

STRUCTURE OF THE M.SC. MATHEMATICS

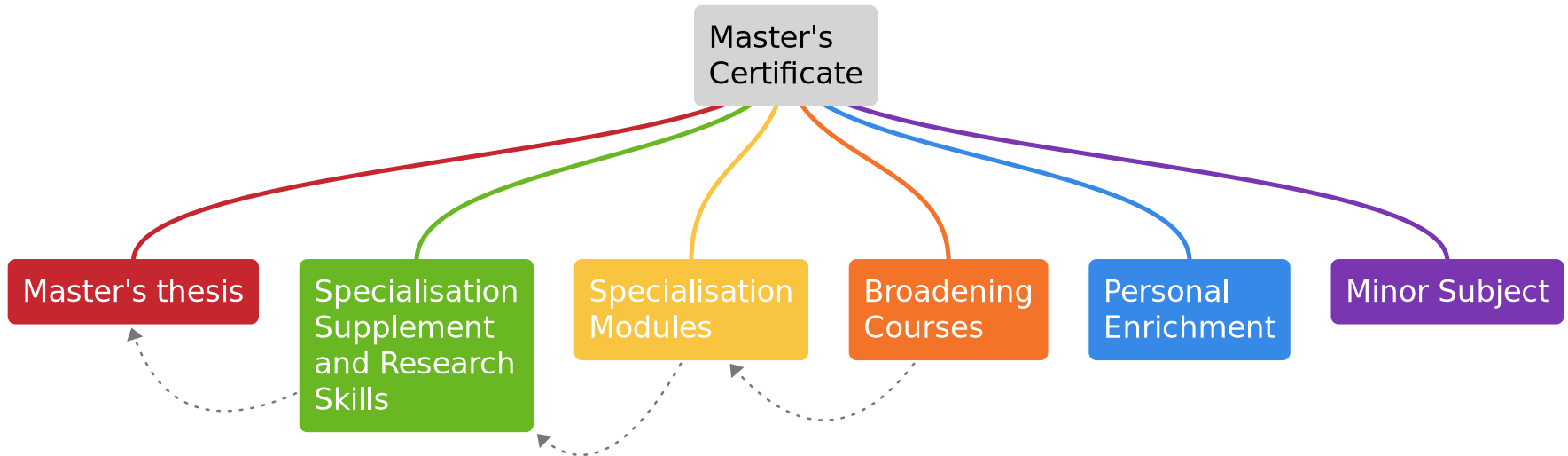
Academic student advisory service

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USEFUL LINKS

- [HISLSF \(official course catalogue\)](#)
- [Informal overview of broadening courses and courses of specialisation modules \(winter term 2023/24\)](#)
- [Informal announcement of courses of future semesters \(study the subpages listed under "Areas"\)](#)

MODULES



- Complete all modules for the Master's Certificate.
- Minor Subject is optional.

STUDY PLAN EXAMPLES

STUDY PLAN EXAMPLE I

Semester 1	Broadening Course 1	Broadening Course 2	Entrepreneurship Course 1	Language Course
Semester 2	Specialisation A, Type I	Specialisation B, Type I	Entrepreneurship Course 2	Entrepreneurship Course 3
Semester 3	Specialisation A, Type II	Specialisation B, Type II	Specialisation Supplement	Research Skills
Semester 4	Master's Thesis			

