Master‘s program Informatics

Verena Wimmer
Academic Programs Office - Informatics
Secretary of the examination board

October 17, 2022

http://www.in.tum.de

Content

- Contact persons
- Master‘s programme
- Study Plan
- Examinations
- Bridging Courses / Requirements for Admission
- Certificate of Graduation
- Student Code of Conduct

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 — Elective courses in Informatics

18 Credits — Area of Specialization

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

8 Credits — 2nd area

8 Credits — 3rd area

9 Credits — From all areas

10 Credits — Free choice

16 Credits — Interdisciplinary Project

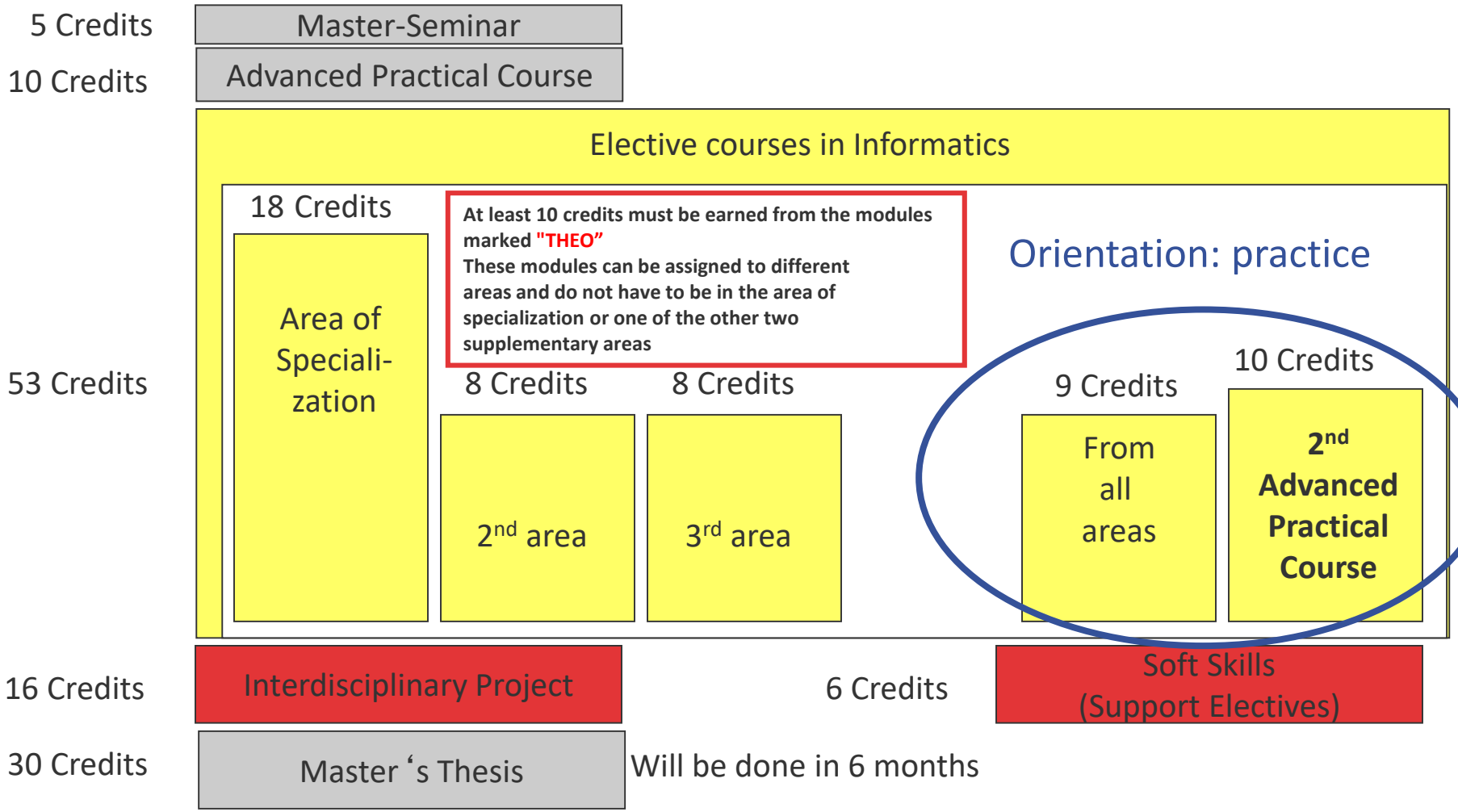
6 Credits — Soft Skills (Support Electives)

