

# Study Programmes

## Institute of Geosciences and Geography



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## Prof Dr. Cornelia Gläßer

- Head of Department
- Education in Geography and Geosciences
- PhD and Habilitation in multi and hyperspectral remote sensing

### → Research interests

- hyperspectral remote sensing für geo-, hydro- and biochemical parameter in different landscape types and climatic regions
- Remote sensing of mining areas
- Phenology of crops and natural phenology
- Long term experiences in e-learning



## Dr. Michael Denk

- Study of Geography at MLU Halle-Wittenberg
- PhD: *Qualitative and quantitative spectral characterisation of iron- and steelworks by-products - Combining information from the visible light to the longwave infrared*

### → Research Interests

- Hyperspectral and multispectral analysis of geochemical parameters
- Remote sensing of mining areas
- Detection of invasive plant species



## Dr. Yaron Ogen

- Study of Geography at University of Tel Aviv
- PhD: *Soil Spectroscopy in the Visible, Near and Shortwave Infrared (0.4-2.5  $\mu\text{m}$ ) for Precise Soil Mapping*

### → Research interests

- Hyperspectral- and multispectral remote sensing of natural systems
- Spectroscopy
- Geostatistics



## Dr. Vera Schreiner

- Study of Geoecology at Volgograd University
- PhD: *Indicator system and assessment of desertification processes within the Northern Kulunda Steppe in Western Siberia*

