

BACHELOR OF SCIENCE IN APPLIED COMPUTER SCIENCE

2021-2022 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	_____

Choose Thematic Core courses in the following:

Explore the World - Choice 1	ECON 201	3 credits	_____
Explore the World - Choice 2		3 credits	_____
Investigate Science		3 credits	_____
Investigate Mathematics	MATH 180	3 credits	_____
Interpret Creative Works		3 credits	_____
Understand People - Choice 1	PSYC 150	3 credits	_____
Understand People - Choice 2		3 credits	_____
Succeed in Business	BMGT 234	3 credits	_____
Appreciate & Apply the Arts		3 credits	_____
Discover Technology	CMPS 114	3 credits	_____

BUSINESS CORE REQUIREMENTS: 34 cr.

MATH 175 Elementary Statistics	3	_____
ACCT 210 Intro to Financial Acctg	3	_____
ACCT 220 Managerial Accounting	3	_____
BMGT 201 Business Law I	3	_____
MKTS 205 Principles of Marketing	3	_____
HRM 207 Human Resource Mgmt	3	_____
BMGT 280 Business Career Prep	1	_____
FIN 300 Corporate Finance	3	_____
BMGT 338 Operations Mgmt/QA	3	_____
BMGT 340 Org Behav w/Topics	3	_____
CMPS 300 Info Tech for Managers	3	_____
ECON 202 Prin. of Microecon	3	_____

MAJOR REQUIREMENTS: 36 cr.

CMPS 160 Databases	3	_____
CMPS 161 Networking and Security	3	_____
CMPS 162 Intro to Programming	3	_____
CMPS 163 Business Analytics	3	_____
CMPS 260 Data Structures	3	_____
CMPS 261 Server Mgmt	3	_____
CMPS 262 Adv Programming	3	_____

EITHER

Choose 15 cr. from the following:

BMGT 208 Principles of Mgmt	3	_____
BMGT 380 Cooperative Ed I	6	_____
BMGT 480 Cooperative Ed II	6	_____
CMPS 214 Microcomputing I	3	_____
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 330 Electric Commerce I	3	_____
CMPS 430 Electric Commerce II	3	_____
CMPS 460 Mobile App Dev	3	_____
CMPS 461 Big Data App	3	_____
CMPS 462 Data Mining	3	_____
CMPS 463 Entrepr for Software Dev	3	_____
CMPS 464 Software Dev E-Comm	3	_____
Special Topics/Ind Study Courses	1-6	_____

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Or Complete A Concentration: 15 cr

Software Development

CMPS 360 Survey of Programm	3	_____
CMPS 361 Web Applications	3	_____
CMPS 460 Mobile App Dev.	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	_____

Networking and Security

CMPS 362 Networking	3	_____
CMPS 363 Digital Security	3	_____
CMPS * _____	3	_____
CMPS * _____	3	_____
CMPS* _____	3	_____

General Electives: 9 cr

_____	3 credits
_____	3 credits
_____	3 credits

** courses to be selected from EITHER list*

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PROGRAM OBJECTIVES

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

1. Clearly communicate thoughts and ideas both verbally and in writing.
2. Apply information technology tools and techniques to meet the needs and expectations of the workplace.
3. Analyze, integrate and communicate complex information to facilitate management decision making.
4. Gather, analyze, and evaluate critical information from within applied computer science
5. Work well with others and with a demonstrated appreciation of individual difference and a sensitivity to diversity
6. Apply major applied computer science concepts within the traditional areas of business.