Welcome to Materials Science at TU Darmstadt

MSc Materials Science

Dr. Hannah Sonderfeld

Coordinator at dean‘s office
Office: L2|01 building, room 209
hannah.sonderfeld@tu-darmstadt.de

This talk will be uploaded to the Materials Science webpages at **Master/Information for new Master students**

Categories of Students

TECHNISCHE UNIVERSITÄT DARMSTADT

Six categories of students here:

1. Exchange students (**not** in Master degree programme; e.g. Erasmus)
2. National Incomings in Master degree programme
3. International Incomings in Master degree programme
4. Bachelor students in Materials Science (TU Da) who did not graduate yet
5. Bachelor graduates in Materials Science (TU Da) in Master degree programme

Other? This talk:

- Mainly geared to categories 2-5,
- lesser to category 1

After talk: All students of categories (1) 2-3 are encouraged to stay for Q&A session

Content

TECHNISCHE UNIVERSITÄT DARMSTADT

- Some special issues due to the pandemic
- Framework and formal aspects of the Master course
  - Suggested schedule & elective courses
  - Academic achievements (Exam types, GPA, special course settings)
  - Support (Mentoring programme, departmental contacts)
  - Labs and internships (Industrial internship, RL I & II, ARL)
  - Exchange programmes

Part I

- Further support (Mentoring, IT)
- Orientation on campus
- TUCaN
- Exams (Registration and hints)

Part II

For students new to TU Darmstadt

Special pandemic issues

TECHNISCHE UNIVERSITÄT DARMSTADT

General TU:

- Entrance to buildings and courses with medical mask only
- Up-to-date regulations can be found here:

https://www.tu-darmstadt.de/universitaet/aktuelles_meldungen/corona_vorsorge/index.en.jsp

Institute of Materials Science:

- Lectures and labs are offered face-to-face and online
- Online options for exams
- More information:
  https://www.mawi.tu-darmstadt.de/materialwissenschaft/Coronavirus_Informationen.en.jsp

Suggested schedule

More info: see M.Sc. Materials Science web page

TECHNISCHE UNIVERSITÄT DARMSTADT

1. Semester	***CP*** *SWS*	*2. Semester*	***CP*** *SWS*	*3. Semester (optional stay abroad)*	***CP*** *SWS*	*4. Semester*	***CP*** *SWS*
(1) Research Lab I	**SL 4** pass/fail Lab4	(2) Research Lab II	**SL 4** pass/fail Lab4	(3) Advanced Research Lab with Seminar	**SL 15** pass/fail Lab24+P2	(9) Master Thesis and Defense	**FP 30** graded
(4) Quantum Mechanics for Mat. Sci. or Micromechanics and Hom. Techn.	**FP 6** graded L3+E1	(7) Theoretical Methods in Materials Science	**FP 6** graded L3+E1				
(5) Functional Materials	**FP 6** graded L4	(8) Advanced Characterization Methods of Materials Science	**FP 6** graded L3+E1				
(6) Surfaces and Interfaces	**FP 5** graded L3						
Elective Courses Materials Science			**FP 29** graded				
Elective Courses (not Materials Science)			**FP/SL 9** graded or pass/fail				
Orientation Day	**0**			Career Coaching	**0**		
Mentoring							
Sum CP	**30**	*Sum CP*	**30**	*Sum CP*	**30**	*Sum CP*	**30**

Elective Courses Materials Science	29	Choice of Quantum Mechanics or Micromechanics	6	FP = "Fachprüfung" = graded exam (max. 3 attempts, except thesis: max. 2 attempts)
		Mandatory Courses Materials Science	23	SL = "Studienleistung" = ungraded study work
		Materials Science Labs	23	SLb = "Studienleistung benotet" = graded study work
Elective Courses (not Materials Science)	9	Master Thesis	30	L = lecture, E = exercises, P = presentation,
		Sum	**120**	Lab = laboratory course, CP = credit points