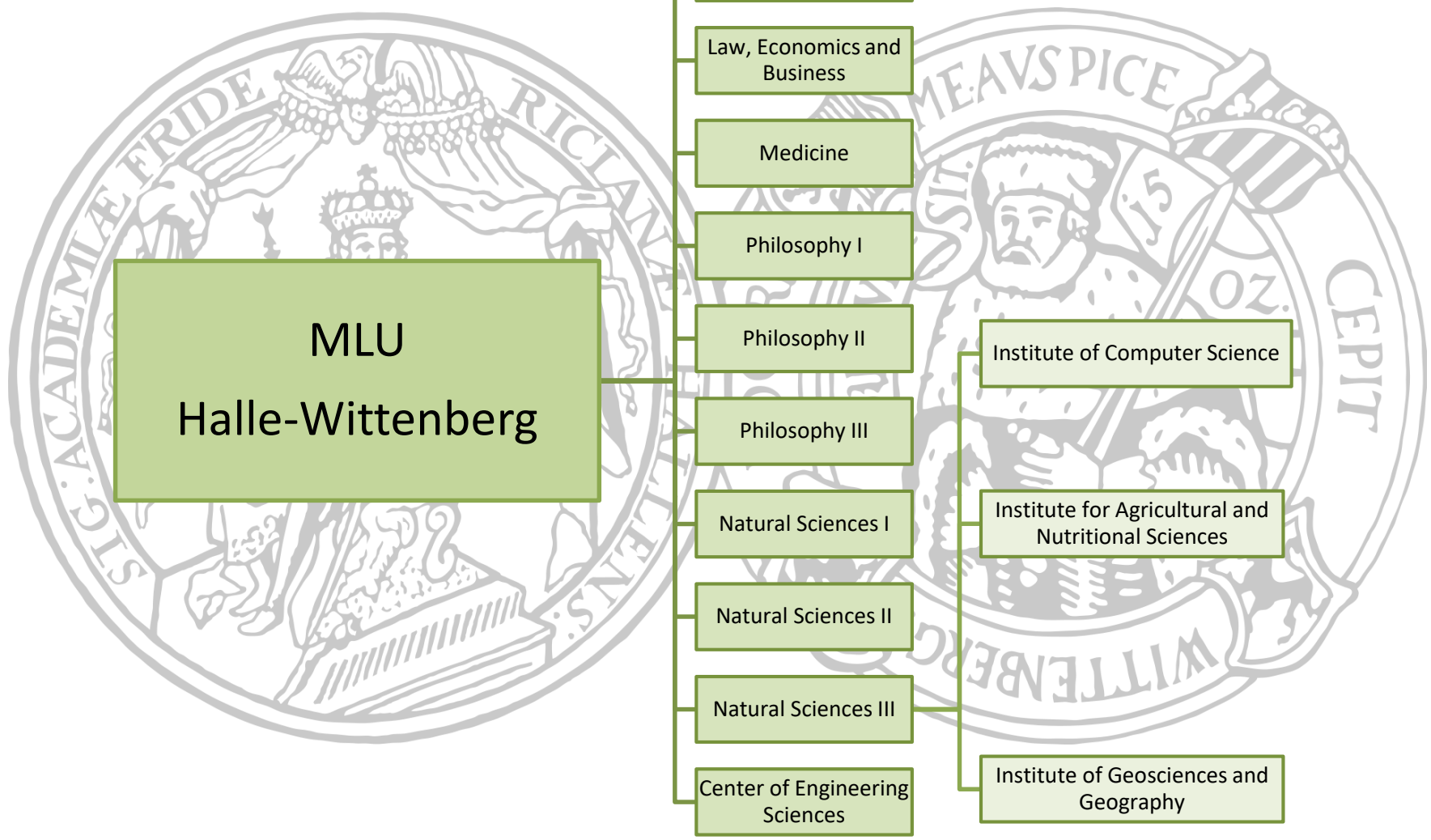
### → Research interests

- Landscape ecology and GIS
- Remote sensing of Phenology
- Landdegradation

- Study of Geography and Management of Natural Resources in Dresden (Bachelor), Leipzig and Halle (Master) between 2012-2018
- Master thesis: „*Remote sensing based analysis of vegetation activity considering climatic variability in the semi-arid areas of the Negev (Israel)*“
- Master thesis: „*The application of supervised machine learning algorithms for prediction of phosphate in agricultural soils*“
- Scientific assistant in the **Department of Remote Sensing and Cartography** since October 2018
- Lectures in **Geomatics** and **Geodata-analysis** (Bachelor) and **Applied Remote Sensing** (Master)
- Thematic focus: Remote Sensing and GIS, (Geo-)Statistics, Machine Learning and Data Mining



