M.Sc. Materials Science at TU Darmstadt

PD Dr. Boris Kastening
Scientific Coordinator
Office 78/79
Dean's Office and Office of Student Affairs
Dear new Master Students of Materials Science,

Welcome to TU Darmstadt and to the Department of Materials and Earth Sciences!

Usually, I would have delivered this talk standing in front of you. Due to the current restrictions in connection with the Covid-19 virus, this is not possible and therefore you find it only online. Some connected issues have been edited, but we have not tried to change everything to account for the new situation, which in any case is rather volatile. Please keep updated on the TU and Materials Science Corona web pages about new developments on such issues as courses, labs, building access, exams, and communication possibilities.

If questions concerning the Master course remain, please contact Dr. Hannah Sonderfeld, or, if you are a double degree student, Dr. Joachim Brötz. Questions regarding exams may be sent to studienbuero@mawi.tu-darmstadt.de.

With best regards and best wishes for your health,

Boris Kastening
advice for teaching related questions

Prof. K. Durst
Dean of studies, room L2|01/60
office hours: Wednesday 1:00 p.m.-2:30 p.m.

Prof. B. Xu
Chair of examination board, room L1|08/419
office hours: Wednesday 11:30 a.m.-12:30 p.m.

PD Dr. B. Kastening
Scientific coordinator, room L2|01/78

Dr. H. Sonderfeld
Internat. Exch. & M.Sc. degree students, room L2|01/209

Dr. J. Brötz
Double degree students, room L2|01/209
Categories of Students

Six categories of students here:

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

Other?

This talk: mainly geared to categories 2-5

After talk: All students in categories 1-3 are encouraged to stay for Q & A session
# suggested schedule

more info: see M.Sc. Materials Science web page; if start in SS: out of step!

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<td>FP 6</td>
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Elective Courses Materials Science

Elective Courses (not Materials Science)

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<td>Mentoring</td>
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**Choice of Quantum Mechanics or Micromechanics**

**Mandatory Courses Materials Science**

**Materials Science Labs**

**Master Thesis**

**Lab = laboratory course, CP = credit points**

Suggested schedule more info: see M.Sc. Materials Science web page; if start in SS: out of step!
# suggested schedule

more info: see M.Sc. Materials Science web page; if start in SS: out of step!

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<td><strong>SL 4</strong> pass/fail Lab4</td>
<td><strong>SL 4</strong> pass/fail Lab4</td>
<td><strong>SL 15</strong> pass/fail Lab24+P2</td>
<td><strong>FP 30</strong> graded</td>
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<td><strong>FP 6</strong> graded L3+E1</td>
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<td><strong>FP 5</strong> graded L3</td>
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<td><strong>FP/SL 9</strong> graded or pass/fail</td>
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<td><strong>Elective Courses Materials Science</strong></td>
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<td><strong>Choice of Quantum Mechanics or Micromechanics</strong></td>
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<td><strong>Elective Courses (not Materials Science)</strong></td>
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<td><strong>Master Thesis</strong></td>
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FP = "Fachprüfung" = graded exam (max. 3 attempts, except thesis: max. 2 attempts)
SL = "Studienleistung" = ungraded study work
SLb = "Studienleistung benotet" = graded study work
L = lecture, E = exercises, P = presentation, Lab = laboratory course, CP = credit points
Choice:

- Quantum Mechanics for Materials Science
or
- Micromechanics for Materials Science

The other module may be taken as an Elective Course Materials Science, if desired.
# suggested schedule

(more info: see web page; if start in SS: out of step!)

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<td>(2) Research Lab II</td>
<td><strong>SL 4</strong>&lt;br&gt;pass/fail Lab4</td>
<td>(3) Advanced Research Lab with Seminar</td>
<td><strong>SL 15</strong>&lt;br&gt;pass/fail Lab24+P2</td>
<td>(9) Master Thesis and Defense</td>
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Elective Courses Materials Science

Elective Courses (not Materials Science)

Orientation Day 0  Career Coaching 0  
Mentoring 

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Elective Courses Materials Science 29

Choice of Quantum Mechanics or Micromechanics 6  
Mandatory Courses Materials Science 23  
Materials Science Labs 23  

Elective Courses (not Materials Science) 9  
Master Thesis 30  

Sum 120

**FP** = "Fachprüfung" = graded exam (max. 3 attempts, except thesis: max. 2 attempts)

**SL** = "Studienleistung" = ungraded study work

**SLb** = "Studienleistung benotet" = graded study work

L = lecture, E = exercises, P = presentation, Lab = laboratory course, CP = credit points
Elective Courses Materials Science (29 CP)

- Question to all international incomings except double degree and exchange students: Did you get a departmental admission letter with „obligations“? Usually:
  - „Concepts in Materials Physics“ and
  - „Seminar Research Topics in Materials Science“, but sometimes different (can be more, can be less). If not, get it from Dr. H. Sonderfeld!
  Check if „Concepts...“ course makes sense for you. If not, talk to Prof. B. Xu (chair of exam. board!)