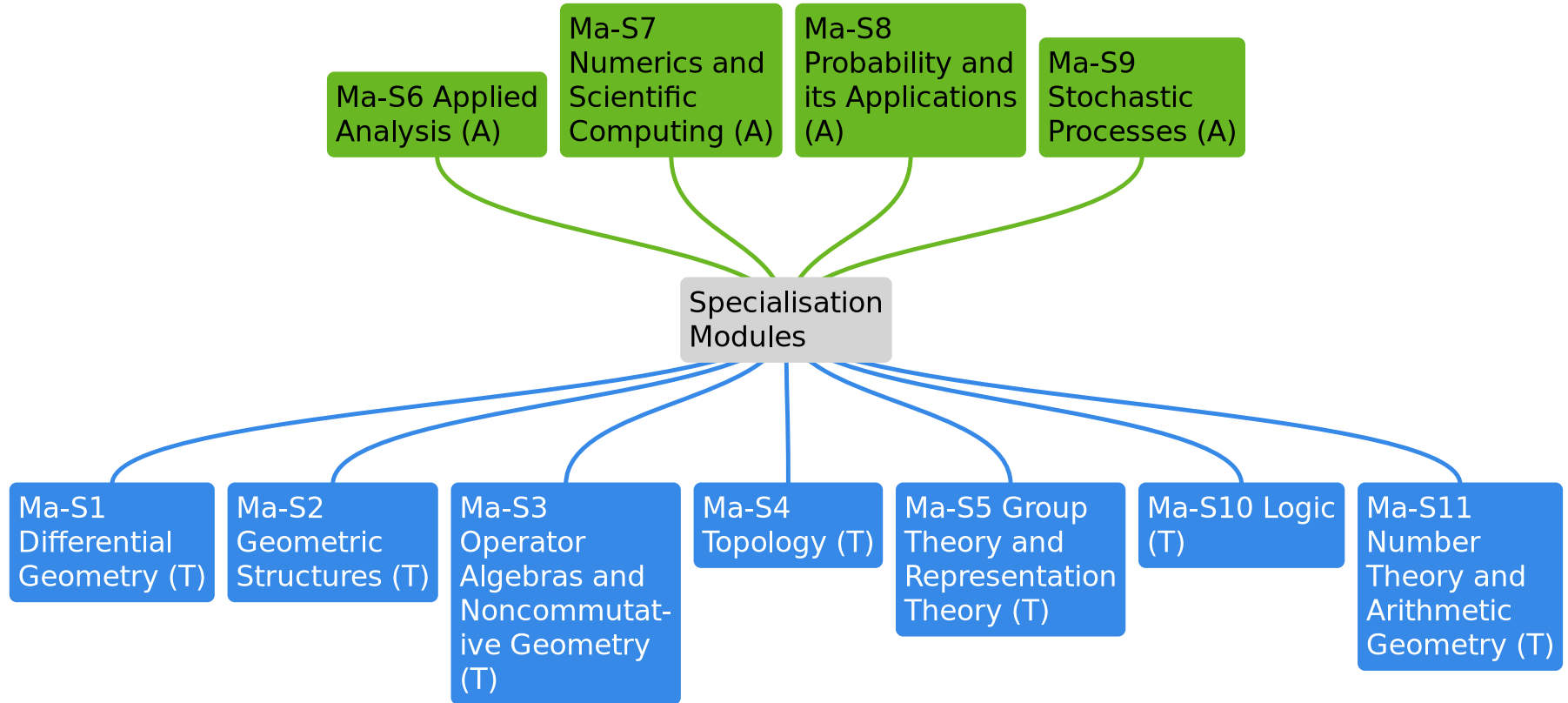
STUDY PLAN EXAMPLE II

Semester 1	Broadening Course 1	Specialisation A, Type I	Entrepreneurship Course 1	Language Course
Semester 2	Specialisation B, Type I	Specialisation A, Type II	Entrepreneurship Course 2	Entrepreneurship Course 3
Semester 3	Specialisation B, Type II	Broadening Course 2	Specialisation Supplement	Research Skills
Semester 4	Master's Thesis			

STUDY PLAN EXAMPLE III

Semester 1	Broadening Course 1	Broadening Course 2	Specialisation A, Type I	Personal enrichment
Semester 2	Specialisation B, Type I	Specialisation C, Type I	Specialisation A, Type II	
Semester 3	Specialisation B, Type II	Specialisation C, Type II	Specialisation Supplement	Research Skills
Semester 4	Master's Thesis			

SPECIALISATION MODULES



- Complete 2 out of 11 specialisation modules (3 if you do not choose a Minor Subject).

