



Faculty of Engineering & the Built Environment NSC (National Senior Certificate) Entrance Requirements

2023

These are guidelines for applicants who are writing or have written the South African National Senior Certificate (NSC), including IEB and SACAI writers. Admission is based on a faculty point score (FPS) and/or a weighted point score (WPS).

Calculating the EBE Faculty Points Score (FPS)

The EBE FPS is a score out of 600, and is calculated by adding the percentages for NSC English and NSC Mathematics, plus four other subjects as specified below:

- Engineering Programmes, Construction Studies and Geomatics Programmes: Score English, Mathematics and Physical Science and the three next best subjects excluding Life Orientation.
- Property Studies Programme: Score English and Mathematics and the four next best subjects excluding Life Orientation.
- Architectural Studies Programme: Score English and Mathematics and the four next best subjects excluding Life Orientation. Selection into the Bachelor of Architectural Studies is competitive and based on the EBE FPS or WPS as well as the Architecture portfolio score. The Portfolio Score will be the lead indicator.

Calculating the EBE Weighted Point Score (WPS)

The WPS is calculated by adjusting the EBE FPS by a disadvantage factor of between 0% and 10%.

For example, if the disadvantage factor is 7%, the $WPS = FPS + (7\% \times FPS)$. If there is zero disadvantage factor, then the FPS and WPS are the same. The disadvantage factor is based on data the applicant provides about their school and family backgrounds and is only applicable to South African citizens and permanent residents.

Offer levels

Please see the next page for the FPS/WPS and subject levels required for possible, likely, and guaranteed admission in each programme.

- In Band A admission is guaranteed if the FPS and subject levels are achieved.
- In Band B admission is likely if the WPS and subject levels are achieved.
- In Band C admission is possible if the FPS and subject levels are achieved, and the applicant is in the Redress 1 or 2 categories (South African Black or Coloured).

2022/2023 OFFER LEVELS FOR AN ACADEMIC PLACE

	BAND A Admission Guaranteed	BAND B Admission Likely	BAND C Admission Possible
	<i>All applicants</i>	<i>All applicants</i>	<i>Targeted redress race groups 1 and 2 only</i>
Chemical Engineering	FPS 500 Mathematics \geq 80% Physical Sciences \geq 70%	WPS 480 Mathematics \geq 80% Physical Sciences \geq 70%	FPS 420 Mathematics \geq 80% Physical Sciences \geq 70%
Civil Engineering	FPS 500 Mathematics \geq 80% Physical Sciences \geq 70%	WPS 480 Mathematics \geq 80% Physical Sciences \geq 70%	FPS 420 Mathematics \geq 80% Physical Sciences \geq 70%
Mechanical Engineering and Mechanical & Mechatronic Engineering	FPS 500 Mathematics \geq 80% Physical Sciences \geq 75%	WPS 480 Mathematics \geq 80% Physical Sciences \geq 75%	FPS 420 Mathematics \geq 80% Physical Sciences \geq 75%
Electrical Engineering, Electrical & Computer Engineering and Mechatronics	FPS 500 Mathematics \geq 80% Physical Sciences \geq 70%	WPS 480 Mathematics \geq 80% Physical Sciences \geq 70%	FPS - 420 Mathematics \geq 80% Physical Sciences \geq 70%
Architectural Studies	FPS 450 English 50% Mathematics 50% 75% Architecture Portfolio Score	WPS 408 English 50% Mathematics 50% 68% Architecture Portfolio Score	FPS 348 English 50% Mathematics 50% 50% Architecture Portfolio Score
Construction Studies	FPS 450 Mathematics \geq 65% Physical Sciences \geq 60%	WPS 420 Mathematics \geq 65% Physical Sciences \geq 55%	FPS 390 Mathematics \geq 65% Physical Sciences \geq 55%
Property Studies	FPS 450 Mathematics \geq 65%	WPS 420 Mathematics \geq 65%	FPS 390 Mathematics \geq 65%
Geomatics	FPS 450 Mathematics \geq 75% Physical Sciences \geq 70%	WPS 420 Mathematics \geq 65% Physical Sciences \geq 60%	FPS 390 Mathematics \geq 65% Physical Sciences \geq 60%

Note: Maths Literacy or Technical Maths cannot be substituted for Maths, and Technical Science cannot be substituted for Physical Science.