

# Pathway to the BAAC



## Computer Programming – Internet of Things (CPIN) to Bachelor of Applied Computing

Computer Programming – Internet of Things (CPIN) pathway students receiving entry into semester 4 of BAAC will progress through the following terms:

| Spring Semester                        |                             |         |
|----------------------------------------|-----------------------------|---------|
| SEMESTER 4                             |                             | CREDITS |
| CMP1979                                | Modern Software Development | 3       |
| NET4314                                | Cloud Computing             | 3       |
| Two Degree Breadth Elective Courses. 1 |                             | 6       |
| Credits                                |                             | 12      |

| Third Year                |                            |         |
|---------------------------|----------------------------|---------|
| SEMESTER 5                |                            | CREDITS |
| CMP5334                   | Project Management         | 3       |
| CMP5371                   | Project Proposal           | 3       |
| CMP3321                   | Web Development I          | 3       |
| CMP1361                   | Professional Ethics        | 3       |
| CMP3332                   | System Analysis and Design | 3       |
| 3 Stream Elective courses |                            | 9       |
| Credits                   |                            | 24      |

| SEMESTER 6                |                        |    |
|---------------------------|------------------------|----|
| CMP6362                   | Business Essentials    | 3  |
| CMP6372                   | Project Implementation | 3  |
| CMP4322                   | Web Development 2      | 3  |
| 4 Stream Elective courses |                        | 12 |
| Credits                   |                        | 21 |

| SEMESTER 7                  |                         |    |
|-----------------------------|-------------------------|----|
| SUMMER INTERNSHIP SEMESTER. |                         |    |
| CMP7373                     | Applied Comp Internship | 12 |
| Credits                     |                         | 12 |

Stream Electives for Artificial Intelligence stream (BAAI)

| SEMESTER 5 |                                  | CREDITS |
|------------|----------------------------------|---------|
| AIE1005    | Full Stack Data Science          | 3       |
| AIE1009    | Machine Learning                 | 3       |
| AIE1006    | Deep Learning                    | 3       |
| SEMESTER 6 |                                  |         |
| AIE1017    | Gen AI and Large Language Models | 3       |
| AIE1018    | AI Deployment and MLOps          | 3       |
| AIE1030    | Autonomous AI Systems            | 3       |
| AIE1011    | AI Ethics                        | 3       |

Stream Electives for Cybersecurity stream (BACS)

| SEMESTER 5 |                               | CREDITS |
|------------|-------------------------------|---------|
| CSC7304    | Business Contingency Planning | 3       |
| CSC7303    | Network Defense               | 3       |
| CSC7305    | CSEC Policies and Compliance  | 3       |
| SEMESTER 6 |                               |         |
| CSC7311    | Ethical Hacking               | 3       |
| CSC7314    | Cloud Security and Prevention | 3       |
| CSC7310    | IT Security Forensics         | 3       |
| CSC7315    | Security Operations Centre    | 3       |

Stream Electives for Data Analytics stream (BADA)

| SEMESTER 5 |                               | CREDITS |
|------------|-------------------------------|---------|
| ANA7303    | Data Collection and Ethics    | 3       |
| AIE1009    | Machine Learning              | 3       |
| ANA7312    | GIS and Data Visualization    | 3       |
| SEMESTER 6 |                               |         |
| QMM7311    | Advanced Stats for Analytics  | 3       |
| ANA7304    | Dashboards and Data Modelling | 3       |
| ANA7311    | Storytelling With Data        | 3       |
| MKT7300    | Data Mining and Mkt Analytics | 3       |