The Ohio State University College of Arts and Sciences

Climate Change Fundamentals Certificate – Type 1a, 1b; Type 2

Advising Contact:

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The Climate Change Fundamentals (CCF) certificate is an interdisciplinary certificate to provide a comprehensive understanding of the physical and social science of climate change for 21st century citizens. Upon completion of the academic certificate in Climate Change Fundamentals, learners will be better prepared to explain the causes and consequences of climate change to diverse audiences.

The CCF certificate requires a minimum of 12 credits drawn from diverse departments and distributed as follows:

One introductory course:

EARTHSC/EEOB/HIST 2911: Climate Change: Mechanisms, Impacts, and Mitigation (4)

GEOG 3900: Global Climate Change: Causes and

Consequences (3)

GEOG 3901H: Global Climate and Environmental Change (3)

One Human Dimensions course:

ENR 4450: Climate Change Policy (3)

ENR 3400: Psychology of Environmental Problems

(3) (Prereq: ENR 2300 or PSYCH 1100)

GEOG or ENGLISH 3597.03: Environmental Citizenship (3)

AEDE 4320: Energy, the Environment, and the Economy (3) (Prereq: AEDECON 4310)

CRPLAN 3550: Environmental Planning and Policy for a Sustainable Future (3) (Prereg: CRPLAN 2110)

One Climate System Science course:

ENVENG 4218: Measurement and Modeling of Climate Change (3) (Prereq: CIVILEN 2060, or permission of instructor)

ATMOSSC 5901: Climate System Modeling: Basics and Applications (3) (Prereq: A grade of C- or above in ATMOSSC 2940 or GEOG 5900, or permission of instructor)

GEOG 5900: Weather, Climate and Global Warming (3)

EARTHSC/GEOG 4911: Earth's Climate: Past and Future (3)

ENR/EARTHSC 5268: Soils and Climate Change (3) PUBHEHS 4325: Climate Change and Human Health (online) (3)

Students will successfully complete a Capstone experience and present it to the Steering Committee for approval and assessment. This can be completed within an existing Capstone course from the following list:

ENR 4900.01: Environment and Natural Resources Management (3)

ENR/AEDECON 4567: Assessing Sustainability: Project Experience (3)

PUBAFRS 5620: Rapid Innovation for Public Impact (4)

ENVENG 4090: Environmental Engineering Capstone Design

EARTHSC/GEOG 5194: Group Studies** (3)

**Renumbered cross-listed Climate Change Capstone in development

CCF Certificate Program Guidelines

Credit hours required: A minimum of 12.

Overlap with degree program: A student is permitted to overlap up to 50% of credit hours between other degree program (major, minor, other certificate, or general education) and the certificate program.

Grades required:

- Minimum C- for a course to be counted on the certificate
- Minimum 2.00 cumulative GPA for all certificate course work.

<u>Certificate approval</u>: The certificate may be approved by the student's assigned academic advisor via the Degree Audit Report (DAR). If the certificate is not complete on the DAR, the student must consult with a College of Arts and Sciences advisor.

Consult with advisor for filing deadlines.

College of Arts and Sciences. Curriculum and Assessment Services 306 Dulles Hall, 230 Annie & John Glenn Ave. http://artsandsciences.osu.edu Approved CAA 2-15-2023