Master‘s program Informatics

Verena Wimmer & Willemijn van Gemert
Academic Programs Office - Informatics
Secretaries of the examination board

October 18, 2021

http://www.in.tum.de
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• Study Plan
• Examinations
• Bridging Courses (Requirements for Admission)
• Certificate of Graduation
• Student Code of Conduct
Contact Persons

• Infopoint - first contact center
  (currently closed due to Corona)

• Academic Programs Office
  – Susanne Kinzel

• Secretary of the Examination Board
  – Verena Wimmer (Full time studies)
  – 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)
Covid-19

- Covid website of the department: www.in.tum.de/en/current-students/coronavirus/

- No office hours until further notice, please contact us by email or phone

- Registration to courses is mandatory for attendance

- On campus attendance only if vaccinated, recovered or tested for Covid-19 (3G = „Geimpft, Genesen, Getestet“)
Master’s program Informatics

• 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**

<table>
<thead>
<tr>
<th>Credits</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Master-Seminar</td>
</tr>
<tr>
<td>10</td>
<td>Advanced Practical Course</td>
</tr>
<tr>
<td>16</td>
<td>Interdisciplinary Project</td>
</tr>
<tr>
<td>30</td>
<td>Master’s Thesis</td>
</tr>
<tr>
<td>30</td>
<td>Master’s Thesis</td>
</tr>
<tr>
<td></td>
<td>Master’s Thesis</td>
</tr>
<tr>
<td>60</td>
<td>Elective courses in Informatics</td>
</tr>
<tr>
<td>18</td>
<td>Area of Specialization</td>
</tr>
<tr>
<td></td>
<td>2nd area</td>
</tr>
<tr>
<td></td>
<td>3rd area</td>
</tr>
<tr>
<td>18</td>
<td>Orientation (From all areas)</td>
</tr>
<tr>
<td>10</td>
<td>Orientation (Free choice)</td>
</tr>
<tr>
<td>6</td>
<td>Soft Skills (Support Electives)</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.

**6 months**
Different Orientations within the Programme

• Practice

• Basics

• Research
Curriculum Master Informatics – 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: 2nd Advanced Practical Course

16 Credits
- Interdisciplinary Project

30 Credits
- Master’s Thesis: 6 months

6 Credits
- Soft Skills (Support Electives)

Orientation: practice

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.
Curriculum Master Informatics – Advanced practice

- **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
  - 6 months

- **9 Credits**
  - From all areas

- **10 Credits**
  - Continuing Advanced Practical Course

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

Orientation: advanced practice
Curriculum Master Informatics - Basics

5 Credits
- Master-Seminar

10 Credits
- Advanced Practical Course

18 Credits
- Elective courses in Informatics

53 Credits
- Area of Specialization
- 8 Credits
- 2nd area
- 8 Credits
- 3rd area
- 9 Credits
- 10 Credits
- Free choice from all areas

16 Credits
- Interdisciplinary Project

30 Credits
- Master 's Thesis
- 6 months

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: basics
- 8 Credits
- 3rd area

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

<table>
<thead>
<tr>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>5</td>
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<tr>
<td>18</td>
<td>Area of Specialization</td>
</tr>
<tr>
<td>8</td>
<td>2nd area</td>
</tr>
<tr>
<td>8</td>
<td>3rd area</td>
</tr>
<tr>
<td>9</td>
<td>From all areas</td>
</tr>
<tr>
<td>10</td>
<td>Guided research</td>
</tr>
<tr>
<td>16</td>
<td>Interdisciplinary Project</td>
</tr>
<tr>
<td>30</td>
<td>Master’s Thesis</td>
</tr>
<tr>
<td>6</td>
<td>Soft Skills (Support Electives)</td>
</tr>
<tr>
<td>6 months</td>
<td></td>
</tr>
</tbody>
</table>

- **Orientation: research**
  - 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.
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
  - 9 Credits
    - From all areas
  - 10 Credits
    - Free choice

16 Credits
- Interdisciplinary Project

30 Credits
- Master's Thesis
  - 6 months

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.