30 Credits — Master ‘s Thesis — Will be done in 6 months

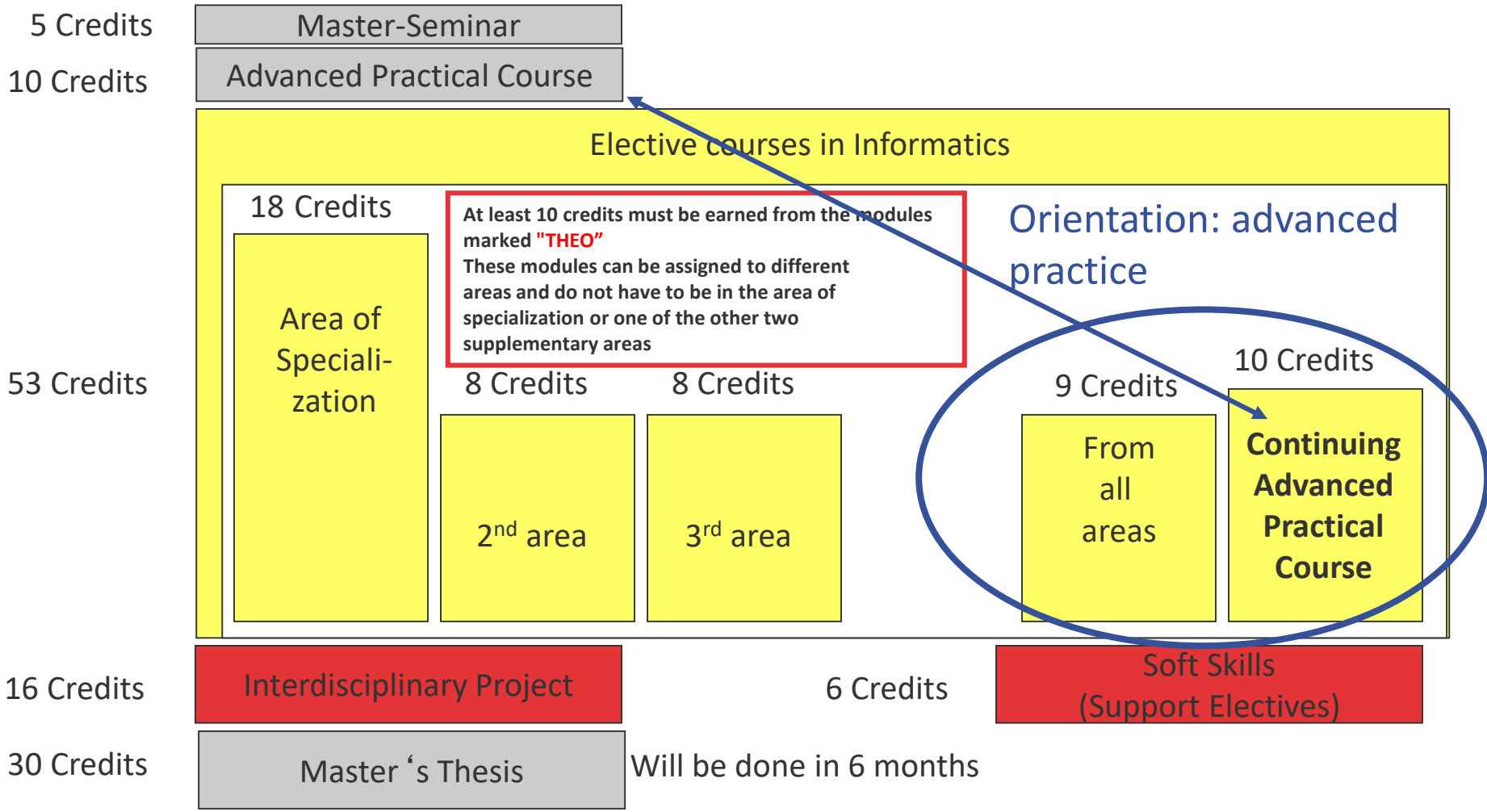
Different Orientations within the Programme

