## Module description

<table>
<thead>
<tr>
<th>Module title</th>
<th>Abbreviation</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Physical Geography: Climate System</td>
<td>04-Geo-PG1KI-152-m01</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Module coordinator</th>
<th>Module offered by</th>
</tr>
</thead>
<tbody>
<tr>
<td>holder of the Professorship of Climatology</td>
<td>Institute of Geography and Geology</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ECTS</th>
<th>Method of grading</th>
<th>Only after succ. compl. of module(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>numerical grade</td>
<td>--</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Duration</th>
<th>Module level</th>
<th>Other prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 semester</td>
<td>undergraduate</td>
<td>--</td>
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</tbody>
</table>

### Contents

The following basics of the Earth's climate system will be presented: terrestrial and celestial mechanical basics; radiation and energy; vertical and horizontal flow dynamics; data sources, characteristics and variability of the Earth's climate system.

### Intended learning outcomes

The students will gain a basic physical understanding of the Earth's climate system.

### Courses

<table>
<thead>
<tr>
<th>type, number of weekly contact hours, language — if other than German</th>
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<tr>
<td>V (3)</td>
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</table>

Module taught in: German and/or English

### Method of assessment

<table>
<thead>
<tr>
<th>type, scope, language — if other than German, examination offered — if not every semester, information on whether module is creditable for bonus</th>
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<tbody>
<tr>
<td>written examination (approx. 45 minutes)</td>
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</table>

Language of assessment: German and/or English

### Allocation of places

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### Additional information

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### Referred to in LPO I

<table>
<thead>
<tr>
<th>examination regulations for teaching-degree programmes</th>
</tr>
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<tbody>
<tr>
<td>§ 47 I Nr. 1</td>
</tr>
<tr>
<td>§ 66 I Nr. 1</td>
</tr>
</tbody>
</table>

