



**University of  
Zurich<sup>UZH</sup>**

**Faculty of Business, Economics and Informatics**

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For any case of legal proceedings the German version ALONE has legal validity**

## **Program Regulations**

**for the Bachelor's and Master's degree programs and for the minor study programs  
at the Faculty of Business, Economics and Informatics of the University of Zurich**

Version 1.0 of 6 October 2021

These program regulations are based on the framework ordinance for the Bachelor's and Master's degree programs at the Faculty of Business, Economics and Informatics of the University of Zurich (RVO), dated 6 September 2021. All references to paragraphs of the framework ordinance refer to this document.

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# 1 Introduction

The Faculty of Business, Economics and Informatics of UZH (referred to hereinafter as “Faculty” or “WWF”) offers Bachelor's and Master's degree programs to students enrolled in the Faculty. Each of these degree programs comprises a major study program and a minor study program. In addition, the Faculty offers minor study programs to students from other faculties.

The appendices to this document contain an overview of the study programs that are offered, as well as details of the curricula for these programs.

## 1.1 Framework ordinance and program regulations

These program regulations (SO) contain the regulatory provisions relating to the framework ordinance for the Bachelor's and Master's degree programs at the Faculty of Business, Economics and Informatics of the University of Zurich, dated 6 September 2021. The program regulations contain the specific details of the provisions in the framework ordinance, which means that they are subordinated to the framework ordinance. Students are required to familiarize themselves with the provisions in both the framework ordinance and the latest version of the program regulations.

Minor study programs offered by other faculties are subject to the provisions of the faculty concerned, particularly with regard to admission, deadlines, crediting coursework and repetition of modules.

Details of procedures and additional information can be found on the Faculty website ([www.oec.uzh.ch](http://www.oec.uzh.ch)).

## 1.2 Terminology

A **degree program** is defined by the level of study and the academic field of study.

- The **level of study** is either Bachelor's level or Master's level.
- The **academic field of study** is either Business and Economics or Informatics.

A degree program consists either of two study programs (major / minor study program) or of a major study program and a liberal arts option.

A study program is a subunit of a degree program. It is defined by the curricular structure, the program goals, the level of study and the number of ECTS credits required and leads to a study program degree.

- A **major study program** comprises 150 or 120 ECTS credits at Bachelor's level and 90 ECTS credits at Master's level.
- A **minor study program** comprises 30 or 60 ECTS credits at Bachelor's level and 30 ECTS credits at Master's level.

The **standard curriculum** (hereinafter: curriculum) specifies for each study program the modules to be completed and may comprise compulsory, core elective and elective areas as well as other terms and conditions.

The liberal arts option is a subunit of a degree program that is open from a curricular point of view and defined by the number of ECTS credits required and that does not culminate in a degree. The Faculty of Business, Economics and Informatics does not offer a liberal arts option. However, students may choose to complete a liberal arts option offered by any of the other faculties.

Credits are awarded for each module on the basis of the European Credit Transfer and Accumulation System (ECTS). One **ECTS credit** corresponds to an average student workload of approximately 30 hours.

### 1.3 Compulsory matriculation

Students must be matriculated at UZH for every semester during which they claim university services. Students enroll through UZH Student Services.

Students must be enrolled in a study program offered by the Faculty of Business, Economics and Informatics if they wish to earn a degree from any of the study programs offered by the Faculty.

Students must enroll correctly in the study programs in which they wish to earn a degree (for example, major study program in Business Administration and minor study program in Informatics). They must ensure that they do so no later than the final semester in which coursework is being completed or services obtained.

### 1.4 Information obligations

Information relating to studies is published on the Faculty website ([www.oec.uzh.ch](http://www.oec.uzh.ch)) and provided in e-mails and is binding. Students are obligated to check their UZH e-mail account on a regular basis.

Students are obligated to find out themselves which ordinances, study-related information, and deadlines apply to them.

### 1.5 Planning studies

It is the students' responsibility to plan the format their studies will take, and particularly to manage any extra-curricular activities in such a way that they are compatible with the coursework from the point of view of both time and effort. Provided that they adhere to the regulations, they are free to combine major and minor study programs however they wish. Students completing minor study programs outside the Faculty must observe the regulations of the faculty offering the program in question (concerning curriculum, exclusion criteria, processing degrees, and so on).

It is the students' responsibility to ensure that they have the background knowledge required or assumed for the study program they have selected. Any missing background knowledge must be acquired through independent study where applicable.

Departments may prepare sample schedules for their study programs. These schedules are recommendations only.

## 2 Bachelor's Degree Program

### 2.1 Content and title

The Bachelor's degree program aims to provide a basic academic education with a broad scope of methodology and content. It usually takes six semesters to complete. A Bachelor's degree enables graduates to launch their careers immediately after completion or to move on to a Master's degree program, either at the Faculty or at another university.

On successful completion of a Bachelor's degree program, the Faculty awards one of the following titles:

- Bachelor of Arts UZH in Wirtschaftswissenschaften (corresponds to Bachelor of Arts UZH in Business and Economics)
- Bachelor of Science UZH in Informatik (corresponds to Bachelor of Science UZH in Informatics)

### 2.2 Admission

Admission to a Bachelor's degree program is granted via UZH Student Services in accordance with the ordinance on admission to studies at the University of Zurich (VZS).

Admission to a Bachelor's degree program can only occur in the fall semester because the assessment level for the Bachelor's degree program always commences in the fall semester.

### 2.3 Structure

A Bachelor's degree program comprises 180 ECTS credits. Students select a major and a minor study program within their degree program.

The **major study programs** are divided into an assessment level and an advanced level.

The **minor study program** may either also be completed at the Faculty; alternatively, students may select a minor study program offered outside the Faculty.

The following workloads and combinations can be selected within the Bachelor's degree program:



- A major study program comprising 150 ECTS credits combined with a minor study program comprising 30 ECTS credits;
- A major study program comprising 150 ECTS credits combined with a liberal arts option comprising 30 ECTS credits;
- A major study program comprising 120 ECTS credits combined with a minor study program comprising 60 ECTS credits.

Appendix A1.1 contains an overview of the study programs that are offered and the possible combinations. A list of minor study programs offered outside the Faculty that are available for students to take is published in the online course catalogue of UZH.

## 2.4 Requirements for the assessment level

The assessment level is the first year of study and comprises **60 ECTS credits earned from compulsory modules** in the major study program. It usually lasts two semesters. All coursework must be completed **within four consecutive semesters** (assessment deadline). Students who have not earned all the ECTS credits at the assessment level after two semesters receive the opportunity in their second year to complete the modules that are missing.

The assessment deadline is not affected by a student's withdrawal from the university or by a change of the degree and/or study program.

Modules at the assessment level are offered either in the fall semester or in the spring semester. Examinations for fall-semester modules are not offered in the spring semester. Examinations for spring-semester modules are not offered in the fall semester.

Details of the assessment-level **curricula** in Bachelor's study programs can be found in Appendices A4.3 and A6.3. The regulations on the number of repetitions permitted can be found in §§ 27 ff. RVO and in Clause 12 SO. Regulations on failure to meet the assessment deadline can be found in § 37 RVO, §§ 33 f. RVO and in Clause 13 SO.

## 2.5 Admission to the advanced level (conditional acceptance to the advanced level)

As soon as a student has earned 45 ECTS credits at the assessment level, they are conditionally accepted to the advanced level and are therefore permitted to book advanced-level modules from the major or minor study programs or from the liberal arts option. Students with fewer than 45 ECTS credits do not have permission to complete coursework from the advanced level, the minor study program or the liberal arts option. Students may not begin working on their Bachelor's theses before reaching the advanced level.

## 2.6 Requirements for the advanced level

The advanced level comprises either 60 ECTS credits (Informatics with Natural Sciences) or 90 ECTS credits. This includes a Bachelor's thesis comprising 18 ECTS credits.

Details of the advanced-level **curricula** in Bachelor's study programs can be found in Appendices A4 and A6. The regulations on the number of repetitions permitted can be found in §§ 27 ff. RVO and in Clause 12 SO.

## 2.7 Completing Master's modules in advance

At the advanced level of a Bachelor's program, a maximum of 30 Master's-level ECTS credits may be completed in advance, provided that a minimum of 120 ECTS credits from the Bachelor's study program have already been earned. Students may not begin working on their Master's theses before reaching the Master's degree program.

# 3 Master's Degree Program

## 3.1 Content and title

The Master's degree program provides an advanced academic education and in-depth specialist knowledge and usually takes four semesters to complete. It enables students to build their own profiles. A Master's degree shows that graduates are ready to take on demanding challenges: It allows them to launch a professional career and, assuming they have the right aptitude, to pursue an academic career in the form of a doctorate.

On successful completion of a Master's degree program, the Faculty awards one of the following titles:

- Master of Arts UZH in Wirtschaftswissenschaften (corresponds to Master of Arts UZH in Business and Economics)
- Master of Science UZH in Informatik (corresponds to Master of Science UZH in Informatics)

## 3.2 Admission

Students are admitted to a Master's degree program through the matriculation procedure administered by UZH Student Services.

In order to be admitted to a Master's degree program at UZH, an applicant must meet the requirements set out in the ordinance on admission to studies at UZH (VZS) and in the admission regulations (ZR) of UZH. Student Services review the application in this regard. The Faculty will then subject the application documents to a specialized academic review and determine the applicant's level of study. The decision is based on an evaluation of the curriculum of the program of studies completed, as well as other documents.

Students who already have an equivalent degree at the same academic level resulting from a program in the same academic field of study will not be admitted to studies.

The principles that the Faculty adheres to during each application period with regard to the specialized academic review and level of study categorization process are published on the Faculty website. Submission of the results of a GMAT, GRE or similar test may be required.

Applicants are notified of their admission and categorization in an admission notification. The categories they may be assigned to are:

- a) no admission to the Master's degree program,
- b) admission with conditions, which must be fulfilled before admission to the Master's degree program,
- c) admission to the Master's degree program with additional requirements, which must be fulfilled during the Master's degree program,
- d) admission to the Master's degree program without additional requirements or conditions.

The specification of requirements for an admission without additional requirements and conditions is set out in § 31 para. 2 VZS and § 21 of the admission regulations (ZR) and is determined by the standard curricula of the Bachelor's study programs listed in the appendix to these program regulations. Students holding a Bachelor's degree from the Faculty are therefore admitted in the same academic field of study without additional requirements or conditions.

