Master’s program
Informatics

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Academic Programs Office - Informatics
Secretary of the examination board

14\textsuperscript{th} October 2019

http://www.in.tum.de
Contact Persons

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- Academic Programs Office
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- Secretary of the Examination Board
  - Verena Wimmer
  - Willemijn van Gemert (Part time studies)
Contact Persons

- Academic Counseling
  - Vivija Simic
  - Sybille 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 or Master of Science (TUM)
Curriculum Master Informatics

<table>
<thead>
<tr>
<th>Credits</th>
<th>Course</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>53</td>
<td><strong>Elective courses in Informatics</strong></td>
</tr>
<tr>
<td>18</td>
<td><strong>Area of Specialization</strong></td>
</tr>
<tr>
<td>8</td>
<td>2nd area</td>
</tr>
<tr>
<td>8</td>
<td>3rd area</td>
</tr>
<tr>
<td>16</td>
<td>Interdisciplinary Project</td>
</tr>
<tr>
<td>30</td>
<td>Master ‘s Thesis</td>
</tr>
<tr>
<td>16</td>
<td>9 Credits From all areas</td>
</tr>
<tr>
<td>10</td>
<td>10 Credits Free choice</td>
</tr>
<tr>
<td>6</td>
<td>Soft Skills (Support Electives)</td>
</tr>
</tbody>
</table>

**Orientation**

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

18 Credits  
Elective courses in Informatics

53 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

6 Credits  
Soft Skills (Support Electives)

30 Credits  
Master’s Thesis

Will be done in 6 months

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

- **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
  - Orientation: advanced practice
    - 9 Credits: From all areas
  - 10 Credits: Continuing Advanced Practical Course

- **16 Credits**
  - Interdisciplinary Project

- **30 Credits**
  - Master’s Thesis
    - Will be done in 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: advanced practice

Continuing Advanced Practical Course
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
- Orientation: basics
  - 9 Credits
  - Free choice from all areas
  - 10 Credits
- Interdisciplinary Project
  - 16 Credits
- Master’s Thesis
  - 30 Credits
- Master’s Thesis
  - Will be done in 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
- Basics
- Free choice from all areas
- Soft Skills (Support Electives)
Curriculum Master Informatics

5 Credits
Master-Seminar

10 Credits
Advanced Practical Course

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

53 Credits
Area of Specialization

8 Credits
2nd area

8 Credits
3rd area

9 Credits
From all areas

10 Credits
Guided research

16 Credits
Interdisciplinary Project

6 Credits
Soft Skills (Support Electives)

30 Credits
Master’s Thesis

Will be done in 6 months

Orientation: research
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
  - Orientation: international
    - 9 Credits
      - Study abroad
    - 10 Credits
      - Soft Skills
        - 6 Credits
          - (Support Electives)

16 Credits
- Interdisciplinary Project

30 Credits
- Master’s Thesis
  - Will be done in 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: 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.

Study abroad
- 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.

Soft Skills
- 6 Credits
  - (Support Electives)

Master’s Thesis
- 30 Credits

Interdisciplinary Project
- 16 Credits

Elective courses in Informatics
- 53 Credits

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.

Study abroad
- 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.

Soft Skills
- 6 Credits
  - (Support Electives)

Master’s Thesis
- 30 Credits

Interdisciplinary Project
- 16 Credits
Curriculum Master Informatics

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- Master-Seminar

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- Advanced Practical Course

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- Elective courses in Informatics
  - 18 Credits
    - Area of Specialization
    - 8 Credits
      - 2nd area
    - 8 Credits
      - 3rd area

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

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) 6 Credits
Interdisciplinary Project (IDP)

- Goal: Bridging the gap between Informatics and its application
- Standard application areas
  - Mathematics
  - Electrical engineering
  - Medicine
  - Mechanical Engineering
  - Economics
- 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

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Master-Seminar

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18 Credits
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10 Credits
Free choice

16 Credits
Interdisciplinary Project

6 Credits
Soft Skills (Support Electives)

30 Credits
Master’s Thesis
Will be done in 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
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)</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></td>
<td>Master’s Seminar (5)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective Courses (10)</td>
<td></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)
  – MyTUM-login necessary
  – information on registration of examinations see 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
Repitition of Examinations

(§ 44 FPSO together with § 23 und § 24 APSO)

• Failed examinations of required modules have to be repeated at the next offered examination date
  – for required modules each semester a repeat examination is offered
  – in most cases until first week of lecture period of the following semester

• Repitition 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)

- 2\textsuperscript{nd} semester: no examination passed $\rightarrow$ ir
- 3\textsuperscript{rd} semester: less than 30 credits $\rightarrow$ ir
- 4\textsuperscript{th} semester: less than 60 credits $\rightarrow$ ir
- 5\textsuperscript{th} semester: less than 90 credits $\rightarrow$ ir
- 6\textsuperscript{th} semester: examinations not yet taken $\rightarrow$ np
- 7\textsuperscript{th} semester: examinations not yet taken $\rightarrow$ 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 Fundamental Examinations.
- Bridging courses 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.
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!