

# Faculty of Science

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|                                                           | Confirmation of employment and worksite access                                                                            | Comprehensive Curriculum Vitae (CV) | Confirmation of Prospective Supervisor | Departmental form | Evidence of written academic work | Final school-leaving results | Honours research project | Letter of motivation | Portfolio | Proof of professional registration with an | Research proposal | Statement of research interest | Summary of Master's research |
| DOCUMENTS REQUIRED Marked YES (Y)                         |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
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| <b>HONOURS PROGRAMMES</b>                                 |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| <b>Bachelor of Science Honours (BScHons)</b>              |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Applied Mathematics                                       |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Biochemistry                                              |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Biodiversity and Ecology                                  |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Bioinformatics and Computational Biology                  |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Chemistry                                                 |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Computer Science                                          |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Earth Sciences                                            |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| <i>Genetics</i>                                           |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| <i>GeoInformatics</i>                                     |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Mathematics                                               |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Microbiology                                              |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| <i>Operations Research</i>                                |                                                                                                                           | Y                                   |                                        |                   |                                   |                              |                          | Y                    |           |                                            |                   |                                |                              |
| Physics                                                   |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Physiological Sciences                                    |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| <i>Plant Biotechnology</i>                                |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| Polymer Science                                           |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
| <i>Wine Biotechnology</i>                                 |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          | Y                    |           |                                            |                   |                                |                              |

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|                                                                    |                                                                                                                           |                                     |                                        |                   |                                   |                              |                          |                      |           |                                            |                   |                                |                              |
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## MASTER'S PROGRAMMES

### MASTER'S PROGRAMMES BY COURSEWORK (includes a minor research component)

| <b>Master of Science (MSc)</b>               |  |   |   |  |  |  |  |   |  |  |  |   |  |
|----------------------------------------------|--|---|---|--|--|--|--|---|--|--|--|---|--|
| Machine Learning and Artificial Intelligence |  | Y | Y |  |  |  |  | Y |  |  |  | Y |  |
| Mathematical Sciences                        |  |   |   |  |  |  |  |   |  |  |  |   |  |
| <i>Operations Research</i>                   |  | Y | Y |  |  |  |  | Y |  |  |  | Y |  |

### MASTER'S PROGRAMMES BY RESEARCH

| <b>Master of Science (MSc)</b>              |  |   |   |  |   |  |  |   |  |  |  |   |  |
|---------------------------------------------|--|---|---|--|---|--|--|---|--|--|--|---|--|
| Applied Mathematics*                        |  |   | Y |  |   |  |  |   |  |  |  |   |  |
| Biochemistry*                               |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Bioinformatics and Computational Biology*   |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Botany*                                     |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Chemistry*                                  |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Computer Science*                           |  |   | Y |  |   |  |  |   |  |  |  |   |  |
| Earth Sciences*                             |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| <i>Genetics*</i>                            |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| <i>Geography and Environmental Studies*</i> |  |   |   |  | Y |  |  | Y |  |  |  | Y |  |
| <i>Geoinformatics*</i>                      |  |   |   |  |   |  |  | Y |  |  |  |   |  |
| Mathematics*                                |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Microbiology*                               |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| <i>Operations Research*</i>                 |  | Y |   |  |   |  |  | Y |  |  |  |   |  |
| Physical and Mathematical Analysis          |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Physics*                                    |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Physiological Sciences*                     |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| <i>Plant Biotechnology*</i>                 |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Polymer Science*                            |  |   | Y |  |   |  |  |   |  |  |  | Y |  |
| Zooology*                                   |  |   | Y |  |   |  |  |   |  |  |  | Y |  |

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## DOCTORAL PROGRAMMES

### Doctor of Philosophy (PhD)

|                                             |  |   |   |  |   |  |  |   |  |  |  |   |   |
|---------------------------------------------|--|---|---|--|---|--|--|---|--|--|--|---|---|
| Applied Mathematics*                        |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Biochemistry*                               |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Bioinformatics and Computational Biology*   |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Botany*                                     |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Chemistry*                                  |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Computer Science*                           |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Earth Sciences*                             |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Genetics                                    |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| <i>Geography and Environmental Studies*</i> |  |   |   |  | Y |  |  | Y |  |  |  | Y | Y |
| <i>Geoinformatics*</i>                      |  |   |   |  | Y |  |  | Y |  |  |  | Y | Y |
| Mathematics*                                |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Microbiology*                               |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Physical and Mathematical Analysis*         |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Physics*                                    |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Physiological Sciences*                     |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| <i>Plant Biotechnology*</i>                 |  | Y | Y |  |   |  |  |   |  |  |  | Y | Y |
| Polymer Science*                            |  |   | Y |  |   |  |  |   |  |  |  | Y |   |
| Zoology*                                    |  |   | Y |  |   |  |  |   |  |  |  | Y |   |

\* Applicants must consult a prospective academic supervisor who is active in their field of research interest prior to submitting a formal application to SU