

## COURSE DETAIL

### CALCULUS II

**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**

22

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

CALCULUS II

**UCEAP Transcript Title**

CALCULUS II

**UCEAP Quarter Units**

4.50

**UCEAP Semester Units**

3.00

## Course Description

This is the second semester in a mainstream calculus sequence. It covers the calculus of inverse trigonometric and hyperbolic functions; applications of the definite integral for finding areas and volumes of revolutions; techniques of integration; improper integrals; sequences and series: Convergence tests, power series, Taylor series with applications; vectors and the three-dimensional space: Dot and cross products, lines and planes.

## Language(s) of Instruction

English

## Host Institution Course Number

MACT 1122

## Host Institution Course Title

CALCULUS II

## Host Institution Course Details

[https://catalog.aucegypt.edu/preview\\_course.php?catoid=38&coid=91160&print=](https://catalog.aucegypt.edu/preview_course.php?catoid=38&coid=91160&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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