

Course Change Request

Date Submitted: 09/30/19 4:24 pm

Viewing: **CONS 625 : Statistics for Ecology and Conservation Biology**

Last approved: 04/09/19 4:31 am

Last edit: 09/30/19 4:24 pm

Changes proposed by: choskins

Catalog Pages referencing this course: [Conservation Studies \(CONS\)](#), [Interdisciplinary Programs and Courses](#), [Smithsonian-Mason School of Conservation](#)

In Workflow

1. **CONS Director**
2. **LA Associate Dean**
3. **SC Associate Dean**
4. UN Academic Affairs Dean
5. Registrar-Courses
6. Banner

Approval Path

1. 10/02/19 11:27 am
Cody Edwards (cedward7): Approved for CONS Director
2. 10/18/19 10:37 am
Jill Bowen (jbowen4): Approved for LA Associate Dean

Select modification type: Simple

Are you completing this form on someone else's behalf? No

Effective Term: Spring 2020

Subject Code: CONS - Conservation Studies Course Number: 625

Bundled Courses:

Is this course replacing another course? No

Equivalent Courses:

Catalog Title: Statistics for Ecology and Conservation Biology

Banner Title: Stats Ecology/Conservatn Biol

Will section titles vary by semester? No

Credits: 3

Schedule Type: Lecture

Hours of Lecture or Seminar per week: 3

Repeatable: May only be taken once for credit (NR)
GRADUATE ONLY

Default Grade Mode: Graduate Regular

Recommended Prerequisite(s): Basic statistics course

Recommended Corequisite(s):

Required Prerequisite(s) / Corequisite(s) (Updates only):

Registrar's Office Use Only - Required Prerequisite(s)/Corequisite(s):

And/Or	(Course/Test Code	Min Grade/Score	Academic Level)	Concurrency?

History

1. Apr 9, 2019 by Carol Hoskins (choskins)

Registration Restrictions (Updates only):

Registrar's Office Use Only - Registration Restrictions:

Field(s) of Study:

- Class(es):** Include
 Limited to students with a class of Senior Plus. (SCRRCLS_ONLY_SP)
 Limited to students with a class of Non Degree (SCRRCLS_ONLY_ND)
 Limited to students with a class of Advanced to Candidacy. (SCRRCLS_ONLY_DC)
 Limited to students with a class of Graduate. (SCRRCLS_ONLY_GR)
- Level(s):** Include
 Enrollment limited to students with a level of Non-Degree (SCRRVLV_ONLY_ND)
 Limited to undergraduate level students. (SCRRVLV_ONLY_UG)
 Limited to graduate level students only. (SCRRVLV_ONLY_GR)
- Degree(s):** Exclude
 Non-Degree Undergraduate Degree students may not enroll. (SCRRDEG_NO_NDU)
- School(s):**

Catalog Description: **This regression-based analytical course combines lectures on theory and concepts with significant time practicing statistical tools within the R environment. The course concludes with a 2-day project session where participants work independently to conduct a full analysis of a provided dataset and present their results. This course covers: probability theory, random variables and statistical distributions, linear models, generalized linear models, model diagnostics, data transformations, visualizing results, missing data and collinearity.**

~~Provides an overview of experimental design and analysis techniques used in cutting-edge ecological research and conservation. Focuses on increasing knowledge of statistical tests, interpretation of results, and ability to disseminate and clearly explain these results. Students gain an overview of applied monitoring and analysis techniques such as distance sampling, genetic analysis, niche and species distribution modeling, and spatial analysis. Notes: Offered through the Smithsonian-Mason School of Conservation in cooperation with the Smithsonian Conservation Biology Institute on site in Front Royal, VA. Course Format: This course is taught as an intensive, mixed format (lectures and computer work) offering, in a residential full-day (8:30am-6pm), ~~1-week, 10-day or~~ 2 week session. Students complete pre-course assignments, and are graded in participation, computer exercises and a final **project/presentation.** ~~exam. Some opti Some night sessions may occur.~~~~

Justification:

Does this course cover material which crosses into another department? No

Learning Outcomes:

Attach Syllabus

Additional Attachments

Specialized Course Categories:

Additional Comments:

Reviewer Comments