MKTS 205 Principles of Marketing (3)	_____
HRM 205 People and the Environment (3)	_____
CMPS 163 Business Analytics (3)	_____
ECON 202 Microeconomics (3)	_____

MAJOR REQUIREMENTS: 30 cr.

CMPS 101 Intro to Applied Computer Science (3)*	_____
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)*	_____
ACCT 220 Mgmt Accounting for Decision Makers (3)	_____
MATH 175 Elementary Statistics (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 Comp Sci I (3)	_____
CMPS 356 Internship in Comp Sci 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)	_____

* Courses that can be taken in the University Core, allowing for a Major Course Substitution of your choosing:

CMPS 101 Intro to Applied Computer Science

ECON 201 Macroeconomics

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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)

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)

General Electives: 9 cr*

_____ (3)

_____ (3)

_____ (3)

*MATH 190 is recommended if graduate study is anticipated.

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PROGRAM OBJECTIVES

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

1. Critical Thinking: Analyze data to facilitate decision making.

2. Teamwork: Collaborate productively in a team setting by utilizing collaboration tools.

3. Communication: Clearly communicate thoughts and ideas both verbally and in writing.

4. Business Knowledge: Apply major Applied Computer Science concepts within the traditional areas of business.

5. Business Environment: Apply professional, ethical, and legal standards within a diverse global environment.

6. Analysis & Technology Utilization: Apply Applied Computer Science tools and techniques to meet the needs and expectations of the workplace.