Cover Sheet: Request 15480

STA 4210 – Regression Analysis

Info

Process	Course|Modify|Ugrad/Pro
Status	Pending at PV - University Curriculum Committee (UCC)
Submitter	Demetris Athienitis athienit@ufl.edu
Created	11/18/2020 10:00:28 AM
Updated	2/1/2021 12:01:27 PM
Description of request	Include a formal (mathematical/statistical) programming course as a required elective.

Actions

Step	Status	Group	User	Comment	Updated
Department	Approved	CLAS - Statistics 16480000	Michael Daniels		11/18/2020
No document changes					
College	Approved	CLAS - College of Liberal Arts and Sciences	Joseph Spillane		2/1/2021
No document changes					
University Curriculum Committee	Pending	PV - University Curriculum Committee (UCC)			2/1/2021
No document changes					
Statewide Course Numbering System					
No document changes					
Office of the Registrar					
No document changes					
Student Academic Support System					
No document changes					
Catalog					
No document changes					
College Notified					
No document changes					

Course|Modify for request 15480

Info

Request: STA 4210 – Regression Analysis
Description of request: Include a formal (mathematical/statistical) programming course as a required elective.
Submitter: Demetris Athienitis athienit@ufl.edu
Created: 3/9/2021 1:20:08 PM
Form version: 5

Responses

Current Prefix
Enter the current three letter code (e.g., POS, ATR, ENC).

Response:
STA

Course Level
Select the current one digit code preceding the course number that indicates the course level at which the course is taught (e.g., 1=freshman, 2=sophomore, etc.).

Response:
4

Number
Enter the current three digit code indicating the specific content of the course based on the SCNS taxonomy and course equivalency profiles.

Response:
210

Lab Code
Enter the current lab code. This code indicates whether the course is lecture only (None), lab only (L), or a combined lecture and lab (C).

Response:
None

Course Title
*Enter the current title of the course as it appears in the Academic Catalog.There is a 100 character limit for course titles. *

Response:
Regression Analysis

Effective Term
Select the requested term that the course change(s) will first be implemented. Selecting "Earliest" will allow the change to be effective in the earliest term after SCNS approval. If a specific term and year are selected, this should reflect the department's expectations. Courses cannot be changed retroactively, and therefore the actual

effective term cannot be prior to SCNS approval, which must be obtained prior to the first day of classes for the effective term. SCNS approval typically requires at least 6 weeks after approval of the course change at UF.

Response:
Fall

Effective Year
Select the requested year that the course change will first be implemented. See preceding item for further information.

Response:
2021

Requested Action
Indicate whether the change is for termination of the course or any other change. If the latter is selected, all of the following items must be completed for any requested change.

Response:
Other (selecting this option opens additional form fields below)

Change Course Prefix?

Response:
No

Change Course Level?
Note that a change in course level requires submission of a course syllabus.

Response:
No

Change Course Number?

Response:
No

Change Lab Code?
Note that a change in lab code requires submission of a course syllabus.

Response:
No

Change Course Title?

Response:
No

Change Transcript Title?

Response:
No

Change Credit Hours?
Note that a change in credit hours requires submission of a course syllabus.

Response:
No

Change Variable Credit?
Note that a change in variable credit status requires submission of a course syllabus.

Response:
No

Change S/U Only?

Response:
No

Change Contact Type?

Response:
No

Change Rotating Topic Designation?

Response:
No

Change Repeatable Credit?
Note that a change in repeatable credit status requires submission of a course syllabus.

    Response:
    No

Change Course Description?
Note that a change in course description requires submission of a course syllabus.

    Response:
    No

Change Prerequisites?

    Response:
    Yes

Current Prerequisites

    Response:
    STA 3024 or STA 3032 or (STA 4321 and STA 2023) or (MAS 3114 and STA 2023) or (MAS
    4105 and STA 2023)

Proposed Prerequisites

    Response:
    STA 3100 and (STA 3024 or STA 3032 or STA 4321 or MAS 3114 or MAS 4105)

Change Co-requisites?

    Response:
    No

Rationale
Please explain the rationale for the requested change.

    Response:
    *** UPDATE 2021-03-09:
    Q: Rationale for the prereq change is unclear. Are the current course options not teaching

students what they need to know to be successful in STA 4210? What is different about STA 3100? And, why is STA 3100 not the sole prereq course? What is the rationale for also requiring STA 3024 or STA 3032 or STA 4321 or MAS 3114 or MAS 4105?

A: STA 3100 is a programming course and does not (on its own) develop the theoretical nor the methodological background needed. It merely implements the methodology of STA 2023 with command line programming software. That is why the additional courses are needed. (STA 3024 or 3032 introduce the topic of regression, STA 4321 builds the theoretical foundation, MAS 3314 or 4115 develop the linear algebra background). However, STA 4210 has recently become computationally intensive and requires programming knowledge which STA 3100 will provide.

Q: Is a curriculum change being submitted to make STA 3100 required for all STA majors?

A: STA 3100 has been added to the pool of "programming elective" options to the STA major. The goal is to make it THE ONLY programming option but are taking small steps/changes towards that…while constantly reassessing the program.

STA 4210 is a required course for STA minors, majors and DAT majors. For most students in these programs STA 4210 is often the first applied statistical course that requires a higher level of statistical programming. Extensive student feedback from student exit surveys (since 2015), personal emails as UGC, personal instructor evaluation student feedback (from STA 4210), and discussions with other faculty members has indicated that success in the course is paramount to understanding the fundamentals of basic command line coding.

1. STA 3100 - Programming with Data in R, would serve that purpose. Since STA 3100 utilizes the same programming language used by all instructors in STA 4210, it is preferred.
2. A request/report sent requiring that STA 3100 become a required course for STA minors.
3. A request /report sent adding STA 3100 to he list of programming electives for STA majors.
4. STA 2023 removed since STA 2023 is (the only) prereq to STA 3100.