Start in summer term: Schedule **out of step**

Suggested schedule

More info: see M.Sc. Materials Science web page

TECHNISCHE UNIVERSITÄT DARMSTADT

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Elective Courses Materials Science				**FP 29** graded			
Elective Courses (not Materials Science)				**FP/SL 9** graded or pass/fail			
Orientation Day	**0**			Career Coaching	**0**		
Mentoring							
Sum CP	**30**	*Sum CP*	**30**	*Sum CP*	**30**	*Sum CP*	**30**

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Suggested schedule

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Elective Courses Materials Science			
Elective Courses (not Materials Science)			
Orientation Day	**0**		
Mentoring			
Sum CP	**30**	*Sum CP*	**30**

Elective Courses Materials Science	29	Choice of Quantum Mechanics or Micromechanics	6
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		Sum	**120**

QM / MM (6 CP = 6 ECTS)

Choice:

- Quantum Mechanics for Materials Science

or

- Micromechanics for Materials Science

The respective other module may be taken as an „Elective Course Materials Science," if desired.

Suggested schedule

Start in summer term: Schedule **out of step**

TECHNISCHE UNIVERSITÄT DARMSTADT

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Elective Courses Materials Science (29 CP)

More info: see M.Sc. Materials Science web page

Elective Courses Materials Science (29 CP)

TECHNISCHE UNIVERSITÄT DARMSTADT

- Question to all international degree seeking students:
  Did you get a departmental admission letter with „obligations“? Usually:
  - Lecture „Concepts in Materials Physics“ and
  - „Seminar Research Topics in Materials Science“,

  but sometimes different. No departmental admission letter? Contact the office of student affairs!
  Check if „Concepts…“ course makes sense for you. If not, contact Prof. B.-X. Xu (chair of exam. board)

- Possibilities:
  - „Concepts in Materials Physics“ (take only, if obligatory for you!) and „Seminar Research Topics in Materials Science”
  - „Courses from Master Materials Science module guide“ (check in TUCaN: the department may offer more courses than listed in the module guide)
  - Materials Science related courses outside the department (physics, chemistry, mech. eng., electr. eng., Master course „Energy Science and Engineering“…)
  - Does **not** include obligations („Auflagen“) from the Bachelor course (e.g. Materials Science III), their CP do **not** count towards degree

- Prepare your personal schedule, discuss it with your mentor, best right away (this or next week!)
- Give personal list of modules **with mentor‘s signature** to the office of student affairs, rm 79 → Scan is sufficient!
- **Only** modules with numerical grade 1.0, 1.3, …, 4.0; 5.0 are acceptable!!
- Modules with only pass/fail are **not** acceptable!!

Excel template available on Master homepage > Documents and forms

Suggested schedule

Start in summer term: Schedule **out of step**

TECHNISCHE UNIVERSITÄT DARMSTADT

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Elective Courses not Materials Science (9 CP)

More info: see M.Sc. Materials Science web page

Elective Courses (not Mat. Sci.) (9 CP)

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- Graded (1.0, 1.3, …, 4.0; 5.0) or ungraded (pass/fail): if graded, grade does **not** count towards GPA
- Choose for yourself or discuss with your mentor

- Few courses in English language at TUDa;
  → **International students**: Take German language courses:
  https://www.spz.tu-darmstadt.de/index.en.jsp

- List of already approved courses: see
  - pdf file on Master homepage and
  - look into list „Genehmigte Wahlpflichtmodule“ on Bachelor homepage; acceptable categories are

    „2. Nicht-technisch-naturwissenschaftliche Wahlpflichtfächer“ and

    „3. Wahlweise Technisch-naturwissenschaftliche oder Nicht-technisch-naturwissenschaftliche Wahlpflichtfächer (passend für beide Kategorien)“
- May also be from natural sciences or engineering, but only if **not** Materials Science-related
- English language courses **only** acceptable if they extend beyond admission level for Master course
- For other than already approved choices: If uncertain, write Email to studienbuero@mawi.tu-darmstadt.de

