

# Study Guide 2023/24

## MSc Spatial Development and Infrastructure Systems



## Foreword

Sustainable spatial and infrastructure development in general and the development of urbanised cultural landscapes in particular depend on the input of well-trained experts and scientists. Good management of scarce natural resources of soil, water and air is a major challenge. The expansion of human settlements and a continuing worldwide trend towards urbanisation are contributing factors. These global developments make the extension and maintenance of existing civil infrastructure ever more demanding. Planning and construction are increasingly complex, and the significance of natural hazards is growing.

Well-founded specialist knowledge and the ability to deal with effective methods and instruments are key to identifying and clarifying challenging spatial, landscape and transport planning problems, developing adequate solutions and also implementing them successfully.

The Master's programme in Spatial Development and Infrastructure Systems offers a wide-ranging university education for aspiring professionals looking to contribute to the sustainable development of the constructed spatial environment and its infrastructure systems. A central task of this course is to provide students from different professional backgrounds with a common language and understanding of methods. This qualifies them to work in the focus areas of Spatial Planning and Landscape Development, Transport Systems and Behaviour as well as Network Infrastructure to develop integrated solutions for sustainable spatial and infrastructure development.

The Master's degree programme in Spatial Development and Infrastructure Systems is offered together with the Bachelor's and Master's degree programmes in Civil Engineering, Environmental Engineering and Geospatial Engineering by the Department of Civil, Environmental and Geomatic Engineering (D-BAUG) at ETH Zurich.

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# 1 Introduction

## 1.1 Structure

The Master's programme in Spatial Development and Infrastructure Systems at ETH Zurich is a full-time course of study. At least 120 ECTS credits are required to attain a Master of Science ETH degree in Spatial Development and Infrastructure Systems. The standard period of study is four semesters.

An academic year at ETH comprises two semesters each lasting fourteen weeks.

The Spatial Development and Infrastructure Systems programme at ETH Zurich follows the internationally agreed Bologna standard. The European Credit Transfer System (ECTS) is used to evaluate the academic achievements of students at ETH Zurich, with one credit point corresponding to approximately thirty hours of study. All courses (lectures, exercises, seminars, practicums, etc.) that serve to impart knowledge, understanding and skills count as contact hours.

The language of instruction is English. This means that courses are generally taught in English, in particular this is guaranteed for all compulsory courses. However, the range of elective courses includes courses which are partially in German and partially in English. The language used is listed for each course in the course catalogue.

The tailored education obtained within the framework of this Master's programme is designed through discussions between each student and a tutor. Tutors are assigned to each student at the beginning of their studies. Together they develop a personalised curriculum taking into consideration the student's interests, talents and expectations.

## 1.2 Legal basis

The Spatial Development and Infrastructure Systems programme is governed by the following legal documents:

- Study regulations 2021 for the Master's degree programme in Spatial Development and Infrastructure Systems dated 13 October 2020
- ETH Zurich ordinance on admission to studies at ETH Zurich dated 30 November 2010
- Directive on admission to Master's degree programmes dated 1 November 2011
- ETH Zurich ordinance on performance assessments dated 22 May 2012
- ETH Zurich ordinance on performance assessments: Implementation stipulations of 30 January 2013

These and other documents can be found in the download area on the homepage of the degree programme at [www.sd-is.baug.ethz.ch/documents](http://www.sd-is.baug.ethz.ch/documents) →, in the legal collection at [www.ethz.ch/rechtssammlung](http://www.ethz.ch/rechtssammlung) → or in the directives collection at [www.ethz.ch/directives](http://www.ethz.ch/directives) →.

This Study Guide explains the legal basis in more detail and provides further information on the structure and processes of the study programme. The Study Guide is not a legal document. The German versions of the underlying laws listed above are the legally binding documents.

## 1.3 Admissions

Admission to the Master's degree programme in Spatial Development and Infrastructure Systems at ETH Zurich is based on the ordinance on admission to studies at the Swiss Federal Institute of Technology Zurich, the directive on admission to Master's degree programmes and the study regulations for the Master's degree programme in Spatial Development and Infrastructure Systems.

Detailed information on admission requirements, application procedures, deadlines, etc. can be found on the Admissions Office website under the drop-down menu "Master's degree studies – Application" at [www.ethz.ch/en](http://www.ethz.ch/en) →, on the programme webpages at [www.sd-is.baug.ethz.ch/admission](http://www.sd-is.baug.ethz.ch/admission) → as well as in the appendix of the study regulations for the Master's degree programme in Spatial Development and Infrastructure Systems (link under [www.sd-is.baug.ethz.ch/documents](http://www.sd-is.baug.ethz.ch/documents) →).

Further information of an administrative nature can be obtained from the Admissions Office, and information of a content-related nature from the Study Administration Office (see chapter 12 Who – What – Where).

# 2 Master's degree programme SD&IS

## 2.1 Objectives and content

The Master's degree programme provides in-depth subject-specific knowledge in the subject areas of Spatial Planning and Landscape Development, Transport Systems and Behaviour as well as Network Infrastructure. A central task is to provide students from different disciplinary backgrounds with a common language and understanding of methods as well as encouraging them to think and work in an interdisciplinary way to define and solve complex spatial problems.

## 2.2 Tutor system

Courses taken in this Master's degree programme are selected through discussions between students and tutors. A tutor is assigned to each student at the beginning of their studies.

