# Fall 2020 Course Descriptions as of 04/05/2020 08:11 PM

Information in Browse Course Catalog is subject to change. Information is term specific. Please refer to the appropriate term when searching for course content. Key to Course Descriptions may be found at: <a href="http://rcs.registrar.arizona.edu/course\_descriptions\_key">http://rcs.registrar.arizona.edu/course\_descriptions\_key</a>.

#### Global Change (GC)

## GC 170A1: Introduction to Global Change (3 units)

**Description:** The basics of physical science are presented within the context of global environmental change processes (climatic change, global warming, deforestation, etc.) that impact Earth and its inhabitants. Includes hands-on activities, discussions, computer exercises, and a personal interest project.

Grading basis: Regular Grades

Career: Undergraduate

Course Components: Discussion May Be Offered

Lecture Required

**Equivalent to:** ABE 170A2, CHEE 170A1, ENVS 170A1, GEOG 170A1, MSE 170A2 **Enrollment requirement:** Enrollment barred if you've taken NATS101 "Earth Envr:Intr Phys Geo", "Intro to Environ Sci", "Intro to Global Change", "Sci, Tech & Environ", "Sustain Society", or 'Energy Sys & Sustainability" or ABE170A2, CHEE170A1, ENVS170A1, GEOG170A1, or MSE170A2.

**General Education: NATS 101** 

## GC 530: The Climate System (3 units)

**Description:** Systematic examination of processes and circulations comprising Earth's climate. Emphasis on circulations influencing geographic processes using examples of atmospheric environmental issues. Graduate-level requirements include the completion of a term paper.

**Grading basis:** Regular Grades

Career: Graduate Flat Fee: \$50

Course Components: Lecture Required

**Equivalent to:** ARL 530, GC 530 **Also offered as:** ARL 530, GEOG 530

Course typically offered: Main Campus: Fall, Spring

**Home department:** School of Geography and Development

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

<sup>-</sup>SA represents a Student Abroad & Student Exchange offering

**<sup>-</sup>CC** represents a Correspondence Course offering

### GC 572: Global Biogeochemical Cycles (3 units)

**Description:** Study of processes affecting global chemical fluxes. Particular attention to current

global concerns, i.e., ozone hole, carbon cycle, climate warming, atmospheric oxidation,

hydrologic cycle.

**Grading basis:** Regular Grades

Career: Graduate

Course Components: Lecture Required

**Equivalent to:** GEOS 572, HWRS 572 **Also offered as:** GEOS 572, HWRS 572

#### GC 578: Global Change (3 units)

**Description:** Analysis of the Earth system through an examination of its component parts (particularly climate and biogeochemistry) and their interactions with human activities, emphasizing information needed to understand modern and future environmental changes. Graduate-level requirements include an in-depth written exercise and additional activities as described in the syllabus.

**Grading basis:** Regular Grades

Career: Graduate

Course Components: Lecture Required

**Equivalent to:** ECOL 578, GC 578, GEOG 578, HWRS 578, HYDR 578, RNR 578, SW 578

Also offered as: ECOL 578, GEOG 578, GEOS 578, HWRS 578, RNR 578

Course typically offered:

Main Campus: Fall

**Home department:** Geosciences

Interdisciplinary Interest Area: ECOL - Ecology & Evolution Bio

## GC 597A: Global Change Workshop (3 units)

**Description:** Integrative experience for natural and social science students with focus on local

and regional consequences of global change.

**Grading basis:** Regular Grades

Career: Graduate

Course Components: Workshop Required

Equivalent to: ANTH 597A Also offered as: ANTH 597A

#### GC 599: Independent Study (1 - 6 units)

**Description:** Qualified students working on an individual basis with professors who have agreed to supervise such work. Graduate students doing independent work which cannot be classified as actual research will register for credit under course number 599, 699, or 799.

**Grading basis:** Alternative Grading: S, P, F

Career: Graduate

**Course Components:** Independent Study Required **Repeatable:** Course can be repeated a maximum of 9 times.

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**-CC** represents a Correspondence Course offering

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

# GC 695G: Global Change Toolkit (1 unit)

**Description:** Course will provide student with a foundational background, vocabulary, and communication skills necessary for successful engagement in advanced interdisciplinary scholarly research on global change issues.

**Grading basis:** Regular Grades

Career: Graduate

Course Components: Colloquium Required

Also offered as: GEOS 695G

Recommendations and additional information: Student must be enrolled at the graduate-

level in a global-change related discipline.

Home department: Geosciences

**May Be Offered** Departments may offer this component in some semesters. See the Schedule of Classes for term-specific offerings.

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