



Studying at RheinAhrCampus (Koblenz University of Applied Sciences)

Master of Mathematics in Finance and Life Science

Aims

The aim is to achieve consolidation in one of the applied areas of either business mathematics or biomathematics by means of a specific selection of subjects. Furthermore, the aim of the Master's degree is for students to acquire consolidated knowledge in the shared major areas of the probability theory, statistics and Stochastic analysis. Moreover, students on this course will acquire professional, specialised knowledge in the core mathematical areas of function analysis, optimisation, complex analysis and partial differential equations.

Employability and Career Prospects

Master graduates will be able to take on challenging roles in research and development as well as in projects and management. As a result of their extensive, mathematical expertise they will be in a position to independently familiarise themselves with new, mathematical subject areas and work in an academic capacity. This consolidated, technical education qualifies graduates to deal with challenging research and development tasks in the areas of rate fixing, risk analysis and risk management, or the development of biotechnological and biochemical procedures. A typical area of application in the pharmaceutical industry is also represented, for example, by the planning and lead management of clinical studies and senior projects. According to information from the biometric association, the gap in demand expected particularly in this area will open the door to our graduates in terms of diverse development opportunities.

First semester	Second semester	Third semester	Master Thesis (30c)
Mathematical Models (5c)	Theory and Numerical Methods of Partial Differential Equations (7c)	Stochastic Integration (8c)	
Function Analysis (7c)	Measure Theory, Stochastic Processes and Martingale (10c)	Multivariable Statistics (7c)	
Optimisation (8c)	Graduate Class (3c)	Special Topics from the Subject of Mathematics (5c)	
Elective Module I + II Business Mathematics (10c)	Elective Module III + IV Business Mathematics (10c)	Elective Module V + VI Business Mathematics (9c)	
Elective Module I + II Biomathematics (10c)	Elective Module III + IV Biomathematics (10c)	Elective Module V + VI Biomathematics (9c)	

Prerequisites for admission

Exchange Students: Nomination by partner university and successful application at RheinAhrCampus.

Full-degree Students: Please note the special entry requirements for this degree programme. More information at: http://www.rheinahrcampus.de/Studierenden_sekretariat.52.o.html. The final decision about acceptance is made by the official examination board of our university.

Contact

More detailed information is available at::

http://www.rheinahrcampus.de/Master_Mathematics_in_Finance.1023.o.html

For further information please contact:

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