In an initial meeting, the tutor and the student compile a personalised curriculum (see point 3.5), intended to ensure a sound professional education, taking into account the talents and expectations of the students. In addition, the tutors are available for consultation with students throughout the Master's degree programme.

## 2.3 Compulsory courses

Compulsory courses are mandatory for all students on the Master's degree programme. They provide basic knowledge and create the basis for a common understanding and language for the students with different professional backgrounds in the fields of Spatial Planning and Landscape Development, Transport Systems and Behaviour and Network Infrastructure.

The compulsory courses comprise 21 credits and students must complete them in full before they can start their Master's thesis.

If students have already acquired the knowledge imparted in the compulsory courses in a previous (Bachelor's) degree programme, the Director of Studies, in consultation with the responsible tutor, can also approve courses other than those normally to be taken as compulsory if requested. A reduction in the minimum number of credits required in the compulsory courses is not possible.

## 2.4 Specialist courses

Students acquire at least 51 credits in the category of specialist courses. The choice of courses is made by the students together with their tutor. Specialist courses can be chosen from the following three areas: Spatial Planning and Landscape Development, Transport Systems and Behaviour and Network Infrastructure.

In the spring semester, the **Master's Project in Spatial Development and Infrastructure Systems** is also available. As part of this project work, students work on and present a topic from the subject areas of the Master's degree programme. The topic can be chosen freely after consultation with the tutor.

## 2.5 Electives

The electives serve to broaden specialist knowledge and to acquire in-depth knowledge in selected areas of expertise. The entire curriculum of ETH Zurich and the University of Zurich is open to the students for individual selection, whereby any admission requirements of the departments offering the courses must be observed. Courses that are particularly relevant for the degree programme are listed in Section 3.4. At least ten credit points must be acquired through electives.

For electives, the form of assessment is determined by the department offering the course in the course catalogue. If a student fails an elective twice, he/she must select another elective.

## 2.6 Science in Perspective (SiP)

Science in Perspective (SiP) courses are humanities, social sciences and law courses that reflect on the STEM subjects (science, technology, engineering and mathematics) that form the core of ETH's mission. It also includes courses that are aimed at expanding the students' cultural horizons. SiP courses are meant to help students think critically about contemporary techno-scientific knowledge from various social, historical and cultural perspectives. Attendance of SiP courses is a requirement for all ETH Zurich students.

The courses recognised as SiP courses are listed in the ETH Zurich course catalogue under the programme "Spatial Development and Infrastructure Systems Master", section "GESS Science in Perspective".

At least two credits must be acquired through SiP courses. The form of assessment is determined by the department offering the course in the course catalogue. A failed SiP course can be repeated once. If a student fails a SiP subject twice, he/she must select another SiP course.

Further information can be found in the Science in Perspective directive as well as at [www.gess.ethz.ch/sip](http://www.gess.ethz.ch/sip) →.

## 2.7 Interdisciplinary Project Activity (IPA)

In the third semester, a solution to a complex spatial problem is to be worked out in interdisciplinary working groups. The project work is under the guidance of a member of the SD&IS steering committee. It continues for the duration of a semester and is assessed by a grade. The IPA is offered only once a year in the autumn semester.

The specific topic for the IPA is announced before the second week of the semester, and students are to enrol for the project via myStudies no later than the end of the second week of the semester. Before the start of the IPA, a large portion of the compulsory courses should be completed and at least 30 credits should be obtained through specialist courses.

A student receives 16 credits for a successful IPA. Students can repeat a failed IPA only once.

## 2.8 Master's thesis

The Master's thesis takes place in the final semester of the programme. Students may attend other courses in parallel to it. The Master's thesis starts in the second week of the semester and takes eighteen weeks (sixteen weeks of work plus two weeks of compensation for holidays, sick days and other brief absences). The Director of Studies sets the exact start and submission dates and publishes them on the homepage of the degree programme. If there are good reasons, the Director of Studies may, upon written request, grant an extension of the working period or a postponement of the deadline. The decision of the Director of Studies is final.

### **Students are only permitted to commence the Master's thesis if they have**

- successfully completed their Bachelor's degree programme,
- have met all the requirements for admission to the Master's degree programme and
- have gained at least 90 credits in the Master's degree programme, including the required credits for compulsory courses and for interdisciplinary project work.

Students discuss the topic on their own initiative with their tutor and the supervisor and enrol for the thesis electronically in myStudies at the latest by the beginning of the semester in which the thesis is to be written.

20 credit points are awarded for a successful Master's thesis (minimum grade 4.0). Students can repeat a failed Master's thesis only once. If this happens, they must choose a different topic. The repetition may be supervised by a different supervisor than in the first attempt. An information sheet with all the details is published at [www.sd-is.baug.ethz.ch/documents](http://www.sd-is.baug.ethz.ch/documents) →.

## 2.9 Master's degree

For the acquisition of a Master's title, evidence must be provided of at least 120 credits in the corresponding categories. With this evidence, students can apply for their Master's degree within four years of the start of their Master's degree programme.



The following minimum requirements per category apply:

<b>Category</b>	<b>Min. number of credits</b>
Compulsory courses	21
Specialist courses	51
Electives	10
Science in Perspective	2
Interdisciplinary project activity	16
Master's thesis	20
<b>Total</b>	<b>120</b>

### **Request to Issue the Degree**

The request to issue the Master's degree can be submitted as soon as the minimum credit points required in each category have been obtained.

