Master’s program
Informatics

Willemijn van Gemert / Anna-Lisa Fuchs
Academic Programs Office - Informatics
Secretary of the examination board

16th April 2020

http://www.in.tum.de
Recording of this Presentation

- This presentation will be recorded and potentially published on the website

- Your camera is disabled
- You are muted

- You can change your name

- Ask questions in the chat
- Questions will be answered in the presentation, not in the chat
Content

- Contact persons
- Master’s programme in general
- Orientations
- Interdisciplinary Project
- Support Electives
- Study Plan
- Examinations
- Fundamental Examinations
- Certificate
- Student Code of Conduct

Recording starts now!
Contact Persons

• Infopoint - first contact center

• Academic Programs Office
  – NN (until further notice Anna-Lisa Fuchs)

• Secretary of the Examination Board
  – Anna-Lisa Fuchs
  – Willemijn van Gemert (Part time studies)
Contact Persons

- **Academic Counseling**
  - Vivija Simic
  - Sibylle Roden-Kinghorst
  - Sandra Kemler

- **International Affairs**
  - Lena Krone (international degree students)
  - Martina von Imhoff (study abroad)
  - Claudia Philipps
Master’s program Informatics

• Goals of the program:
  – qualifying for entry into professional practice or research
  – provide comprehensive view of the discipline’s interrelated issues
  – learn to work independently according to academic principles

• Content of the program:
  – Examinations: 90 Credits (ECTS)
  – Master’s Thesis: 30 Credits
  – Possibly additional fundamental exams „bridging courses“: max. 30 Credits

• Duration:
  – Regular time of studies: 4 semesters
  – At the latest at the end of the 7th semester

• Academic title:
  – Master of Science (M.Sc.) or Master of Science (TUM) (M.Sc. (TUM))
Curriculum Master Informatics

5 Credits
- Master-Seminar

10 Credits
- Advanced Practical Course

53 Credits
- Area of Specialization
  - 2nd area: 8 Credits
  - 3rd area: 8 Credits

18 Credits
- Elective courses in Informatics
  - At least 10 credits must be earned from the modules marked "THEO"
  - These modules can be assigned to different areas and do not have to be in the area of specialization or one of the other two supplementary areas

16 Credits
- Interdisciplinary Project

30 Credits
- Master’s Thesis
  - Will be done in 6 months

Orientation
- 9 Credits
  - From all areas
- 10 Credits
  - Free choice

Soft Skills
- 6 Credits
  - (Support Electives)
Different Orientations within the Programme

- Practice
- Advanced Practice
- Basics
- Research

- Study abroad
## Curriculum Master Informatics – Practice

<table>
<thead>
<tr>
<th>5 Credits</th>
<th>Master-Seminar</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 Credits</td>
<td>Advanced Practical Course</td>
</tr>
</tbody>
</table>

**Elective courses in Informatics**

<table>
<thead>
<tr>
<th>18 Credits</th>
<th>Area of Specialization</th>
</tr>
</thead>
<tbody>
<tr>
<td>8 Credits</td>
<td>2(^{nd}) area</td>
</tr>
<tr>
<td>8 Credits</td>
<td>3(^{rd}) area</td>
</tr>
</tbody>
</table>

- At least 10 credits must be earned from the modules marked “THEO”
- These modules can be assigned to different areas and do not have to be in the area of specialization or one of the other two supplementary areas

**Orientation: practice**

- 9 Credits From all areas
- 10 Credits 2\(^{nd}\) Advanced Practical Course

<table>
<thead>
<tr>
<th>16 Credits</th>
<th>Interdisciplinary Project</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Credits</td>
<td>Soft Skills (Support Electives)</td>
</tr>
</tbody>
</table>

- Will be done in 6 months

| 30 Credits | Master’s Thesis |

---

**Additional Information**

- Will be done in 6 months
Curriculum Master Informatics – Advanced practice

- **5 Credits**
  - Master-Seminar

- **10 Credits**
  - Advanced Practical Course

- **53 Credits**
  - Elective courses in Informatics
  - **18 Credits**
    - Area of Specialization
  - **8 Credits**
    - 2nd area
  - **8 Credits**
    - 3rd area
  - **9 Credits**
    - From all areas
  - **10 Credits**
    - Continuing Advanced Practical Course

- **16 Credits**
  - Interdisciplinary Project

- **30 Credits**
  - Master’s Thesis

- **16 Credits**
  - Will be done in 6 months

- **30 Credits**
  - Soft Skills (Support Electives)

At least 10 credits must be earned from the modules marked “THEO”. These modules can be assigned to different areas and do not have to be in the area of specialization or one of the other two supplementary areas.