Based on the specification of requirements in the area of specialization, possible gaps in the student's knowledge are identified, which determine the additional requirements or conditions of admission. **Additional requirements or conditions** are defined by the examination delegate and students are notified of these in the supplement to the admission notification. They may stipulate a required number of ECTS credits from the compulsory, core elective, and elective areas at Bachelor's level, and may also require the student to prepare a Bachelor's thesis. Regulations on the permitted number of repetitions of the modules that have been defined as additional requirements or conditions are set out in §§ 27 ff. RVO and Clause 11 of these program regulations. The type of module stipulated in each additional requirement or condition listed in the supplement to the admission notification is binding. ECTS credits earned from additional requirements or conditions are not part of the Master's degree and do not count towards the overall grade. They will, however, be listed in the Academic Record. Details on completing the Bachelor's thesis as an additional requirement are set out in § 38 RVO and Clause 4 SO.

The admission notification also determines the period within which these additional requirements or conditions must be completed (usually four consecutive semesters).

### **3.2.1 Exclusion and banning for failure to complete a compulsory module defined as an additional requirement**

If a student has definitively failed to complete a compulsory module defined as an additional requirement or condition under § 28 RVO and Clause 12.1 SO, the examination delegate, in the name of the Faculty, will order an irrevocable exclusion from the Master's study program concerned under § 20 of the ordinance on admission to studies at the University of Zurich (VSZ) and § 24 of the admission regulations.

An irrevocable exclusion from the study program due to a definitive failure to complete a compulsory module will result in the student being banned from all study levels of the study program concerned and of all other study programs at UZH deemed by the Faculty to be similar.

All study programs at UZH whose curricula list the module that has been definitively failed as a compulsory module are deemed to be similar.

Additional regulations as per Clause 13 SO apply.

### 3.2.2 Exclusion and banning for failure to adhere to the deadline

The period within which the additional requirements or conditions must be completed begins on the first day of the semester during which the first module with the Faculty is booked, and does not end with a withdrawal from the university or with a change of degree and/or study program.

If a student has failed to fully complete the additional requirements or conditions within the set deadline, the examination delegate, in the name of the Faculty, will order the student to be banned from the Master's study program concerned. In justified exceptional circumstances (e.g., if a petition to cancel an exam for health reasons has been granted), the examination delegate may grant an extension to the period within which the additional requirements or conditions must be completed. Any such extension must be applied for in a timely manner, i.e., before the original deadline has passed.

An irrevocable exclusion due to a failure to complete the additional requirements or conditions within the set deadline will result in the student being banned from all study levels of the study program concerned and from all other major and minor study programs in the same academic field of study (Business and Economics or Informatics).

### 3.3 Structure of and requirements for the Master's level

The Master's degree program comprises 120 ECTS credits. Students select a major and a minor study program within their Master's degree program.

The **major study program** comprises 90 ECTS credits. This includes a Master's thesis comprising 30 ECTS credits.

The **minor study program** comprises 30 ECTS credits and enables students to enhance and hone their knowledge in a certain field. It is usually completed within the Faculty as well. Students who opt to complete a minor study program in an academic field of study other than the major study program are themselves responsible for closing any gaps in their knowledge.

The following workloads and combinations can be selected within the Master's degree programs:

- Major study program comprising 90 ECTS credits combined with a minor study program comprising 30 ECTS credits;
- Major study program comprising 90 ECTS credits combined with a liberal arts option comprising 30 ECTS credits.

Appendix A1.2 contains an overview of the study programs and combinations that are offered. A list of minor study programs offered outside the Faculty that are available for students to take can be found in the online course catalogue of UZH.

The detailed **curricula** for the study programs at Master's level can be found in Appendices A5 and A7. The regulations on the number of module repetitions permitted can be found in §§ 27 ff. RVO and in Clause 12 SO.

## 4 Bachelor's and Master's Theses

All **major study programs** at Bachelor's and Master's levels include a thesis in one of the academic fields of study of the Faculty.

- **Bachelor's thesis (18 ECTS credits, 6 months):** The workload for a Bachelor's thesis is approximately 540 hours.
- **Master's thesis (30 ECTS credits, 6 months):** The workload for a Master's thesis is approximately 900 hours.

The final thesis is a compulsory module and is graded. The deadline for submitting a thesis is six months after receiving the definitive project definition. It is possible for students to submit a thesis before the six-month period has ended.

The thesis is written in the language in which the study program is conducted (usually German or English). Students may, however, seek permission from their supervising Faculty member to write it in a different language.

### 4.1 Selection of subject and evaluation

A thesis is an independently written paper on a subject specified by a Faculty member. Group work is not permitted. Information on identifying a thesis subject is published on the Faculty website.

Furthermore, the website contains exact details of the thesis procedure, from the point at which the definitive project definition is registered to submitting the thesis on time and in the correct format. The procedure as published must be adhered to. Any possible additional requirements or conditions must have been completed before commencement of the Master's thesis.

The thesis is evaluated and graded by the Faculty member. The student is notified of the grade achieved by the Faculty member.

### 4.2 Defending the thesis

Master's students in Informatics must defend their Master's theses once they have submitted them. The defense requires the student to give a public presentation on the Master's thesis and then take

questions from the auditorium. The defense is evaluated by the supervising Faculty member and has an impact on the grade assigned to the Master's thesis.

### **4.3 Extension, cancelation of and number of repetitions permitted for a thesis**

#### **4.3.1 Extension or approved cancelation**

If the student becomes partially or entirely unable to work after starting the thesis, or if other reasons beyond the student's control prevent submission of the thesis on time, the examination delegate may extend the deadline for working on the thesis or approve its cancelation. Petitions for extensions or cancelations must be submitted to the examination delegate in writing and before the processing deadline has expired. Any additional documents must be attached to the petition. Theses canceled with approval are considered not to have been started.

#### **4.3.2 Cancelation without approval**

If a thesis is canceled without approval or the submission deadline has not been adhered to, the thesis has been failed and is evaluated with the grade 1.

#### **4.3.3 Number of repetitions permitted**

A failed thesis may be repeated once, but with a new topic selected. There is no automatic right to repeat a thesis under supervision of the same Faculty member. Students who do not pass the thesis even after repeating it have not passed their major study program and will be irrevocably excluded from studies (for more details, see Clause 13 SO)

## **5 Recognition and Crediting of Coursework Towards a Degree**

There is a difference between recognizing and crediting coursework towards a degree. Recognition certifies that coursework has been completed. Crediting coursework towards a degree certifies that recognized coursework counts towards a degree.

The examination delegate decides whether coursework should be recognized and credited.

### **5.1 Validity of ECTS credits**

ECTS credits may be credited towards a degree from the Faculty for up to five years after they have been earned. A completed assessment level is an exception to this rule, as it may be credited towards a degree indefinitely.

The reference dates for the validity period are the final day of the semester in which the module was completed (31 January or 31 July) and the day of registration for graduation. On that day, all coursework must have been completed, and the thesis must have been submitted and, where applicable, defended.

Compulsory modules that can no longer be credited towards a degree may be repeated following a petition approved by the examination delegate. Core elective modules and elective modules generally have to be substituted.

## **5.2 Identical or similar modules**

Once a module has been passed, no further ECTS credits may be earned for modules with identical or similar content. Modules that can no longer be credited towards a degree under § 17 RVO and Clause 5.1 SO are exceptions to this rule.

## **5.3 Minimum number of ECTS credits to be completed at UZH**

At least half of the ECTS credits required for the major study program to be credited towards a degree from the Faculty must be completed at the Faculty of Business, Economics and Informatics at UZH (in Bachelor's degree programs at least 75 ECTS credits or 60 ECTS credits [Informatics with Natural Sciences] and in Master's degree programs at least 45 ECTS credits). The compulsory modules and the thesis must be completed or written within the Faculty and are considered part of the minimum requirements to be completed at the Faculty.

## **5.4 Modules completed at other UZH faculties or at other universities**

Credit for modules completed at other UZH faculties or at other universities recognized by the Faculty may be transferred to the elective area or, where applicable, the core elective area. The precondition is that the modules were completed with an assessment, awarded official points (ECTS credits, for example), and that they meet program level eligibility criteria (Bachelor's or Master's level). Coursework that has already been credited towards a degree may not be transferred to any other degrees.

An assessment level can only be transferred if its content is equivalent to the Faculty's assessment level. In such cases, the assessment level is transferred either in full or not at all. Partial transfer of an assessment level is not possible.

The minor study program may be waived as a whole if the student has already completed a full degree. In this case no grade will be assigned to the minor.

Credit for modules completed at other universities is transferred on the basis of the official transcript of records from the university in question.

All the key information on transferring credit for modules completed at other UZH faculties or at other universities as well as for degrees already completed is published on the Faculty website. In particular, the website provides information on the procedures, requirements and the documents necessary for transferring credit. The procedures as published must be adhered to.

#### 5.4.1 Modules completed at other UZH faculties

All modules offered by other UZH faculties and booked using the module booking tool are referenced in the transcript of records.

Which modules can be credited towards a minor study program completed at another UZH faculty is determined by the regulations of the other faculty concerned.

#### 5.4.2 Modules completed at other universities in the context of prior studies

Credit for modules completed at other universities before studies at the Faculty have been assumed (prior studies) may be transferred following an approved petition from the student once they have been admitted to studies. Bachelor's students can submit a petition once they have passed the assessment level.

#### 5.4.3 Modules completed at other universities during studies

The transfer eligibility of credit from modules completed at other universities during studies at the Faculty (particularly as part of mobility semesters) must be clarified with the examination delegate by means of a binding credit-transfer agreement.

## 6 Mobility

The Faculty provides support for its students in major study programs who wish to carry out one or more mobility semesters at another university (in particular abroad). These refer to exchange semesters that are completed at another university, usually in another country. There is no entitlement for students to complete a mobility semester.

Ideally, Bachelor's students will complete a mobility semester during their fifth semester and Master's students during their third semester, assuming a normal period of study.

Credit for modules completed during the mobility semester is transferred in accordance with the specifications in § 47 RVO as well as Clause 5 SO.

All mobility students at the Faculty of Business, Economics and Informatics must conclude a credit-transfer agreement before they start their mobility semester, stating, in binding fashion, the eligibility of credit transfer for each individual module. Students have no right to assert a claim to transfer credits for any area, particularly if the evaluation is carried out after the mobility semester has ended.

Information on organizing the mobility semester is published on the Faculty website. The website also contains application deadlines and binding details of the procedure.



## 7 Degree

Studies have been successfully completed when the total number of required ECTS credits has been earned under the conditions of the framework ordinance and the program regulations; in particular, with the time restrictions adhered to as specified in § 33 RVO and in Clause 5.1 and Clause 2.4 SO. The degree conferral date is considered the official date of earning the degree.

As a rule, the modules completed are credited towards the degree in chronological order. Coursework completed beyond the required number of ECTS credits is not credited towards the degree, but instead is referenced in the Academic Record as "coursework not credited towards the degree."