- Practice
- Basics
- Research

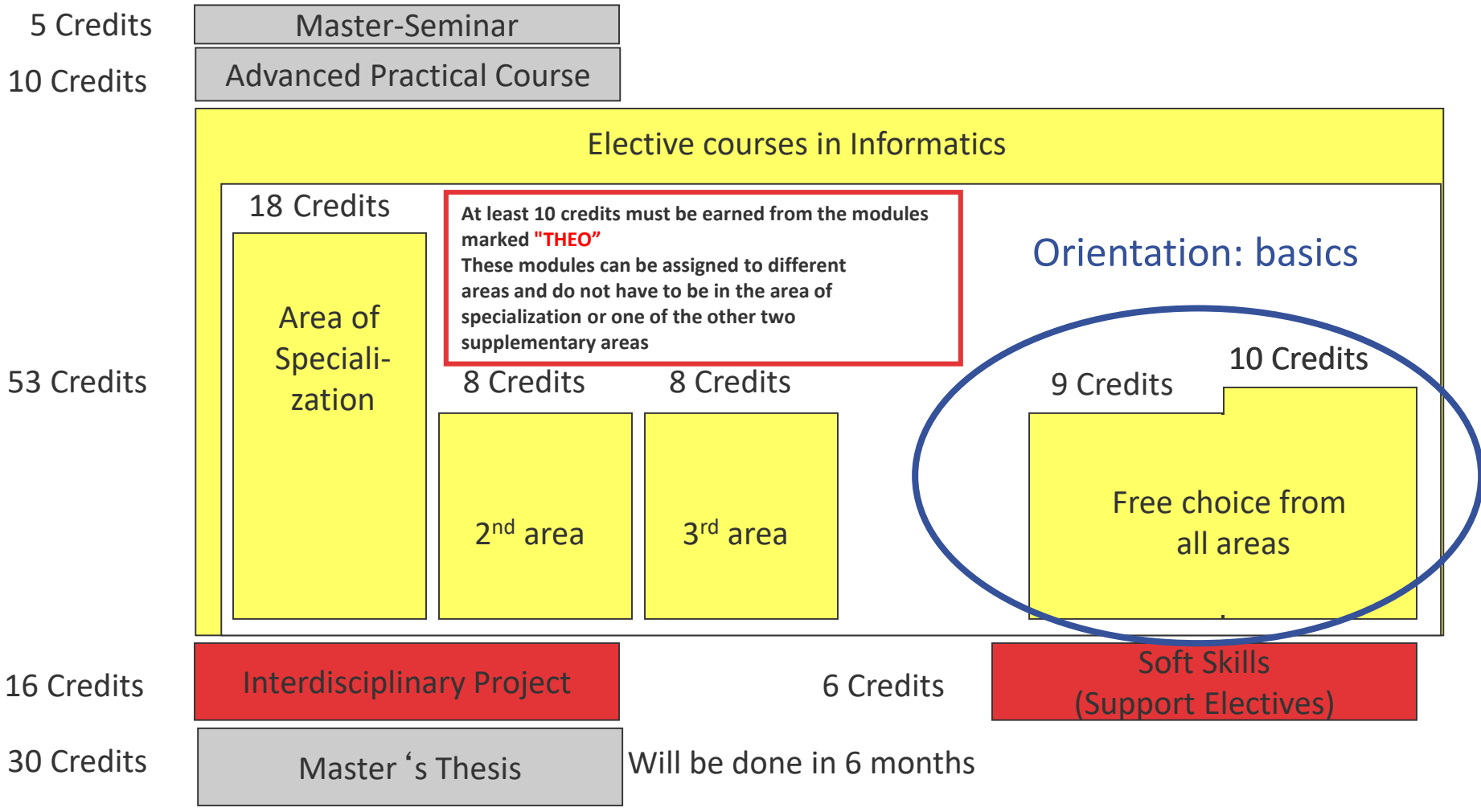
Curriculum Master Informatics – Practice