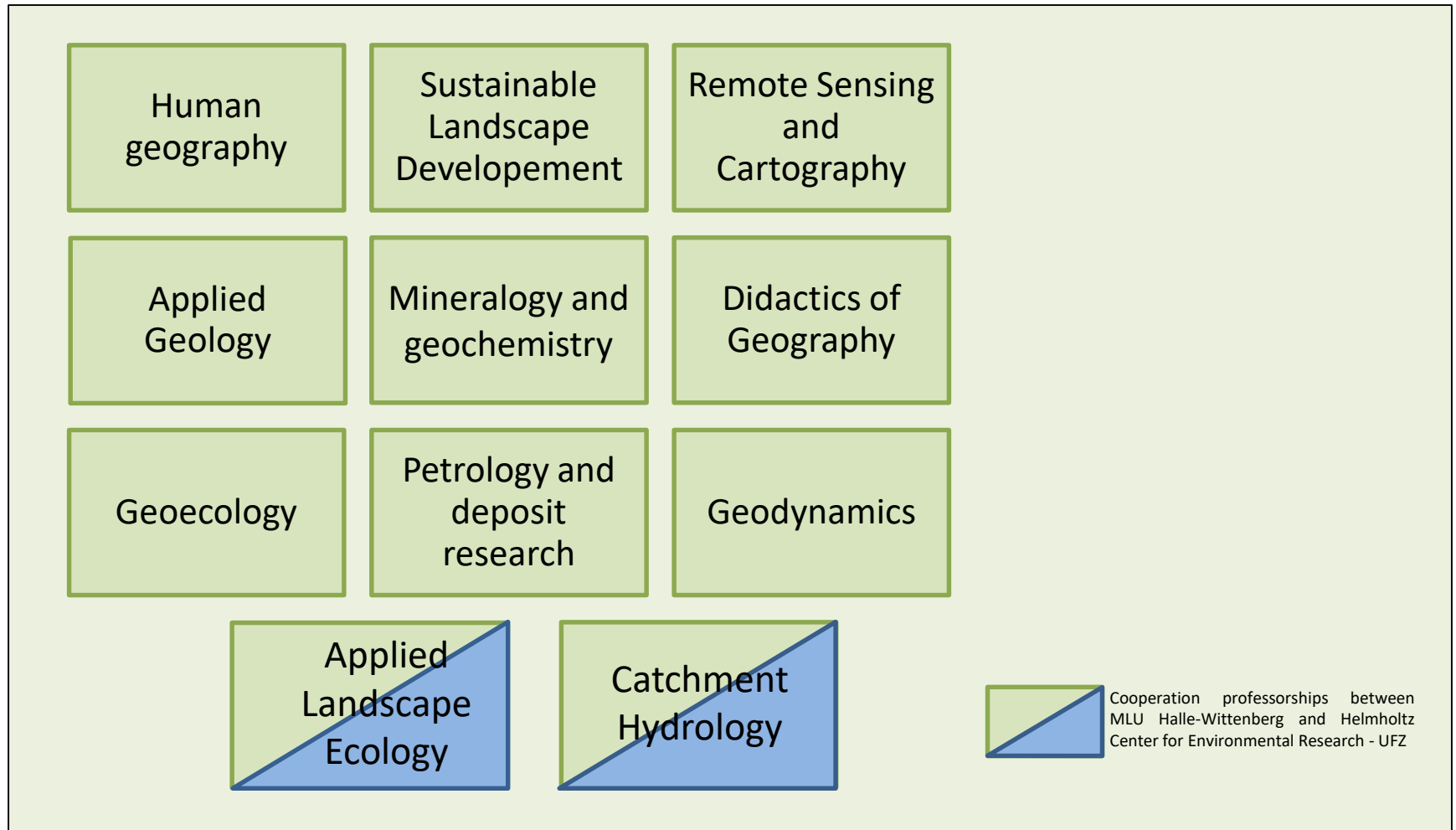
# The University



further informations: <https://www.uni-halle.de/universitaet/geschichte/>



# Departments



Cooperation professorships between  
MLU Halle-Wittenberg and Helmholtz  
Center for Environmental Research - UFZ

further Informations: <https://www.uni-halle.de/fakultaeten/>



Martin Luther University Halle-Wittenberg  
Institute of Geosciences and Geography  
Department of Remote Sensing and Cartography



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## Bachelor (180 ETCS)

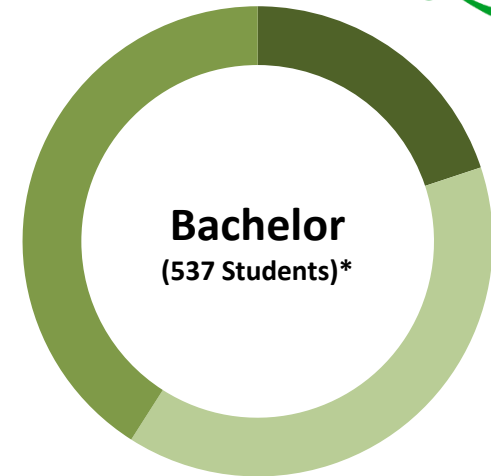
- Applied Geosciences
- Natural Ressource Management
- Geography

## Master (120 ETCS)

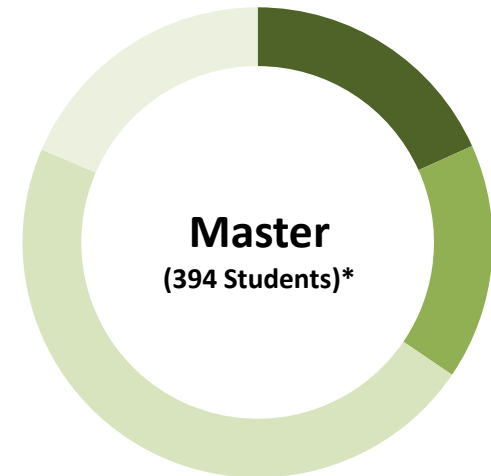
- Applied Geosciences
- Natural Ressource Management
- Geography
- International Area Studies

