

Module: CC 303 Quantitative Methods**Contents:**

- Basics of linear algebra
- Solvability of linear systems of equations
- Linear optimization
- Simplex algorithm

Learning outcomes:

Students are supposed to learn about the fundamental methods of linear algebra and apply them to typical problems in business administration. In particular, different algorithms for the solution of linear systems of equations will be discussed and the concept of linear optimization will be introduced. The solution of these optimization problems plays an important role. After this class, students should be able to demonstrate and apply program-specific knowledge to identify and solve problems in the respective academic areas.

Prerequisites:**Formal:** -**Recommended:** -**Obligatory registration:** no**Further information on registration:** -

Courses	Hours per week	Self-study	ECTS
Lecture &	2*	2*	
Exercise class	2*	2*	
Tutorial	2*	2*	
ECTS in total			3

Form of assessment	Written exam (45 min.), optional bonus exercises during the semester
Preliminary course work	-
Lecturer/Person in charge	Prof. Dr. Cornelia Schön
Duration of module	*1/2 semester
Offering	Fall semester (second half)
Language	German
Program-specific educational goals	LG1, LG2
Grade	graded
Range of application	B.Sc. Business Administration