### 7.1 Weighted overall grade

The final degree is assigned a weighted overall grade. Graded modules are weighted according to their number of ECTS credits in the calculation of the major and minor degree grades. Major and minor degree grades are weighted according to their fixed ECTS credit values (150, 120, 90, 60, or 30 ECTS credits) in the calculation of the weighted overall grade. Both the major and minor degree grades and the weighted overall grade are calculated as unrounded point values. The results are rounded to one decimal place. ECTS credits earned from a liberal arts option are not factored into the weighted overall grade.

### 7.2 Registration for graduation

No later than the final semester during which coursework is completed or services made use of, students must be properly enrolled in the same study programs as the ones they register for graduation (major, minor or liberal arts option).

All the key information on the registration for graduation process and the necessary documents is published on the Faculty website. The website also indicates the registration deadlines applying to the degree conferral dates offered. These specifications must be adhered to. Otherwise, it will not be possible to process the registration, or it will only be possible to process it for the next degree conferral date.

### 7.3 Final records

Graduates receive the following final records: the Diploma, the Diploma Supplement and the Academic Record. An English transcript of all three records is also provided (unsigned).

The Academic Record serves as confirmation of having earned the degree. It is subject to appeals submitted to the examination delegate (see Clause 16.1 SO).

## 8 Minor Study Programs for Major Students from Other Faculties

Students who are enrolled in a major study program at another UZH faculty may take a minor study program at the Faculty of Business, Economics and Informatics, if this is permitted by the regulations of the other faculty.

### 8.1 Programs offered

The Faculty of Business, Economics and Informatics offers major students from other faculties separate minor study programs that provide them with an overview and a sound basic knowledge of the selected study program

- At Bachelor's level, minor study programs comprising 30 ECTS credits (minor 30) and 60 ECTS credits (minor 60) are offered.
- At Master's level, minor study programs comprising 30 ECTS credits are offered.

### 8.2 Admission to minor study programs at Bachelor's level

As a rule, Bachelor's minor study programs are open to all Bachelor's students matriculated at UZH. Admission to Bachelor's minor study programs is governed by § 8 RVO and Clause 2.2 SO.

### 8.3 Admission to minor study programs at Master's level

Students are admitted to minor study programs at Master's level through the matriculation procedure administered by UZH Student Services.

The admission assessment and the fulfilment of possible additional requirements and conditions are governed by Clause 3.2 SO.

Furthermore, only study programs from the same specialization are considered as consecutive minor study programs.

### 8.4 Structure and requirements

Details of the **curricula** for minor study programs for students from other faculties can be found in Appendix A8. The regulations on the permitted number of repetitions can be found in §§ 27 ff. RVO and in Clause 12 SO.

### 8.5 Special provisions

The provisions for minor study programs offered to students from other faculties deviate from the provisions for **major study programs** in accordance with these program regulations as follows:

### 8.5.1 No transfer of credit for coursework completed externally

All ECTS credits for the minor study program must be completed within the Faculty. Credit is not transferred for coursework completed externally. Credit earned previously from coursework completed at other institutions is not transferred either.

### 8.5.2 No deadline for completing compulsory modules

There is no special deadline in the Bachelor's minor study program for major students from other faculties to complete modules (contrary to the regulations with regard to the assessment level in major study programs offered at the Faculty).

### 8.5.3 No Bachelor's / Master's thesis

It is not possible to prepare a Bachelor's or a Master's thesis in a minor study program.

### 8.5.4 No completing of Master's modules in advance

It is not possible during the Bachelor's study program to earn ECTS credits from completing modules at Master's level of the Faculty of Business, Economics and Informatics in advance.

### 8.5.5 Degree

Students register for graduation in the faculty in which they are taking their **major study program** and do so in accordance with the specifications and deadlines of that faculty. The degree is processed by the faculty offering the major study program. The Dean's Office of the Faculty of Business, Economics and Informatics is responsible for verifying the coursework completed in the minor study program at the Faculty of Business, Economics and Informatics. It confirms the minor degree to the faculty offering the major and notifies it of the minor degree grade.

## 9 Changes

As a rule, students may only change degree programs or study programs if they have not been, or are not about to be, irrevocably excluded from a study program within the Faculty (for more details, see Clause 13 SO). Students must submit an online request for their intended change to UZH Student Services.

Unless otherwise approved, all coursework as well as any initial, failed attempts and deadlines (e.g., for the assessment level, for additional requirements, etc.) are transferred over when the change is made.

In the event of a change, students must adhere to any admission requirements that the new study program stipulates (particularly where the Master's level is concerned, see § 42 RVO and Clause 3.2 SO).

Information on changing degree programs or study programs is published on the Faculty website. In particular, the website provides information on the procedures and the documents required in the event that a student wishes to make a change of this kind. The procedures as published must be adhered to.

## 9.1 Changing degree programs

All changes from one degree program to another are subject to approval.

The following applies to a change **between different degree programs within the Faculty of Business, Economics and Informatics**: As a rule, students in **major study programs at Bachelor's level** must adhere to the two-year time frame for the assessment level. Changing before completing the assessment level is only possible if all coursework in the new degree program can be completed within the required time frame for the assessment level. Otherwise, the assessment level of the original degree program must be completed first. After that, the missing assessment-level modules in the new degree program must be completed.

**Major students of a Master's study program changing between different degree programs within the Faculty of Business, Economics and Informatics** must meet the deadlines for fulfilling the additional requirements. Deadlines for the original degree program are not affected by the change. Deadlines for the new study program are newly set.

Changing from the **Faculty of Business, Economics and Informatics to another faculty**: If a student wishes to change from a degree program at the Faculty of Business, Economics and Informatics to a degree program at another faculty with a minor study program at the Faculty of Business, Economics and Informatics, the application is assessed at the time of changing the enrollment. Coursework is usually transferred in the event of changes of this kind. Information about which modules can be transferred can be found in the online course catalogue of UZH and in the regulations (set out, in particular, in the Appendix to these program regulations). Any initial failed attempts are also transferred.

**Changes from another faculty to the Faculty of Business, Economics and Informatics**: If a student wishes to change from a degree program at another faculty with a minor study program at the Faculty of Business, Economics and Informatics to a degree program at the Faculty of Business, Economics and Informatics, it is highly recommended that they contact the Dean's Office of the Faculty of Business, Economics and Informatics. Students may only make this change with a transfer of credit for the coursework they have completed up to that point if they are able to adhere to the two-year time frame for passing the assessment level of the major study program concerned. A restart may be approved.

## 9.2 Changing study programs within a degree program

As a rule, it is possible to change study programs within a degree program at the Faculty. The changes are assessed and amendments may be made to the admission notification. This applies, in particular, to students who were admitted with additional requirements and/or conditions. The period within which these must be fulfilled remains unchanged.

## 10 Modules and Assessments (Examinations)

Study program curricula are divided into modules, which are coherent units in regard to content and time. ECTS credits and grades are awarded on the basis of an assessment. The online course catalogue of UZH contains information on the modules that are on offer each semester. It also publishes the requirements (§ 16 RVO) that students must meet in order to take the modules, as well as information on the assessment, the areas that the modules can be credited to, and the language of the module content. Under § 16 RVO, participant numbers are limited in seminars only.

### 10.1 Awarding of ECTS credits

Each module comprises a (whole) number of ECTS credits which corresponds to the average workload expected to successfully complete the module. The number of ECTS credits must be earned in full; it is not possible to award ECTS credits on a pro-rata basis.

ECTS credits earned in a particular module cannot be divided up between different study programs.

### 10.2 Module categories

Modules are allocated to module categories according to the way in which their content is communicated. Information about the category of each module can be found in the online course catalogue of UZH.

Appendix A3 contains descriptions of the individual module categories as well as information on how they are booked and evaluated.

### 10.3 Registering for and dropping modules

Students must register for (book) every module they wish to take. Registering for a module automatically includes registration for the assessment.

Deregistration (dropping) of a module must occur within the timeframe published.

The deadline for booking and dropping modules is published on the Faculty website, notified to students in an e-mail and specified for each module in the online course catalogue of UZH. Modules that have been booked in the module booking tool by the module booking deadline will be considered valid.

A special procedure may be followed for modules with a restricted number of participants (e.g., a separate registration). This will be announced in the online course catalogue of UZH.

Modules that cannot be booked using the module booking tool are processed using a standardized procedure. Information on this procedure is issued in an appropriate format (in particular, on the Faculty website). The regulations published on the website or in the fact sheets are binding.

#### 10.4 Cancellation of announced modules

If an insufficient number of participants have registered (fewer than three students) or an event of force majeure occurs (such as an instructor being unable to work for an extended period due to an accident or illness), a module that has been announced in the online course catalogue of UZH may be canceled. No claim may be made for the replacement of a canceled module.

#### 10.5 Assessments

The assessment provides the basis for evaluating the student's performance in a module. The online course catalogue of UZH lists the type of assessment and the requirements that students must meet in order to complete the assessment successfully. In order for students to earn ECTS credits, they must explicitly pass an assessment. It is not possible to award ECTS credits for attendance only.

As a rule, the assessment must be conducted in the language in which the module in question is taking place. Exceptions require approval from the module coordinator. All students who are taking the assessment in the same semester may avail themselves of any approved exceptions.

The aids that are allowed for each assessment are communicated in an appropriate format.

#### 10.6 Evaluation of coursework, grades

Assessments are evaluated with grades or on a "pass"/"fail" basis. Grades are usually awarded in quarter-grade increments between 6 and 1, where 6 is the best grade and 1 is the worst.

The half-grades have the following meanings:

- 6.0     excellent
- 5.5     very good
- 5.0     good
- 4.5     satisfactory
- 4.0     sufficient.

An evaluation with a grade below 4 or "failed" is deemed insufficient.

#### 10.7 Transcript of records

At the conclusion of each semester, all passed and failed modules are documented in a transcript of records. Coursework that was not completed at UZH is marked as such. The transcript of records is issued in German. An English translation is also provided.

Any appeal of the transcript of records regarding the new credits listed may be filed with the examination delegate (see Clause 16.1 SO).

## 11 Consequences of Absence (Illness) and Fraud

### 11.1 Inability, cancelation, unexcused failure to attend

If an urgent, unforeseeable, and unavoidable reason for the student being unable to complete an assessment arises before the assessment is due to start, the examination delegate must be informed of this immediately.

If a reason of this nature arises immediately before or during the assessment (cancelation of an ongoing examination), the proctor must be informed immediately, the cancelation must be recorded and, in the case of illness, the student must see a doctor.

In all cases, a drop petition to cancel the module must be submitted online and no later than five working days after the assessment date, along with the applicable confirmation (e.g., a medical certificate).

In cases where the assessment extends over a longer period (papers in particular), an extension petition may be made prior to the submission deadline.

