Master‘s program Informatics

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Academic Programs Office - Informatics
Secretary of the examination board

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

- **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
  – Imme Proske

• International Affairs
  – Lena Krone (international degree students)
  – Martina von Imhoff (study abroad)
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

5 Credits
- Master-Seminar

10 Credits
- Advanced Practical Course

53 Credits
- 18 Credits: Elective courses in Informatics
- 8 Credits: 2nd area
- 8 Credits: 3rd area
- 8 Credits: From all areas
- 10 Credits: Free choice

16 Credits
- Interdisciplinary Project

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

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.
Different Orientations within the Programme

- Practice
- Basics
- Research
Curriculum Master Informatics – Practice

- 5 Credits: Master-Seminar
- 10 Credits: Advanced Practical Course

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

Orientation: practice

- 16 Credits: Interdisciplinary Project
- 30 Credits: Master’s Thesis
  - Will be done in 6 months

- 53 Credits: Elective courses in Informatics
- 18 Credits

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

- 2nd Advanced Practical Course
Curriculum Master Informatics – Advanced practice

- 5 Credits: Master-Seminar
- 10 Credits: Advanced Practical Course
- 53 Credits:
  - 8 Credits: Area of Specialization
  - 8 Credits: Area of Specialization
  - 9 Credits: From all areas
  - 10 Credits: Continuing Advanced Practical Course
- 16 Credits: Interdisciplinary Project
- 30 Credits: Master’s Thesis

Elective courses in Informatics

Orientation: advanced 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.

Soft Skills (Support Electives)

Will be done in 6 months
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
    - 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
  - 10 Credits
    - 9 Credits: Free choice from all areas
    - 10 Credits: 3rd area

16 Credits
- Interdisciplinary Project

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

18 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

Orientation:
- basics
  - Free choice from all areas

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

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: research
    - 9 Credits
      - From all areas
    - 10 Credits
      - Guided research

16 Credits
- Interdisciplinary Project

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

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.

Soft Skills (Support Electives)
6 Credits
Curriculum Master Informatics

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

- **30 Credits**: Interdisciplinary Project

- **5 Credits**: Master-Seminar

- **10 Credits**: Advanced Practical Course

**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

**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.
Interdisciplinary Project (IDP)


- “Let's talk about IDP & Application Project”
  www.in.tum.de/en/current-students/advising-and-support/academic-advising/
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
          - 3rd area
        - 8 Credits
          - From all areas
        - 9 Credits
          - Free choice
        - 10 Credits
          - Soft Skills (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.
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>or 2\textsuperscript{nd} or continuing APC (10)</td>
<td>or Guided Research (10)</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)
- 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 [https://www.in.tum.de/en/in/current-students/administrative-matters/](https://www.in.tum.de/en/in/current-students/administrative-matters/)
- Withdrawal
  - early withdrawal without indication of reasons possible
  - information on withdrawal see link above
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

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

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

<table>
<thead>
<tr>
<th>Modul-ID</th>
<th>Modulbezeichnung</th>
<th>Note</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.2</td>
<td></td>
<td></td>
<td>121</td>
</tr>
</tbody>
</table>

**Prüfung:**
- mit Auszeichnung bestanden (passed with high distinction)

<table>
<thead>
<tr>
<th>Modul-ID</th>
<th>Modulbezeichnung</th>
<th>Note</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN2106</td>
<td>Master's Thesis</td>
<td>1.0</td>
<td>30</td>
</tr>
</tbody>
</table>

**Subject:**
- Die Thesis wurde in englischer Sprache verfasst. (The thesis was written in English.)

### Transcript of Records: Zusatzleistungen

**Additional Examinations**

<table>
<thead>
<tr>
<th>Modul-ID</th>
<th>Modulbezeichnung</th>
<th>Note</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Schweddich A2</td>
<td>1.0</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Start-up financing</td>
<td>1.0</td>
<td>0</td>
</tr>
</tbody>
</table>

**Formale Methoden und ihre Anwendungen (FMA)**

**Formal Methods and their Applications (FMA)**

<table>
<thead>
<tr>
<th>Modul-ID</th>
<th>Modulbezeichnung</th>
<th>Note</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IN2041</td>
<td>Automaten und formale Sprachen: Automaten und Formale Sprachen</td>
<td>2.7</td>
<td>8</td>
</tr>
<tr>
<td>IN2048</td>
<td>Logik</td>
<td>1.7</td>
<td>8</td>
</tr>
<tr>
<td></td>
<td>Rorobot (ROD)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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
- https://www.in.tum.de/en/in/current-students/administrative-matters/student-code-of-conduct/
more
Questions?
Successful Studies!