Orientation: advanced practice
Curriculum Master Informatics - Basics

5 Credits
Master-Seminar

10 Credits
Advanced Practical Course

53 Credits
Elective courses in Informatics

18 Credits
Area of Specialization

8 Credits
2nd area

8 Credits
3rd area

9 Credits
Free choice from all areas

16 Credits
Interdisciplinary Project

30 Credits
Master ‘s Thesis

6 Credits
Soft Skills (Support Electives)

Orientation: basics

At least 10 credits must be earned from the modules marked “THEO”. These modules can be assigned to different areas and do not have to be in the area of specialization or one of the other two supplementary areas.

Will be done in 6 months.
Curriculum Master Informatics - Research

**5 Credits**
- Master-Seminar

**10 Credits**
- Advanced Practical Course

**53 Credits**
- Elective courses in Informatics
- At least 10 credits must be earned from the modules marked "THEO"
  These modules can be assigned to different areas and do not have to be in the area of specialization or one of the other two supplementary areas

**16 Credits**
- Interdisciplinary Project

**30 Credits**
- Master’s Thesis
  Will be done in 6 months

**30 Credits**
- Master’s Thesis
  Will be done in 6 months

**10 Credits**
- Guided research

**9 Credits**
- From all areas

**Orientation: research**

**18 Credits**
- Area of Specialization
  - 2nd area
  - 3rd area

**6 Credits**
- Soft Skills (Support Electives)
### Curriculum Master Informatics

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course</th>
<th>Credits</th>
<th>Course</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Master-Seminar</td>
<td>10</td>
<td>Advanced Practical Course</td>
</tr>
<tr>
<td>10</td>
<td></td>
<td>16</td>
<td>Interdisciplinary Project</td>
</tr>
<tr>
<td>30</td>
<td>Master’s Thesis</td>
<td></td>
<td>Soft Skills (Support Electives)</td>
</tr>
<tr>
<td>53</td>
<td>Elective courses in Informatics</td>
<td></td>
<td>Orientation: international</td>
</tr>
<tr>
<td>9</td>
<td>2(^{nd}) area</td>
<td>10</td>
<td>Study abroad</td>
</tr>
<tr>
<td>8</td>
<td>3(^{rd}) area</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

**Orientation:** international

At least 10 credits must be earned from the modules marked “THEO”. These modules can be assigned to different areas and do not have to be in the area of specialization or one of the other two supplementary areas.

Will be done in 6 months
Curriculum Master Informatics

5 Credits
- Master-Seminar

10 Credits
- Advanced Practical Course

53 Credits
- Elective courses in Informatics
  - 18 Credits
  - Area of Specialization
    - 8 Credits 2nd area
    - 8 Credits 3rd area
  - At least 10 credits must be earned from the modules marked "THEO". These modules can be assigned to different areas and do not have to be in the area of specialization or one of the other two supplementary areas

16 Credits
- Interdisciplinary Project

30 Credits
- Master’s Thesis
  - Will be done in 6 months

Orientation
- 9 Credits From all areas
- 10 Credits Free choice

Soft Skills (Support Electives) 6 Credits
Interdisciplinary Project (IDP)

- **Goal:** Bridging the gap between Informatics and its application
- **Combination of practical work and supportive lecture**
- **Standard application areas**
  - Mathematics
  - Mechanical Engineering
  - Electrical engineering
  - Economics
  - Medicine
- **On special request the IDP can also be taken in another area**
- **16 Credits**
- **Examination results include:**
  - Grades from lectures
  - Practical work
  - Documentation and Presentation
  - Grade calculation 3:7 (lecture:project) (starting from WS 16/17)
- **How-To for an IDP**
Curriculum Master Informatics

5 Credits
- Master-Seminar

10 Credits
- Advanced Practical Course

18 Credits
- Area of Specialization
  - 2nd area
  - 3rd area

53 Credits
- Elective courses in Informatics
  - At least 10 credits must be earned from the modules marked "THEO"
  - These modules can be assigned to different areas and do not have to be in the area of specialization or one of the other two supplementary areas