If medical reasons are claimed, a medical certificate is required. In case of doubt, the examination delegate may consult an independent examining doctor.

The examination delegate decides whether the drop petition is approved. If the drop petition for an assessment that has not been completed is not approved, the assessment is considered to have been failed.

Drop reasons may not be claimed retrospectively for an assessment that has already been completed.

If a student does not attend an assessment or if the deadline for submitting a drop petition is missed, the assessment is considered to have been failed. If the module is graded, a grade of 1 is awarded in such cases.

If an exam is canceled for medical reasons, this does not automatically lead to an extension of the two-year period within which the assessment level or additional requirements must be fulfilled. However, if a module cannot be completed successfully within the two-year assessment period or the period within which additional requirements must be fulfilled, students may submit a petition to attend a make-up exam on the next possible date. This additional petition must be submitted to the examination delegate in writing and no later than 31<sup>st</sup> July of the second year of assessment. In the case of additional requirements, the petition must be submitted no later than the end of the fourth semester of the set period.

### 11.2 Examination fraud and plagiarism

In the event of fraudulent or dishonest activity, especially where someone brings in or uses unauthorized aids, communicates with third parties without permission during an assessment,

submits plagiarized work, has not written a paper themselves (particularly where this concerns a term paper or Bachelor's and Master's theses), or has registered or canceled a module on the basis of incorrect or incomplete information, the module is declared to have been failed (grade 1 awarded) by decision of the Faculty, and any transcripts of records that have been issued must be declared null and void.

Furthermore, a petition for disciplinary proceedings may be submitted to the President by decision of the Faculty.

If a title has been awarded on the basis of a module that has been declared null and void, it will be revoked by decision of the Faculty Board. Any final records that have already been issued will be confiscated.

Student papers may be checked for plagiarism using appropriate software.

## 12 Repetition of Modules

Depending on the module, either the entire module or just the assessment can be repeated. In cases where it is possible to repeat just the assessment itself (repeat examination without course), and this option has been booked by the student, no additional opportunities will be offered to repeat the assessment for the module in question.

There is no entitlement to immediately repeat a failed or missed assessment.

### 12.1 Repetition of compulsory modules

Failed compulsory modules may be repeated once. Substitution is not permitted.

If a student has taken advantage of the opportunity to repeat a compulsory module but has not passed it on this occasion, the module is considered to have been definitively failed. This will lead to an irrevocable exclusion from studies according to § 33 RVO and a ban according to § 34 RVO and Clause 13 SO.

### 12.2 Repetition of core elective and elective modules

A failed core elective or elective module may be repeated once as long as the module is still being offered.

Substitutions are possible within the curricular regulations set out in Appendices A4 to A8. Once all possibilities to substitute core elective or elective modules have been exhausted and the possibility of achieving the curricular goals or conditions for successfully earning a degree therefore no longer exists, a petition may be submitted to the examination delegate to complete an individual degree program.



## 13 Irrevocable Exclusion from Studies

Students are irrevocably excluded from studies from the point at which they receive the transcript of records, provided that the requirements for irrevocable exclusion from studies have been met. Students who do not receive the transcript of records because they have withdrawn from the university are still considered irrevocably excluded from studies. An order of exclusion will be sent to the student upon expiry of the appeals deadline.

### 13.1 Exclusion and banning for failing a compulsory module

Students who have definitively failed a compulsory module according to § 28 RVO and Clause 12.1 SO, the examination delegate, on behalf of the Faculty, will order the student to be irrevocably excluded from the study program in question.

Students who have been irrevocably excluded from a study program due to a definitively failed compulsory module are automatically banned from all study levels in respect of the study program in question and all study programs at UZH deemed by the Faculty to be similar.

All study programs offered by UZH whose curricula contain the definitively failed module as a compulsory module are deemed to be similar.

### 13.2 Exclusion and banning for failing to meet the assessment deadline

The assessment period begins when the first assessment module is booked at the Faculty of Business, Economics and Informatics. It does not end if a student withdraws from the university or changes their degree or study program.

If the coursework for the assessment level has not been completed within two years of commencing studies, the examination delegate on behalf of the Faculty will order the student to be irrevocably excluded from the study program in question. In justified exceptional cases (e.g., in cases of approved drop petitions for medical reasons), the exam delegate may approve an additional opportunity to repeat individual modules at the assessment level after the two-year deadline. A petition to take advantage of such an opportunity to repeat a module must be made in a timely fashion, i.e., before the assessment period has ended.

Irrevocable exclusion from studies due to a failure to complete assessment-level coursework within the assessment period will automatically lead to students being

- banned from all study levels of the study program in question and from all major and minor study programs in the same academic field of study (Business and Economics or Informatics) and
- banned from all study programs offered by the Faculty in the other academic field of study (Business and Economics or Informatics) at the same level.

### 13.3 Additional provision

Students who have been excluded or banned from all Bachelor's study programs in a particular academic field of study, are also banned from all Master's study programs in the same academic field of study.

## 14 Students with Disabilities

Students who wish to submit a petition for measures to assist them with their studies due to a disability or a chronic illness must notify the UZH Disability Office well in advance of commencing their studies. Students must resubmit a claim for measures to assist them with their studies to the examination delegate in advance for each semester.

The Faculty website contains information on undertaking studies with a disability or a chronic illness. It also specifies the procedure and binding deadlines for students to submit petitions for compensating adaptations that will assist them with their studies or assessments.

Retrospective approval of measures is not possible.

## 15 Publication and Copyright

### 15.1 Copyright on students' papers

In principle, students own the copyright to their papers. Upon submission of a paper to UZH, the student transfers the copyright to the university, in so far as this is necessary for administrative tasks such as the detection of plagiarized work or archiving the paper. Students may sign a written agreement to transfer all legal rights of use of the work to the supervising department.

### 15.2 Publication

It is incumbent upon the student to inform the supervising Faculty member if their paper is going to be published. The Faculty member may impose conditions on the publication. If these conditions are not met, publication of the paper will be forbidden. The regulations with regard to the publication of students' papers and the imposition of conditions are binding and can be found on the Faculty website.

## 16 Legal Protection and Right to Access Documents

### 16.1 Legal protection

All petitions relating to these program regulations must be directed to the examination delegate and submitted in writing or online to the Dean's Office for the attention of the examination delegate. The appropriate manner of submission (in writing or online) is published on the Faculty website.

As a minimum, petitions must contain the student ID number, a request and the reason for the request as well as a date and signature. Where possible, supporting documentation and records must be included. Petitions relating to existing deadlines must be submitted before the deadline expires. The examination delegate issues a decision in response to the petition, provided it was submitted on time and in the correct format

Decisions made in accordance with the paragraph above, or in relation to these program regulations, are subject to appeal in accordance with § 59 RVO. Appeals must be submitted in writing, together with the necessary supporting documentation, to the Dean's Office for the attention of the examination delegate within 30 days of receiving the decision. The Faculty reserves the right to refrain from defending against appeals concerning evaluations of coursework prior to sending out the transcript of records.

Decisions on appeals can be referred to the Appeals Commission of the Higher Education Institutions of the Canton of Zurich.

Information on the procedure for petitions and the manner in which they must be submitted (in writing or online) is published on the Faculty website.

### 16.2 Access to documents and examination papers

The module coordinator or department chair is required to provide access to documents and examination papers.

Students have the right to access all documents that affect them with regard to newly evaluated modules listed in their records, at the latest from the time at which they have been officially notified of their grades (i.e., when their transcript of records has been sent). Students must be granted this access for a reasonable period of time. They are entitled to make handwritten notes, but not to receive copies or use devices that allow content to be recorded, reproduced, or saved.

## 17 Transitional Regulations

### 17.1 General regulations

These program regulations apply to all students who begin their studies in the 2022 fall semester or later.

The following principles apply to all students who have commenced their Bachelor's or Master's study programs at the Faculty of Business, Economics and Informatics prior to these program regulations coming into effect and who have not been irrevocably excluded from studies.

### 17.2 Transition

All students are subject to these program regulations as of the 2022 fall semester and will generally be transferred to study programs that are subject to these program regulations.

### 17.3 Transfer of credits earned

Subject to § 47 RVO, all coursework that has already been completed and can be credited towards the degree will be transferred. Binding information on whether the coursework can be credited towards the degree is published in the online course catalogue of UZH.

Detailed regulations with regard to the modules that can be credited in case of changes to the curriculum are published on the Faculty website.

### 17.4 Regulations regarding the assessment level

Failed attempts at the assessment level made prior to the 2022 fall semester, remain on the record. The repetition regulations set out in §§ 27 ff. RVO apply from the 2022 fall semester onwards. Any assessment-level module which has been failed prior to the 2022 fall semester may be repeated once within the period of assessment.

The assessment period is not interrupted by these program regulations coming into effect.

### 17.5 Regulations regarding failed attempts at the advanced level of the Bachelor's program and at Master's level

Failed attempts at the advanced level of the Bachelor's program and at Master's level made prior to the 2022 fall semester are expunged. Calculations regarding the permitted number of repetitions of a module according to §§ 27-29 RVO and Clause 12 SO at the advanced level of the Bachelor's program and at Master's level will be reckoned from the 2022 fall semester. This means that regardless of any failed attempts made prior to the 2022 fall semester, any modules at the advanced level of the Bachelor's program and at Master's level that have not yet been passed may be completed twice from 2022 fall semester onwards (one first attempt and one possibility to repeat).

### **17.6 Study programs that are being discontinued**

A list of study programs that will no longer be offered will be published on the Faculty website. The regulations set out in these program regulations and the associated framework ordinance also apply to study programs that will no longer be offered.

Admission or readmission to a study program that is being discontinued will not be possible from the 2022 fall semester onwards.

A study program that is being discontinued may be completed according to the curriculum of the old program regulations, provided this can be achieved by the 2024 spring semester. There is no automatic guarantee that all modules of the program that is being discontinued will remain available until the 2024 spring semester. Modules that are no longer available may be substituted by modules with an equivalent course content as per the regulations published on the Faculty website.

After the 2024 spring semester it will no longer be possible to earn any credits to count towards the degree in a study program that has been discontinued. If any credits are still outstanding by that stage, it will not be possible to earn a degree in the study program in question. Students who find themselves in this position will be required to change to an existing study program and the details will be agreed on a case-by-case basis.

### **17.7 Additional requirements and conditions**

Any additional requirements and conditions that have not been met by that stage will be adjusted in the case of changed module offerings.