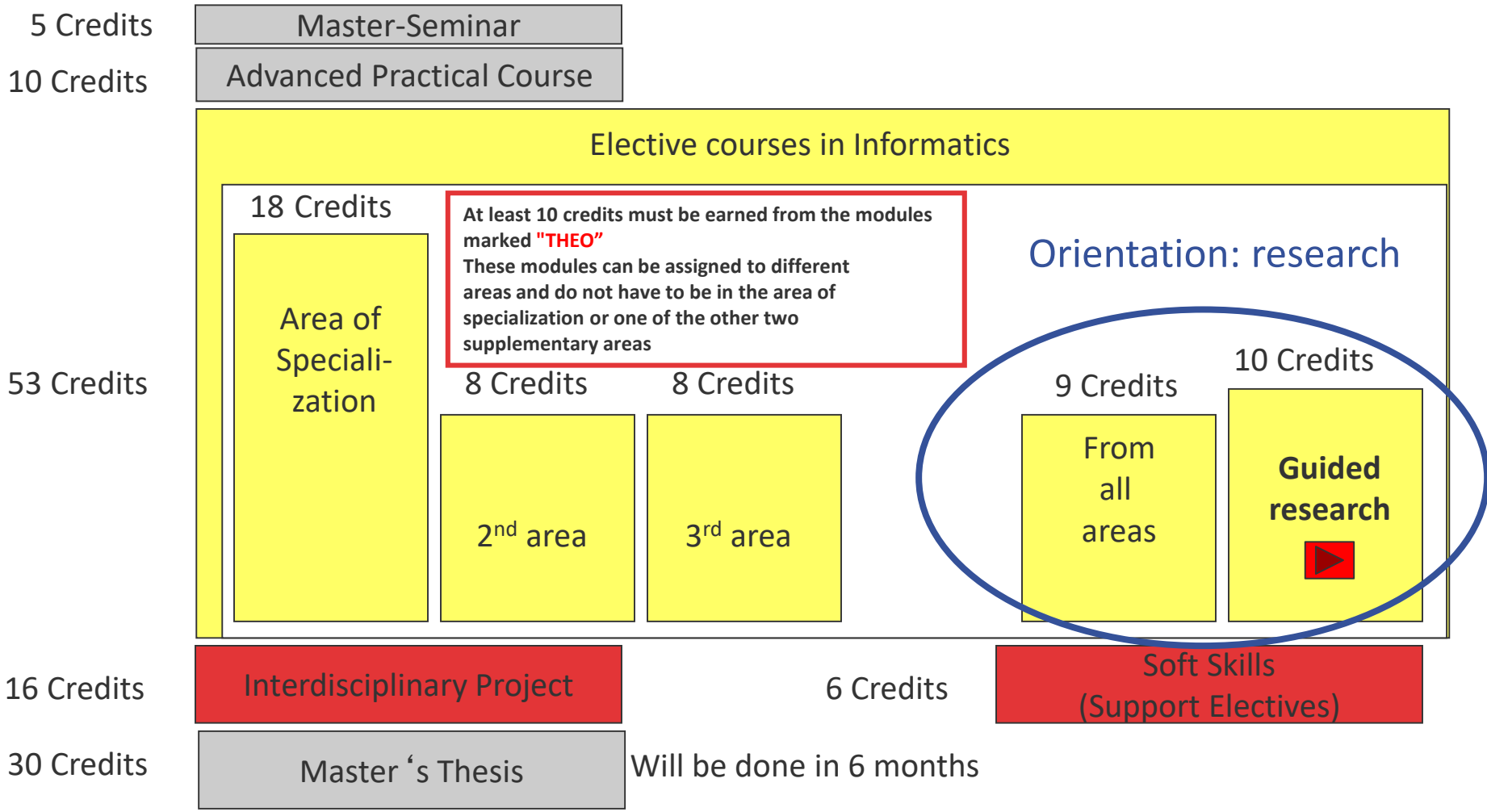
Curriculum Master Informatics – Advanced practice



