

COURSE DETAIL

CALCULUS I

Country

Egypt

Host Institution

American University in Cairo

Program(s)

The American University in Cairo

UCEAP Course Level

Lower Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

21

UCEAP Course Suffix**UCEAP Official Title**

CALCULUS I

UCEAP Transcript Title

CALCULUS I

UCEAP Quarter Units

4.50

UCEAP Semester Units

3.00

Course Description

This is the first semester in a mainstream calculus sequence. It covers limits of one variable functions; continuity and differentiability; implicit differentiation; differentiation of trigonometric, exponential, and logarithmic functions; higher derivatives; applications of derivatives: related rates, linear approximations, the Mean Value Theorem, l'Hopital's Rule, maxima and minima, curve sketching and optimization problems; definite and indefinite integrals, Riemann Sums, the Fundamental Theorem of Calculus.

Language(s) of Instruction

English

Host Institution Course Number

MACT 1121

Host Institution Course Title

CALCULUS I

Host Institution Course Details

[https://catalog.aucegypt.edu/preview_course.php?catoid=44&coid=115886
&print](https://catalog.aucegypt.edu/preview_course.php?catoid=44&coid=115886&print)

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics and Actuarial Science

Course Last Reviewed

2025-2026

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