

# Introductory Session for Master Students in Business Informatics



# **Introductory Session for Master Students**

in the degree program

Master of Science in Business Informatics

at the University of Mannheim

FSS 2023

These slides will be available for download  
on the following website:

**[www.wim.uni-mannheim.de](http://www.wim.uni-mannheim.de)**

# Master Mailing List

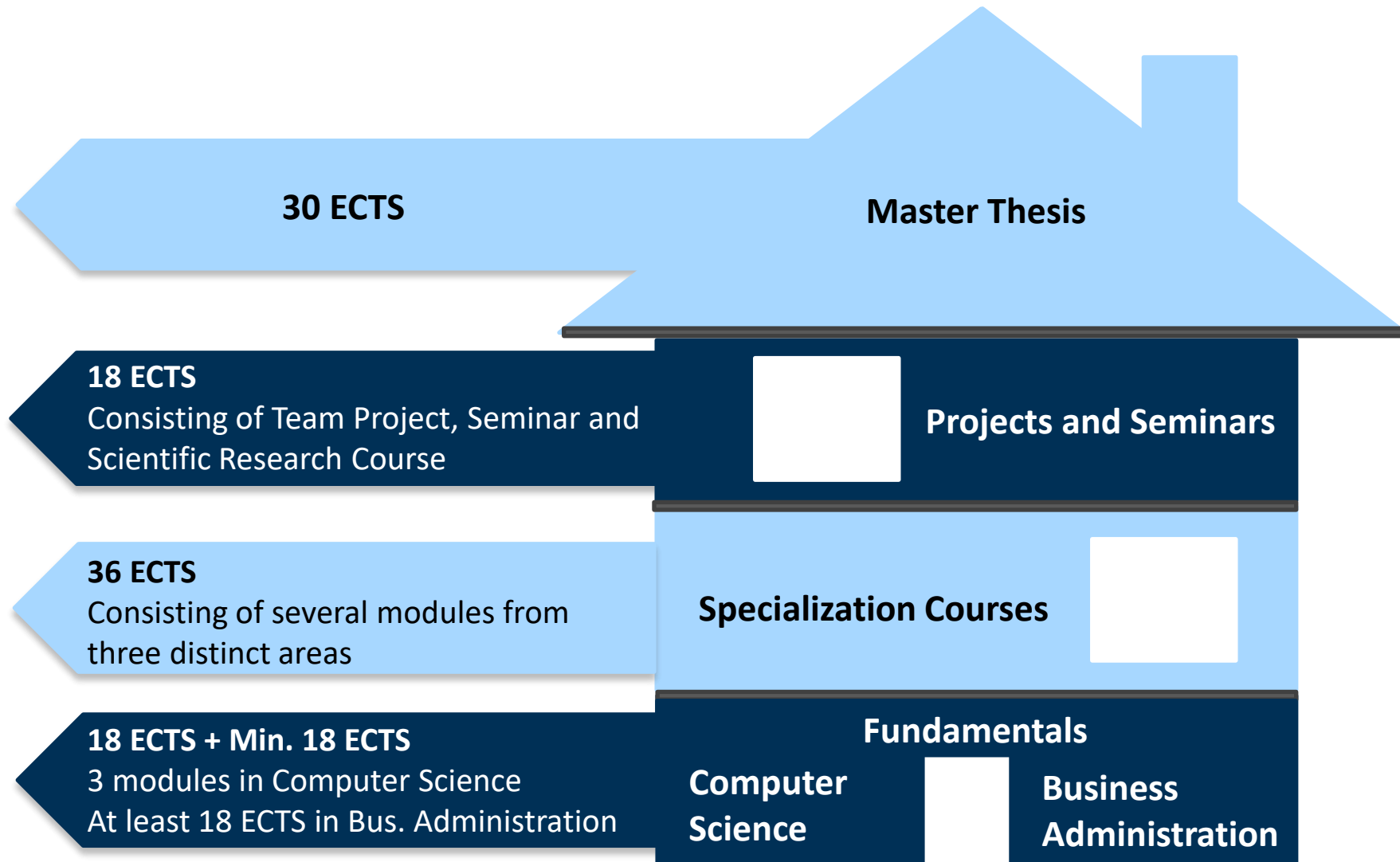
You will be added to the wifo-master mailing list.

Please note: From now on, all email correspondence will go to your University of Mannheim email account!

