

# COURSE DETAIL

## COMPLEX ANALYSIS

**Country**

United Kingdom - Scotland

**Host Institution**

University of St Andrews

**Program(s)**

Scottish Universities, Psychology and Neuroscience, St Andrews, University of St Andrews

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Mathematics

**UCEAP Course Number**

108

**UCEAP Course Suffix****UCEAP Official Title**

COMPLEX ANALYSIS

**UCEAP Transcript Title**

COMPLEX ANALYSIS

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

**Course Description**

This course introduces students to analytic function theory and applications. The topics include analytic functions, Cauchy-Riemann equations, harmonic functions, multivalued functions and the cut plane, singularities, Cauchy's theorem, Laurent series, evaluation of contour integrals, fundamental theorem of algebra, Argument Principle, and Rouché's Theorem.

**Language(s) of Instruction**

English

**Host Institution Course Number**

MT3503

**Host Institution Course Title**

COMPLEX ANALYSIS

**Host Institution Campus**

St Andrews

**Host Institution Faculty****Host Institution Degree****Host Institution Department**

Mathematics & Statistics

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