Additional courses

TECHNISCHE UNIVERSITÄT DARMSTADT

„Additional Courses:“ ad libitum

- CP do **not** count towards degree, grades do **not** count towards final GPA
- Additional courses will be listed on a separate transcript

Types of exams: FP, SL, Thesis

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- FP = „Fachprüfung“:
  - Graded exam (grades 1.0, 1.3, …, 4.0, 5.0; oral or written) with only three attempts
  - After failing twice in same exam, talk to your mentor!
  - If you and the teacher agree: third attempt of written exam may be taken as oral exam
  - Once during M.Sc. course after three failed written attempts: oral last-chance attempt („mündliche Ergänzungsprüfung“)

- SL, SLb = „Studienleistung“ (SL: pass/fail, SLb: graded):
  - Graded or ungraded study achievement without limitations on number of attempts
  - In Materials Science: Labs, Seminars, where you are automatically registered for „exams“:

    Lab: successfully carrying out all experiments

    Seminar: Successful seminar talk and seminar participation
- Master Thesis:
  - Only two attempts
  - Once: possibility to return subject without failed attempt: latest after 8 weeks
  - Deadline after 26 weeks (ca. 1/2 year); you may apply for a justified extension up to 13 weeks

Calculation of final GPA

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Grades weighted with CPs of their modules:

- Mandatory lectures
- Quantum Mechanics/Micromechanics
- Elective Courses Materials Science

Grade weighted with 1,5 x CPs:

- Master Thesis

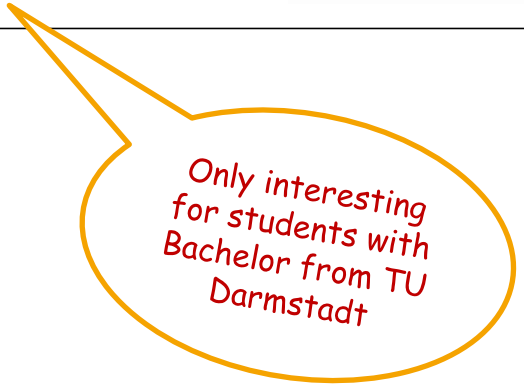
No contribution to final GPA:

- Research Labs I & II, Advanced Research Lab
- Elective Courses (not Materials Science)
- Additional Courses

„Vorgezogene Masterleistungen“ from B.Sc.

(„early Master achievements“)

TECHNISCHE UNIVERSITÄT DARMSTADT



After matriculation to the Master course in TUCaN

send Email to studienbuero@mawi.tu-darmstadt.de,

and ask that „early Master achievements“ are moved from the Bachelor to the Master course.

Functional Materials

TECHNISCHE UNIVERSITÄT DARMSTADT

New BSc and MSc study regulations were installed in WS 2015/16:

- „Functional Materials“ moved from Bachelor to Master
- „Materials Engineering“ moved from Master to Bachelor
  (now in German and called „Werkstoffherstellung und -verarbeitung“)

Only interesting for students who graduated with an „old“ Bachelor Mat. Sci. from TU Darmstadt:

Consequences for Bachelor graduates according to regulations from 2008:

- You passed „Funktions- und Konstruktionsmaterialien“ as part of your mandatory curriculum and are **not** allowed to take „Functional Materials“ for credit again.
  → Choose more elective course(s) instead: 35 CP instead of 29 CP!

  Encouraged option: „Werkstoffherstellung und –verarbeitung“ (5 CP)

Interesting for all Master students

→ The above circumstances cause a technical issue in TUCaN:

Sum of listed necessary CPs in each area yields only 114 CP.

Don‘t be fooled by this! You need a minimum of 120 CP for your Master degree!