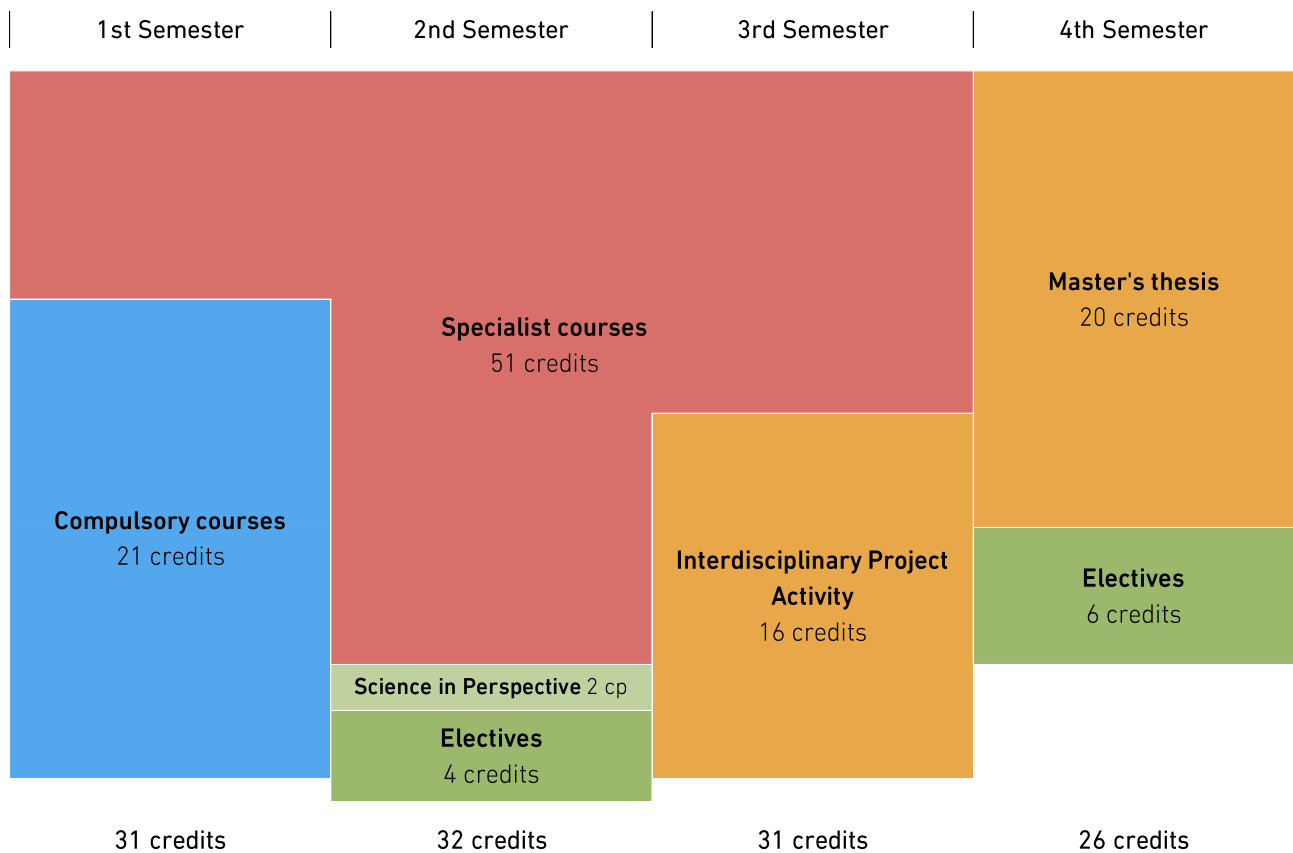
The final grade is calculated as the weighted average of all grades obtained in the Master's programme with the corresponding credit points as weightings.

A maximum of 130 credits are recognised towards the Master's degree. All additional study achievements obtained but not required for the degree are listed on a separate page of the final academic record. Please note that all study achievements completed at ETH Zurich are listed, including any performance assessments not successfully completed (not passed), any "no shows" and all additional admission requirements.

For failed performance assessments which were passed successfully in the second attempt, only the results achieved last are listed.

# 3 Curriculum

## 3.1 Outline



Courses offered are specified in the course catalogue at [www.vvz.ethz.ch](http://www.vvz.ethz.ch) →. The information contained in the course catalogue is legally binding.

## 3.2 Compulsory courses

The compulsory courses take place in the **Autumn semester**. They are mandatory for all students and include the following six courses:

	CU No.	Title	hpw	cp
1st semester	103-0377-10L	Basics of RE&IS	2G	3
	101-0509-10L	Infrastructure Planning	2G	3
	103-0378-00L	Introduction to the Programming Language R	2G	3
	103-0347-00L	Landscape Planning and Environmental Systems	2V	3
	103-0317-00L	Spatial Planning and Development	2G	3
	101-0467-01L	Transport Systems	4G	6

CU No = Course unit number  
 hpw = hours per week  
 cp = credits

### 3.3 Specialist courses

Students must acquire a minimum of 51 credits from specialist courses.

Below is an alphabetical listing of specialist courses offered each semester. The lists are current as of August 2023. Please note that the course offering may change. The definitive lists of courses as well as the details of the individual courses are published in the course catalogue. Should there be any discrepancies between the lists below and the information in the course catalogue, the **course catalogue** shall take precedence.

The course catalogue for the Autumn Semester is generally published in mid-May, for the Spring Semester in mid-November.

As an additional guide, each course in the course catalogue is assigned to one of three fields: Spatial Planning and Landscape Development, Transport Systems and Behaviour or Network Infrastructure. This allocation is purely intended as a guide, to facilitate selection.