Soft Skills (Support Electives)
Interdisciplinary Project (IDP)


- “Let's talk about IDP & Application Project” by the Study Advising team [www.in.tum.de/en/current-students/advising-and-support/academic-advising/](www.in.tum.de/en/current-students/advising-and-support/academic-advising/)
## Curriculum Master Informatics

### Credits Breakdown

<table>
<thead>
<tr>
<th>Category</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master-Seminar</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>Advanced Practical Course</td>
<td>10</td>
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<td>53</td>
<td>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.</td>
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<td>Interdisciplinary Project</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>Master’s Thesis</td>
<td>30</td>
<td>6 months</td>
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</tr>
<tr>
<td>Master’s Thesis</td>
<td>30</td>
<td>6 months</td>
</tr>
</tbody>
</table>

### Specialization Areas

1. **Area of Specialization**: 8 Credits
2. **2nd area**: 8 Credits
3. **3rd area**: 8 Credits
4. **From all areas**: 9 Credits
5. **Free choice**: 10 Credits

### Additional Modules

- **Soft Skills (Support Electives)**: 6 Credits
Support Electives

- Soft Skills courses
- Courses at Carl von Linde Akademie
- Language courses

(assignment only upon request)
Study Plan - Structure of the 4 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></td>
</tr>
<tr>
<td></td>
<td>Elective Courses (10)</td>
<td>or 2&lt;sup&gt;nd&lt;/sup&gt; or continuing APC (10)</td>
<td>or Guided Research (10)</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)
- You 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, ... (most exams will be on campus)
- **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 link above

Don’t forget to register – late registration not possible!
Repetition of Examinations
(§ 44 FPSO together with § 23 und § 24 APSO)

- Check the module description to see when a repeat exam 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
Examination Time Limits (APSO § 10)

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

DF – definitely failed → exmatriculation
Fundamental Examinations - Bridging courses – Requirements for Admission

• Bridging courses are listed in the **letter of admission**.

• They have to be **passed** in the **first academic year**.

• Failed bridging courses 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 bridging courses.

• Suspension of enrollment to 3rd semester until the examinations are passed.

• Bridging courses are **not** part of the Master’s examination.

• Examination results are **not** been taken into consideration for the overall grade.
Transfer of Credits

- All credits that are earned externally, have to be applied for!
- Includes additional achievements from Bachelor’s degree, studies abroad and ATHENS programme
- [https://www.in.tum.de/en/current-students/administrative-matters/transfer-of-credits/](https://www.in.tum.de/en/current-students/administrative-matters/transfer-of-credits/)
- Bachelor / previous studies: within the first year
Certificate of Graduation

- 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 Graduation

• 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.
# Transcript of Records

**Degree Program:** Informatik (Master of Science (M.Sc.))

**Certificate Date:** 29. Mai 2020

**Overall Grade and Credits:** 1.2, 121

**Prüfung:** mit Auszeichnung bestanden

**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2108 | Master’s Thesis | 1.0 | 30

**Additional Examinations**

**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2041 | Automaten und formale Sprachen | 2.7 | 8
IN2049 | Logik | 1.7 | 8

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**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2106 | Master’s Thesis | 1.0 | 10

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**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2107 | Advanced Seminar Course | 1.0 | 5

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**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2114 | Engineering Software-intensive Systems (SE) | 1.3 | 5

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**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2081 | Software Engineering for Business Applications | 1.0 | 5

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**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2087 | Interdisciplinary Project in an Application Subject | 1.0 | 10

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**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2114 | Interdisciplinary Project in an Application Subject | 1.3 | 5

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**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2087 | Interdisciplinary Project in an Application Subject | 1.2 | 8

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**Modul-ID** | **Modulbezeichnung** | **Note** | **Credits**
--- | --- | --- | ---
IN2087 | Interdisciplinary Project in an Application Subject | 1.3 | 5
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

more Questions?
Successful Studies!