
University of Pretoria Yearbook 2016

BScHons Applied Science Applied Science: Metallurgy (12243022)

Duration of study 1 year

Total credits 128

Programme information

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 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

An appropriate bachelor's degree, a BTech degree or equivalent qualification.

Other programme-specific information

A limited number of appropriate modules from other departments and from other divisions of Chemical Engineering are allowed. Not all modules listed are presented each year. Please consult the departmental postgraduate brochure.



Curriculum: Final year

Minimum credits: 128

Core modules

Basic physical metallurgy 701 (NFM 701) - Credits: 32.00

Basic extractive metallurgy 701 (NHM 701) - Credits: 32.00

Basic pyrometallurgy 701 (NPM 701) - Credits: 32.00

Elective modules

Project management 780 (IPK 780) - Credits: 16.00

Electrometallurgy 700 (NEL 700) - Credits: 32.00

Physical metallurgy 700 (NFM 700) - Credits: 32.00

Heat treatment 700 (NHB 700) - Credits: 32.00

Hydrometallurgy 700 (NHM 700) - Credits: 32.00

Corrosion 700 (NKR 700) - Credits: 32.00

Mechanical metallurgy 700 (NMM 700) - Credits: 32.00

Minerals processing 700 (NMP 700) - Credits: 32.00

Metallurgical analysis 700 (NPA 700) - Credits: 16.00

Pyrometallurgy 700 (NPM 700) - Credits: 32.00

Welding metallurgy 700 (NSW 700) - Credits: 32.00

Refractory materials 700 (NVM 700) - Credits: 32.00

Basic statistical methods 797 (SHC 797) - Credits: 24.00

Welding processes 700 (NWP 700) - Credits: 32.00

Design of welded structures 701 (NWP 701) - Credits: 32.00

Applied theory of sampling for minerals processing 701 (NMP 701) - Credits: 32.00

Fabrication engineering 700 (NFE 700) - Credits: 32.00

Nuclear reactor materials 700 (NNR 700) - Credits: 32.00

Mathematical modelling of metallurgical processes and materials 780 (NWM 780) - Credits: 32.00

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