

Study Program Overview

M. Sc. in Operations Research and Business Analytics/ORBA

Degree: Master of Science in Operations Research and Business Analytics
Study Time: 4 Semesters
Credits: 120 ECTS/ CP
Further Information: <http://www.isp.ovgu.de/Documents/Master+Students.html>

Curriculum

1 st Semester	Lectures/L+Tutorials/T	30 ECTS/ CP
Stochastic Models in Production and Logistics	*2L+2T = 5 CP	Examination - 60min
Integer & Combinatorial Optimization with Applications	2L+2T = 5 CP	Examination - 60min
Programming in C++	1L+3T = 5 CP	Examination - 60min
Concepts and Algorithms of Optimization	2L+2T = 5 CP	Examination - 60min
Compulsory Elective Module	5 CP	see module handbook
Elective Module	5 CP	see module handbook
2 nd Semester		30 ECTS/ CP
Intelligent Data Analysis	2L+2T = 5 CP	Examination - 120min
Data Mining	2L+2T = 5 CP	Examination - 60 min
Database Concepts	2L+2T = 5 CP	Examination - 120min
Compulsory Elective Module	5 CP	see module handbook
Compulsory Elective Seminar	10 CP	see module handbook
3 rd Semester		30 ECTS/ CP
Elective Module	5 CP	see module handbook
Elective Module	5 CP	see module handbook
Elective Module	5 CP	see module handbook
Compulsory Elective Scientific Project	15 CP	see module handbook
4 th Semester		30 ECTS/ CP
Master Thesis & Research Seminar	30 CP	Scientific Paper and Presentation

The curriculum mainly consists of compulsory courses in the 1st/ 2nd semester and elective modules in the 3rd semester. 1 SWS = 45 minutes; most lectures and tutorials comprise 2 SWS = 90 minutes in compound.

Important Rule:

Any compulsory exam, which cannot be completed successfully, is failed.

One retake will be admissible. A second retake shall be allowed only for a maximum of one compulsory exam!

Elective modules/ seminars during the master's study program:

- Only officially recognized modules/ seminars according to the examination and study regulation of the respective master's program can be chosen!
- Successfully completed elective modules/ seminars will be graded once!
- Whether a module/ seminar of another faculty can be credited must be clarified/ applied for recognition with/at the FWW Examination Office beforehand!

Some modules and all seminars require personal registration in advance. Check LSF for module offers and the chair homepages of the respective professor for information about registration deadlines. Seminar places are limited (max. 20) and registration ends for some seminars in June/January for the upcoming semester.

Discrepancies between the information system of the university (LSF/ E-Learning) and the handbook may occur due to fluctuations in professors over the years. All elective modules will be listed in LSF (starting from January/June).

Information (e.g. qualification targets, contents, transcripts, etc.) about modules of other faculties are available in the program handbooks of the respective faculty. Please contact the Examination Office for application details.

For detailed information please check out the LSF portal and the program handbook at:

<http://www.isp.ovgu.de/Documents.html>