Mentoring programme

TECHNISCHE UNIVERSITÄT DARMSTADT

- Choose mentor according to your research interests (but may be changed later).
- Register in TUCaN:
  - register in TUCaN for **module** „Discussion with Mentor – Master
  - register in TUCaN for **course** „ Discussion with Mentor – Master - <name of prof.>“
- Arrange for an appointment yourself!
- Prepare preliminary „personal schedule“ for discussion with mentor (Excel template available on Master homepage)
- The sooner the appointment the better; latest at the end of the first semester:

→ else no more registration in TUCaN possible!

Mentoring: Personal advice by professor

Up to 6 students per professor

Possible Mentors

- Mr. Prof. K. Albe
- Mr. Prof. L. Alff
- Mr. Prof. W. Donner
- Mr. Prof. K. Durst
- Mr. Apl.-Prof. Y. Genenko
- Mr. Prof. O. Gutfleisch
- Mr. Prof. J.P. Hofmann
- Mr. Prof. A. Klein
- Mr. Prof. R. Krupke
- Mr. Prof. C. Kübel
- Mr. Ass.-Prof. L. Molina-Luna
- Mr. Apl.-Prof. C. Müller
- Mr. Prof. R. Stark
- Ms. Prof. A. Weidenkaff
- Ms. Prof. B.-X. Xu
- Mr. Prof. H. Zhang

For a list of all research groups and links to their webpages see here:
https://www.mawi.tu-darmstadt.de/materialwissenschaft/fachgebiete_mawi/index.de.jsp

Advice for study-related questions

Your mentor!

TECHNISCHE UNIVERSITÄT DARMSTADT

Prof. Bai-Xiang Xu

Chair of the examination board

Room L1|08/419, Phone 16-21906,
pk@mawi.tu-darmstadt.de

Office hours: Wednesday 11:30 - 12:30

PD Dr. Boris Kastening

Study coordinator

Room L2|01/78, Phone 16-22244,
boris.kastening@tu-darmstadt.de

Jessica Bagnoli

Office of student affairs: exams, TUCaN

Room L2|01/79,
studienbuero@mawi.tu-darmstadt.de

Ruben Bischler

Master degree students

Room L2|01/207, Phone 16-22019,
master@mawi.tu-darmstadt.de

Dr. Hannah Sonderfeld

International exchange students

Room L2|01/209, Phone 16-22245,
auslandskoordination@mawi.tu-darmstadt.de

Labs (Praktika)

TECHNISCHE UNIVERSITÄT DARMSTADT

- Industrial Lab → Internship / Work experience
- Research Lab I & II → Lab course within the department
- Advanced Research Lab → Own research project

Industrial Lab / Internship

TECHNISCHE UNIVERSITÄT DARMSTADT

- Formally prerequisite for Master course, but may be finished until before starting Master thesis
  - if you already did it for the Bachelor course, you‘re done

- Internship at company (or research institute outside TU Darmstadt)
- Duration of at least 6 weeks, with report
- Related to materials science

- Apprenticeship or work experience in related areas is also fine (get approvement!)
- Information sheet on Master homepage

- Approvements, reports, other questions:

Dr. Enrico Bruder, phone 16-22556, e.bruder@phm.tu-darmstadt.de

Research Lab II

TECHNISCHE UNIVERSITÄT DARMSTADT

- Lab course during the semester covering 6 experiments
- Introductory meeting with Dr. Hannah Sonderfeld on

Wednesday, 13 April 2022
at 08:00 – 09:30 am
in L2|03, Lecture Hall 05
or on zoom
(link can be found in moodle course)

Participation in the introductory meeting is mandatory!