## Teaching (state examination)

- Geography



■ Applied Geosciences ■ NRM ■ Geography



■ Applied Geosciences ■ Geography ■ NRM ■ IAS

\*Matriculations winter term 2018/19  
(AFTER PRORECTORATE FOR PERSONNEL DEVELOPMENT AND STRUCTURE)

- Bachelor of Science
- 180 CP (=ETCS)
- Duration of 6 Semesters (=3 Years)
- Main Language German
- Master of Science
- 120 CP (=ETCS)
- Duration of 4 Semesters (=2 Years)
- Main Language German

Endogene and exogene dynamics

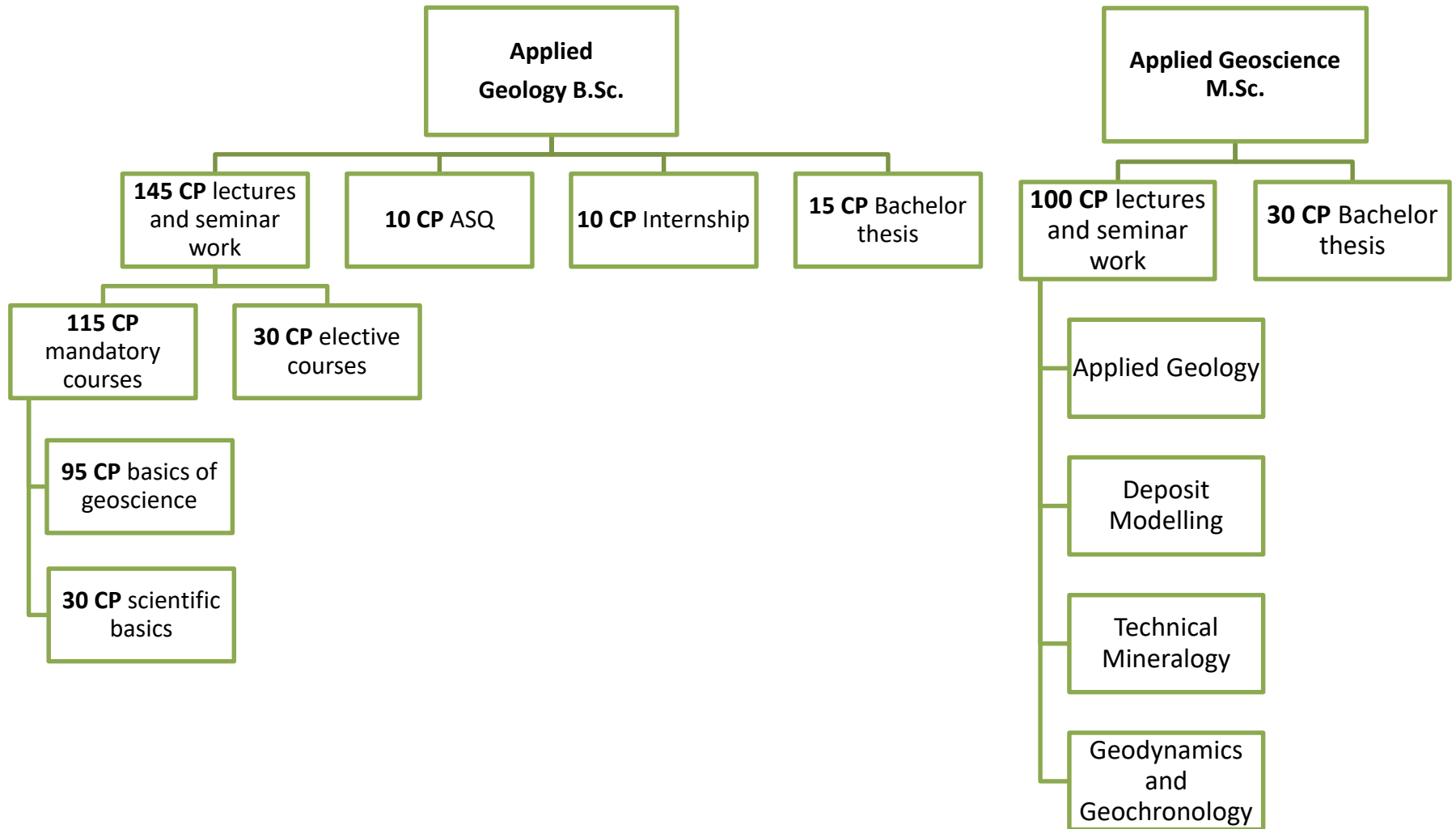
Mineralogy and Petrography

Raw materials and resources

Georisks and Sustainability

Geophysical and chemical methods





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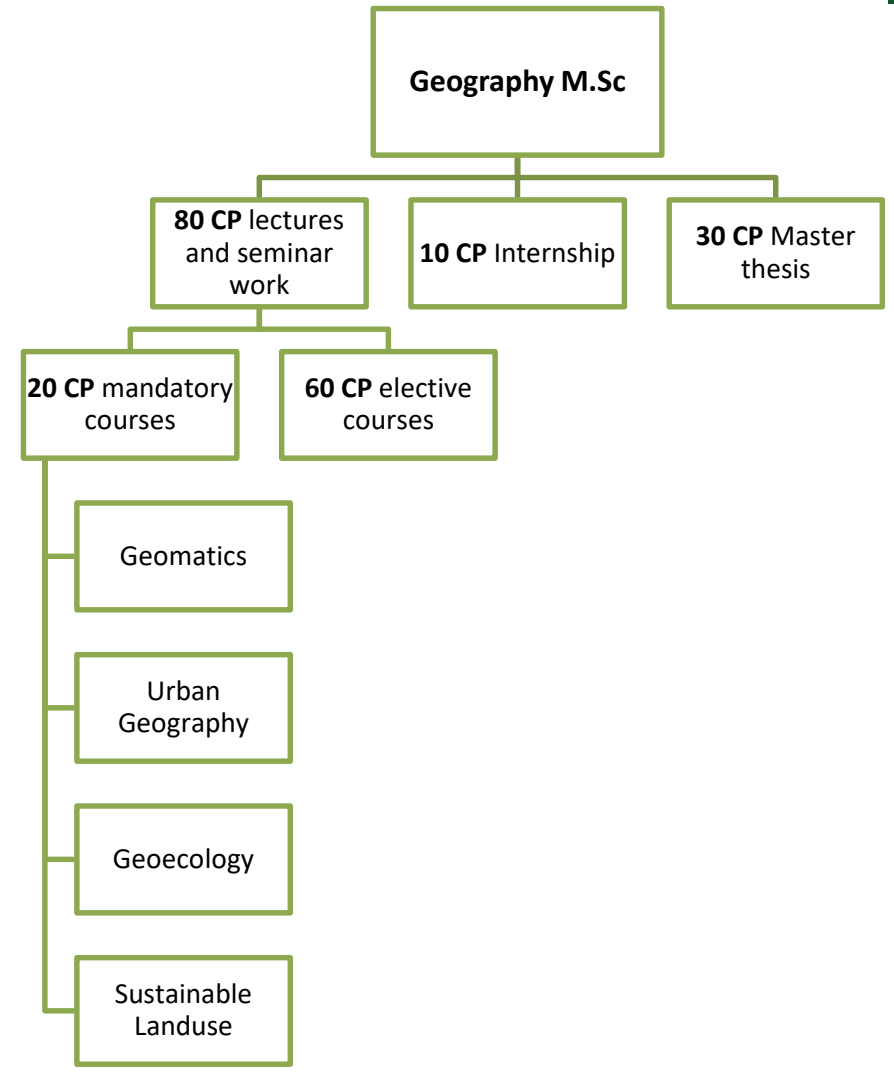
