

University of Pretoria Yearbook 2021

BScHons Applied Science Metallurgy Welding Technology (12243036)

Department Materials Science and Metallurgical Engineering

Minimum duration of study 1 year

Total credits 150

NQF level 08

Programme information

The successful completion of NFM 701 Basic Physical Metallurgy 701 through Enterprises at UP is compulsory for students with a first degree of BTech or BSc.

The BScHons (Applied Science) degree is conferred by the following academic departments:

- Chemical Engineering
- Civil Engineering
- Industrial and Systems Engineering
- Materials Science and Metallurgical Engineering
- Mechanical and Aeronautical Engineering
- Mining Engineering

Any specific module is offered on the condition that a minimum number of students are registered for the module, as determined by the relevant head of department and the Dean. Students must consult the relevant head of department in order to compile a meaningful programme, as well as on the syllabi of the modules. The relevant departmental postgraduate brochures must also be consulted.

Admission requirements

1. Three-year BSc (or equivalent) degree (in Natural Sciences) with a cumulative weighted average of at least 60% for the degree **or** relevant BTech qualification excluding the National Diploma; i.e. one offered by a department of civil engineering at a university of technology in South Africa with a cumulative weighted average of at least 75% for the degree and no modules failed in the BTech degree **or** four-year engineering-based university degree not recognised by ECSA for registration as a professional engineer **or** BEng degree awarded by the University of Pretoria **or** relevant four-year bachelor's degree in engineering that the Engineering Council of South-Africa (ECSA) regards as acceptable for registration as a candidate engineer and for eventual registration as a professional engineer
2. An entrance examination may be required
3. Comprehensive intellectual CV



Curriculum: Final year

Minimum credits: 150

Core modules

[Fabrication engineering 700](#) (NFE 700) - Credits: 30.00

[Research project 700](#) (NLO 700) - Credits: 30.00

[Welding metallurgy 700](#) (NSW 700) - Credits: 30.00

[Welding processes 700](#) (NWP 700) - Credits: 30.00

[Design of welded structures 701](#) (NWP 701) - Credits: 30.00

The information published here is subject to change and may be amended after the publication of this information. The [General Regulations \(G Regulations\)](#) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the [General Rules](#) section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.