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# University of Pretoria Yearbook 2020

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## Physical chemistry A 716 (CMY 716)

**Qualification** Postgraduate

**Faculty** [Faculty of Natural and Agricultural Sciences](#)

**Module credits** 10.00

**Programmes** [BScHons Chemistry](#)

**Prerequisites** No prerequisites.

**Contact time** 1 discussion class per week for 4 weeks, 6 lectures per week for 4 weeks

**Language of tuition** Module is presented in English

**Department** Chemistry

**Period of presentation** Semester 1 or Semester 2

### Module content

Crystallography: theoretical principles, symmetry elements and operations, point groups, space groups, theory of crystals, X-rays, crystallographic techniques, structure determinations, powder diffraction and crystallographic data bases.

Molecular modelling: molecular structure/energy, methodology, principles and and molecular surfaces.

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