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# University of Pretoria Yearbook 2019

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## BScHons Applied Science Metallurgy (12243007)

**Minimum duration of study** 1 year

**Total credits** 120

### 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 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

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.



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## Curriculum: Final year

### Minimum credits: 120

NLO 700 is a compulsory research module (30 credits).  
Select one of the other three core modules listed (30 credits) and two modules from the list of electives (60 credits).

### Core modules

- Basic physical metallurgy 701 (NFM 701) - Credits: 30.00
- Basic extractive metallurgy 701 (NHM 701) - Credits: 30.00
- Research project 700 (NLO 700) - Credits: 30.00
- Basic pyrometallurgy 701 (NPM 701) - Credits: 30.00

### Elective modules

- Electrometallurgy 700 (NEL 700) - Credits: 30.00
- Fabrication engineering 700 (NFE 700) - Credits: 30.00
- Physical metallurgy 700 (NFM 700) - Credits: 30.00
- Heat treatment 700 (NHB 700) - Credits: 30.00
- Hydrometallurgy 700 (NHM 700) - Credits: 30.00
- Corrosion 700 (NKR 700) - Credits: 30.00
- Mechanical metallurgy 700 (NMM 700) - Credits: 30.00
- Minerals processing 700 (NMP 700) - Credits: 30.00
- Applied theory of sampling for minerals processing 701 (NMP 701) - Credits: 30.00
- Pyrometallurgy 700 (NPM 700) - Credits: 30.00
- Froth flotation 700 (NSF 700) - Credits: 30.00
- Welding metallurgy 700 (NSW 700) - Credits: 30.00
- Refractory materials 700 (NVM 700) - Credits: 30.00
- Welding processes 700 (NWP 700) - Credits: 30.00
- Design of welded structures 701 (NWP 701) - Credits: 30.00

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