

COURSE DETAIL

INTRODUCTORY ALGEBRA

Country

South Africa

Host Institution

University of Cape Town

Program(s)

University of Cape Town

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

114

UCEAP Course Suffix**UCEAP Official Title**

INTRODUCTORY ALGEBRA

UCEAP Transcript Title

INTRO ALGEBRA

UCEAP Quarter Units

4.00

UCEAP Semester Units

2.70

Course Description

Study the fundamentals of abstract algebra and number theory, including induction, strong induction and Well-Ordering axiom; Divisibility and prime factorization; Modular arithmetic; Permutations; Groups, Subgroups, Cyclic groups; Isomorphisms; Simple groups, Factor groups, Lagrange's Theorem; The First Isomorphism Theorem. Please note that lectures alternate during the week so that students can take any of MAM2012S, MAM2013S and MAM2014S concurrently. Course entry requirements: MAM1031F and MAM1032S or equivalent.

Language(s) of Instruction

English

Host Institution Course Number

MAM2013S

Host Institution Course Title

INTRODUCTORY ALGEBRA

Host Institution Course Details

<https://www.uct.ac.za/sites/default/files/media/documents/uct-handbook-11-2025-...>

Host Institution Campus

University of Cape Town

Host Institution Faculty

Science

Host Institution Degree

Host Institution Department

Math and Applied Mathematics

Course Last Reviewed

2025-2026

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