## A1 Programs Offered to Students in the Faculty of Business, Economics and Informatics

### A1.1 Programs offered at Bachelor's level

Students first decide on a degree program (Business and Economics or Informatics) and then on a major study program and a minor study program. The following major and minor study programs are offered to students enrolled in the Faculty of Business, Economics and Informatics:

Study program	Number of ECTS credits	Department offering the program	Code
<b>Business and Economics degree program (OEC): Major study programs</b>			
Economics	150 ECTS credits	IVW	B_150_VWL
Business Administration	150 ECTS credits	IBW	B_150_BWL
Banking and Finance	150 ECTS credits	IFF	B_150_BF
<b>Informatics degree program (INF): Major study programs</b>			
Information Systems	150 ECTS credits	IfI	B_150_WI
Software Systems	150 ECTS credits	IfI	B_150_SOSY
Informatics with Natural Sciences	120 ECTS credits	IfI	B_120_INW

Study program	Number of ECTS credits	Available for OEC degree programs	Available for INF degree programs	Department offering the program	Code
<b>Minor study programs at Bachelor's level</b>					
Economics	30 ECTS credits	✓	✓	IVW	B_30_VWL
Business Administration	30 ECTS credits	✓	✓	IBW	B_30_BWL
Banking and Finance	30 ECTS credits	✓	✓	IFF	B_30_BF
General Business and Economics	30 ECTS credits	✓		IVW, IBW, IFF	B_30_WW
Information Systems	30 ECTS credits		✓	IfI	B_30_WI
Information Systems for OEC	30 ECTS credits	✓		IfI	B_30_WI_O
Software Systems	30 ECTS credits		✓	IfI	B_30_SOSY
People-Oriented Computing	30 ECTS credits		✓	IfI	B_30_MCO
People-Oriented Computing for OEC	30 ECTS credits	✓		IfI	B_30_MCO_O
Informatics	30 ECTS credits	✓		IfI	B_30_INF

Students may also select a minor study program at another UZH faculty, provided such programs are on offer. All minor study programs offered by other faculties can be found in the online course catalogue of UZH.

## A1.2 Programs offered at Master's level

Students first decide on a degree program (Business and Economics or Informatics) and then on a major study program and a minor study program. The following major and minor study programs are offered to students enrolled in the Faculty of Business, Economics and Informatics:

Study program	Number of ECTS credits	Department offering the program	Code
<b>Business and Economics degree program (OEC): Major study programs</b>			
Economics	90 ECTS credits	IVW	M_90_ECON
Business Administration	90 ECTS credits	IBW	M_90_BWL
Banking and Finance	90 ECTS credits	IFF	M_90_BF
Management and Economics	90 ECTS credits	IBW	M_90_ME
<b>Informatics degree program (INF): Major study programs</b>			
Information Systems	90 ECTS credits	Ifi	M_90_IS
Software Systems	90 ECTS credits	Ifi	M_90_SOSY
People-Oriented Computing	90 ECTS credits	Ifi	M_90_POC
Artificial Intelligence	90 ECTS credits	Ifi	M_90_AI
Data Science	90 ECTS credits	Ifi	M_90_DS



Programs Offered to Students in the Faculty of Business, Economics and Informatics

Study program	Number of ECTS credits	Available for OEC degree programs	Available for INF degree programs	Department offering the program	Code
Minor study programs at Master's level					
Economics	30 ECTS credits	✓	✓	IVW	M_30_ECON
Behavioral Economics	30 ECTS credits	✓		IVW	M_30_BE
Development and Economic Policy	30 ECTS credits	✓		IVW	M_30_EP
Business Administration	30 ECTS credits	✓		IBW	M_30_BWL
Business Administration	30 ECTS credits		✓	IBW	M_30_BWL_INF
Accounting and Finance	30 ECTS credits	✓		IBW	M_30_AF
Managing Education	30 ECTS credits	✓		IBW	M_30_MEDU
Marketing	30 ECTS credits	✓		IBW	M_30_MAR
Sports Management	30 ECTS credits	✓		IBW	M_30_SP
Banking and Finance	30 ECTS credits	✓	✓	IFF	M_30_BF
Banking	30 ECTS credits	✓		IFF	M_30_B
Corporate Finance	30 ECTS credits	✓		IFF	M_30_CF
Financial Economics	30 ECTS credits	✓		IFF	M_30_FE
Quantitative Finance	30 ECTS credits	✓		IFF	M_30_QF
Sustainable Finance	30 ECTS credits	✓		IFF	M_30_SF
Information Systems	30 ECTS credits	✓	✓	IfI	M_30_IS_O
Informatics	30 ECTS credits	✓	✓	IfI	M_30_INF
Data Science	30 ECTS credits	✓	✓	IfI	M_30_DS

Students may also select a minor study program at another UZH faculty, provided such programs are on offer. All minor study programs offered by other faculties can be found in the online course catalogue of UZH.

## A2 Definition of Areas

### Compulsory

The compulsory area of a study program covers all the modules that students must complete necessarily (compulsory modules).

### Core elective

The core elective area groups several modules (core elective modules) into a wider subject area. In each case, the curriculum specifies the maximum number or minimum number of ECTS credits to be taken in a core elective area. Each semester, the online course catalogue of UZH publishes information on which modules may be credited in a core elective area.

Code	Area	Description
ECON 1	Macroeconomics	Macroeconomics discusses overall economic issues, such as the impact of fiscal and monetary policy, as well as fundamental econometric methods.
ECON 2	Microeconomics	Microeconomics explains the methods that economic theory uses to model optimum behavior on the part of individuals and companies, and provides an introduction to neuroeconomics.
ECON 3	Empirical Economic Research and Econometrics	Empirical Economic Research and Econometrics deals with the fundamental econometric methods used in the latest empirical economic research, and its specific areas of concentration (such as time series analysis, microeconometrics, and experimental economic research).
BWL 1	Accounting, Auditing and Governance	BWL 1 explores external and internal accounting methods as instruments for supporting decision-making and guiding behavior, and looks at external and internal audit as well as corporate governance.
BWL 2	Corporate Finance and Banking	BWL 2 focuses on corporate finance and investment, as well as business administration within banks.
BWL 3	Organization and Human Resources	BWL 3 looks at the ways in which human resources management as well as organizational structures and processes contribute to a company's success.
BWL 4	Marketing	BWL 4 deals with market-focused business management; in other words, the process of aligning all business activities with the needs of markets and society.
BWL 5	Business Policy and Governance	BWL 5 looks at subjects such as corporate strategy, international management, entrepreneurship, technology and innovation management, corporate governance, and corporate social responsibility in globalized markets.
BWL 6	Management Science	BWL 6 analyzes and offers solutions to management problems by applying analytical methods drawn from mathematics, statistics, and other specialist disciplines.
BF 1	Banking and Finance	Banking and Finance considers the financial decisions that companies have to make, the role of banks, quantitative aspects of using financial instruments, and how financial markets work.
BF 2	Banking	Banking deals with the structures of credit institutions, how they work, their role on financial markets, and how they are linked to the economy as a whole.
BF 3	Corporate Finance	Corporate Finance examines the central issues bound up with short-term and long-term financing of companies.
BF 4	Financial Economics	Financial Economics deals with resource allocation and pricing on capital and financial markets.

## Definition of Areas

Code	Area	Description
BF 5	Quantitative Finance	Quantitative Finance uses applied mathematics methods to analyze financial market-related subjects such as asset pricing, risk management and derivatives.
INF IS	Information Systems	Information Systems combines informatics with business and economics, focusing on the ways in which information systems are designed and used within organizations.
INF SOSY	Software Systems	Software Systems chiefly examines the ways in which large, software-based systems are developed and maintained from both a systematic and economic perspective.
INF POC	People-Oriented Computing	People-Oriented Computing takes an in-depth look at how information technology is designed for use by individuals, groups, and society, as well as the interaction between people and computers.
INF AI	Artificial Intelligence	Artificial Intelligence aims to build artificial systems that solve at least one of the tasks commonly associated with human intelligence: Planning, learning, reasoning, problem solving, knowledge representation, perception, motion, manipulation, social intelligence, and creativity.
INF DS	Data Science	Data Science deals with the extraction of knowledge from data. It combines techniques and theories from a range of fields including statistics, informatics, and information theory in order to obtain knowledge from large quantities of data.

**Minor area**

Minor areas are also core elective areas. They are specified as belonging to particular minor study programs. Each semester, the online course catalogue of UZH indicates which modules they cover. The following minor areas are available:

- BE: Behavioral Economics
- BMC: Behavioral Methods and Computing
- EP: Economic Policy
- INF: Informatics
- MEDU: Managing Education
- SF: Sustainable Finance
- SPM: Sports Management

**Elective**

In an elective area, students have relative freedom to select the modules they wish to take (elective modules), and have them credited. Elective areas are defined with the following restrictions:

Definition of Areas

- Free elective area: all modules offered by the Faculty and all modules that can be credited according to Clause 5.4 SO,
- WWF elective area: all modules offered by the WWF Faculty (the WWF elective area comprises all modules from the OEC and INF elective areas).
- OEC elective area: all modules in the academic fields of IVW, IBW and IFF. The modules are either marked as such in the online course catalogue of UZH or have been allocated upon prior evaluation (particularly transfer of credits from mobility semesters).
- INF elective area: all modules in the academic fields of IfI. The modules are either marked as such in the online course catalogue of UZH or have been allocated upon prior evaluation (particularly transfer of credits from mobility semesters).

## A3 Module Categories

Below is a list of the most common categories of modules that are available for booking. These modules are usually graded. If it is unclear which category a module belongs to, the decision is made by the program director.

Module category	Description	Notes
<b>Lecture</b>	The purpose of lectures is to communicate course content. They are given either in person by instructors or using up-to-date communication methods. Lectures may communicate both basic principles and recent findings in research.	–
<b>Exercise</b>	Exercises deepen students' understanding of the subject of a lecture by working through tasks and examples.	–
<b>Lecture with exercises</b>	A lecture with exercises includes both a lecture component, which communicates knowledge, and an exercise component, in which students deepen their understanding of this knowledge by working through tasks and examples.	The exercises may be held separately or integrated into the lectures themselves.
<b>Practical training</b>	Guided by instructors, students undergoing practical training acquire hands-on experience of putting into practice the content and methods they have learned in their studies.	Practical training is conducted and supervised at the Faculty.
<b>Seminar</b>	This refers to a course that involves a high level of interaction between students and instructors. Seminars are designed to deepen the knowledge that students have acquired. They provide students with the opportunity to work independently on a given subject and give a presentation on it.	Seminars may be offered on any subject. They usually have a restricted number of participants. Students may need to submit a separate application well ahead of time. As a rule, attendance is mandatory for all participants.
<b>Examination without course</b>	Module that provides a separate examination for students who are repeating the assessment for a failed module or a module that is no longer being offered during the next semester.	–

There are also modules that cannot be booked using the module booking tool. In these cases, the booking process is carried out through the Dean's Office or a department as standard, and is published in an appropriate format. Decisions concerning which module categories can be credited are made on a case-by-case basis for each study program. If it is unclear which category a module belongs to, the decision is made by the program director.