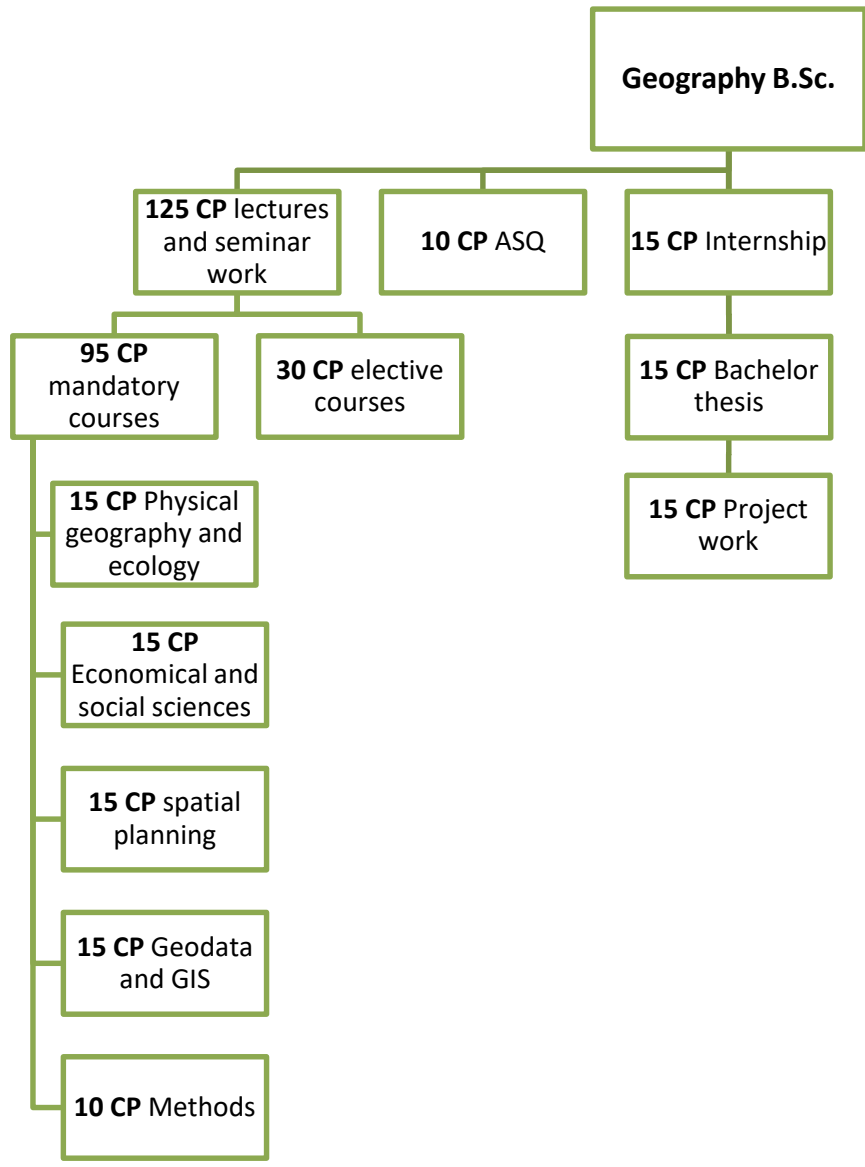
Spatial dynamics on global, regional and local scale

Natural processes and landscape ecology

Economical and social processes

Geodataanalysis and statistics

Spatial planning



- State examination
- 270 CP (=ETCS)
- Duration of 9 Semesters (=4 and a half Years)
- Main Language German
- Structure and workload depends on teaching position

