



University of Pretoria Yearbook 2018

Algebra 381 (WTW 381)

Qualification Undergraduate

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

Module content Group theory: Definition, examples, elementary properties, subgroups, permutation groups, isomorphism, order, cyclic groups, homomorphisms, factor groups. Ring theory: Definition, examples, elementary properties, ideals, homomorphisms, factor rings, polynomial rings, factorisation of polynomials. Field extensions, applications to straight-edge and compass constructions.

Module credits 18.00

Programmes [BCom](#)

[BSc Computer Science](#)

[BSc Applied Mathematics](#)

[BSc Geology](#)

[BSc Mathematical Statistics](#)

[BSc Mathematics](#)

Service modules Faculty of Education

Faculty of Economic and Management Sciences

Faculty of Humanities

Prerequisites WTW 114 and WTW 211

Contact time 1 tutorial per week, 2 lectures per week

Language of tuition Afrikaans and English are used in one class

Department Mathematics and Applied Mathematics

Period of presentation Semester 1

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