

1. Applicants must satisfy any one of the following:
 - a. Completed ICT133 Structured Programming or
 - b. Introduction to Python course in Datacamp* or
 - c. Python course in Kaggle*

*Applicants must submit evidence of course completion

2. As part of the graduation requirement, students must complete at least 10 CU of level 3 courses & above from the minor.”

| MINOR CORE - 30 cu | | | | | | | | | | | | | |
|--------------------|---|--------------|--------|--------|--------|--------|-------------------|---|---------------|----------------------|----------|---|---------|
| Code | Name | Credit Units | Jan 22 | Jul 22 | Jan 23 | Jul 23 | Last Presentation | Time Table | Pre-requisite | Excluded Combination | Grouping | Remarks | Lab* |
| ANL201 | Data Visualisation for Business | 5 | Y | N | Y | N | 2026/07 | RUN01-THURSDAY TERM 1 WEEK 2 Every Week RUN02-THURSDAY TERM 1 WEEK 2 Every Week VRUN01-THURSDAY TERM 1 WEEK 2 Every Week | | ANL315 | | Please note that the attempt period for the Pre-Course Quiz will start before this course commences. Students who fail to attain at least 60% for the Pre-Course Quiz will be deemed to have withdrawn from the course. | NON-LAB |

| Code | Name | Credit Units | Jan 22 | Jul 22 | Jan 23 | Jul 23 | Last Presentation | Time Table | Pre-requisite | Excluded Combination | Grouping | Remarks | Lab* |
|--------|---|--------------|--------|--------|--------|--------|-------------------|--|---------------|----------------------|----------|--|---------|
| ANL303 | Fundamentals of Data Mining | 5 | Y | Y | Y | Y | 2026/07 | RUN01-TUESDAY TERM 1 WEEK 2 Every Week RUN02-TUESDAY TERM 1 WEEK 2 Every Week VRUN01-TUESDAY TERM 1 WEEK 2 Every Week | | | | Non BSBA students strongly advised to have taken BUS105 or equivalent. Please note that the attempt period for the Pre-Course Quiz will start before this course commences. Students who fail to attain at least 60% for the Pre-Course Quiz will be deemed to have withdrawn from the course. | NON-LAB |
| DSM101 | Mathematical Foundations for Data Science | 5 | Y | N | Y | N | 2026/07 | FRIDAY TERM 1 WEEK 1 Every Week | NIL | | | Not offered to BSMA & BSHMA students | NON-LAB |
| ENG335 | Machine Learning | 5 | N | Y | N | Y | 2027/07 | WEDNESDAY WEEK 2 Alternate Week | | ENG313 | | Labs will be conducted on weekends. Python programming | LAB |

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|--------|---|--------------|--------|--------|--------|--------|-------------------|--|---------------|----------------------|----------|--|------|
| ICT162 | Object Oriented Programming | 5 | Y | Y | Y | Y | 2026/07 | RUN02-FRIDAY TERM 2 WEEK 1 Every Week RUN03-THURSDAY TERM 2 WEEK 1 Every Week RUN04-FRIDAY TERM 2 WEEK 1 Every Week | | ICT201 or ICT272 | | First, RUN01 is Thursday, RUN02 is Friday. Second, Excluded combination may be removed upon appeal on a case by case basis | LAB |
| ICT330 | Database Management Systems | 5 | Y | Y | Y | Y | 2024/07 | MONDAY TERM 1 WEEK 1 Every Week | | ICT321 | | | LAB |

MINOR ELECTIVE - 10 cu

| Code | Name | Credit Units | Jan 22 | Jul 22 | Jan 23 | Jul 23 | Last Presentation | Time Table | Pre-requisite | Excluded Combination | Grouping | Remarks | Lab* |
|--------|--|--------------|--------|--------|--------|--------|-------------------|---|---------------|----------------------|----------|---|---------|
| ANL305 | Association and Clustering | 5 | N | Y | N | Y | 2026/07 | RUN01-TUESDAY TERM 2 WEEK 2 Every Week VRUN01-TUESDAY TERM 2 WEEK 2 Every Week | | | | -*ANL305e can be taken in the same semester as ANL303e. Please note that the attempt period for the Pre-Course Quiz will start before this course commences. Students who fail to attain at least 60% for the Pre-Course Quiz will be deemed to have withdrawn from the course. | NON-LAB |

| Code | Name | Credit Units | Jan 22 | Jul 22 | Jan 23 | Jul 23 | Last Presentation | Time Table | Pre-requisite | Excluded Combination | Grouping | Remarks | Lab* |
|---------|---|--------------|--------|--------|--------|--------|-------------------|--|---------------|----------------------|----------|--|---------|
| ANL307 | Predictive Modelling | 5 | Y | N | Y | N | 2026/07 | RUN01-WEDNESDAY TERM 1 WEEK 1 Every Week RUN02-WEDNESDAY TERM 1 WEEK 1 Every Week VRUN01-WEDNESDAY TERM 1 WEEK 1 Every Week | | | | -Must have taken and passed ANL303e first. Please note that the attempt period for the Pre-Course Quiz will start before this course commences. Students who fail to attain at least 60% for the Pre-Course Quiz will be deemed to have withdrawn from the course. | NON-LAB |
| BME363e | Applications of Artificial Intelligence in Healthcare | 5 | N | Y | N | Y | 2026/07 | TUESDAY TERM 2 WEEK 1 Every Week | Nil | Nil | Nil | Fully online course with 2 hrs virtual office hours weekly | NON-LAB |