## Module Categories

<b>Module category</b>	<b>Description</b>	<b>Notes</b>
<b>Tutorial</b>	Tutors provide instructors with support for exercises or practical training. They usually supervise a group of students.	Students are required to apply. There is no entitlement to admission. Tutorials are normally aimed at Bachelor's students and are not graded.
<b>Teaching assistantship</b>	Teaching assistants provide instructors with support during demanding tasks, such as providing and correcting exercises or instructing tutors.	Students are required to apply. There is no entitlement to admission. Teaching assistantships are normally aimed at Master's students and are not graded.
<b>Project</b>	In this case, students learn how to carry out a project using scientific methods.	Projects are assigned by a Faculty member associated with the study program in question. Projects usually involve group work.
<b>External practical training</b>	External practical training gives students an insight into applying their field of study in a professional context, and provides them with their first vocational experience. The only practical training that counts towards the degree is the compulsory module "Informatics practical training", which is part of the major study programs in the Bachelor of Science UZH in Informatics degree program.	The practical training is usually completed at a company or another organization outside of UZH. It must take the form of a project and have sufficient relevance to the selected study program. It is evaluated by a Faculty member, but is not graded.
<b>Individual learning unit</b>	In an individual learning unit, a student works independently on a subject area defined individually for them and takes an examination on it.	Individual learning units are available for 3, 6, and 9 ECTS credits. They are agreed directly with the Faculty member giving the examination. There is no right to the completion of an individual learning unit.

## A4 Curriculum for the Bachelor's Degree Program in Business and Economics (OEC)

The curriculum in this appendix is the standard curriculum for the Bachelor's degree program in Business and Economics (OEC) as set out in § 7 Para. 1 RVO. It envisages full-time students earning 30 ECTS credits per semester (§ 7 Para. 2 RVO). It is incumbent on students themselves to select the modules that will allow them to earn 30 ECTS credits per semester.

### A4.1 Conditions and notes

- In addition to the major study program, a minor study program comprising 30 ECTS credits is completed. Students may select minor study programs from the Faculty (see A4.5 and A4.6) or from other faculties (see online course catalogue of UZH).
- If compulsory modules in the major and minor study programs overlap, the relevant ECTS credits in the minor study program must be substituted with ECTS credits from core elective areas with similar content. These are usually core elective areas in the minor study program.
- At least 3 ECTS credits must be earned from a seminar in the core elective or OEC elective area. The seminar must be credited in a core elective or in the OEC elective area as per the online course catalogue of UZH. The seminar can be completed as part of the major or the minor study program of the Faculty of Business, Economics and Informatics.
- A maximum of 6 ECTS credits may be earned from holding tutorials. These credits can be credited towards the same core elective area as the module within which the tutorial was held. It is always possible to credit a tutorial towards an elective area. The same tutorial may be credited towards a degree only once.

## A4.2 Major study programs in the OEC Bachelor's degree program

	<b>Economics</b> B_150_VWL	<b>Business Administration</b> B_150_BWL	<b>Banking and Finance</b> B_150_BF
<b>Assessment level</b> (Curriculum: A4.3)	<b>60 ECTS credits</b>		
<b>Common compulsory program</b> (Curriculum: A4.4)	<b>27 ECTS credits</b>		
<b>Compulsory</b>  Compulsory modules	-	-	<b>24 ECTS credits</b>  Asset Pricing 6 ECTS Banking 6 ECTS Corporate Finance 6 ECTS Financial Economics 6 ECTS
<b>Core elective</b> (definition: A2)  Conditions	<b>36 ECTS credits from the ECON 1 and ECON 2 areas</b>  At least 12 ECTS credits per area	<b>36 ECTS credits from the BWL 1 - BWL 6 areas</b>  At least 3 ECTS credits per area	<b>12 ECTS credits from the BF 1 area</b>  -
<b>Elective</b> (definition: A2)	<b>9 ECTS credits from the free elective area</b>		
<b>Bachelor's thesis</b>	<b>18 ECTS credits</b>		



### A4.3 Assessment level in the OEC Bachelor's degree program (60 ECTS credits)

	Modules in fall semester	ECTS credits	Modules in spring semester	ECTS credits
<b>Economics</b>	Microeconomics I	9	Macroeconomics I	9
<b>Business Administration</b>	Business Administration I	3	Business Administration II	6
	Financial Accounting	6		
<b>Finance</b>	Banking and Finance I	3	Banking and Finance II	3
<b>Informatics</b>	Informatics and Economics	3		
<b>Mathematics and Statistics</b>	Mathematics I	6	Mathematics II	6
			Statistics	6
<b>Total</b>		<b>30 ECTS credits</b>		<b>30 ECTS credits</b>

### A4.4 Common compulsory program at advanced level in the OEC Bachelor's degree program (27 ECTS credits)

	Modules in fall semester	ECTS credits	Modules in spring semester	ECTS credits
<b>Economics</b>	Microeconomics II	3	Macroeconomics II	3
<b>Business Administration</b>	Business Administration III	6	Managerial Accounting	3
			Financial Reporting	3
<b>Statistics</b>	Introductory Econometrics	6		
<b>Working Methodology</b>	Introduction to Scientific Methods	3		
<b>Total</b>		<b>18 ECTS credits</b>		<b>9 ECTS credits</b>

## A4.5 Business and Economics minor study programs

	<b>Economics</b> B_30_VWL	<b>Business Administration</b> B_30_BWL	<b>Banking and Finance</b> B_30_BF	<b>General Business and Economics</b> B_30_WW
<b>Core elective</b> (definition: A2)	<b>30 ECTS credits from the ECON 1 and ECON 2 areas</b>	<b>30 ECTS credits from the BWL 1 - BWL 6 areas</b>	<b>30 ECTS credits from the BF 1 area</b>	<b>Free selection from all Business and Economics modules (OEC elective area)</b>
Conditions	At least 9 ECTS credits per area	At least 3 ECTS credits per area	-	

## A4.6 Informatics minor study programs

	<b>Information Systems for OEC</b> B_30_WI_O	<b>People-Oriented Computing for OEC</b> B_30_MCO_O	<b>Informatics</b> B_30_INF
<b>Compulsory</b>	<b>21 ECTS credits</b>	<b>21 ECTS credits</b>	<b>24 ECTS credits</b>
Compulsory modules	Database Systems 6 ECTS Informatics I 6 ECTS Business Informatics I 3 ECTS Business Informatics II 6 ECTS	Data Visualization Concepts 3 ECTS Human-Computer Interaction 6 ECTS Informatics I 6 ECTS People-Oriented Computing 6 ECTS	Database Systems 6 ECTS Foundations of Computing I 6 ECTS Informatics I 6 ECTS Informatics II 6 ECTS
<b>Elective</b> (definition: A2)	<b>9 ECTS credits from the INF elective area</b>	<b>9 ECTS credits from the INF elective area</b>	<b>6 ECTS credits from the INF elective area</b>

## A5 Curriculum for the Master's Degree Program in Business and Economics (OEC)

The curriculum in this appendix is the standard curriculum for the Master's degree program in Business and Economics (OEC) as set out in § 7 Para. 1 RVO. It envisages full-time students earning 30 ECTS credits per semester (§ 7 Para. 2 RVO). It is incumbent on students themselves to select the modules that will allow them to earn 30 ECTS credits per semester.

### A5.1 Conditions and notes

- In addition to the major study program, a minor study program comprising 30 ECTS credits is completed. Students may select minor study programs from the Faculty (see A5.3 to A5.6) or from other faculties (online course catalogue of UZH)
- If compulsory modules in the major and minor study programs overlap, ECTS credits in the minor study program must be substituted with ECTS credits from core elective areas with similar content. These are usually core elective areas in the minor study program.
- At least 9 ECTS credits must be earned from seminars in the core elective or OEC elective area. The seminars must be credited in a core elective or in the OEC elective area as per the online course catalogue of UZH. Seminars can be completed as part of the major or the minor study program of the Faculty of Business, Economics and Informatics.
- In the major study program Management and Economics, 12 ECTS credits must be earned from seminars in the core elective area of the major study program Management and Economics (BWL 1 – BWL 6 and ECON 1 – ECON 3).
- A maximum of 9 ECTS credits can be earned from teaching assistantships. These credits can be credited towards the same core elective area as the module within which the assistantship was completed. It is always possible to credit an assistantship towards an elective area. The same assistantship can be credited towards a degree only once.

## A5.2 Major study programs in the OEC Master's degree program

	<b>Economics</b> M_90_ECON	<b>Business Administration</b> M_90_BWL	<b>Banking and Finance</b> M_90_BF	<b>Management and Economics</b> M_90_ME
<b>Compulsory</b>	<b>30 ECTS credits</b>	<b>12 ECTS credits</b>	<b>30 ECTS credits</b>	<b>36 ECTS credits</b>
Compulsory modules	Advanced Macroeconomics 6 ECTS Advanced Microeconomics I 6 ECTS Advanced Microeconomics II 6 ECTS Empirical Methods 6 ECTS International Macroeconomics 6 ECTS	Applied Empirical Methods for Business Administration 6 ECTS Advanced Microeconomics for Business Administration 6 ECTS	Advanced Banking 6 ECTS Advanced Corporate Finance I 6 ECTS Advanced Financial Economics 6 ECTS Empirical Methods 6 ECTS Quantitative Finance 6 ECTS	Corporate Finance 3 ECTS Advanced Microeconomics I 6 ECTS Empirical Methods 6 ECTS ME 1 Personnel Economics 6 ECTS ME 2 The Economics of Innovation 6 ECTS ME 3 Organizational Economics 6 ECTS ME 4 Accounting & Economics 3 ECTS
<b>Core elective</b> (definition: A2)	<b>24 ECTS credits from the ECON 1 - ECON 3 areas</b>	<b>48 ECTS credits from the BWL 1 - BWL 6 areas</b>	<b>18 ECTS credits from the BF 2 - BF 5 areas</b>	<b>24 ECTS credits from the BWL 1 - BWL 6 and ECON 1 - ECON 3 areas</b>
Conditions	-	-	-	At least 6 ECTS credits from the Business Administration area (BWL 1 - BWL 6) and at least 6 ECTS credits from the Economics area (ECON 1 - ECON 3)
<b>Elective</b> (definition: A2)	<b>6 ECTS credits from the free elective area</b>	-	<b>12 ECTS credits from the free elective area</b>	-
<b>Master's thesis</b>	<b>30 ECTS credits</b>			