- Possibilities:
  - Adjustment course „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, e.g.: „In-situ Transmission Electron Microscopy“)
  - 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, their CP do not count towards degree

- Prepare your personal program, discuss it with your mentor, best right away (this week!)
- Give personal list of modules with mentor's signature to the office of student affairs, rm 79 (Excel template available on Master homepage)
- Only graded modules (i.e. with numerical grade 1.0, 1.3, ..., 4.0; 5.0) are acceptable!!
- Modules with only pass/fail are not acceptable!!
suggested schedule
(more info: see web page; if start in SS: out of step!)

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**Elective Courses Materials Science**
- Choice of Quantum Mechanics or Micromechanics: 6
- Mandatory Courses Materials Science: 23
- Materials Science Labs: 23

**Elective Courses (not Materials Science)**
- Master Thesis: 30

*Notes:
- CP = "Fachprüfung" = graded exam (max. 3 attempts, except thesis: max. 2 attempts)
- SL = "Studienleistung" = ungraded study work
- SLb = "Studienleistung benotet" = graded study work
- L = lecture, E = exercises, P = presentation,
- Lab = laboratory course, CP = credit points*
Elective Courses (not Mat. Sci.) (9 CP)

- 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 TU Darmstadt;
  Intl. students: Take German language courses!
  Deadline for registration is Thursday, 16 April 2020 at 12 noon
  Registration only via TUCaN
  Placement test (not for beginner courses) needed beforehand until 15 April 2020, 12 noon
  See here for information about registration and link to the placement tests:
  https://www.spz.tu-darmstadt.de/kurse/kursanmeldung/inhalt_mit_marginalienspalte_32.en.jsp

- List of already approved courses: see
  - pdf file on Master homepage and
  - look in 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 PD Dr. B. Kastening:
  bkastening@matgeo.tu-darmstadt.de
Additional courses

- „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

- **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 teacher agree: third attempt of written exam may be taken as oral exam
  - Once during M.Sc. course, oral last-chance attempt after three failed **written** attempts
    („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

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:

- Elective Courses (not Materials Science)
- Research Labs I & II, Advanced Research Lab
only interesting for students with Bachelor from TU Darmstadt:

„Vorgezogene Masterleistungen“ from B.Sc.
(„early Master achievements“)

After matriculation to the Master course in TUCaN send

Email to studienbuero@matgeo.tu-darmstadt.de,

so that early Master achievements may be moved from the Bachelor to the Master course.
Functional Materials

Only interesting for students who graduated with an „old“ Bachelor from TU 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“)

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:

- Addition 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 program

- Mentors: personal advice through professors
- Up to 6 students per professor
  register via TUCaN for module and then for „course“ specific to professor

- Choose mentor according to your research interests (but may be changed later).
- Register in TUCaN (module, course, exam) and 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!
- Not enforced (but recommended) for FAME, AMIS, AMIR double degree students
<table>
<thead>
<tr>
<th>Mentors</th>
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<tr>
<td>Mr. Prof. K. Albe</td>
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<td>Mr. Prof. L. Alff</td>
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<td>Mr. Ass.-Prof. O. Clemens</td>
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<td>Mr. Prof. W. Donner</td>
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<td>Mr. Prof. K. Durst</td>
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<td>Mr. Prof. W. Ensinger</td>
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<td>Mr. Prof. O. Gutfleisch</td>
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<td>Mr. Prof. W. Jaegermann</td>
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<td>Mr. Apl.-Prof. A. Klein</td>
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<td>Ms. Jun.-Prof. U. Kramm</td>
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<td>Mr. Prof. R. Krupke</td>
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<td>Mr. Prof. L. Molina-Luna</td>
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<td>Mr. Apl.-Prof. C. Müller</td>
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<td>Mr. Prof. Dr. R. Riedel</td>
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<td>Mr. Prof. M. Saliba</td>
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<td>Mr. Prof. R. Stark</td>
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<td>Ms. Prof. C. Trautmann</td>
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<td>Ms. Prof. A. Weidenkaff</td>
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<td>Ms. Jun.-Prof. B. Xu</td>
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<td>Mr. Jun.-Prof. H. Zhang</td>
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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
- if in one of the FAME, AMIS, AMIR programs, you're done

Internship at company or research institute outside TU Darmstadt

Duration of at least 6 weeks, with report
(give report to Dr. Hannah Sonderfeld, room 209)

Related to materials science
(get approval beforehand by Dr. Hannah Sonderfeld, room 209)

Apprenticeship or work experience in related areas is also fine
(get approval by Dr. Hannah Sonderfeld, room 209)

Information sheet on Master homepage
Introduction session and safety briefing:

Wednesday, April 15 at 8:00 a.m. (i.e., tomorrow)
room L2/03/05 (Chemistry building)
Dr. Hannah Sonderfeld

Participation in the introduction session is mandatory!

A new date for the introduction session will be announced later.

