



## Course and Examination Fact Sheet: Autumn Semester 2024

### 3,307: Quantitative Methods

ECTS credits: 4

#### Overview examination/s

(binding regulations see below)

central - Written examination, Analog, Individual work individual grade (70%, 90 mins.)

Examination time: Lecture-free period

decentral - Quiz, Digital, Individual work individual grade (30%)

Examination time: Term time

#### Attached courses

Timetable -- Language -- Lecturer

[3,307,1.00 Quantitative Methods](#) -- English -- [Lopes da Fonseca Mariana](#)

[3,307,2.00 Quantitative Methods: Exercises](#) -- English -- [Geisler Alexander](#)

#### Course information

##### Course prerequisites

None.

##### Learning objectives

At the end of this course, students will have acquired solid training in the basics of descriptive and inferential statistical research methods. This includes knowledge of the elementary mathematical techniques and probability theory related to the foundations of statistical methods. Furthermore, students will also be familiar with basic techniques of preparing, managing, visualizing, and analyzing statistical data using a computer software.

##### Course content

This course provides a systematic introduction to the techniques and instruments of basic quantitative methods in the social sciences. The course is divided into three main parts. The first part deals with questions related to quantitative research design, measurement, and descriptive statistics. Part two covers basic topics of univariate statistics, such as point estimation, interval estimation, and hypothesis testing. The final part is concerned with the skills needed to understand critically discuss social science research that uses statistical methods.

##### Course structure and indications of the learning and teaching design

Weekly: 12 lectures, 6 exercise sessions.

##### Course literature

Required readings: Agresti, Alan and Finlay, Barbara. 2017. Statistical Methods for Social Sciences, 5th Edition.

Additional literature and materials: tba.

##### Additional course information

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##### Examination information



## Examination sub part/s

### 1. Examination sub part (1/2)

#### Examination modalities

Examination type	Written examination
Responsible for organisation	central
Examination form	Written exam
Examination mode	Analog
Time of examination	Lecture-free period
Examination execution	Synchronous
Examination location	On Campus
Grading type	Individual work individual grade
Weighting	70%
Duration	90 mins.

#### Examination languages

Question language: English  
Answer language: English

#### Remark

Central exam

#### Examination-aid rule

Closed Book

The use of aids is prohibited as a matter of principle, with the exception of pocket calculator models of the Texas Instruments TI-30 series and, in case of non-language exams, bilingual dictionaries without any handwritten notes. Any other aids that are admissible must be explicitly listed by faculty members in the paragraph entitled "Supplementary aids" of the course and examination fact sheet; this list is exhaustive.

Procuring any aids, as well as ensuring their working order, is the exclusive responsibility of students.

#### Supplementary aids

Pocket calculators that cannot be programmed of the Texas Instruments TI-30 series.

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### 2. Examination sub part (2/2)

#### Examination modalities

Examination type	Quiz
Responsible for organisation	decentral
Examination form	Written exam
Examination mode	Digital
Time of examination	Term time
Examination execution	Asynchronous
Examination location	Off Campus
Grading type	Individual work individual grade
Weighting	30%
Duration	--

#### Examination languages

Question language: English  
Answer language: English



## Remark

Three problem sets, each counting 10 percent.

## Examination-aid rule

Open Book

Students are free to choose aids, apart from the following restrictions:

- pocket calculator models which are not part of the Texas Instruments TI-30 series, as well as any programmable electronic devices that are capable of communication such as electronic dictionaries, notebooks, tablets, smartphones, headsets, additional screens, etc. are not admissible;
- there is an option for faculty members to explicitly define exceptions under supplementary aids.

Procuring any aids, as well as ensuring their working order, is the exclusive responsibility of students.

## Supplementary aids

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## Examination content

Exam-relevant materials are the lecture slides and other lecture materials (e.g. computer scripts), the exercises as well as the required and (if explicitly indicated in the syllabus) complementary readings.

The topics include quantitative research design, measurement, and descriptive statistics, basic topics of univariate statistics, such as point estimation, interval estimation, and hypothesis testing, and finally critically discussing social science research that uses statistical methods.

## Examination relevant literature

Required readings: Agresti, Alan and Finlay, Barbara. 2017. Statistical Methods for the Social Sciences, 5th edition.  
Further readings: tba. (until the end of the lecture period).

## Please note

Please note that only this fact sheet and the examination schedule published at the time of bidding are binding and takes precedence over other information, such as information on StudyNet (Canvas), on lecturers' websites and information in lectures etc.

Any references and links to third-party content within the fact sheet are only of a supplementary, informative nature and lie outside the area of responsibility of the University of St.Gallen.

Documents and materials are only relevant for central examinations if they are available by the end of the lecture period (CW51) at the latest. In the case of centrally organised mid-term examinations, the documents and materials up to CW 43 are relevant for testing.

Binding nature of the fact sheets:

- Course information as well as examination date (organised centrally/decentrally) and form of examination: from bidding start in CW 34 (Thursday, 22nd August 2024);
- Examination information (supplementary aids, examination contents, examination literature) for decentralised examinations: in CW 42 (Monday, 14. October 2024);
- Examination information (supplementary aids, examination contents, examination literature) for centrally organised mid-term examinations: in CW 43 (Monday, 21 October 2024);
- Examination information (regulations on aids, examination contents, examination literature) for centrally organised examinations: two weeks before ending with de-registration period in CW 45 (Monday, 04 November 2024).