# Agenda

- **Structure of the M.Sc. Program**
  - Fundamentals
  - Specialization Courses
  - Projects and seminars
  - Master Thesis

# Structure of the M.Sc. Program



# Structure of the M.Sc. Program

## Fundamentals Computer Science

Module no.	Name of module	Offered	Language	ECTS
CS 404	Kryptographie I/ Cryptographie I	FSS	E	6
CS 408	Selected Topics in IT-Security	FSS	E	6
CS 500	Advanced Software Engineering	HWS	E	6
CS 530	Database Systems II	FSS	E	6
CS 550	Algorithmics	FSS/HWS	E	6
CS 560	Large-Scale Data Management	HWS	E	6
IE 500	Data Mining I	FSS/HWS	E	6
IE 560	Decision Support	HWS	E	6

# Structure of the M.Sc. Program

## Fundamentals Business Administration

Five distinct focus areas:

**Operations Management (OPM)**

**Management (MAN)**

**Marketing (MKT)**

**Accounting and Taxation (ACC & TAX)**

**Banking, Finance and Insurance (FIN)**



# Structure of the M.Sc. Program

## Specialization Courses



**Computer  
Science (CS)**



**Information  
Engineering (IE)**



**Information  
Systems (IS)**

# Specialization Courses

## CS-Courses

Module no.	Name of Module	Offered	Language	ECTS
CS 600	Model Driven Development	HWS	E	6
CS 605	GPU Programming	HWS	E	6
CS 651	Kryptographie II	HWS	E	6
CS 652	Data Security and Privacy	FSS	E	6
CS 655	Cryptography	FSS	E	6
CS 662	Types and Programming Languages	HWS	E	6
CS 664	Blockchain Security	HWS	E	6
CS 667	Computer Vision	HWS	E	6

# Specialization Courses

## IE-Courses

Module no.	Name of Module	Offered	Language	ECTS
IE 630	Query Optimization	FSS	E	6
IE 650	Semantic Web Technologies	HWS	E	6
IE 661	Text Analytics	HWS	E	6
IE 663	Information Retrieval and Web Search	FSS	E	3
IE 670	Web Data Integration	HWS	E	3
IE 671	Web Mining	FSS	E	3
IE 672	Data Mining II	FSS	E	6
IE 675b	Machine Learning	HWS	E	9

# Specialization Courses

## IE-Courses

Module no.	Name of module	Offered	Language	ECTS
IE 678	Deep Learning	FSS	E	6
IE 683	Web Data Integration Project	HWS	E	3
IE 684	Web Mining Project	FSS	E	3
IE 691	Information Retrieval Project	FSS	E	3
IE 692	Advanced Process Mining	FSS	E	6
IE 694	Artificial Intelligence Applications in Industry	FSS	E	6

# Specialization Courses

## IS-Courses

Module no.	Name of module	Offered	Language	ECTS
IS 512	IT Management in the Digital Age	MMM*	E	6
IS 513	Applied IT Management in the Digital Age	MMM*	E	6
IS 515	Process Management & Analytics	MMM*	E	6
IS 540	Management of Enterprise Systems	MMM*	E	6
IS 541	Methods and Theories in Information Systems (ManTIS)	MMM*	E	6
IS 556	Public Blockchains	MMM*	E	6
IS 607	Digital Innovation	MMM*	E	6
IS 613	Applied Project in Design Thinking and Lean Software Development	MMM*	E	6

# Specialization Courses

## IS-Courses

Module no.	Name of Module	Offered	Language	ECTS
IS 614	Corporate Knowledge Management	MMM*	E	6
IS 615	Design Thinking and Lean Development in Enterprise Software Development	MMM*	E	6
IS 621	Self-Organizing and Adaptive Systems	MMM*	E	6
IS 622	Network Science	MMM*	E	6
IS 629	Agile Software Product Management and Design	MMM*	E	6

For a detailed description please use the module catalog of the „Mannheim Master in Management“:  
[https://www.bwl.uni-mannheim.de/media/Fakultaeten/bwl/Dokumente/Studium/MMM/Modulkatalog\\_MMM\\_Deutsch.pdf](https://www.bwl.uni-mannheim.de/media/Fakultaeten/bwl/Dokumente/Studium/MMM/Modulkatalog_MMM_Deutsch.pdf)

# How to select your Specialization Courses

- You need modules with 36 ECTS in total
- You have the free choice among all offered modules
- After passing the subject area Fundamentals Computer Science, you may choose additional courses from this area as specialization courses
- More information can be found in the examination regulations (§ 28)

# Projects and Seminars



**Team Project**  
*12 ECTS /*



**Seminar**  
*4 ECTS*



**Scientific  
Research**  
*2 ECTS*

PLEASE NOTE: Each student **MUST** take a **Seminar** and **Scientific Research** as well as a **Team Project**.