The language of the titles corresponds to the language of instruction.

#### Autumn Semester:

	CU No.	Title	hpw	cp
1st / 3rd semester	102-0317-00L	Advanced Environmental Assessments	2G	3
	101-0491-00L	Agent Based Modeling in Transportation	4G	6
	101-0549-00L	AK Baurecht	2G	3
	101-0419-02L	Bahninfrastrukturen 2	2G	2
	151-0227-00L	Basics of Air Transport (Aviation I)	3G	4
	101-0491-10L	Basics of Java and Best Practices for Scientific Computing	1U	1
	103-0251-00L	Computational Methods for Geospatial Analysis	4G	4
	701-1453-00L	Ecological Assessment and Evaluation	3G	3
	363-0541-00L	Economic Dynamics and Complexity	3G	3
	227-0523-00L	Eisenbahn-Systemtechnik I	4G	6
	103-0569-00L	European Aspects of Spatial Development	2G	3
	701-1631-00L	Foundations of Ecosystem Management*	3G	5
	103-0327-00L	Geschichte der Raumplanung	2V	3
	103-0347-01L	Landscape Planning and Environmental Systems (GIS Exercises)	2U	3
	052-0705-00L	Landschaftsarchitektur I	2V	2
	063-0701-22L	Methoden der Stadtforschung	2G	2
	101-0492-00L	Microscopic Modelling and Simulation of Traffic Operations	2G	3
	101-0427-01L	Public Transport Design and Operations	4G	6
	851-0707-00L	Raumplanungsrecht und Umwelt	2G	2

	101-0469-00L	Strassenverkehrssicherheit	4G	6
	052-0715-23L	Topology*	2K	2
	101-0437-00L	Traffic Engineering	4G	6
	101-0417-00L	Transport Planning Methods	4G	6
	363-1047-00L	Urban Systems and Transportation	2G	3

\*: Limited number of places; please include an alternative in the curriculum

CU No = Course unit number

hpw = Hours per week

cp = Credits

### Spring Semester:

	LE No.	Title	hpw	cp
2nd semester	364-0576-00L	Advanced Sustainability Economics	3G	3
	101-0419-01L	Bahninfrastrukturen 1	2G	2
	751-2700-00L	Bodenmarkt und Bodenpolitik	2G	2
	227-0524-00L	Eisenbahn-Systemtechnik II	4G	6
	101-0428-00L	Entwurf und Bau von Verkehrsanlagen	4G	6
	101-0488-01L	Fuss- und Veloverkehr	4G	6
	103-0318-02L	GIS-Based 3D Landscape Visualization*	2G	3
	103-0458-00L	Haushälterische Bodennutzung	2G	3
	101-0579-00L	Infrastructure Management 2: Evaluation Tools	2G	6
	102-0248-00L	Infrastructure Systems in Urban Water Management	2G	3
	103-0330-00L	Landscape Aesthetics	2G	2
	101-0459-00L	Logistik und Güterverkehr	4G	6
	103-0488-00L	Master's Project in Spatial Development and Infrastructure Systems	18A	9
	701-1522-00L	Multi-Criteria Decision Analysis*	2G	3
	103-0468-00L	Participatory Environmental Modeling	2G	3
	101-0388-00L	Planning of Underground Space*	2G	3
	701-1653-00L	Policy and Economics of Ecosystem Services	2G	3
	101-0408-00L	Praktikum Siedlung und Verkehr*	2P	3
	103-0338-00L	Projektwoche Landschaftsentwicklung	9P	5
	101-0481-00L	Readings in Transport Policy	2G	3
	103-0427-00L	Regionalökonomie	2G	4
	701-1674-00L	Spatial Analysis, Modelling and Optimisation*	4G	5
052-0702-00L	Städtebau II	2V	2	
103-0326-01L	Standortmanagement	2G	2	
101-0478-00L	Survey Methods and Discrete Choice Analysis	4G	6	

	052-0716-23L	Topology*	2K	2
	103-0448-01L	Transformation of Urban Landscapes	2G	3
	103-0428-02L	Urban Design Studio for Planners*	4G	6
	103-0570-00L	Urban Planning and Urban Policy*	2G	4

\*: Limited number of places; please include an alternative in the curriculum

CU No = Course unit number

hpw = Hours per week

cp = Credits

## 3.4 Recommended electives

Electives can be selected from the entire course catalogue of ETH Zurich and the University of Zurich, whereby any admission requirements of the departments offering the courses must be observed.

The "recommended electives" listed below merely indicate courses that are particularly relevant for the Master's degree programme in the opinion of those responsible for the programme.

The list is intended to be a decision-making aid. Students are free to choose their elective courses.

The language of the titles corresponds to the language of instruction.

