

## Information Management (M.Sc.)

Program of Study:	Information Management
Department:	Computer Science, Economics & Organizational Sciences
Degree Awarded:	Master of Science
Form of Study:	full-time study on campus
Language of Teaching:	German
Commencement of Study:	Fall trimester
Standard Period of Study:	1 years, 9 months
Academic Counselling:	Department Chairs of Computer Science and Economics & Organizational Sciences
Homepage:	<a href="http://www.unibw.de/inf/studium/winf">http://www.unibw.de/inf/studium/winf</a>

### I) Program Description

Information Management (sometimes referred to as “business informatics”) is the study of information and communication systems in business and administration, and is becoming increasingly relevant to private households as well. Such systems are socio-technical in nature, meaning that problems are solved cooperatively by human and mechanical (computerized) task managers.

Tasks falling under the heading “Information Management” include the development and application of theories, ideas, models, methods, and tools in order to analyze, configure, and use information systems. Examining complex processes and operations carried out in businesses (“Operations Research”) comprises an important basis of this field. Alongside organizational aspects, information management covers the internal and inter-company integration of information processing and industry-specific applications as well as principles, methods, and tools of system configuration. To this extent Information Management relies on approaches used in business administration, economics, and computer science; Information Management integrates these and supplements them with a few approaches that are specific to this subject area. The subject is thus interdisciplinary in nature and courses are shared between the departments of Computer Science and Economics & Organizational Sciences.

In the course of the master’s program in Information Management, basic knowledge and skills relevant to the field are built upon and more thoroughly examined. Elective courses give students the opportunity to explore specialized areas of information management, computer science, and economics. The master’s program in Information Management also prepares its students for an academic career in the field.

### II) Prerequisites

Ideally, candidates should have an excellent command of the German language as well as a good command of the English language. Candidates should also hold higher level high school certifications in mathematics or computer science. The master’s program also requires a thorough foundational knowledge of information management, either from the bachelor’s program at the Universität der Bundeswehr or from a comparable undergraduate program of study.

In preparation for the master’s program, we recommend that students review their coursework in information management, mathematics, computer science, and economics from their bachelor’s program.

### **III) Abilities & Tendencies**

A solid knowledge of the standard areas of information management, especially of the relevant mathematical methods, is required of all students in the master's program. This requisite knowledge can be gained either from the bachelor's program at the Universität der Bundeswehr or from a comparable undergraduate program of study. The decisive requirement is the ability to think in an abstract and structured way. However, Information Management also deals with the application-oriented construction of systems for specific users. Communication and presentation skills are thus additionally required so that one can develop an appropriate system based on the users' goals and wishes. Social, psychological, political, and above all, economic requirements and effects of the systems must be considered. Finally, command of English and the ability to work in a team are crucial characteristics in the field of Information Management. Students rarely possess all of these qualities at the outset of their studies. One must also realize that the field is constantly changing. Hence, it is essential that one be prepared to deal with new topics and challenges and to adapt accordingly.

### **IV) Structure of the Program**

At the beginning of the master's program, students attend modules dealing with central issues in the field of Information Management. The remaining courses are chosen from among the following:

- collaborative business and electronics markets
- operations research and the configuration of decision assistance systems
- knowledge- and process-based configuration of application systems

Alongside theoretically-oriented courses, the program of study also includes case studies, project seminars, and a practical, project-based course carried out in cooperation with an industrial partner. The master's thesis may be completed over a 6-month period (for which the student is awarded 30 ECTS points) or over a 3-month period (in which case the student is awarded 20 ECTS points). In the latter case, the student must complete additional modules in computer science or economics.

### **V) Careers**

Graduates of Information Management often pursue careers in the field of consulting. Their ability to think through complex problems in an analytic way—an ability that is fostered tremendously in the course of their studies—puts them in a unique position to work as mediators and systems analysts in the area where business administration, computer science, and engineering overlap. In particular, typical occupational fields include planning, selection, configuration, management, and use of communication and information infrastructures, databases and information systems, business process organization systems, as well as knowledge processing in fields such as technology management, system development, IT consulting, IT training, organizational development, systems analysis, information management, or IT-project leadership. In addition to the ability to develop or even program individual components, Information Management graduates are often assigned the task of developing larger systems, integrating software solutions, or identifying and implementing optimization potentials for available solutions. Information Management graduates are not restricted to one specific industry or field. Furthermore, graduates of this master's program are likely to be attractive candidates for academic positions as well as leadership positions.

### **VI) Further Information**

For more information on study at the Universität der Bundeswehr München and the application process, please visit [www.unibw.de/studienberatung](http://www.unibw.de/studienberatung) . As a student at the Universität der Bundeswehr München, you can also complete a portion of your studies abroad. You will find information on our exchange programs and partner universities at [www.unibw.de/auslandsbuero](http://www.unibw.de/auslandsbuero) .