**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 |  | |  | |  |
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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. | | | | | | |
| **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 |  | |  | |  |
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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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| **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 |  | |  | |  |
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| **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 | |  | | | |  | | | |  |
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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. | | | | | | | | | | | | | | | |
| **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** |  | | |  | |  | | | |  | | | |  | |
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| 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 |  |  | |  | |
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| **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 |  | |  | |  |
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| **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. | | | | | | | | |