# BACHELOR OF SCIENCE IN APPLIED COMPUTER SCIENCE
## *2023-2024 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 | _____ |

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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 and Sales | 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_____

*\* courses to be selected from EITHER list*

### General Electives:  9 cr

_____ 3 credits

_____3 credits

_____3 credits

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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.