



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

**2022**

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.

**2021/2022 OFFER LEVELS FOR AN ACADEMIC PLACE**

	<b>BAND A Admission Guaranteed</b>	<b>BAND B Admission Likely</b>	<b>BAND C Admission Possible</b>
	<i>All applicants</i>	<i>All applicants</i>	<i>Targeted redress race groups 1 and 2 only</i>
<b>Chemical Engineering</b>	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%
<b>Civil Engineering</b>	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%
<b>Mechanical Engineering and Mechanical &amp; Mechatronic Engineering</b>	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%
<b>Electrical Engineering, Electrical &amp; Computer Engineering and Mechatronics</b>	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%
<b>Architectural Studies</b>	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
<b>Construction Studies</b>	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%
<b>Property Studies</b>	FPS 450 Mathematics $\geq$ 65%	WPS 420 Mathematics $\geq$ 65%	FPS 390 Mathematics $\geq$ 65%
<b>Geomatics</b>	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%