### Autumn Semester:

	CU No.	Title	hpw	cp
1st / 3rd semester	103-0227-00L	Application Development in Cartography	4G	6
	103-0687-00L	Cadastral Systems	2G	2
	052-0801-00L	Global History of Urban Design I	2G	2
	701-0565-00L	Grundzüge des Naturgefahrenmanagements	4G	3
	401-0647-00L	Introduction to Mathematical Optimization	2V+1U	5
	401-3901-00L	Linear & Combinatorial Optimization	4V+2U	11
	363-0565-00L	Principles of Macroeconomics	2V	3
	851-0703-03L	Privates Baurecht	2V	2
	363-0445-00L	Production and Operations Management	2G	3
	101-0258-00L	River Engineering	2G	3
	101-0187-00L	Structural Reliability and Risk Analysis	2G	3
	151-0757-00L	Umwelt-Management	2G	2
	052-0707-00L	Urban Design III	2V	2

CU No = Course unit number

hpw = Hours per week

cp = Credits

## Spring Semester:

	CU No.	Title	hpw	cp
2nd semester	701-0518-00L	Bodenressourcen und Global Change	2G	3
	851-0585-38L	Data Science in Techno-Socio-Economic Systems	2V	3
	061-0110-00L	Geschichte und Theorie der Landschaftsarchitektur II	2V	2
	052-0802-00L	Global History of Urban Design II	2V	2
	101-0278-00L	Hochwasserschutz	2G	3
	052-0706-00L	Landschaftsarchitektur II	2V	2
	151-0228-00L	Management of Air Transport (Aviation II)	3G	4
	102-0348-00L	Prospective Environmental Assessments	2G	3
	701-1502-00L	Transdisciplinary Case Study	15P	7
	851-0705-01L	Umweltrecht II: Rechtsgebiete und Fallbeispiele	2V	3
	052-0708-00L	Urban Design IV	2V	2

CU No = Course unit number

hpw = Hours per week

cp = Credits

## 3.5 Compiling a personal curriculum

The professional training in the Spatial Development and Infrastructure Systems Master's degree programme is tailored to the interests and expectations of each student. A student's personal curriculum is defined at the beginning of the course during tutor meetings.

In preparation for the tutor meeting, students compile a personal curriculum which includes targeted **specialist courses** over the entire duration of their studies.

In the initial meeting, this proposal is discussed and a definitive curriculum agreed on. The approved curriculum, bearing the signatures of both the student and the tutor, must be placed in the letterbox in front of the information desk **by the end of the second week of the semester**.

The primary purpose of compiling a personal curriculum is to examine the formal and content-related components of the course of study and give the students confidence that the courses selected are the best ones for them. The specialist courses chosen are therefore not binding and adjustments can be made if students find their personal interests change or if courses offered change during the course of study. It is not necessary for the tutor to reconfirm these changes.

A sample template listing all compulsory and specialist courses as well as a checklist for preparing for the tutor meeting can be found in the download area of the degree programme at [www.sd-is.baug.ethz.ch/documents](http://www.sd-is.baug.ethz.ch/documents) →.

# 4 Guidelines for projects

Projects form a central part of the Master's programme and promote the students' ability to work independently and in a structured manner. They are offered in the form of integrated semester projects in the context of a lecture, as an interdisciplinary project activity, a Master's project and a Master's thesis.

Given the high importance of projects for learning success, a guideline has been compiled for working on projects. This provides basic information on the different types of projects, do's and don'ts, group work, finding a suitable topic, timetable, communication, grading etc.

The guidelines are general in nature. If the supervising professor deviates from the general guidelines when discussing detailed aspects of the specific project, the professor's notes apply.

The guidelines can be found in the download area of the degree programme at [www.sd-is.baug.ethz.ch/documents](http://www.sd-is.baug.ethz.ch/documents) →.

# 5 Performance assessments

At ETH Zurich, performance is assessed primarily through session examinations, end-of-semester examinations or semester performance assessments, which may be oral and written examinations, presentations, project work and written papers. The form of performance assessment, examination language, mode, etc. is specified for each course in the study regulations or in the course catalogue.

Credits are awarded for successfully completed courses (lectures with exercises, seminars, etc.). The number of credits awarded depends on the course catalogue. Credits are only awarded for satisfactory performance (grade of at least 4.0 or "passed"). Failures can be repeated once.

## 5.1 Session examinations

Session examinations are carried out during the examination sessions which are held twice a year (Calendar weeks 4 to 7 and 32 to 35). Students must register for session examinations during the registration period via myStudies.

The examinations are planned by the Examinations Office and are listed in the student's personal examination schedule which is shown in myStudies.

Session examinations may be written or oral and are always graded.

Please note: Not all session examinations can be chosen each session. There are performance assessments which are only offered in the session immediately after the course. These examinations are specially marked in the course catalogue.

## 5.2 End-of-semester examinations

End-of-semester examinations are carried out during the last two weeks of a semester or during the first two weeks of the semester break. At the turn of the year, these are calendar weeks 2 and 3 in January. Students must register for end-of-semester examinations during the registration period via myStudies.

The lecturers enter the dates of the end-of-semester examinations continuously so that students can view the dates of the registered end-of-semester examinations in myStudies. As of week 8 of the semester all dates of the end-of-semester examinations must be listed completely (resp. as of week 20 of the semester for the repetition dates).

End-of semester examinations may be written or oral and are always graded.

If it is possible to repeat a performance assessment without having to re-enrol in a course, a repetition date, generally at the start of the following semester, is offered. These dates are also announced by the lecturers or the department offering the course (Study Administration Office) and listed in myStudies as soon as students are registered for the repetition exam. Students must register for such a repetition date using myStudies, which is only possible once the result of the first try has been officially published by the Study Administration Office.

## 5.3 Semester performance assessments

Semester performance mostly takes the form of integrated performance assessments during the semester or performance assessments which take place outside of the normal semester schedule (e.g. block courses).

No separate registration is required for this type of performance assessment. However, students must **enrol** in the respective course unit using myStudies.

Semester performance may be graded or ungraded (pass/fail).

**Detailed information** on the individual courses and associated examinations (type of examination, language, mode, etc.) are published in the course catalogue.