Spatial dynamics on global, regional and local scale

Natural processes and landscape ecology

Economical and social processes

Geodata analysis and statistics

Spatial planning

- Bachelor of Science
- 180 CP (=ETCS)
- Duration of 6 Semesters (=3 Years)
- Main Language German
- Master of Science
- 120 CP (=ETCS)
- Duration of 4 Semesters (=2 Years)
- Main Language German/Englisch

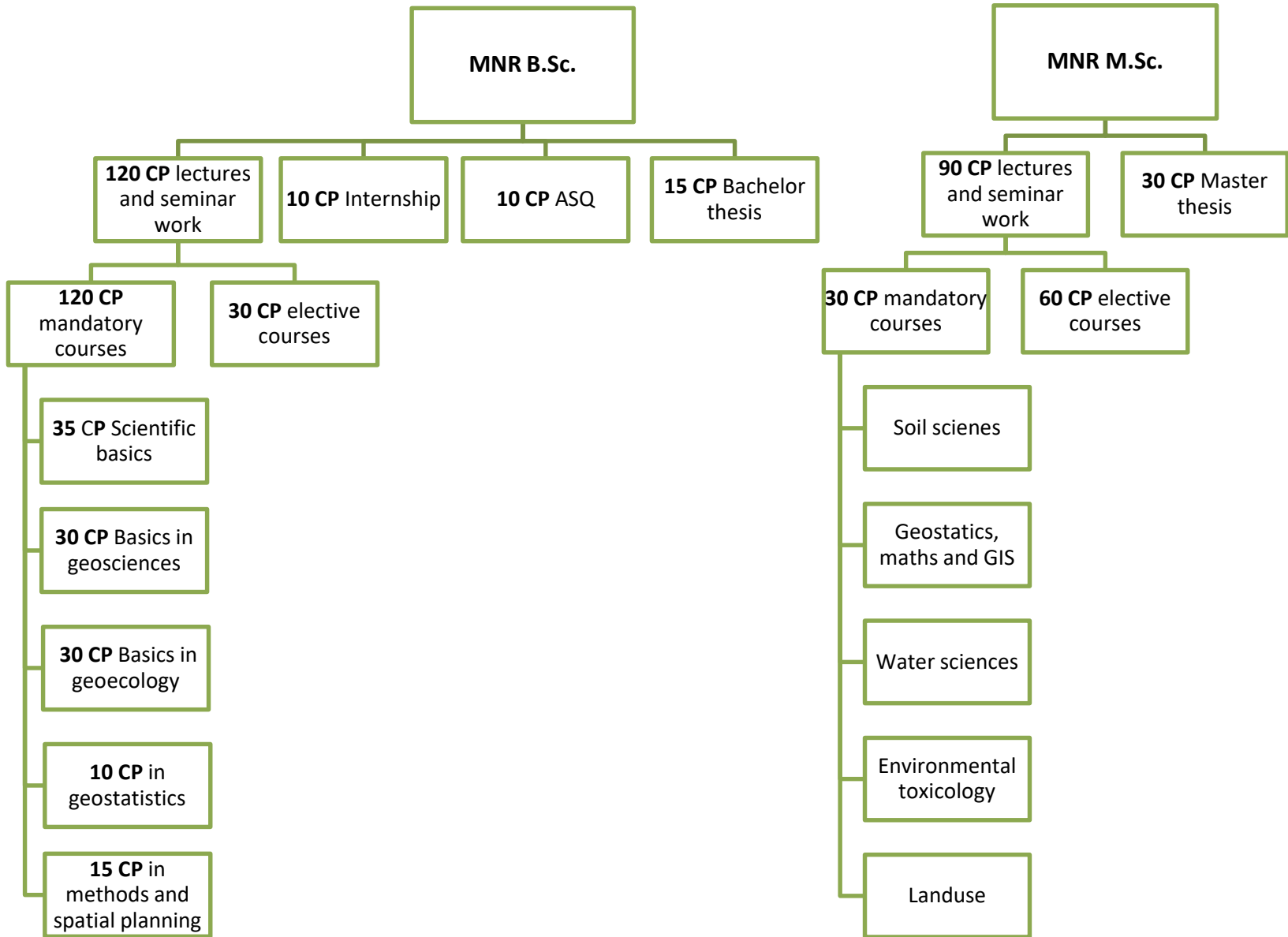