### A5.3 Minor study programs offered by the Department of Economics (IVW)

	<b>Economics</b> M_30_ECON	<b>Behavioral Economics</b> M_30_BE	<b>Development and Economic Policy</b> M_30_EP
<b>Minor area</b> (definition: A2)	-	<b>18 ECTS credits from BE</b>	<b>18 ECTS credits from EP</b>
<b>Core elective</b> (definition: A2)	<b>30 ECTS credits from the ECON 1 – ECON 3 areas</b>	<b>12 ECTS credits from the ECON 1 – ECON 3 areas and the BE minor area</b>	<b>12 ECTS credits from the ECON 1 – ECON 3 areas and the EP minor area</b>

### A5.4 Minor study programs offered by the Department of Business Administration (IBW)

	<b>Business Administration</b> M_30_BWL	<b>Accounting and Finance</b> M_30_AF	<b>Managing Education</b> M_30_MEDU	<b>Sports Management</b> M_30_SP	<b>Marketing</b> M_30_MAR
<b>Minor area</b> (definition: A2)	-	-	<b>18 ECTS credits from MEDU</b>	<b>18 ECTS credits from SPM</b>	
<b>Core elective</b> (definition: A2)	<b>30 ECTS credits from the BWL 1 – BWL 6 areas</b>	<b>30 ECTS credits from the BWL 1 and BWL 2 areas</b>	<b>12 ECTS credits from the BWL 4 – BWL 6 areas and the MEDU minor area</b>	<b>12 ECTS credits from the BWL 1 – BWL 6 areas and ECON 1 – ECON 3 areas</b>	<b>18 ECTS credits from the BWL 4 area  and 12 ECTS credits from the BWL 4 – BWL 6 areas and the BMC minor area</b>
<b>Conditions</b>	-	At least 12 ECTS credits per area	A maximum of 6 ECTS credits may be earned from modules that are offered by another UZH faculty and that can be credited in the MEDU area.		

### A5.5 Minor study programs offered by the Department of Finance (IFF)

	<b>Banking and Finance</b> M_30_BF	<b>Banking</b> M_30_B	<b>Corporate Finance</b> M_30_CF	<b>Financial Economics</b> M_30_FE	<b>Quantitative Finance</b> M_30_QF	<b>Sustainable Finance</b> M_30_SF
<b>Compulsory</b>	<b>6 ECTS credits</b>	<b>12 ECTS credits</b>	<b>12 ECTS credits</b>	<b>12 ECTS credits</b>	<b>12 ECTS credits</b>	<b>9 ECTS credits</b>
Compulsory modules	Empirical Methods 6 ECTS	Advanced Banking 6 ECTS Empirical Methods 6 ECTS	Advanced Corporate Finance I 6 ECTS Empirical Methods 6 ECTS	Advanced Financial Economics 6 ECTS Empirical Methods 6 ECTS	Quantitative Finance 6 ECTS Empirical Methods 6 ECTS	Environmental and Financial Sustainability 3 ECTS Empirical Methods 6 ECTS
<b>Core elective</b> (definition: A2)	<b>24 ECTS credits from the BF 2 – BF 5 areas</b>	<b>18 ECTS credits from the BF 2 area</b>	<b>18 ECTS credits from the BF 3 area</b>	<b>18 ECTS credits from the BF 4 area</b>	<b>18 ECTS credits from the BF 5 area</b>	<b>21 ECTS credits from the SF minor area</b>
<b>Substitution rules</b>	If the compulsory modules are also compulsory modules in the major study program, the relevant ECTS credits in the minor study program must be substituted with ECTS credits from the BF 2 – BF 5 areas.					

### A5.6 Minor study programs offered by the Department of Informatics (IfI)

	<b>Information Systems</b> M_30_IS	<b>Informatics</b> M_30_INF	<b>Data Science</b> M_30_DS
<b>Compulsory</b>	<b>6 ECTS credits</b>	-	<b>6 ECTS credits</b>
Compulsory modules	Information Management 6 ECTS		Foundations of Data Science 6 ECTS
<b>Minor area</b> (definition: A2)	-	<b>12 ECTS from the INF minor area</b>	-
<b>Core elective</b> (definition: A2)	<b>18 ECTS credits from the INF IS area</b>	-	<b>18 ECTS from the INF DS area</b>
<b>Elective</b>	<b>6 ECTS credits from the INF elective area</b>	<b>18 ECTS credits from the INF elective area</b>	<b>6 ECTS credits from the INF elective area</b>

## A6 Curriculum for the Bachelor's Degree Program in Informatics (INF)

The curriculum in this appendix is the standard curriculum for the Bachelor's degree program in Informatics (INF) as set out in § 7 Para. 1 RVO. It envisages full-time students earning 30 ECTS credits per semester (§ 7 Para. 2 RVO). It is incumbent on students themselves to select the modules that will allow them to earn 30 ECTS credits per semester.

### A6.1 Conditions and notes

- In addition to the major study program, a minor study program comprising 30 ECTS credits is completed. Students may select minor study programs from the Faculty (see A5.3 to A5.6) or from other faculties (online course catalogue of UZH).
- Students taking Informatics with Natural Sciences as a major study program must take a minor study program comprising 60 ECTS credits at the UZH Faculty of Science (online course catalogue of UZH).
- If compulsory modules in the major and minor study programs overlap, the relevant ECTS credits in the minor study program must be substituted with ECTS credits from core elective areas with similar content. These are usually core elective areas in the minor study program.
- A minimum of 3 ECTS credits and a maximum of 12 ECTS credits must be earned from seminars. At least 3 ECTS credits must be earned from a seminar offered by the Department of Informatics. The seminar can be completed as part of the major or the minor study program of the Faculty of Business, Economics and Informatics.
- A maximum of 6 ECTS credits may be earned from holding tutorials. They can be credited towards the same core elective area as the module within which the tutorial was held. It is always possible to credit a tutorial towards an elective area. The same tutorial may be credited towards a degree only once.
- The Bachelor's thesis must be supervised by a Faculty member at the Department of Informatics and must be completed in a subject relating to the major study program. Work on the Bachelor's thesis may not commence before the Informatics practical training has been completed. Details of the procedure are published as appropriate (particularly by means of fact sheets from the Department of Informatics) and are binding.
- The requirements for the Informatics practical training are set out in the fact sheets from the Department of Informatics.

## A6.2 Major study programs in the INF Bachelor's degree program

	Information Systems B_150_WI	Software Systems B_150_SOSY	Informatics with Natural Sciences B_120_INW
<b>Assessment level</b> (curriculum: A6.3)	<b>60 ECTS credits</b>		<b>60 ECTS credits</b>
<b>Common compulsory program</b> (curriculum: A6.4)	<b>27 ECTS credits</b>		<b>27 ECTS credits</b>
<b>Compulsory</b>	<b>30 ECTS credits</b>	<b>30 ECTS credits</b>	-
Compulsory modules	Banking and Finance I                      3 ECTS Business Administration III                      6 ECTS Financial Accounting                      6 ECTS Human-Computer Interaction                      6 ECTS Business Informatics I                      3 ECTS Business Informatics II                      6 ECTS	Computer Networks and Distributed Systems                      6 ECTS Foundations of Computing II                      6 ECTS Introduction to Artificial Intelligence                      6 ECTS Introduction to Operations Research                      6 ECTS Numerical Methods in Informatics                      6 ECTS	
<b>Free elective area</b> (see A2)	<b>15 ECTS credits</b>	<b>15 ECTS credits</b>	<b>15 ECTS credits</b>
<b>Bachelor's thesis</b> (see A2)	<b>18 ECTS credits</b>		<b>18 ECTS credits</b>

The following combinations of major and minor study programs are not permitted:

- Major study program Information Systems with minor study program Information Systems
- Major study program Software Systems with minor study program Software Systems



### A6.3 Assessment level in the INF Bachelor's degree program (60 ECTS credits)

	Modules in fall semester	ECTS credits	Modules in spring semester	ECTS credits
<b>Informatics</b>	Informatics I	6	Informatics II	6
	Informatics and Economics	3	Foundations of Computing I	6
	People-Oriented Computing	6		
<b>Business Administration</b>	Business Administration I	3	Business Administration II	6
<b>Economics</b>	Microeconomics for Informatics Students	6		
<b>Mathematics and Statistics</b>	Mathematics I	6	Mathematics II	6
			Statistics	6
<b>Total</b>		<b>30 ECTS credits</b>		<b>30 ECTS credits</b>

### A6.4 Common compulsory program at advanced level in the INF Bachelor's degree program (27 ECTS credits)

	Modules in fall semester	ECTS credits	Modules in spring semester	ECTS credits
<b>Informatics</b>	Software Construction	6	Software Engineering	3
			Software Engineering Lab	6
			Database Systems	6
	Informatics practical training, 3 ECTS credits			
<b>Working Methodology</b>	Introduction to Scientific Methods	3		

## A6.5 Informatics minor study programs

	<b>Information Systems</b> B_30_WI	<b>People-Oriented Computing</b> B_30_MCO	<b>Software Systems</b> B_30_SOSY
<b>Compulsory</b>	<b>15 ECTS credits</b>	<b>21 ECTS credits</b>	<b>18 ECTS credits</b>
Compulsory modules	Financial Accounting 6 ECTS Business Informatics I 3 ECTS Business Informatics II 6 ECTS	CSCW 6 ECTS Data Visualization Concepts 3 ECTS Human-Computer Interaction 6 ECTS Social Computing 6 ECTS	Computer Networks and Distributed Systems 6 ECTS Foundations of Computing II 6 ECTS Numerical Methods in Informatics 6 ECTS
<b>Core elective</b> (definition: A2)	<b>15 ECTS credits from the INF IS area</b>	<b>9 ECTS credits from the INF POC area</b>	<b>12 ECTS credits from the INF SOSY area</b>
<b>Substitution rules</b>	If the compulsory modules are also compulsory modules in the major study program, the relevant ECTS credits in the minor study program must be substituted with ECTS credits from the core elective area of the minor study program.		

## A6.6 Business and Economics minor study programs

	<b>Economics</b> B_30_VWL	<b>Business Administration</b> B_30_BWL	<b>Banking and Finance</b> B_30_BF
<b>Core elective</b> (definition: A2)	<b>30 ECTS credits from the ECON 1 and ECON 2 areas</b>	<b>30 ECTS credits from the BWL 1 - BWL 6 areas</b>	<b>30 ECTS credits from the BF 1 area</b>
Conditions	At least 9 ECTS credits per area	At least 3 ECTS credits per area	-

## A7 Curriculum for the Master's Degree Program in Informatics (INF)

The curriculum in this appendix is the standard curriculum for the Master's degree program in Informatics (INF) as set out in § 7 Para. 1 RVO. It envisages full-time students earning 30 ECTS credits per semester (§ 7 Para. 2 RVO). It is incumbent on students themselves to select the modules that will allow them to earn 30 ECTS credits per semester.

