

Bachelor of Applied Science (BAS) in Information Technology

2018-2019 Degree Requirements

BAS degrees require a minimum of 60 credits of 300 and 400 level courses

Major Courses

| Course | No. | Course Title | Credits | Qtr. Completed | Comments/Substitution |
|--------|-----|--|---------|----------------|-----------------------|
| CS | 101 | Intro to Computers & Information Technology | 5 | | |
| CS | 102 | Programming Fundamentals <i>or</i> | 5 | | |
| CS& | 131 | Computer Science I C++ | 5 | | |
| CS | 106 | Database Systems | 5 | | |
| CS | 117 | Computer Ethics | 2 | | |
| CS | 118 | Customer Service | 3 | | |
| CS& | 141 | Computer Science I Java | 5 | | |
| CS | 150 | Computer Security | 5 | | |
| CS | 162 | C++2 <i>or</i> | 5 | | |
| CS | 202 | Programming Fundamentals 2 | 5 | | |
| CS | 206 | Database Design | 5 | | |
| CS | 221 | SQL Server Administration | 5 | | |
| CS | 225 | SQL Server Programming | 5 | | |
| CS | 228 | Windows Server | 5 | | |
| CS | 232 | Network Security | 5 | | |
| CS | 236 | Advanced Object Oriented Programming | 5 | | |
| CS | 250 | HTML 5- JavaScript/JQuery | 5 | | |
| CSIT | 301 | Information Systems | 5 | | |
| CSIT | 306 | Big Data and Analysis | 5 | | |
| CSIT | 311 | Python for Data Processing | 5 | | |
| CSIT | 316 | Cloud Computing HTML5 and PHP | 5 | | |
| CSIT | 401 | Information Systems Analysis and Design | 5 | | |
| CSIT | 411 | Agile Methodology & ePortfolio Planning | 5 | | |
| CSIT | 416 | Data Visualization | 5 | | |
| CSIT | 421 | IT Capstone | 5 | | |
| CSIA | 310 | E-Commerce Security <i>or</i> an CSIA course 300-level <i>or</i> above | 5 | | |

Subtotal 115

Major Support

| Course | No. | Course Title | Credits | Qtr. Completed | Comments/Substitution |
|--------|-----|------------------------------------|---------|----------------|-----------------------|
| PROJ | 100 | Introduction to Project Management | 5 | | |

Subtotal 5

General Education

| Course | No. | Course Title | Credits | Qtr. Completed | Comments/Substitution |
|--|--|--|---------|----------------|-----------------------|
| Communication (select 10 credits) | | | | | |
| ENGL& | 101 | English Composition I | 5 | | |
| ENGL& | 102 | Composition II or | 5 | | |
| ENGL& | 235 | Technical Writing or | 5 | | |
| ENGL | 410 | Professional & Organizational Communication | 5 | | |
| Quantitative/Symbolic Reasoning (select 5 credits from the list below) | | | | | |
| MATH& | 141, 142, 144, 146, 148, 151, 152, 153 | | 5 | | |
| Social & Behavioral Sciences (select 10 credits) | | | | | |
| PSYC& | 100+ | General Psychology or above or | 5 | | |
| SOC& | 101 | Intro to Sociology or | 5 | | |
| SOC& | 201 | Social Problems or | 5 | | |
| ECON | 305 | Managerial Economics ¹ or | 5 | | |
| SOC | 305 | Cybercrime: A Sociological Perspective | 5 | | |
| Humanities (10 credits) | | | | | |
| ICS | 310 | American Diversity | 5 | | |
| PHIL | 305 | Professional Ethics | 5 | | |
| Mathematical & Natural Science (select 10 credits) | | | | | |
| ENVS | 310 | Environmental Science or any course from this distribution list | 5 | | |
| | | Choose a lab science from this distribution list | 5 | | |
| Additional Electives from the above distribution lists (select 15 credits) | | | | | |
| Program advisor approved Communication, Quantitative/Symbolic Reasoning, Social & Behavioral Sciences, Humanities, or Mathematical & Natural Sciences | | | | | |
| | | | 5 | | |
| | | | 5 | | |
| | | | 5 | | |

Subtotal 60

Total Credits Required 180

*Course selections must meet the distribution requirements for the AA or BAS degree.

¹Combination of ECON& 201 and 202 can be substituted for ECON 305.

DEGREE NOTES:

- Students must earn a minimum 2.0 grade in all CSIA and CSIT courses.
- Students must earn a minimum 2.5 grade in all CS courses.
- Required minimum cumulative GPA 2.0.
- MATH 094 or MATH 095 or Math 096 or MATH 098 with minimum grade 2.0 is prerequisite for all programming classes.
- At least one-third of the college-level, degree applicable credits must be taken at CBC.