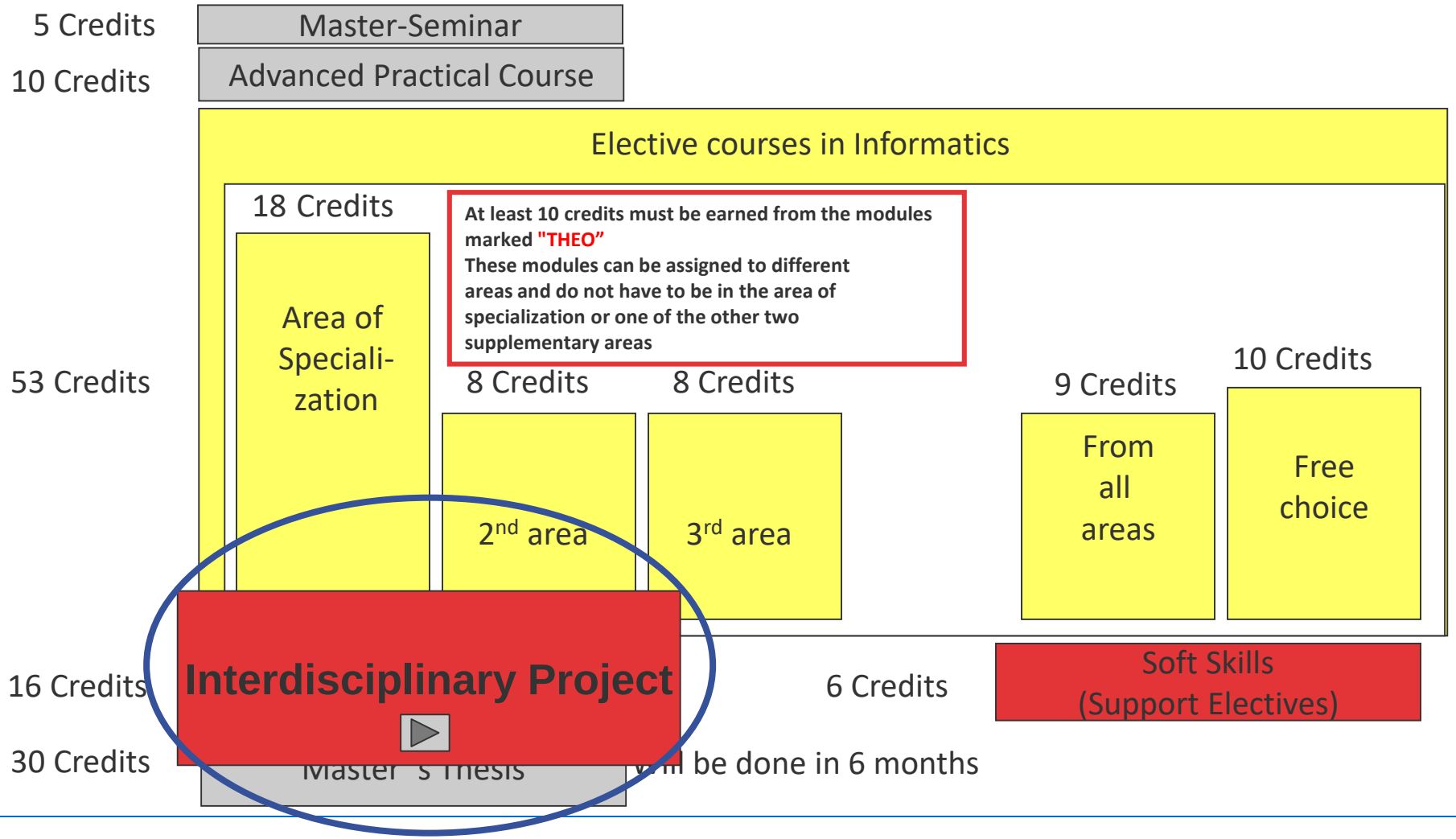
Curriculum Master Informatics - Basics



Curriculum Master Informatics - Research



Curriculum Master Informatics



Interdisciplinary Project (IDP)

- Website: www.in.tum.de/fuer-studierende/master-studiengaenge/informatik/interdisziplinaeres-projekt/fpo-2012-and-fpso-2016-and-fpso-2018/
- “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

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

8 Credits — 2nd area

8 Credits — 3rd area

9 Credits — From all areas

10 Credits — Free choice

16 Credits — Interdisciplinary Project

6 Credits — Soft Skills (Support Electives)

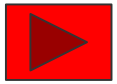
30 Credits — Master's Thesis

Will be done in 6 months

Support Electives

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

  (assignment only upon request)



Study Plan - Structure of the 4 terms

Sem	Informatics Methodology and Knowledge		Informatics Practice		Informatics Research
1	Elective Courses (27)				
2	Elective Courses (11)		Advanced Practical Course (APC)(10)		
3	Elective Courses (5) Master‘s Seminar (5)				
	Elective Courses (10)	or	2nd or continuing APC (10)	or	Guided Research (10)
4	Master‘s Thesis (30)				

