# BACHELOR OF SCIENCE IN APPLIED COMPUTER SCIENCE
## *2020-2021 Degree Requirements*

Name: _____          ID Number: _____

### 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 | **ECON 201** | 3 credits | **(Principles of Macroeconomics)** |
| 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 | **PSYC 150** | 3 credits | **(Psychological Foundations)** |
| Understand People - Choice 2 | | 3 credits | |
| Succeed in Business | **BMGT 234** | 3 credits | **(Ethical Leadership)** |
| Appreciate & Apply the Arts | | 3 credits | |
| Discover Technology | **CMPS 114** | 3 credits | **(Problem Solving with IT)** |

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### 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 Resources 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)

### CHOOSE EITHER 15 CREDITS FROM BELOW OR CONCENTRATION ON PG 2

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 E-Commerce I (3)
CMPS 430 E-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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### Concentrations (15 Credits)

#### Software Development

CMPS 360 Survey of Programming (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)

*\* courses to be selected from "Choose 15" list on pg. 1*

*Concentration must be declared through the Office of the Registrar. If no concentration is declared, student will follow the 15 credits on pg. 1 by default.*

## General Electives (9 credits)

_____

_____

_____

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## *2020-2021 Degree Requirements*

## PROGRAM OBJECTIVES
**Upon successful completion of this program, a student will be able to:**
1. Work well with others and with a demonstrated appreciation of individual differences and a sensitivity to diversity.
2. Clearly communicate thoughts and ideas both verbally and in writing.
3. Apply information technology tools and techniques to meet the needs and expectations of the workplace.
4. Analyze, integrate, and communicate complex information to facilitate management decision-making.
5. Apply theory and practice in solving organizational problems.