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| **Protokollblatt**  für das Masterstudium Environmental Systems Sciences / Climate Change and Transformation Science  (ESS / CCTS )  Curriculum 2022 | | | | | | |
| Name:  Matrikelnummer: | | Tel.:  E-Mail: | | | | |
|  | | | | | | |
| Ergänzen Sie die folgende Tabelle mit den absolvierten Lehrveranstaltungen bzw. mit den durch die Universität Graz anerkannten Lehrveranstaltungen.  Sollte eine LV anerkannt worden sein, vermerken Sie das in der Spalte Anmerkung und legen Sie den Anerkennungsbescheid bei (Prüfungsdatum = Bescheiddatum). | | | | | | |
|  | | | | | | |
| LV-Typ | Prüfungsfach/Prüfung | | Datum | Note | ECTS | Anmerkung |
|  | **Modul A: Interdisciplinary Practice** | |  |  | **10** |  |
| AG | A.1: IP – Interdisciplinary Practical Training | |  |  | 10 |  |
|  |  | |  |  |  |  |
|  |  | |  |  |  |  |
|  | **Modul B: Systems Sciences** | |  |  | **10** |  |
| VO | B.1: Data in Systems Sciences | |  |  | 3 |  |
|  |  | |  |  |  |  |
| VO | B.2: Systems-Modelling and Systems-Analysis | |  |  | 3 |  |
|  |  | |  |  |  |  |
|  | Aus B3 und B4 ist eine LV zu wählen: | |  |  |  |  |
| SE | B.3: Data in System Sciences | |  |  | (4) |  |
|  |  | |  |  |  |  |
| SE | B.4: Systems-Modelling and Systems-Analysis | |  |  | (4) |  |
|  |  | |  |  |  |  |
|  |  | |  |  |  |  |
|  | **Modul C: Onboarding** | |  |  | **6** |  |
|  | Aus folgenden 3 Lehrveranstaltungen sind 2 auszuwählen | |  |  |  |  |
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| VO | C.1: Introduction to the Climate System |  |  | (3) |  |
|  |  |  |  |  |  |
| VO | C.2: Introduction to Social Sciences |  |  | (3) |  |
|  |  |  |  |  |  |
| VO | C.3: Introduction to Economics |  |  | (3) |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  | Die **Spezialisierung** im Umfang von 30 ECTS ist **wahlweise** in **Modul D** ClimateScience (D1-D3) **oder in Modul E** Transformation Science (E1-E3)möglich |  |  |  |  |
|  | **Modul D: Climate Science** |  |  | 30 |  |
|  | Modul D.1 Theoretical Climate Science |  |  | 9 |  |
| VO | D.1.1 Climate Dynamics |  |  | 3 |  |
|  |  |  |  |  |  |
| VO | D.1.2 Atmospheric Dynamics |  |  | 3 |  |
|  |  |  |  |  |  |
|  | Aus den Lehrveranstaltungen D.1.3 und D.1.4 ist eine zu wählen |  |  |  |  |
| VO | D.1.3 Physical Oceanography, Hydrology and Climate |  |  | (3) |  |
|  |  |  |  |  |  |
| VO | D.1.4 Paleoclimatology |  |  | (3) |  |
|  |  |  |  |  |  |
|  | Modul D.2 Atmosphere and Climate Observations |  |  | 6 |  |
| VO | D.2.1 Atmosphere and Climate Measurement Methods: In situ |  |  | 3 |  |
|  |  |  |  |  |  |
| VO | D.2.2 Atmosphere and Climate Measurement Methods: Remote Sensing |  |  | 3 |  |
|  |  |  |  |  |  |
|  | Modul D.3 Methods for Climate Science |  |  | 15 |  |
| KS | D.3.1 Mathematics for Climate Science |  |  | 2 |  |
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| VO | D.3.2 Statistics and Time Series Analysis |  |  | 3 |  |
|  |  |  |  |  |  |
| KS | D.3.3 Special Topics in Climate Science Methods: Data Handling & Programming |  |  | 3 |  |
|  |  |  |  |  |  |
| KS | D.3.4 Analysis Methods in Climate Science |  |  | 4 |  |
