**WALTER SISULU UNIVERSITY**

**FACULTY OF NATURAL SCIENCES**

**PROGRAMME OFFERINGS AND MINIMUM ADMISSION REQUIREMENTS – 2021**

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| **DEPARTMENT NAME** | **MATHEMATICAL SCIENCES AND COMPUTING (MSC)** |
| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE IN APPLIED STATISTICAL SCIENCE** | **QUALIFICATION CODE** |  **WS5672** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH (4) |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
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| **OTHER RECOMMENDED SUBJECTS** | A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission into the Mainstream Programme provided s/he has achieved a minimum APS score of 13. The APS Score is based on three subjects: English, Mathematics and Physical Science. |

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| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE IN MATHEMATICS** | **QUALIFICATION CODE** | **WS5673**  |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH (4) |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
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| **OTHER RECOMMENDED SUBJECTS** | A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission into the Mainstream Programme provided s/he has achieved a minimum APS score of 13. The APS Score is based on three subjects: English, Mathematics and Physical Science. |

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| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE IN APPLIED MATHEMATICS** | **QUALIFICATION CODE** | **WS5674**  |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH (4) |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  |  |  |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** | A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission into the Mainstream Programme provided s/he has achieved a minimum APS score of 13. The APS Score is based on three subjects: English, Mathematics and Physical Science. |
| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE IN COMPUTER SCIENCE** | **QUALIFICATION CODE** | **WS5675**  |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH (4) |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  |  |  |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** | A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission into the Mainstream Programme provided s/he has achieved a minimum APS score of 13. The APS Score is based on three subjects: English, Mathematics and Physical Science. |

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| **DEPARTMENT NAME** | **BIOLOGICAL AND ENVIRONMENTAL SCIENCES (BES)** |
| **QUALIFICATION NAME** | **DIPLOMA IN PEST MANAGEMENT**  | **QUALIFICATION CODE** | **WS5606** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (F) OR SG (E) | ENGLISH 3 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG (F) OR SG (E) | MATHEMATICS 3 |  |  |  |
|  | PHYSICAL SCIENCES HG (F) OR SG (E) | PHYSICAL SCIENCES 3 |  |  |  |
|  | BIOLOGY HG (E) OR SG (D) | LIFE SCIENCES 4 |  |  |  |

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| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (PEST MANAGEMENT)** | **QUALIFICATION CODE** | **WS5607** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH 4 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  | BIOLOGY HG (E) OR SG (D) | LIFE SCIENCES 4 |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** | A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission provided s/he has achieved a minimum APS score of 13. The APS Score is based on three subjects: English, Mathematics and Physical Science. |

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| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (BIOLOGICAL SCIENCES)** | **QUALIFICATION CODE** | **WS5609** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH 4 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  | BIOLOGY HG (E) OR SG (D) | LIFE SCIENCES 4 |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** | A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission into the Mainstream Programme provided s/he has achieved a minimum APS score of 13. The APS Score is based on three subjects: English, Mathematics and Physical Science. |

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| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (ENVIRONMENTAL STUDIES)** | **QUALIFICATION CODE** | **WS5612** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH 4 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  |  |  |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** | BIOLOGY HG (E) OR SG (D) | LIFE SCIENCES 4 |  |  |  |
|  | TOURISM HG (E) OR SG (D) | TOURISM 4 |  |  |  |
|  | GEOGRAPHY HG (E) OR SG (D) | GEOGRAPHY 4 |  |  |  |
|  | AGRICULTURAL SCIENCE HG (E) OR SG (D) | AGRICULTURAL SCIENCE 4 |  |  |  |
| A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission into the Mainstream Programme provided s/he has achieved a minimum APS score of 13. The APS Score is based on three subjects: English, Mathematics and Physical Science. |

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| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (BIOLOGICAL SCIENCES) EXTENDED PROGRAMME** | **QUALIFICATION CODE** | **WS5615** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH 4 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  | BIOLOGY HG (E) OR SG (D) | LIFE SCIENCES 4 |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** | A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission into the Extended Programme provided s/he has achieved a minimum APS score of 12. The APS Score is based on three subjects: English, Mathematics and Physical Science. |