### Module appears in

- Bachelor' degree (1 major) Biology (2011)
- Bachelor' degree (1 major) Biology (2013)
- Bachelor' degree (1 major) Chemistry (2010)
- Bachelor' degree (1 major) Chemistry (2009)
- Bachelor' degree (1 major) Geography (2010)
- Bachelor' degree (1 major) Computer Science (2014)
- Bachelor' degree (1 major) Food Chemistry (2009)
- Bachelor' degree (1 major) Mathematics (2014)
- Bachelor' degree (1 major) Mathematics (2013)
- Bachelor' degree (1 major) Physics (2012)
- Bachelor' degree (1 major) Psychology (2010)
- Bachelor' degree (1 major) Business Management and Economics (2013)
- Bachelor' degree (1 major) Business Management and Economics (2010)
- Bachelor' degree (1 major) Economathematics (2012)
- Bachelor' degree (1 major) Economathematics (2008)
- Bachelor' degree (1 major) Business Information Systems (2014)
- Bachelor' degree (1 major) Indology/South Asian Studies (2013)
- Bachelor' degree (1 major) Human-Computer Systems (2010)
Bachelor's degree (1 major) Computational Mathematics (2014)
Bachelor's degree (1 major) Aerospace Computer Science (2014)
Bachelor's degree (1 major) Media Communication (2012)
Bachelor's degree (1 major) Political and Social Studies (2011)
Bachelor's degree (1 major) Romanic Languages (French/Spanish) (2013)
Bachelor's degree (1 major) Functional Materials (2012)
Bachelor's degree (1 major, 1 minor) Pedagogy (2011)
Bachelor's degree (1 major, 1 minor) Pedagogy (2009)
Bachelor's degree (1 major, 1 minor) Pedagogy (2013)
Bachelor's degree (1 major, 1 minor) French Studies (2013)
Bachelor's degree (1 major, 1 minor) History (2010)
Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2013)
Bachelor's degree (1 major, 1 minor) Philosophy (2010)
 Bachelor's degree (1 major, 1 minor) Philosophy (2013)
Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2012)
Bachelor's degree (1 major, 1 minor) Spanish Studies (2010)
Bachelor's degree (1 major, 1 minor) Music Education (2011)
Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2014)
Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2010)
Bachelor's degree (1 major, 1 minor) Political and Social Studies (2013)
Bachelor's degree (1 major, 1 minor) Museology and material culture (2013)
Bachelor's degree (1 major, 1 minor) English and American Studies (2010)
Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2008)
Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2012)
Bachelor's degree (1 major, 1 minor) Gallo-Roman philology (2010)
Bachelor's degree (1 major, 1 minor) German Language and Literature (2013)
Bachelor's degree (1 major, 1 minor) German Language and Literature (2010)
Bachelor's degree (1 major, 1 minor) Italian Studies (2010)
Bachelor's degree (2 majors) Egyptology (2011)
Bachelor's degree (2 majors) Classical Archaeology (2013)
Bachelor's degree (2 majors) Pedagogy (2013)
Bachelor's degree (2 majors) Protestant Theology (2009)
Bachelor's degree (2 majors) History of Medieval and Modern Art (2013)
Bachelor's degree (2 majors) Musicology (2011)
Bachelor's degree (2 majors) Philosophy (2013)
Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2012)
Bachelor's degree (2 majors) Special Education (2009)
Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2012)
Bachelor's degree (2 majors) Music Education (2011)
Bachelor's degree (2 majors) Philosophy and Religion (2014)
Bachelor's degree (2 majors) Digital Humanities (2012)
Bachelor's degree (2 majors) Digital Humanities (2009)
Bachelor's degree (2 majors) Political and Social Studies (2011)
Bachelor's degree (2 majors) Russian Language and Culture (2012)
Bachelor's degree (2 majors) European Ethnology (2013)
Magister Theologiae Catholic Theology (2013)
Bachelor's degree (2 majors) Geography (2010)
Bachelor's degree (2 majors) French Studies (2013)
Bachelor's degree (2 majors) History (2009)
Bachelor's degree (2 majors) Italian Studies (2013)
Bachelor's degree (2 majors) Spanish Studies (2013)
Bachelor's degree (2 majors) Spanish Studies (2009)
Bachelor's degree (2 majors) English and American Studies (2009)
Bachelor's degree (2 majors) Gallo-Roman philology (2009)
Bachelor's degree (2 majors) German Language and Literature (2013)
Bachelor's degree (2 majors) German Language and Literature (2009)
Bachelor's degree (2 majors) Italian Studies (2009)
Bachelor degree (1 major) Biochemistry (2015)
Bachelor degree (1 major) Biology (2015)
Bachelor degree (1 major) Chemistry (2015)
Bachelor degree (1 major) Geography (2015)
Bachelor degree (1 major) Computer Science (2015)
Bachelor degree (1 major) Food Chemistry (2015)
Bachelor degree (1 major) Mathematics (2015)
Bachelor degree (1 major) Musicology (2015)