Advanced Research Lab (ARL) and Master Thesis

TECHNISCHE UNIVERSITÄT DARMSTADT

Boundary condition: **only one** of **ARL** and **Master Thesis** may be carried out externally, **NOT BOTH**

"external" := "not at a university"

- i.e., at a company or external research institution
- exceptions:
  - GSI (@ Prof. Trautmann)
  - MPA/IfW (@ Prof. Oechsner)
  - IWKS/Fraunhofer (@ Prof. Weidenkaff or Dr. Ionescu)
  - KIT (@ Profs. Krupke or Kübel) are counted as "internal"

Please note the guidelines for (external) Master Thesis on the materials science webpage

External ARL or Master Thesis: no non-disclosure agreement will be signed except in German law---and only if the advisor is willing to do so

International Exchange Programmes

TECHNISCHE UNIVERSITÄT DARMSTADT

- Next application period for Erasmus+ places within **Europe**: May 2022
- Application period for places **worldwide** with deadline for most applications: 30.11.2022, some earlier!
- Webpages Materials Science and further links:

www.mawi.tu-darmstadt.de/studium/im_studium/auslandsstudium/index.en.jsp

- More information in RL II introductroy session or contact Dr. Hannah Sonderfeld (auslandskoordination@mawi.tu-darmstadt.de)

- publications for download from DAAD (in German):

www.studieren-weltweit.de/publikationen

End of Part I

TECHNISCHE UNIVERSITÄT DARMSTADT

Good luck!
And: Have fun!!

All students new to TU Darmstadt are encouraged to stay for

Part II

- Further support (Mentoring, IT)
- Orientation on campus
- TUCaN
- Exams (Registration and hints)

Master Orientation and Peer Mentoring

TECHNISCHE UNIVERSITÄT DARMSTADT

- Master Orientation Event
  - organised by the “Fachschaft” = student body
  - following this talk and Q&A

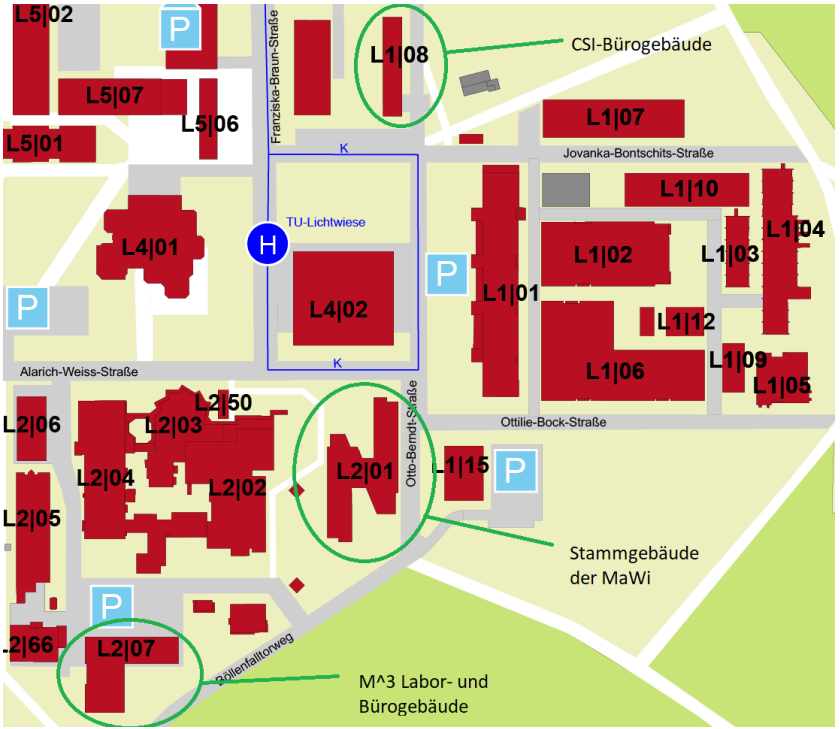
- MasterPlus programme of TU Darmstadt:

  www.tu-darmstadt.de/studieren/studierende_tu/internationale_studierende_1/supportprogramme/masterplus/index.en.jsp

  and Su²Ma – Mentoring workshops for and from materials science students:

  https://www.mawi.tu-darmstadt.de/studium/im_studium/master_mawi/su_ma_mentoring_programme/index.en.jsp

Buildings at Campus Lichtwiese



Other important buidlings:

- Mensa L4|01 (eating place)
- HMZ L4|02 (library, lecture halls, seminar rooms)