# Projects and Seminars - Team Projects

- 12 ECTS, 1 or 2 semesters
- **Presentation: at 12 am on February 14.**
- Registration: portal<sup>2</sup> “Team Projects Master Wifo & MMDS”
- Registration will start on February 14.  
You can register until February 19.
- Registration is possible **AFTER** the presentation of the new Team Projects!

# Projects and Seminars

## Scientific Research Course

- 2 ECTS
- Block seminar during the semester or in lecture-free period
- Offered several times a year
- Dates will be announced via mailing list

# Seminars

Module no.	Name of module	Offered	Language	ECTS
CS 701	Selected Topics in Algorithmics and Cryptography	FSS	E	4
CS 704	Master Seminar Artificial Intelligence	HWS/FSS	E	4
CS 705	Datenbankseminar	HWS/FSS	G/E	4
CS 707	Seminar Data and Web Science	HWS/FSS	E	4
CS 708	Seminar Software Engineering Prof. Atkinson	HWS/FSS	E	4
CS 709	Seminar Text Analytics	HWS/FSS	G/E	4
CS 710	Selected Topics in Data Science	FSS	G/E	4
CS 715	Large-Scale Data Integration Seminar	HWS/FSS	G/E	4
CS 716	IT-Security	HWS	E	4

# Seminars

Module no.	Name of module	Offered	Language	ECTS
CS 719	Seminar on Process Analysis	HWS/FSS	E	4
CS 720	Uncertainty Estimation	FSS	E	4
CS 721	Seminar Data-Science I	FSS	E	4
CS 722	Seminar Ethical Aspects of AI	FSS	E	4
IE 704	Seminar AI Systems Engineering	HWS/FSS	E	4
IS 712	Contemporary Issues in Information Systems Research	HWS/FSS	E	4
IS 722	Seminar Context- Aware and Distributed Systems	MMM*	E	4

# Seminars

Module no.	Name of module	Offered	Language	ECTS
IS 742	Seminar Trends in Enterprise Systems	MMM*	E	4
IS 751	E-Government Adoption and Societal Change	MMM*	E	4
IS 752	Seminar on Process and Management Analytics	MMM*	E	4

# Seminars

- Registration for CS-seminars via Portal<sup>2</sup>
- You have to choose at least 3 priorities
- IE- and IS-seminars have different application process
- BUT: consider the requirements of each seminar

# Master's Thesis



- 6 Months
- Every chair has individual requirements that you have to fulfill to be considered
- It is recommended to not write any exams during this period

# Master's Thesis

In addition to the general information:

- It is your own responsibility finding a supervisor
- So, start early enough contacting relevant chairs

If you cannot find a supervisor after a relevant effort you can apply for our  
EMERGENCY-process.

But keep in mind: this is really for emergency and not Plan A to do!



# Study abroad



- All students have the opportunity to study abroad
- for one or two semesters
- without paying tuition fees

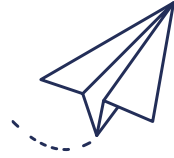
# What for?



Don't miss the unique opportunity to

- immerse yourself in another culture
- overcome challenges and gain new soft skills
- experience high-class education systems
- brush up your foreign language skills
- form lifelong friendships and international networks
- boost your CV and your career opportunities
- ...

# Where to?



- with over **450 partner universities in 60 countries**, you can choose from a variety of universities all around the globe
- 70 of those are faculty-owned partner universities
- even lesser-known regions can become exciting destinations for your exchange!

# First steps



- take a look at the different [application deadlines](#), depending on your program of study and your host country
- take part in one of the mandatory [Introductory Study Abroad Sessions](#) right at the beginning of your studies
- look for suitable [partner universities](#) all around the globe

# Application Deadlines

Exchange destinations and application deadlines are divided into two regions:

Region	Deadline	Semester
Overseas North & South	15 October 2023	4 (fall 2024)
Europe	31 January 2024	4 (fall 2024)

Table for Master degrees starting in the spring term 2023.

# Contact

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**Consultation hour(s):**

by appointment via email

**Thank you for your attention!**

Questions?