Bachelor degree (1 major) Physics (2015)
Bachelor degree (1 major) Psychology (2015)
Bachelor degree (1 major) Business Management and Economics (2015)
Bachelor degree (1 major) Nanostructure Technology (2015)
Bachelor degree (1 major) Economathematics (2015)
Bachelor degree (1 major) Business Information Systems (2015)
Bachelor degree (1 major) Biomedicine (2015)
Bachelor degree (1 major) Mathematical Physics (2015)
Bachelor degree (1 major) Human-Computer Systems (2015)
Bachelor degree (1 major) Modern China (2015)
Bachelor degree (1 major) Music Education (2015)
Bachelor degree (1 major) Computational Mathematics (2015)
Bachelor degree (1 major) Aerospace Computer Science (2015)
Bachelor degree (1 major) Political and Social Studies (2015)
Bachelor degree (1 major) Functional Materials (2015)
Bachelor degree (1 major) Academic Speech Therapy (2015)
Bachelor degree (1 major) Indology/South Asian Studies (2015)
Bachelor's degree (1 major, 1 minor) Egyptology (2015)
Bachelor's degree (1 major, 1 minor) Classical Archaeology (2015)
Bachelor's degree (1 major, 1 minor) Geography (Minor, 2015)
Bachelor's degree (1 major, 1 minor) Pedagogy (2015)
Bachelor's degree (1 major, 1 minor) History (2015)
Bachelor's degree (1 major, 1 minor) Italian Studies (2015)
Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2015)
Bachelor's degree (1 major, 1 minor) Musicology (2015)
Bachelor's degree (1 major, 1 minor) Philosophy (2015)
Bachelor's degree (1 major, 1 minor) Spanish Studies (2015)
Bachelor's degree (1 major, 1 minor) Pre- and Protohistoric Archaeology (2015)
Bachelor's degree (1 major, 1 minor) Ancient World (2015)
Bachelor's degree (1 major, 1 minor) Music Education (2015)
Bachelor's degree (1 major, 1 minor) Philosophy and Religion (2015)
Bachelor's degree (1 major, 1 minor) Geography (Focus Physical Geography) (2015)
Bachelor's degree (1 major, 1 minor) Theological Studies (2015)
Bachelor's degree (1 major, 1 minor) Geography (Focus Human Geography) (2015)
Bachelor's degree (1 major, 1 minor) Political and Social Studies (2015)
Bachelor's degree (1 major, 1 minor) Museology and material culture (2015)
Bachelor's degree (1 major, 1 minor) English and American Studies (2015)
Bachelor's degree (1 major, 1 minor) Russian Language and Culture (2015)
Bachelor's degree (1 major, 1 minor) German Language and Literature (2015)
Bachelor's degree (2 majors) Egyptology (2015)
Bachelor's degree (2 majors) Classical Archaeology (2015)
Bachelor's degree (2 majors) Pedagogy (2015)
Bachelor's degree (2 majors) Protestant Theology (2015)
Bachelor's degree (2 majors) History of Medieval and Modern Art (2015)
Bachelor's degree (2 majors) Musicology (2015)
Bachelor's degree (2 majors) Philosophy (2015)
Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2015)
Bachelor's degree (2 majors) Special Education (2015)
Bachelor's degree (2 majors) Pre- and Protohistoric Archaeology (2015)
Bachelor's degree (2 majors) Latin Philology (2015)
Bachelor's degree (2 majors) Music Education (2015)
Bachelor's degree (2 majors) Philosophy and Religion (2015)
Bachelor's degree (2 majors) Theological Studies (2015)
Bachelor's degree (2 majors) Digital Humanities (2015)
Bachelor's degree (2 majors) Political and Social Studies (2015)
Bachelor's degree (2 majors) Russian Language and Culture (2015)
Bachelor's degree (2 majors) Greek Philology (2015)
Bachelor's degree (2 majors) European Ethnology (2015)
Bachelor's degree (2 majors) Indology/South Asian Studies (2015)
Bachelor's degree (2 majors) Ancient Near Eastern Studies (2015)
First state examination for the teaching degree Grundschule Geography (2015)
First state examination for the teaching degree Realschule Geography (2015)
First state examination for the teaching degree Gymnasium Geography (2015)
First state examination for the teaching degree Mittelschule Geography (2015)
Bachelor's degree (2 majors) Geography (2015)
Bachelor's degree (2 majors) French Studies (2015)
Bachelor's degree (2 majors) History (2015)
Bachelor's degree (2 majors) Spanish Studies (2015)
Bachelor's degree (2 majors) Sport Science (Focus on health and Pedagogics in Movement) (2015)
Bachelor's degree (2 majors) German Language and Literature (2015)
Bachelor's degree (1 major) Mathematical Physics (2016)
Bachelor's degree (1 major) Human-Computer Systems (2016)
Bachelor's degree (2 majors) Theological Studies (2011)
Bachelor's degree (1 major, 1 minor) French Studies (2016)
Bachelor's degree (2 majors) French Studies (2016)
Bachelor's degree (1 major, 1 minor) Italian Studies (2016)
Bachelor's degree (2 majors) Italian Studies (2016)
Bachelor's degree (1 major, 1 minor) Spanish Studies (2016)