Materials Science Lab and Office Building

L2|01
Alarich-Weiss-Str. 2

What you can find here:

- Office of student affairs
- Dean‘s office
- Student Body (Fachschaft)

Office Building

L6|01
Otto-Berndt-Str. 3

Lab and Office Building: M^3

TECHNISCHE UNIVERSITÄT DARMSTADT

L2|07
Alarich-Weiss-Str. 16

TUCaN

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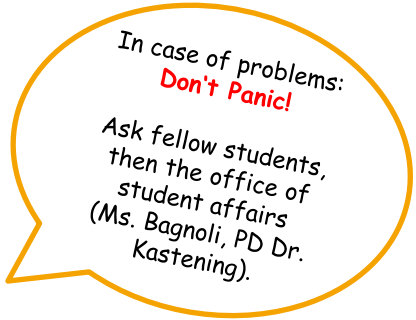

TUCaN = central system for organization of studies and teaching
- with TUCaN register to **modules, courses** therein und **exams**
- with TUCaN check your **grades**

Important:
- activate your TU-ID (see letter with student id card)
- configure your email address in TUCaN
- keep your phone number in TUCaN up to date (preferably mobile)

How to obtain information about TUCaN:
1. www.tu-darmstadt.de/tucan-faq
2. Flyers at the office of student affairs
3. Fachschaft (= student body within mat. sci., mostly Bachelor students)

Exam registration rules

Exceptions only in truly exceptional cases

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- Exams with a collective date (written or oral):
  - register in TUCaN in time; for Mat. Sci. exams at least 8 calender days before!
  - other rules for exams of other departments; e.g. central reg. periods June 01.-30./Nov. 15.-Dez. 15.
- Oral exams without collective date:
  - register in TUCaN and arrange for an appointment yourself!
- Changed your mind? Deregister at least 8 calender days before!
- Problems in TUCaN? Tell office of student affairs before deadline!

Special pandemic rules no longer in place!

- If you are sick *and* it is too late for deregistering:
  - Get physician's certificate that you were „prüfungsunfähig"=„unable to participate in an exam" or „arbeitsunfähig"=„unable to work" and give it to office of student affairs within three calendar days after the exam (if this is Sat, Sun, holiday: next working day thereafter), scan to studienbuero@mawi.tu-darmstadt.de is fine
- Other important reasons *and* it is too late for deregistering :
  - Give notice to office of student affairs and be prepared to provide evidence for such reasons

Some hints for exams

TECHNISCHE UNIVERSITÄT DARMSTADT

Preparing for exams:

- Participate in the exercises, if offered
- Do not learn by heart, but try to understand
- Try to understand not only *how* things work, but *why*
- Learn in groups

Oral exam:

- Ask your professor for examples of typical questions
- Ask each other questions

Writing the exam:

- Given time limits are strict
- Read over all questions first
- Start with the easiest questions
- Adjust the level of detailedness of your answers to the time given

Software

TECHNISCHE UNIVERSITÄT DARMSTADT

- **Sophos antivirus** software for free with TU-ID via HRZ

- For **QtiPlot** software see departmental webpage:

  Office of student affairs/Master -> Documents and Forms -> Software for Students

- In case of problems: Andreas Hönl, Stephan Diefenbach
  - phone 16-22240
  - Visit Room 204
  - Mr. Andreas Hönl (andreas.hoenl@tu-darmstadt.de)
  - Mr. Stephan Diefenbach (stephan.diefenbach@tu-darmstadt.de)

Further activities at TU Darmstadt

- University groups and societies

  https://www.tu-darmstadt.de/universitaet/organisation_verwaltung/studierendenschaft_hochschulgruppen/index.de.jsp

- University sports

  https://www.usz.tu-darmstadt.de/

- Library

  https://www.ulb.tu-darmstadt.de/die_bibliothek/index.de.jsp

Materials Science at TU Darmstadt

Good luck!

Check the MaWi-Master homepage

Enjoy your new life in Darmstadt!

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