16 Credits
- Interdisciplinary Project

30 Credits
- Master’s Thesis
  - Will be done in 6 months

9 Credits
- From all areas

10 Credits
- Free choice

6 Credits
- Soft Skills (Support Electives)
Support Electives

- Support electives by program
- Language courses
- Courses at Carl von Linde Akademie
# Study Plan - Structure of the four Terms

<table>
<thead>
<tr>
<th>Sem</th>
<th>Informatics Methodology and Knowledge</th>
<th>Informatics Practice</th>
<th>Informatics Research</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Elective Courses (27)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Elective Courses (11)</td>
<td>Advanced Practical Course (APC)(10)</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Elective Courses (5) Master‘s Seminar (5)</td>
<td></td>
<td>Guided Research (10)</td>
</tr>
<tr>
<td></td>
<td>Elective Courses (10)</td>
<td>2nd or continuing APC (10)</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Master‘s Thesis (30)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Additionally** in the 1st to 3rd semester: Support Electives (6) and IDP(16)
- Students are not bound to follow this plan, it is a recommendation
  - lectures can be heard according to the individual needs …
Continuous Assessment Procedure

- Module examinations will be taken concurrently with the program
- Types: written, oral, project, ...
- **Mandatory** registration of examinations
  - always in TUMonline [https://campus.tum.de](https://campus.tum.de)
  - TUM account necessary
  - information on registration of examinations see [http://www.in.tum.de/en/current-students/administrative-matters/exams.html](http://www.in.tum.de/en/current-students/administrative-matters/exams.html)
- Withdrawal
  - early withdrawal without indication of reasons possible
  - information on withdrawal see [http://www.in.tum.de/en/current-students/administrative-matters/exams.html](http://www.in.tum.de/en/current-students/administrative-matters/exams.html)
Repitition of Examinations (§ 44 FPSO together with § 23 und § 24 APSO)

• for required modules each semester a repeat examination is offered

• in most cases until first week of lecture period of the following semester

• Repetition for the purpose of improving grades is not possible

• The number of repeat examinations is only restricted by the examination deadlines of § 10 APSO

Don‘t forget to register!
Examination Time Limits (APSO § 10)

- 2nd semester: no examination passed → ir
- 3rd semester: less than 30 credits → ir
- 4th semester: less than 60 credits → ir
- 5th semester: less than 90 credits → ir
- 6th semester: examinations not yet taken → np
- 7th semester: examinations not yet taken → ir

ir: irreversibly failed    np: not passed
Fundamental Examinations - Bridging courses

- Fundamental Examinations are listed in the letter of admission.
- They have to be passed in the first academic year.
- Failed Fundamentals Examinations may be repeated only once and at the next examination date within the first academic year.
- Pursuant to § 46 (3) FPSO, admission to the Master’s Thesis is only possible after passing all Fundamental Examinations.
- Fundamental Examinations are not part of the Master ‘s examination.
- Examination results are not being taken into consideration for the overall grade.
Certificate of the Final Examination

- lists grade and topic of the final thesis and the overall grade
- overall grade
  - calculated as the weighted grade average of the modules and the Master’s thesis
  - the grade weights of the individual modules correspond to the credits assigned to each module
- date on final certificate
  - day when all module and examination requirements have been fulfilled
  - number of semesters is not printed
Certificate of the Final Examination

- in addition, the student will receive a Transcript of Records that lists all passed modules with credits and grades
- Graduation documents and preliminary certificates can only be issued when all grades in TUMonline (including the thesis) are validated.
- Certificates can only be given by the central examination office, not the examination board.
Student Code of Conduct

- course achievements and examinations have to be performed self-reliantly and on the basis of allowed resources only
- short text passages may be cited, but
  - clearly marked
  - literal citations must be quoted
- non-literal paraphrases must be quoted clearly, immediately, and reproducible
- this also holds for code, seminar papers and Master‘s Thesis
- images also have to be referenced, and possibly an allowance of the owner is necessary
- use a full bibliography and primary sources
- if explicitly allowed by the lecturer, coursework may be provided collaboratively
- cheating leads to failing with only one possibility of retake
- for further information see

Questions?
Successful Studies!