|  |  |  |  |  |  |
| VO | D. 3.5 Climate Modelling |  |  | 3 |  |
|  |  |  |  |  |  |
|  | **Modul E: Transformation Science** |  |  | **30** |  |
|  | **Modul E.1 Concepts in Transformation Science** |  |  | **9-12** |  |
| KS | E.1.1 Human Behavior and Human-Nature Interactions |  |  | 3 |  |
|  |  |  |  |  |  |
| KS | E.1.2 Social-Ecological Systems Analysis |  |  | 3 |  |
|  |  |  |  |  |  |
|  | Aus E.1.3 und E.1.4 sind eine oder beide Lehrveranstaltungen zu absolvieren |  |  |  |  |
| KS | E.1.3 Special Topics in Transformation Science: Climate and Energy Management |  |  | (3) |  |
|  |  |  |  |  |  |
| KS | E.1.4 Climate Change Economics |  |  | (3) |  |
|  |  |  |  |  |  |
|  | **Modul E.2: Methods in Transformation Science** |  |  | **9-12** |  |
|  | Aus E.2.1-E.2.5 sind mindestens 9 ECTS zu wählen |  |  |  |  |
| KS | E.2.1 Mathematics for Social-Ecological Systems Science |  |  | (3) |  |
|  |  |  |  |  |  |
| KS | E.2.2 Qualitative Research Methods and Transdisciplinarity |  |  | (6) |  |
|  |  |  |  |  |  |
| KS | E.2.3 Quantitative Research Methods: Computable General Equilibrium Modelling |  |  | (6) |  |
|  |  |  |  |  |  |
| KS | E.2.4. Quantitative Research Methods: Spatial Analysis |  |  | (6) |  |
|  |  |  |  |  |  |
| KS | E.2.5 Quantitative Research Methods: Complex Systems Modelling |  |  | (6) |  |
|  |  |  |  |  |  |
|  | **Modul E.3: Applications in Transformations Science** |  |  | **9** |  |
| PT | E.3.1 Research Project in Climate Resilience & Transformation Management |  |  | 6 |  |
|  |  |  |  |  |  |
| KS | E. 3.2 Advanced Environmental and Climate Policy |  |  | 3 |  |
|  |  |  |  |  |  |
|  | **Modul F: Interdisciplinary Climate Science** |  |  | **9** |  |
| VU | F.1 Climate Risks |  |  | 4 |  |
|  |  |  |  |  |  |
| SE | F.2 Special Topics in Interdisciplinary Climate Science |  |  | 3 |  |
|  |  |  |  |  |  |
| SE | F.3 Master Seminar |  |  | 2 |  |
|  |  |  |  |  |  |
|  | **Modul G: Environmentally-oriented Elective Subject** |  |  | **18** |  |
|  | Für den Abschluss legen Sie das ausgefüllte und genehmigte Formular diesem Protokollblatt bei. |  |  |  |  |
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|  | **Free Electives** |  |  | **6** |  |
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|  | **Überfakultäres Mastermodul**  **Anstelle des Moduls G und 6 ECTS-Anrechnungspunkten aus den Freien Wahlfächern, kann ein überfakultäres Mastermodul absolviert werden** |  |  | **24** |  |
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|  | **Master Thesis** |  |  | **30** |  |
|  | Titel: |  |  |  |  |
|  |  |  |  |  |  |
|  | Die Masterarbeit wurde in folgendem Modul verfasst (zur Verfügung stehen B, D, E, F oder G): |  |  |  |  |
|  |  |  |  |  |  |
|  | **Master Exam** |  |  | **1** |  |
|  |  |  |  |  |  |
|  | **Das Masterstudium umfasst somit einen Arbeitsaufwand von** |  |  | **120 ECTS** |  |

Ich bestätige hiermit die Richtigkeit meiner Angaben.

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Datum, Unterschrift

Gesehen und genehmigt

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Datum, Vorsitzende/r der Curricula-Kommission