If a performance assessment has to be retaken, duration, mode and assessment load of the performance assessment correspond to the last course held; i.e. the most recent lecture material is always examined.

Further information on examination types, levels, scheduling, results etc. is available on the Student Portal at [www.exams.ethz.ch](http://www.exams.ethz.ch) →.



## 6 Fulfilling Additional Admission Requirements

Students whose admission was subject to the fulfilment of additional admission requirements acquire the additional knowledge required either before or during the Master's degree programme by taking organised self-study courses or normal courses. However, the respective performance assessments are subject to the stipulations pertaining to the designated courses as listed in the course catalogue.

The additional admission requirements must be completed **within the set deadlines**. These deadlines were communicated in the admission letter and are also available in myStudies.

If the additional admission requirements are not passed or the deadlines set for them not met, students will be deemed to have failed the programme and will be excluded from the programme.

**Important:** Please note the entire LE number (including the ending!) provided in the admission letter when registering for additional requirement courses.

Further information is available in the appendix to the Master's degree programme regulations, the ordinance on admission, and the directive on admission to Master's degree programmes.

## 7 Student exchange

Under certain conditions, engaged, high-achieving students have the opportunity to complete their **second semester** or their **Master's thesis in the fourth semester** at another university during their full-time studies at ETH Zurich.

**The following conditions must be met for student exchanges:**

- Bachelor's degree previously obtained from ETH Zurich, EPF Lausanne or the University of Zurich. No other students are entitled to participate in the ETH Zurich exchange programme during the second semester.
- All students may write their Master's thesis at another university, provided that the tutor and the Director of Studies give their consent.
- Before departure, any conditions governing admission to the Master's degree programme must be met in full.
- Grade average of at least 4.5 in the Bachelor's diploma. Students who did not achieve this grade may still qualify for the exchange if they achieve a grade of 4.5 or higher in higher semesters of the Master's programme. The credit-weighted average grade applies, including the calculated results of all performance assessments, and at least 20 credits must have already been acquired in the Master's degree programme.
- The conditions for commencement of the Master's thesis are met before departure in the event of an exchange in the fourth semester.

The credits acquired at the host university can be applied to studies at ETH Zurich provided that, **before the start of exchange studies**, recognition of performance has been agreed in the form of a written curriculum. This curriculum should be drawn up in such a way that it makes up for all or most of the courses missed at ETH Zurich. Study at the host institute must therefore cover approximately two-thirds of the lectures on spatial development and infrastructure systems at ETH in the same period (at least 20 ECTS credits per semester). The total duration of studies should not be extended by the exchange programme. Therefore, an exchange must be carefully planned into the overall study programme at an early stage.

**The approved curriculum must be submitted to the exchange programme advisor before departure.** Templates are available on the degree programme webpage.

The compilation of the curriculum and the organisation of courses are the responsibility of the student (arrangement of recognition with the Director of Studies, establish contact with the person responsible for exchanges at the host university). The Student Exchange Office will help with administrative matters (enrolment, arranging accommodation, residence permits and guidance during the exchange). The departmental exchange advisor will help with procedure.

Students who have completed their previous Bachelor's degree in its entirety at ETH, EPFL and the University of Zurich can have a maximum of 60 credits, all others a maximum of 40 credits counted towards the Master's degree.

Final approval for exchange programmes is granted by the Director of Studies.

Exchange students remain matriculated at ETH and continue to pay tuition fees and other obligatory contributions. The host university does not charge them tuition fees.

Students interested in an exchange programme should gather information at an early stage from the ETH Zurich Student Exchange Office at [www.ethz.ch/study-abroad](http://www.ethz.ch/study-abroad) → (please note registration dates), on the degree programme webpage at [www.sd-is.baug.ethz.ch/exchange](http://www.sd-is.baug.ethz.ch/exchange) → (please note pre-application date for the Swiss-European Mobility Programme SEMP) and from the Departmental Exchange Advisor at [www.sd-is.baug.ethz.ch/contacts](http://www.sd-is.baug.ethz.ch/contacts) →.

## 8 Having a say

Students at D-BAUG have a seat on the Teaching Commission and in the Department Conference.

The **Teaching Commission** consists of all directors of studies as well as students and assistants from all degree programmes at D-BAUG. It has the task, among other things, of preparing the revision of study regulations, approving examination procedures, receiving and processing suggestions and proposals for the improvement of study, and much more.

The **Department Conference** is the highest governing body of the department and determines the department's scientific and academic strategy and orientation. Its members are

D-BAUG professors, associated professors of other departments and delegations of other lecturers, scientific staff, doctoral candidates, administrative and technical personnel and students.

To become involved in student politics please contact the student association GESO [www.geso.ethz.ch](http://www.geso.ethz.ch) →. The experience and contacts from the GESO can have a positive effect in your life both at the ETH and in the future.

## 9 Work/life balance

ETH Zurich offers students a wide range of sporting and musical leisure activities. Information can be found on the student portal at [www.ethz.ch/students/en](http://www.ethz.ch/students/en) →.

## 10 Advice and coaching

### 10.1 Information desk

The **first point of contact** for students of Spatial Development and Infrastructure Systems is the information desk for students at D-BAUG.