Bachelor's degree (2 majors) Spanish Studies (2016)
Bachelor's degree (1 major) Romanic Languages (French/Italian) (2016)
Bachelor's degree (1 major) Romanic Languages (French/Spanish) (2016)
Bachelor's degree (1 major) Romanic Languages (Spanish/Italian) (2016)
Bachelor's degree (1 major) Business Information Systems (2016)
Bachelor's degree (1 major) Games Engineering (2016)
Bachelor's degree (1 major, 1 minor) English and American Studies (2016)
Bachelor's degree (2 majors) English and American Studies (2016)
Bachelor's degree (1 major) Media Communication (2016)
Bachelor's degree (1 major) Food Chemistry (2016)
Bachelor's degree (1 major, 1 minor) Digital Humanities (2016)
Bachelor's degree (1 major) Biology (2017)
Bachelor's degree (1 major, 1 minor) Geography (2017)
Bachelor's degree (1 major, 1 minor) History of Medieval and Modern Art (2017)
Bachelor's degree (2 majors) History of Medieval and Modern Art (2017)
Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2017)
| Bachelor's degree (1 major) Aerospace Computer Science (2017) |
| Bachelor's degree (1 major) Modern China (2017) |
| Bachelor's degree (1 major) Biochemistry (2017) |
| Bachelor's degree (1 major) Chemistry (2017) |
| Bachelor's degree (1 major, 1 minor) Museology and material culture (2017) |
| Bachelor's degree (1 major) Economathematics (2017) |
| Bachelor's degree (1 major) Games Engineering (2017) |
| Bachelor's degree (1 major) Computer Science (2017) |
| Bachelor's degree (1 major) Media Communication (2018) |
| Bachelor's degree (1 major) Biomedicine (2018) |
| Bachelor's degree (1 major) Human-Computer Systems (2018) |
| Bachelor's degree (2 majors) Classical Archaeology (2018) |
| Bachelor's degree (1 major, 1 minor) Classical Archaeology (2018) |
| Bachelor's degree (1 major, 1 minor) Digital Humanities (2018) |
| Bachelor's degree (2 majors) Digital Humanities (2018) |
| Bachelor's degree (1 major) Computer Science (2019) |
| Bachelor's degree (1 major, 1 minor) English and American Studies (2019) |
| Bachelor's degree (1 major, 1 minor) Indology/South Asian Studies (2019) |
| Bachelor's degree (1 major) Indology/South Asian Studies (2019) |
| Bachelor's degree (1 major) Business Information Systems (2019) |
| Bachelor's degree (2 majors) Indology/South Asian Studies (2019) |
| Bachelor's degree (1 major) Business Management and Economics (2019) |
| Bachelor's degree (1 major) Modern China (2019) |
| Bachelor's degree (1 major) Food Chemistry (2019) |
| Bachelor's degree (1 major) Biomedicine (2020) |
| Bachelor's degree (1 major) Pedagogy (2020) |
| Bachelor's degree (1 major) Political and Social Studies (2020) |
| Bachelor's degree (1 major) Business Information Systems (2020) |
| Bachelor's degree (1 major, 1 minor) Political and Social Studies (2020) |
| Bachelor's degree (2 majors) European Ethnology (2020) |
| Bachelor's degree (2 majors) Political and Social Studies (2020) |
| Bachelor's degree (2 majors) Special Education (2020) |
| First state examination for the teaching degree Mittelschule Geography (2020 (Prüfungsordnungsversion 2015)) |
| Bachelor's degree (1 major) Physics (2020) |
| Bachelor's degree (1 major) Nanostructure Technology (2020) |
| Bachelor's degree (1 major) Mathematical Physics (2020) |
| Bachelor's degree (1 major) Aerospace Computer Science (2020) |
| Bachelor's degree (1 major, 1 minor) Museology and material culture (2020) |
| Bachelor's degree (1 major, 1 minor) Pedagogy (2020) |
| Bachelor's degree (2 majors) Pedagogy (2020) |
| Bachelor's degree (1 major) Psychology (2020) |
| Bachelor's degree (1 major) Biology (2021) |
| Magister Theologiae Catholic Theology (2021) |
| Bachelor's degree (2 majors) History (2021) |
| Bachelor's degree (1 major, 1 minor) History (2021) |
| Bachelor's degree (1 major) Media Communication (2021) |
| Bachelor's degree (2 majors) Theological Studies (2021) |
| Bachelor's degree (1 major, 1 minor) Theological Studies (2021) |
| Bachelor's degree (1 major, 1 minor) English and American Studies (2021) |
| Bachelor's degree (2 majors) English and American Studies (2021) |
| Bachelor's degree (1 major) Functional Materials (2021) |
| Bachelor's degree (1 major) Computer Science und Sustainability (2021) |
| Bachelor's degree (2 majors) Comparative Indo-European Linguistics (2021) |
| Bachelor's degree (1 major) Food Chemistry (2021) |
| Bachelor's degree (1 major) Quantum Technology (2021) |
| Bachelor's degree (2 majors) Special Education (2021) |
| Bachelor's degree (1 major) Business Information Systems (2021) |
| Bachelor's degree (1 major) Economathematics (2021) |
| Bachelor's degree (1 major) Business Management and Economics (2021) |