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|--------|--|--------------|--------|--------|--------|--------|-------------------|---|---------------|----------------------|----------|---|---------|
| BUS362 | IT-Enabled Business Transformation | 5 | Y | Y | Y | Y | 2026/07 | RUN01-THURSDAY TERM 1 WEEK 1 Every Week RUN03-THURSDAY TERM 1 WEEK 1 Every Week VRUN01-THURSDAY TERM 1 WEEK 1 Every Week | | BUS361 | | Please note that the attempt period for the Pre-Course Quiz will start before this course commences. Students who fail to attain at least 60% for the Pre-Course Quiz will be deemed to have withdrawn from the course. | NON-LAB |
| EAS401 | Robotics Mechanics and Control | 5 | N | Y | N | Y | 2027/07 | THURSDAY WEEK 1 Every Week | ICT162 | | | | LAB |
| ENG233 | Internet of Things (IoT) | 5 | Y | Y | Y | Y | 2027/07 | WEDNESDAY WEEK 2 Alternate Week | | ENG303 | | Labs will be conducted on weekends. Complete ICT133 and ICT162 | LAB |

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|--------|--|--------------|--------|--------|--------|--------|-------------------|--|---------------------|----------------------|----------|---|---------|
| FIN383 | Financial Technologies and Innovations | 5 | Y | N | Y | N | 2026/07 | RUN01-TUESDAY TERM 2 WEEK 2 Every Week RUN02-TUESDAY TERM 2 WEEK 2 Every Week | ICT162 | | | Please note that the attempt period for the Pre-Course Quiz will start before this course commences. Students who fail to attain at least 60% for the Pre-Course Quiz will be deemed to have withdrawn from the course. | NON-LAB |
| FIN385 | Blockchain Technology and Smart Contract for Finance | 5 | Y | N | Y | N | 2025/07 | RUN01-THURSDAY TERM 2 WEEK 1 Every Week RUN02-THURSDAY TERM 2 WEEK 1 Every Week | FIN207 or FIN301 | | | Please note that the attempt period for the Pre-Course Quiz will start before this course commences. Students who fail to attain at least 60% for the Pre-Course Quiz will be deemed to have withdrawn from the course. | NON-LAB |
| ICT233 | Data Programming | 5 | Y | Y | Y | Y | 2026/07 | TUESDAY TERM 1 WEEK 2 Every Week | | ICT203 | | Students should have taken ICT162 or a similar course prior to this course. | LAB |

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|---------|--|--------------|--------|--------|--------|--------|-------------------|--|--|----------------------|----------|---|---------|
| ICT239 | Web Application Development | 5 | Y | Y | Y | Y | 2026/07 | TUESDAY TERM 2 WEEK 2 Every Week | | ICT205 | | Students should have taken ICT162 or a similar course prior to this course. | LAB |
| ICT337 | Big Data Computing in the Cloud | 5 | N | Y | N | Y | 2024/07 | TUESDAY TERM 2 WEEK 1 Every Week | Exposure to Distributed Computing and Python | | | | LAB |
| ICT338e | Information Security Challenges in Smart Computing | 5 | N | Y | N | Y | 2025/07 | TUESDAY TERM 2 WEEK 1 Every Week | Foundation knowledge of computer security | ICT309 | | | LAB |
| ICT348 | Information Security Offence Defence and Incident Management | 5 | Y | Y | Y | Y | 2024/07 | WEDNESDAY TERM 2 WEEK 1 Every Week | | ICT212 | | | LAB |
| MKT355 | Multivariate Analysis | 5 | Y | N | N | N | 2022/01 | RUN01-MONDAY TERM 2 WEEK 1 Every Week RUN02-MONDAY TERM 2 WEEK 1 Every Week | | BMSZ321 | | Students are advised to take BUS105e before enrolling in this course. Please note that the window to complete the pre-course quiz for this course will end before the course commences. Students who fail to achieve at least 60% on the pre-course quiz will be withdrawn from the course. | NON-LAB |

| Code | Name | Credit Units | Jan 22 | Jul 22 | Jan 23 | Jul 23 | Last Presentation | Time Table | Pre-requisite | Excluded Combination | Grouping | Remarks | Lab* |
|---------|--|--------------|--------|--------|--------|--------|-------------------|--|---------------|----------------------|----------|---|---------|
| MKT360 | Internet & Social Media Marketing | 5 | N | Y | N | N | 2022/07 | RUN01-WEDNESDAY TERM 2 WEEK 2 Every Week RUN02-WEDNESDAY TERM 2 WEEK 2 Every Week | Nil | | | Please note that the window to complete the pre-course quiz for this course will end before the course commences. Students who fail to achieve at least 60% on the pre-course quiz will be withdrawn from the course. | NON-LAB |
| MTD366e | Online Channel Creation & Management | 5 | Y | N | Y | N | 2023/07 | RUN01-TUESDAY TERM 2 WEEK 1 Every Week RUN02-TUESDAY TERM 2 WEEK 1 Every Week | | | | | NON-LAB |
| MTD369 | Virtual Reality and Augmented Reality | 5 | Y | N | Y | N | 2023/07 | RUN01-MONDAY TERM 2 WEEK 1 Every Week RUN02-MONDAY TERM 2 WEEK 1 Every Week | | | | | LAB |
| MTH355 | Basic Mathematical Optimization | 5 | Y | N | Y | N | 2026/07 | RUN01-TUESDAY TERM 1 WEEK 1 Every Week RUN02-TUESDAY TERM 1 WEEK 1 Every Week | | MTH310 | | | NON-LAB |
| MTH356 | Advanced Mathematical Optimization | 5 | Y | N | Y | N | 2026/07 | TUESDAY TERM 2 WEEK 1 Every Week | | MTH309 | | | NON-LAB |

* Students will be required to attend classes on day of presentation as well as on weekends or all classes may be on weekends.

