



Faculty of Engineering & the Built Environment NSC (National Senior Certificate) Entrance Requirements for 2021

CLOSING DATE FOR APPLICATIONS IS 31 JULY 2020

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).

Applicants must submit at least grade 11 results to be considered for an early offer. Interim grade 12 results from the June and September examinations may also be needed in order to be considered for an offer.

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.

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.

National Benchmark Tests (NBTs)

All applicants normally resident in South Africa (including non-South African citizens) must write the NBTs in Academic Literacy, Quantitative Literacy and Mathematics. Scores in the Intermediate or Proficient ranges (see www.nbt.ac.za for details) are required for all programmes in the faculty. The results of these tests may be used for placement purposes; for example, on the basis of NBT results an applicant may be offered a place in the ASPECT (extended) Engineering and Geomatics programmes.

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

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 510 Mathematics $\geq 80\%$ Physical Sciences $\geq 70\%$ NBT scores of Proficient for AL, QL and Maths	WPS 480 Mathematics $\geq 80\%$ Physical Sciences $\geq 70\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths	FPS 420 Mathematics $\geq 80\%$ Physical Sciences $\geq 70\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths
Civil Engineering	FPS 500 Mathematics $\geq 75\%$ Physical Sciences $\geq 70\%$ NBT scores of Proficient for AL, QL and Maths	WPS 480 Mathematics $\geq 75\%$ Physical Sciences $\geq 70\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths	FPS 450 Mathematics $\geq 75\%$ Physical Sciences $\geq 70\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths
Mechanical Engineering and Mechanical & Mechatronic Engineering	FPS 510 Mathematics $\geq 80\%$ Physical Sciences $\geq 75\%$ NBT scores of Proficient for AL, QL and Maths	WPS 480 Mathematics $\geq 80\%$ Physical Sciences $\geq 75\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths	FPS 420 Mathematics $\geq 80\%$ Physical Sciences $\geq 70\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths
Electrical Engineering, Electrical & Computer Engineering and Mechatronics	FPS 500 Mathematics $\geq 80\%$ Physical Sciences $\geq 70\%$ NBT scores of Proficient for AL, QL and Maths	WPS 480 Mathematics $\geq 80\%$ Physical Sciences $\geq 70\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths	FPS 450 Mathematics $\geq 80\%$ Physical Sciences $\geq 70\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths
Architectural Studies	FPS 450 English 50% Mathematics 50% 75% Architecture Portfolio Score NBT scores of Proficient for AL, QL and Maths	WPS 408 English 50% Mathematics 50% 68% Architecture Portfolio Score NBT scores of Intermediate or Proficient for AL, QL and Maths	FPS 348 English 50% Mathematics 50% 50% Architecture Portfolio Score NBT scores of Intermediate or Proficient for AL, QL and Maths
Construction Studies	FPS 450 Mathematics $\geq 65\%$ Physical Sciences $\geq 60\%$ NBT scores of Proficient for Maths and Intermediate for AL and QL	WPS 420 Mathematics $\geq 65\%$ Physical Sciences $\geq 55\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths	FPS 390 Mathematics $\geq 65\%$ Physical Sciences $\geq 55\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths
Property Studies	FPS 450 Mathematics $\geq 65\%$ NBT scores of Proficient for Maths and Intermediate for AL and QL	WPS 420 Mathematics $\geq 65\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths	FPS 390 Mathematics $\geq 65\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths
Geomatics	FPS 450 Mathematics $\geq 75\%$ Physical Sciences $\geq 70\%$ NBT scores of Proficient for AL, QL and Maths	WPS 420 Mathematics $\geq 65\%$ Physical Sciences $\geq 60\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths	FPS 390 Mathematics $\geq 65\%$ Physical Sciences $\geq 60\%$ NBT scores of Intermediate or Proficient for AL, QL and Maths