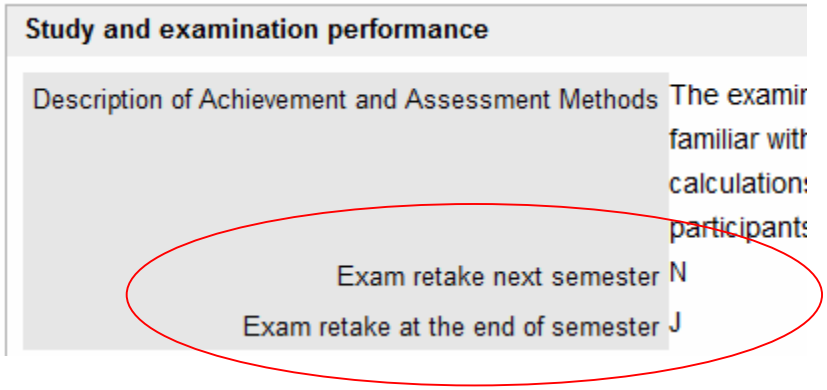
- **Additionally** in the 1st to 3rd semester: Support Electives (6) and IDP(16)
- You are not bound to follow this plan, it is a recommendation
  - lectures can be heard according to the individual needs …

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)
  - TUM account necessary
  - information on registration of examinations see 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



Study and examination performance	
Description of Achievement and Assessment Methods	The examir familiar with calculations participants
Exam retake next semester	N
Exam retake at the end of semester	J

- 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 → 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/
- 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

Studiengang/Degree Program:
Informatik
Informatics

Akademischer Grad/Academic Title:
Master of Science (M.Sc.)

Zeugnisdatum/Certificate Date:
29. Mai 2020
29 May 2020

Gesamtnote und -credits: Overall Grade and Credits:	**1,2**	**121**
Prädikat: Designation:	**mit Auszeichnung bestanden** passed with high distinction	

Modul-ID Module ID	Modulbezeichnung Module Title	Note Grade	Credits Credits	
Master's Thesis Master's Thesis				
IN2108	Master's Thesis Master's Thesis	1,0	30	
	Thema: [redacted] Die Thesis wurde in englischer Sprache verfasst. Topic: [redacted] The thesis was written in English.			

Transcript of Records: Zusatzleistungen

Transcript of Records: Additional Exams

Modul-ID Module ID	Modulbezeichnung Module Title	Note Grade	Credits Credits
Zusatzfächer Additional Examinations			
	Schwedisch A2 Swedish A2	1,0	3 *)
	Start-up financing Start-up financing	1,0	6

Modul-ID Module ID	Modulbezeichnung Module Title	Note Grade	Credits Credits	
Master-Praktikum Advanced Practical Course				
IN2106	Master-Praktikum Advanced Practical Course Praktikum - iOS Practical Course iOS	1,0	10	
Master-Seminar Advanced Seminar Course				
IN2107	Master-Seminar Advanced Seminar Course Masterseminar - Trends in Software and Systems Architecture Masterseminar - Trends in Software and Systems Architecture	1,0	5	
Interdisziplinäres Projekt Interdisciplinary Project				
IN2334	Interdisziplinäres Projekt in einem Anwendungsfach Interdisciplinary Project in an Application Subject Front-end (vue.js/D3) und Backend (node.js) zur User-Authentifizierung, Dokumentenablage, Messaging und Multi-Language Support Front-end (vue.js/D3) and Backend (node.js) for user authentication, document storage, messaging and multi-language support	1,0	16	
Wahlmodulkatalog Informatik Elective Modules Informatics				
Engineering software-intensiver Systeme (SE) Engineering Software-intensive Systems (SE)				
IN2087	Software Engineering für betriebliche Anwendungen - Masterkurs: Web Application Engineering Software Engineering for Business Applications - Master's Course: Web Application Engineering	1,3	8 *)	
IN2081	Muster in der Softwaretechnik Patterns in Software Engineering	1,0	5	
IN2114	Automotive Software - Methoden und Technologien Automotive Software - Methods and Technology	1,3	5 *)	
Formale Methoden und ihre Anwendungen (FMA) Formal Methods and their Applications (FMA)				
IN2041	Automaten und formale Sprachen Automata and Formal Languages	2,7	8	
IN2049	Logik Logic	1,7	8 *)	
Robotik (ROB) Robotics (ROB)				

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!