#### **Information desk for students at D-BAUG**

Jutta Westenhoeffer-Wagner  
HIL E 32.1  
8093 Zurich

#### **Opening hours:**

See "Contact personnel" at [www.sd-is.baug.ethz.ch/contacts](http://www.sd-is.baug.ethz.ch/contacts) →

Services at the information desk include:

- General information concerning registration, student ID card ("Legi"), holidays, scholarships, etc.
- Acceptance of documents (official requests, requests for the issuing of degrees etc.)
- Provision of brochures, guidelines, regulations, information sheets etc.
- Issuance of transcripts of records
- Assessment of military service postponement applications
- Room reservations for students (meeting rooms, lecture halls)

## 10.2 Study Administration Office

For questions relating specifically to the Master's degree programme in Spatial Development and Infrastructure Systems, please contact the Study Administration Office.

### **Study Administration Office Geospatial Engineering**

Regula Oertle / Katharina Koch

HIL E 31.3

8093 Zurich

Tel. 044 633 22 79

[oertle@stab.baug.ethz.ch](mailto:oertle@stab.baug.ethz.ch) / [koch@stab.baug.ethz.ch](mailto:koch@stab.baug.ethz.ch)

The Study Administration Office can be reached by email and phone from Monday to Friday. In-person visits are possible by appointment.

The Study Administration Office is available for the following concerns, among others:

- Information on questions specific to the Master's programme
- Registration for the IPA, Master's projects and Master's theses
- Information about transfers into the Master's programme from other programmes
- Advice on exchange programmes (exchange advisor: Regula Oertle)

## 10.3 Academic advice and coaching

In addition to the tutor, assistants, lecturers and professors are also available for academic advice and coaching. It is important to seek the support of these professionals early on if there are any problems with the learning objectives and contents of individual courses.

Details about learning objectives and contents of individual courses can be found in the ETH Zurich course catalogue at [www.vvz.ethz.ch](http://www.vvz.ethz.ch) →.

## 10.4 Further advice centres and sources of information

If students have personal problems, various counselling services are available to help them, see chapter 12. Further counselling centres are listed in the student portal under the drop-down menu "Advice" at [www.ethz.ch/students/en](http://www.ethz.ch/students/en) →.

Further sources of information:

[www.ethz.ch/en](http://www.ethz.ch/en) →

[www.baug.ethz.ch/en](http://www.baug.ethz.ch/en) →

[www.sd-is.baug.ethz.ch](http://www.sd-is.baug.ethz.ch) →

[www.geso.ethz.ch](http://www.geso.ethz.ch) →

Studying at ETH Zurich

Studying or doing a doctorate at D-BAUG

MSc Spatial Development and Infrastructure Systems

Student association GESO

# 11 Institutes and groups

The specialist training of the degree programme in Spatial Development and Infrastructure Systems is provided by the following institutes and professors:

## Institute of Construction and Infrastructure Management (IBI)

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### Chair for Infrastructure Management

Prof. Dr. Bryan T. Adey  
HIL F 24.3  
Stefano-Franscini-Platz 5  
8093 Zurich  
Telephone: +41 44 633 27 38  
Email: [adey@ibi.baug.ethz.ch](mailto:adey@ibi.baug.ethz.ch)

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## Institute for Spatial and Landscape Development (IRL)

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### Chair for Planning of Landscape and Urban Systems (PLUS)

Prof. Dr. Adrienne Grêt-Regamey  
HIL H 51.3  
Stefano-Franscini-Platz 5  
8093 Zurich  
Telephone: +41 44 633 29 57  
E-mail: [gret@ethz.ch](mailto:gret@ethz.ch)

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### Chair for Spatial Development and Urban Policy (SPUR)

Prof. Dr. David Kaufmann  
HIL H 29.2  
Stefano-Franscini-Platz 5  
8093 Zurich  
Telephone: +41 44 633 94 84  
Email: [kadavid@ethz.ch](mailto:kadavid@ethz.ch)

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**Chair for Transport Planning**

Prof. Dr. Kay W. Axhausen  
HIL F 31.3  
Stefano-Francscini-Platz 5  
8093 Zurich  
Telephone: +41 44 633 39 43  
E-mail: axhausen@ivt.baug.ethz.ch

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**Chair for Transport Systems**

Prof. Dr. Francesco Corman  
HIL F 13.1  
Stefano-Francscini-Platz 5  
8093 Zurich  
Telephone: +41 44 633 33 50  
Email: francesco.corman@ivt.baug.ethz.ch

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**Traffic Engineering Research Group**

Dr. Anastasios Kouvelas  
HIL F 37.2  
Stefano-Francscini-Platz 5  
8093 Zurich  
Telephone: +41 44 633 66 95  
E-mail: anastasios.kouvelas@ivt.baug.ethz.ch

