Course Change Request

Date Submitted: 12/19/19 1:19 pm

Viewing: CONS 625 : Statistics for Ecology and Conservation Biology

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

Last edit: 12/19/19 1:19 pm

Changes proposed by: choskins

Catalog Pages referencing this course	Conservation Studies (CONS) Interdisciplinary Programs and Courses Smithsonian-Mason School of Conservation

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:			

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
3. 11/25/19 12:52 pm Jennifer Bazaz Gettys (jbazaz): Approved for SC Associate Dean
4. 12/02/19 9:28 am Marcy Glover (mglover2): Rollback to SC Associate Dean for UN Academic Affairs Dean
5. 12/02/19 10:02 am Jennifer Bazaz Gettys (jbazaz): Rollback to Initiator
6. 12/21/19 3:22 pm Cody Edwards (cedward7):

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?

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 (SCRRLVL_ONLY_ND)

Approved for CONS Director
7. 12/31/19 10:25 pm Jill Bowen (jbowen4): Approved for LA Associate Dean

History

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

Limited to undergraduate level students. (SCRRLVL_ONLY_UG)

Limited to graduate level students only. (SCRRLVL_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 andconservation.Focuses on increasing knowledge of statistical tests, interpretation of results, and ability to disseminate and clearly explain theseresults.Students gain an overview of applied monitoring and analysis techniques such as distance sampling, genetic analysis, niche and species distribution modeling, and spatialanalysis.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. **Some optional night sessions may occur but there is a required Saturday morning session with Sunday as a free day.** ~~Students complete pre-course assignments, and are graded in participation, computer exercises and a final exam.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

Marcy Glover (mglover2) (12/02/19 9:28 am): Rollback: As requested to fix language.

Jennifer Bazaz Gettys (jbazaz) (12/02/19 10:02 am): Rollback: Please revise the course's description, the last sentence doesn't appear to be complete.

Key: 2932