Informal overview of courses of specialisation modules

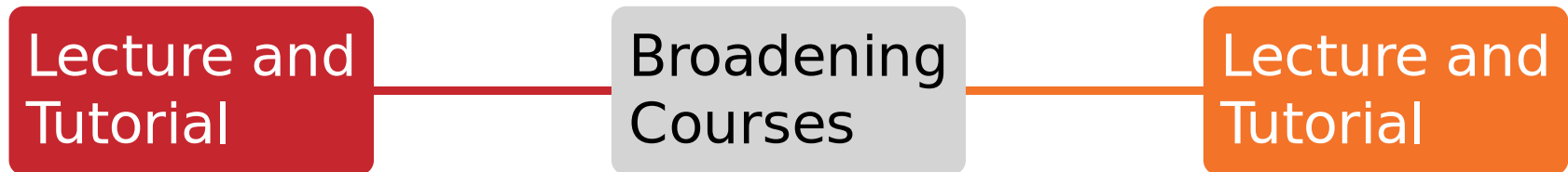
Complete: Lecture 1 & Tutorial & (Lecture 2 or Seminar
or Student Project).

FORMALITIES

- (Lecture 1 & Tutorial) is usually called a "Type I" course.
- (Lecture 2 or Seminar or Student Project) is usually called a "Type II" course.
- Type I courses always have a graded exam.
- Type II courses may have required coursework (for example a seminar talk), but only the Type I course contributes to your final grade.
- ⇒ It's easier to formally complete a Type II course than a Type I course.

MODULE: BROADENING COURSES

- Idea: qualifying courses in preparation for a specialisation module



- Complete 2 lectures & 2 corresponding tutorials

Informal overview of broadening courses

FORMALITIES

- You may complete up to 3 broadening courses.
- The best 2 grades count for your final degree.
- Every Type I course of a specialisation module can also be used as a broadening course.

**MODULE: SPECIALISATION
SUPPLEMENT AND RESEARCH
SKILLS**

- Idea: study topics that lead to your Master's Thesis



- Complete (Lecture or Seminar or Reading Course) & (Graduate Seminar or Privatissimum)

FORMALITIES

- Discuss the choices of your courses within this module in advance with your potential advisor.
- Your potential advisor signs a document that validates your choice.
- You will need that document to register your Master's Thesis.

MODULE: MASTER'S THESIS

- Idea: work on a scientifically sophisticated mathematical problem
- Your task: find an advisor (always talk to your lecturers).

FORMALITIES

- In order to register your Master's Thesis at the examination office:
 - Gain at least 72 CP (sum of all CPs of all courses of all modules).
 - Submit your advisor's document of the module Specialisation Supplement and Research Skills.
- Time: 6 months.
- Always talk to your lecturers and potential advisors!

MODULE: PERSONAL ENRICHMENT

- Idea: enrich your individual study biographies
- Examples: study a language, gain programming skills, work as a tutor

PERSONAL ENRICHMENT: OPTIONS

- Career Service Seminar (up to 2 seminars, usually 2 CP per seminar)
- Industrial placement
- Working as a Tutor in Mathematics with mandatory coaching by Dr. Christian Serpé
- Language Courses (a nice way to complete this module, in particular if you want to learn German)
- Programming Courses
- Suitable offers of the Mathematics Münster Graduate School (MMGS)

PERSONAL ENRICHMENT: FORMALITIES

- Gain at least 6 CP within this module.
- You may stretch out this module over all your semesters.
- Suitable offers of the Mathematics Münster Graduate School (MMGS): must be approved by Prof. Dr. Martin Hils.

MINOR SUBJECT

- Idea: get an insight into another subject.
- Completing a minor subject is optional.
- There is one minor subject taught in English:
Entrepreneurship

OPTIONS

- Computer science, Biology, Chemistry, and Physics (no prior registration).
- Business Administration, Economics, Philosophy, and Psychology ([prior registration until 5 October 2023](#)).
- Entrepreneurship (in English, no prior registration, no prior knowledge).

MORE GENERAL DETAILS

- Courses are tagged either as theoretical or applied. At least 9 CP from both areas must be included in the final grade.
- You may complete up to 5 specialisation modules. The best count for your final grade.

REGISTRATION

- Information event: How to register properly in QISPOS on Friday, 17 November 2023 at 3 p.m.
- All registrations of math courses can be made after that date.
- Be careful: minor subject or courses within Personal Enrichment may need earlier registration.

STRATEGIES

- Strategy: if you are not sure about the areas in which you would like to specialise, start several lectures and only register for those that you like. Drop the others.
- Use the Broadening Courses to prepare for the specialisation modules.