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# 12 Who – What – Where

<p><b>Information desk</b></p> 	<p><b>Information Desk for Students at D-BAUG</b></p> <p>Jutta Westenhoeffer-Wagner ETH Zurich, HIL E 32.1 Stefano-Francini-Platz 5 8093 Zurich Tel. 044 633 04 08 Information desk opening hours: <a href="http://www.sd-is.baug.ethz.ch/contacts">www.sd-is.baug.ethz.ch/contacts</a></p>
<p><b>Study Administration Office</b></p>  	<p><b>Study Administration Geospatial Engineering and Departmental Student Exchange Advisor</b></p> <p>Regula Oertle ETH Zurich, HIL E 31.3 Stefano-Francini-Platz 5 8093 Zurich Tel. 044 633 22 79 <a href="mailto:oertle@stab.baug.ethz.ch">oertle@stab.baug.ethz.ch</a> <a href="http://www.sd-is.baug.ethz.ch">www.sd-is.baug.ethz.ch</a></p> <p><b>Study Administration Geospatial Engineering</b></p> <p>Katharina Koch ETH Zurich, HIL E 31.3 Stefano-Francini-Platz 5 8093 Zurich Tel. 044 633 26 91 <a href="mailto:koch@stab.baug.ethz.ch">koch@stab.baug.ethz.ch</a> <a href="http://www.sd-is.baug.ethz.ch">www.sd-is.baug.ethz.ch</a></p>
<p><b>Director of Studies</b></p> 	<p><b>Director of Studies Spatial Development and Infrastructure Systems</b></p> <p>Prof. Dr. Adrienne Grêt-Regamey HIL H 51.3 Stefano-Francini-Platz 5 8093 Zurich Tel. +41 44 633 29 57 <a href="mailto:sd-is@baug.ethz.ch">sd-is@baug.ethz.ch</a> <a href="http://www.sd-is.baug.ethz.ch">www.sd-is.baug.ethz.ch</a> Contact by appointment</p>

<b>Students association</b>	<p><b>Geospatial and Environmental Engineering Student Organization (GESO)</b></p> <p>ETH Zurich  HXE C25  8093 Zurich  Tel. +41 44 633 27 84  praesidium@geso.ethz.ch  www.geso.ethz.ch</p>
<b>Administrative</b>	<p><b>Registrar's Office</b></p> <p>ETH Zurich, HG F 19, Rämistr. 101, 8092 Zurich  Tel. +41 44 632 30 00  kanzlei@ethz.ch  www.kanzlei.ethz.ch</p>
<b>Enrolment and applications</b>	<p><b>Admissions Office</b></p> <p>ETH Zurich, HG F 21, Rämistr. 101, 8092 Zurich  Tel. +41 44 632 81 00  master@ethz.ch  www.admission.ethz.ch</p>
<b>Student exchange</b>	<p><b>Student Exchange Office</b></p> <p>ETH Zurich, HG F 23.1, Rämistr. 101, 8092 Zurich  exchange@ethz.ch  www.exchange.ethz.ch</p> <p><b>Departmental Exchange Advisor  Spatial Development and Infrastructure Systems</b></p> <p>Regula Oertle  ETH Zurich, HIL E 31.3, Stefano-Franscini-Platz 5, 8093 Zurich  Tel. +41 44 633 22 79  oertle@stab.baug.ethz.ch  www.sd-is.baug.ethz.ch</p>
<b>Examinations/Performance Assessments</b>	<p><b>Examinations Office</b></p> <p>ETH Zurich, HG F 18, Rämistr. 101, 8092 Zurich  Tel. +41 44 632 20 68  exams@ethz.ch  www.exams.ethz.ch</p>
<b>International Student Support</b>	<p><b>International Student Support</b></p> <p>ETH Zurich, HG F 22.3, Rämistr. 101, 8092 Zurich  internationalstudents@ethz.ch  www.ethz.ch/students/en (Studies → International students)</p>



<b>Financial matters</b>	<p><b>Financial Aid Office</b></p> <p>ETH Zurich, HG F 22.1, Rämistr. 101, 8092 Zurich  Tel. +41 44 632 20 40 / 20 88  studienfinanzierung@sts.ethz.ch  www.ethz.ch/students/en (Studies → Financial)</p>
<b>Accommodation</b>	<p><b>Housing Office of University / ETH Zurich</b></p> <p>Sonneggstrasse 27, 8092 Zurich  Tel. +41 44 632 20 37  zimmervermittlung@ethz.ch  www.wohnen.ethz.ch</p>
<b>Psychological Counselling</b>	<p><b>Psychological Counseling Services</b></p> <p>Plattenstrasse 28, 8032 Zurich  pbs@ethz.ch  www.pbs.uzh.ch  Consultation by arrangement</p>
<b>Counselling and Coaching</b>	<p><b>Student Advisory Service and Coaching</b></p> <p>Personal support on issues relating to programme selection, changing programmes, learning techniques and stress management:</p> <p>Ines Danuser  ETH Zurich, HG F 68.4, Rämistr. 101, 8092 Zurich  Phone: 044 632 83 29  ines.danuser@sts.ethz.ch  www.ethz.ch/counselling-coaching  Consultation by arrangement</p>
<b>Studying and Disability</b>	<p><b>Student Disability Advisory Service</b></p> <p>Initial point of contact for questions and issues related to disability or chronic disease.</p> <p>For students with <b>psychological disabilities, AD(H)D:</b></p> <p>Karin Züst  ETH Zurich, HG F 68.3, Rämistr. 101, 8092 Zurich  Tel. +41 44 632 35 92  karin.zuest@sts.ethz.ch  www.ethz.ch/disability  Consultation by arrangement</p>
<b>Studying and Disability</b>	<p>For students within the <b>Autism spectrum, with physical disabilities, chronic illness (for example Diabetes), and Dyslexia:</b></p> <p>Sibilla Flury  ETH Zurich, HG F 68.1, Rämistr. 101, 8092 Zurich  Tel. +41 44 632 27 71  sibilla.flury@sts.ethz.ch  http://www.ethz.ch/disability  Consultation by arrangement</p>

## **Contact**

ETH Zurich  
Department of Civil, Environmental and Geomatic Engineering  
Study Administration Office Geospatial Engineering  
HIL E 31.3  
Stefano-Francini-Platz 5  
8093 Zurich

[www.sd-is.baug.ethz.ch](http://www.sd-is.baug.ethz.ch)