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| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (ENVIRONMENTAL STUDIES) EXTENDED PROGRAMME** | **QUALIFICATION CODE** | **WS5616** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATES TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH 4 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG (E) OR SG (D) | MATHEMATICS 4 |  |  |  |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** | BIOLOGY HG (E) OR SG (D) | LIFE SCIENCES 4 |  |  |  |
|  | TOURISM HG (E) OR SG (D) | TOURISM 4 |  |  |  |
|  | GEOGRAPHY HG (E) OR SG (D) | GEOGRAPHY 4 |  |  |  |
|  | AGRICULTURAL SCIENCE HG (E) OR SG (D) | AGRICULTURAL SCIENCE 4 |  |  |  |
| A candidate who has attained a HG (F) or SG (E) or Level 3 in any of the major subjects may qualify for admission into the Extended Programme provided s/he has achieved a minimum APS score of 12. The APS Score is based on three subjects: English, Mathematics and Physical Science. |

**PROGRAMME OFFERINGS AND MINIMUM ADMISSION REQUIREMENTS FOR 2021**

 **DEPARTMENT OF CHEMICAL AND PHYSICAL SCIENCES (CPS)**

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| **FACULTY NAME** | **NATURAL SCIENCES** |
| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (CHEMISTRY)** | **QUALIFICATION CODE** | **WS5676** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATE TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor** | **Bachelor** | **Bachelor** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH (4) |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG ( E) OR SG (D) | MATHEMATICS 4 |  |  | School results, degree or diploma certificates to be evaluated by Universities South Africa (USAf |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  |  |  |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** |  |
| A candidate who has attained a HG (F) or SG (E) or Level 3 in any **one** of these three major subjects may qualify for admission.  |
| **FACULTY NAME** | **NATURAL SCIENCES** |
| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (PHYSICS)** | **QUALIFICATION CODE** | **WS5624** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATE TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor** | **Bachelor** | **Bachelor** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH 4 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG (E) OR SG (D) | MATHEMATICS 4 |  |  | School results, degree or diploma certificates to be evaluated by Universities South Africa (USAf |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
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| **OTHER RECOMMENDED SUBJECTS** |  |  |  |  |  |
|  |  |  |  |  |  |
| A candidate who has attained a HG (F) or SG (E) or Level 3 in any **one** of these three major subjects may qualify for admission. |

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| **FACULTY NAME** | **NATURAL SCIENCES** |
| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (CHEMISTRY) EXTENDED PROGRAMME** | **QUALIFICATION CODE** | **WS5684** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATE TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH 4 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG (E) OR SG (D) | MATHEMATICS 4 |  |  | School results, degree or diploma certificates to be evaluated by Universities South Africa (USAf |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  |  |  |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** |  |
| A candidate who has attained a HG (F) or SG (E) or Level 3 in any **two** of these three major subjects may qualify for admission. |

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| **FACULTY NAME** | **NATURAL SCIENCES** |
| **QUALIFICATION NAME** | **BACHELOR OF SCIENCE (PHYSICS) EXTENDED PROGRAMME** | **QUALIFICATION CODE** | **WS5682** |
|  | **MATRIC OR MATRIC EQUIVALENT CERTIFICATE TYPES** |
|  | **SENIOR CERTIFICATE –****OLD MATRIC** | **NATIONAL SENIOR CERTIFICATE** | **NATIONAL CERTIFICATE VOCATIONAL** | **N3-N6 CERTIFICATE** | **INTERNATIONAL CERTIFICATES** |
| **ENDORSEMENT** | **Full exemption/****School leaving** | **Bachelor/Diploma** | **Bachelor/Diploma** | **Bachelor/Diploma** | **O-Levels** |
|  | ENGLISH HG (E) OR SG (D) | ENGLISH 4 |  |  |  |
| **COMPULSORY SUBJECTS** | MATHEMATICS HG (E) OR SG (D) | MATHEMATICS 4 |  |  | School results, degree or diploma certificates to be evaluated by Universities South Africa (USAf |
|  | PHYSICAL SCIENCES HG (E) OR SG (D) | PHYSICAL SCIENCES 4 |  |  |  |
|  |  |  |  |  |  |
| **OTHER RECOMMENDED SUBJECTS** |  |  |  |  |  |
| A candidate who has attained a HG (F) or SG (E) or Level 3 in any **two** of these three major subjects may qualify for admission. |