Please register in TUCaN for the module and the course (11-01-4012-pr) to receive all relevant information.
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 (if with Profs. Trautmann or Ensinger), MPA/IfW (if with Prof. Oechsner), KIT (if with Profs. Krupke or Kübel) and IWKS (if with Profs. Gutfleisch or Weidenkaff) are counted as “internal”

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 Programs

Details:

- Webpages Materials Science and further links: https://www.mawi.tu-darmstadt.de/materialwissenschaft/studium_2/auslandsstudium/auslandsstudium_1.en.jsp

- Questions to Dr. Hannah Sonderfeld, e.g. after RL II meeting

- Deadline for most applications: 30.11.2020

- Additional application period for some places in Europe in May 2020
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<td>* Tampereen Teknilinen Yliopisto</td>
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<td>Frankreich</td>
<td>* École Centrale de Lyon</td>
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<td>* École des Mines d’Alès (EMA)</td>
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<td>* Institut National Polytechnique de Grenoble</td>
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<td>* Université de Limoges</td>
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<td>* Università degli Studi di Milano – Bicocca</td>
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<td>* École Polytechnique Fédérale (EPF) Lausanne</td>
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<td>Slowakei</td>
<td>* Slovenská Technická Univerzita v Bratislave (STU)</td>
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<td>* Afyon Kocatepe Üniversitesi</td>
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<td>* Eskisehir Technical University</td>
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<td>* Yildiz Teknik Universitesi</td>
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<td>Ungarn</td>
<td>* Miskolci Egyetem</td>
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All partnerships are currently under review and places might change until the next general application period starts in October 2020.
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<td>* Universidade Federal do Paraná (UFPR)</td>
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<td>China</td>
<td>* Tongji University</td>
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<td>Indien</td>
<td>* IIT Madras (and further IITs)</td>
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<td>Japan</td>
<td>* Niigata University</td>
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<td>* Osaka University</td>
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<td>* Tohoku University</td>
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<td>Kolumbien</td>
<td>* Escuela Colombiana de Ingenieria Julio Garavito</td>
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<td>Kanada</td>
<td>* Ecole Polytechnique de Montreal</td>
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<td>Korea</td>
<td>* Korea Advanced Institute of Science and Technology</td>
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<td>Singapur</td>
<td>* NTU, Nanyang Technical University</td>
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<td>Taiwan</td>
<td>* National Tsing Hua University</td>
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Hessen Exchange programs

- Hessen-Queensland June 1

- Hessen-Massachusetts Program: Nov. 15
  Boston, Lowell, Dartmouth, Amherst

- Hessen-Wisconsin Nov. 15
  Eau Claire, Green Bay, La Crosse, Madison, Milwaukee, Oshkosh, Parkside, Platteville, River Falls, Stevens Point, Stout, Superior, Whitewater
3 publications for download from DAAD (in German):

- „Studieren im Ausland“
- „Praktikum im Ausland“
- „Kürzere Aufenthalte im Ausland“

www.studieren-weltweit.de/publikationen

Information online also in English language
end of first part of the talk

Good luck!
And: have fun!!

1. Exchange students (not in Master degree program; e.g. Erasmus)
2. National incomings in Master degree program, but no double degree
3. International Incomings in Master degree program, but no double degree
4. Bachelor students in Materials Science (TU Da) who did not graduate yet
5. Bachelor graduates in Materials Science (TU Da) in Master degree program

All students in categories 1-3 are encouraged to stay for more info and Q & A session
Questionnaire

1. Exchange students (not in Master degree program; e.g. Erasmus)
2. National incomings in Master degree program, but no double degree
3. International Incomings in Master degree program, but no double degree
4. Bachelor students in Materials Science (TU Da) who did not graduate yet
5. Bachelor graduates in Materials Science (TU Da) in Master degree program

Voluntary anonymous questionnaire for students from categories 2-3
Materials Science Building
L2|01, Alarich-Weiss-Str. 2
Cluster Smart Interfaces office building
L1|08, Otto-Berndt-Str. 3
M³: Lab and office building
Alarich-Weiss-Str. 16
**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

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

In case of problems: **Don't Panic!** Ask fellow students, then in the office of student affairs (Ms. S. Liesenberg, PD Dr. B. Kastening).
exam registration rules  
(exceptions only in truly exceptional cases)

- Exams with a collective date (written or oral):  
  • register in TUCaN in time; for Mat. Sci. exams at least 8 calendar days before!  
  • other rules for exams of other departments;  
    e.g. central registration periods June 01.-30. and 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 calendar days before!

- Problems in TUCaN? Tell office of student affairs before deadline!

- 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“ (not: „arbeitsunfähig“=„unable to work“!) and give it to the office of student affairs within three calendar days after exam (if this is Sat, Sun, holiday: next working day thereafter)

- Other important reasons and it is too late for deregistering:  
  • Give notice to office for student affairs and be prepared to provide evidence for such reasons
Exams: some hints

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

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

- For **Microsoft imagine & QtiPlot** software see departmental webpage: Office of Studies/Software

- in case of problems visit rm 204 or write Email to IT representatives:
  - Mr. Andreas Hönl (ahoenl@matgeo.tu-darmstadt.de)
  - Mr. Stephan Diefenbach (sdiefenbach@matgeo.tu-darmstadt.de)