Understandig of natural compartments

Landuse and agricultural knowledge

Sustainable use of ressources

Basics in chemistry, maths and physics

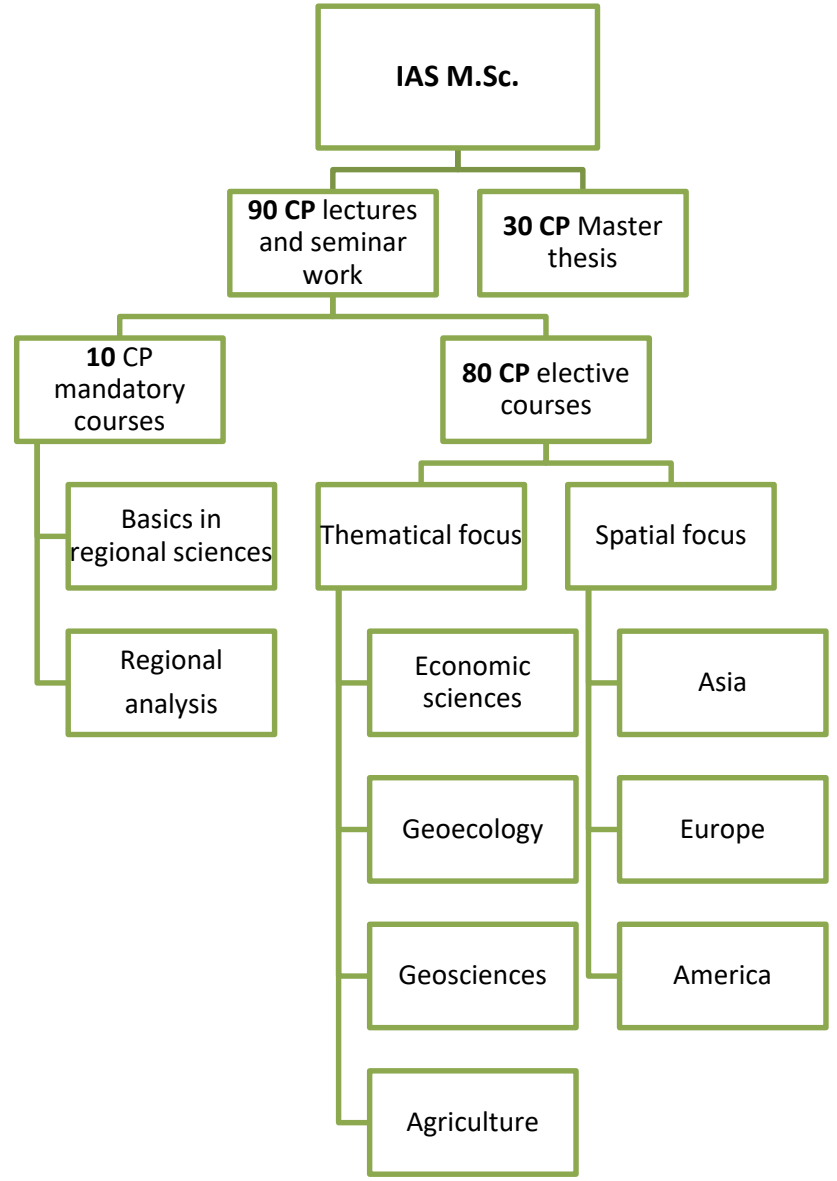
Enviromental planning



- Master of Science
- 120 LP (=ETCS)
- Duration of 4 Semesters (=2 Years)
- Main Language German
- one of the few study programmes with a focus on regional sciences

Regional sciences

Spatial and thematic focus





# Thank you for your attention!