### A7.1 Conditions and notes

- In addition to the major study program, a minor study program comprising 30 ECTS credits is completed. Students may select minor study programs from the Faculty (see A5.3 to A5.6) or from other faculties (online course catalogue of UZH).
- If compulsory modules in the major and minor study programs overlap, the relevant ECTS credits in the minor study program must be substituted with ECTS credits from core elective areas with similar content. These are usually core elective areas in the minor study program.
- A minimum of 3 ECTS credits and a maximum of 12 ECTS credits must be earned from seminars. At least 3 ECTS credits must be earned from a seminar offered by the Department of Informatics. The seminar can be completed as part of the major or the minor study program of the Faculty of Business, Economics and Informatics.
- A maximum of 12 ECTS credits may be earned from teaching assistantships. They can be credited towards the same core elective area as the module within which the assistantship was completed. It is always possible to credit an assistantship towards an elective area. The same assistantship may be credited towards a degree only once.
- The Master's project is a compulsory module. Work on the Master's thesis may not commence before the Master's project has been completed. Details of the procedure are published as appropriate (particularly by means of fact sheets from the Department of Informatics) and are binding.
- The Master's thesis must be supervised by a Faculty member at the Department of Informatics and must be completed in a subject relating to the major study program. Details of the procedure are published as appropriate (particularly by means of fact sheets from the Department of Informatics) and are binding.

## A7.2 Major study programs in the INF Master's degree program

	<b>Information Systems</b> M_90_IS	<b>Software Systems</b> M_90_SOSY	<b>People-Oriented Computing</b> M_90_POC	<b>Artificial Intelligence</b> M_90_AI	<b>Data Science</b> M_90_DS
<b>Compulsory</b>	<b>6 ECTS credits</b>	<b>6 ECTS credits</b>	<b>6 ECTS credits</b>	<b>6 ECTS credits</b>	<b>6 ECTS credits</b>
Compulsory modules	Information Management	Fundamentals of Software Systems	Fundamentals of People-Oriented Computing	Advanced Topics in Artificial Intelligence	Foundations of Data Science
<b>Master's project</b> (information on booking: A3)	<b>15 ECTS credits</b>				
<b>Core elective area</b> (definition: A2)	<b>18 ECTS credits from the INF IS area</b>	<b>18 ECTS credits from the INF SOSY area</b>	<b>18 ECTS credits from the INF POC area</b>	<b>18 ECTS credits from the INF AI area</b>	<b>18 ECTS credits from the INF DS area</b>
<b>INF elective area</b> (definition: A2)	<b>15 ECTS credits</b>				
<b>WWF elective area</b> (definition: A2)	<b>6 ECTS credits</b>				
<b>Master's thesis</b>	<b>30 ECTS credits</b>				

The following combinations of major and minor study programs are not permitted:

- Major study program Data Science with minor study program Data Science
- Major study program Information Systems with minor study program Information Systems

### A7.3 Minor study programs in the INF Master's degree program

	<b>Informatics</b> M_30_INF	<b>Data Science</b> M_30_DS	<b>Information Systems</b> M_30_IS	<b>Economics</b> M_30_ECON	<b>Business Administration</b> M_30_BWL_INF	<b>Banking and Finance</b> M_30_BF
<b>Compulsory</b>	–	<b>6 ECTS credits</b>	<b>6 ECTS credits</b>	–	<b>6 ECTS credits</b>	<b>6 ECTS credits</b>
Compulsory modules		Foundations of Data Science 6 ECTS	Information Management 6 ECTS		Applied Empirical Methods for Business Administration 6 ECTS	Empirical Methods 6 ECTS
<b>Minor area</b>	<b>12 ECTS credits from the INF minor area</b>					
<b>Core elective</b> (definition: A2)	–	<b>18 ECTS credits from the INF DS area</b>	<b>18 ECTS credits from the INF IS area</b>	<b>30 ECTS credits from the ECON 1 – ECON 3 areas</b>	<b>24 ECTS credits from the BWL 1 – BWL 6 areas</b>	<b>24 ECTS credits from the BF 2 – BF 5 areas</b>
<b>INF elective area</b> (definition: A2)	<b>18 ECTS credits</b>	<b>6 ECTS credits</b>	<b>6 ECTS credits</b>	–	–	–

The following combinations of major and minor study programs are not permitted:

- Major study program Data Science with minor study program in Data Science
- Major study program Information Systems with minor study program Information Systems

## A8 Minor Programs Offered to Major Students from Other Faculties

Study program	Number of ECTS credits	Department offering the program	Code
<b>Bachelor's level: First minor study programs</b>			
Economics	60 ECTS credits	IVW	B_60_VWL_E
Business Administration	60 ECTS credits	IBW	B_60_BWL_E
Banking and Finance	60 ECTS credits	IFF	B_60_BF_E
Informatics	60 ECTS credits	IfI	B_60_INF_E
People-Oriented Computing	60 ECTS credits	IfI	B_60_MCO_E
<b>Bachelor's level: Second minor study programs</b>			
Economics	30 ECTS credits	IVW	B_30_VWL_E
Business Administration	30 ECTS credits	IBW	B_30_BWL_E
Banking and Finance	30 ECTS credits	IFF	B_30_BF_E
Informatics	30 ECTS credits	IfI	B_30_INF_E
People-Oriented Computing	30 ECTS credits	IfI	B_30_MCO_E
<b>Master's level</b>			
Economics	30 ECTS credits	IVW	M_30_ECON_E
Business Administration	30 ECTS credits	IBW	M_30_BWL_E
Banking and Finance	30 ECTS credits	IFF	M_30_BF_E
Informatics	30 ECTS credits	IfI	M_30_INF_E
Data Science	30 ECTS credits	IfI	M_30_DS_E

The regulations on content relating specifically to minor study programs for major students from other faculties can be found in Clause 7 SO.

### A8.1 Bachelor's level: First minor study programs

	<b>Economics</b> B_60_VWL_E	<b>Business Administration</b> B_60_BWL_E	<b>Banking and Finance</b> B_60_BF_E	<b>Informatics</b> B_60_INF_E	<b>People-Oriented Computing</b> B_60_MCO_E
<b>Compulsory</b>	<b>24 ECTS credits</b>	<b>33 ECTS credits</b>	<b>24 ECTS credits</b>	<b>45 ECTS credits</b>	<b>42 ECTS credits</b>
Compulsory modules	Mathematics I      6 ECTS Microeconomics I      9 ECTS Macroeconomics I      9 ECTS	Business Administration I      3 ECTS Business Administration II      6 ECTS Business Administration III      6 ECTS Financial Accounting      6 ECTS Financial Reporting      3 ECTS Microeconomics I      9 ECTS	Banking and Finance I      3 ECTS Banking and Finance II      3 ECTS Corporate Finance      6 ECTS Financial Accounting      6 ECTS Statistics      6 ECTS	Database Systems      6 ECTS Foundations of Computing I      6 ECTS People-Oriented Computing      6 ECTS Informatics I      6 ECTS Informatics II      6 ECTS Software Construction      6 ECTS Software Engineering      3 ECTS Software Engineering Lab      6 ECTS	CSCW      6 ECTS Data Visualization Concepts      3 ECTS Database Systems      6 ECTS Human-Computer Interaction      6 ECTS Informatics I      6 ECTS People-Oriented Computing      6 ECTS Social Computing      6 ECTS Software Engineering      3 ECTS
<b>Core elective</b> (see A2)	<b>36 ECTS credits from the ECON 1 and ECON 2 areas</b>	<b>27 ECTS credits from the BWL 1 – BWL 6 areas</b>	<b>36 ECTS credits from the BF 1 area</b>	-	
<b>Elective</b> (see A2)	-	-	-	<b>15 ECTS credits from the INF elective area</b>	<b>18 ECTS credits from the INF elective area</b>

## A8.2 Bachelor's level: Second minor study programs

	<b>Economics</b> B_30_VWL_E	<b>Business Administration</b> B_30_BWL_E	<b>Banking and Finance</b> B_30_BF_E	<b>Informatics</b> B_30_INF_E	<b>People-Oriented Computing</b> B_30_MCO_E
<b>Compulsory</b>	<b>18 ECTS credits</b>	<b>21 ECTS credits</b>	<b>18 ECTS credits</b>	<b>24 ECTS credits</b>	<b>21 ECTS credits</b>
Compulsory modules	Microeconomics I 9 ECTS Macroeconomics I 9 ECTS	Business Administration I 3 ECTS Business Administration II 6 ECTS Financial Reporting 3 ECTS Microeconomics I 9 ECTS	Banking and Finance I 3 ECTS Banking and Finance II 3 ECTS Financial Accounting 6 ECTS Statistics 6 ECTS	Foundations of Computing I 6 ECTS Informatics I 6 ECTS Informatics II 6 ECTS Database Systems 6 ECTS	Data Visualization Concepts 3 ECTS Informatics I 6 ECTS Human-Computer Interaction 6 ECTS People-Oriented Computing 6 ECTS
<b>Core elective</b> (definition: A2)	<b>12 ECTS credits from the ECON 1 and ECON 2 areas</b>	<b>9 ECTS credits from the BWL 1 – BWL 6 areas</b>	<b>12 ECTS credits from the BF 1 area</b>	-	-
<b>Elective</b> (definition: A2)	-	-	-	<b>6 ECTS credits from the INF elective area</b>	<b>9 ECTS credits from the INF elective area</b>



### A8.3 Master's level: Minor study programs

	<b>Economics</b> M_30_ECON_E	<b>Business Administration</b> M_30_BWL_E	<b>Banking and Finance</b> M_30_BF_E	<b>Informatics</b> M_30_INF_E	<b>Data Science</b> M_30_DS_E
<b>Compulsory</b>	-	<b>6 ECTS credits</b>	<b>6 ECTS credits</b>	-	<b>6 ECTS credits</b>
Compulsory modules		Applied Empirical Methods for Business Administration 6 ECTS	Empirical Methods 6 ECTS		Foundations of Data Science 6 ECTS
<b>Minor area</b>	-	-	-	<b>12 ECTS credits from the INF minor area</b>	-
<b>Core elective</b> (definition: A2)	<b>30 ECTS credits from the ECON 1 – ECON 3 areas</b>	<b>24 ECTS credits from the BWL 1 – BWL 6 areas</b>	<b>24 ECTS credits from the BF 2 – BF 5 areas</b>	-	<b>18 ECTS from the INF DS area</b>
<b>Elective</b> (definition: A2)	-	-	-	<b>18 ECTS credits from the INF elective area</b>	<b>6 ECTS credits from the INF elective area</b>