



SOUTH DAKOTA BOARD OF REGENTS
ACADEMIC AFFAIRS FORMS
Authority to Offer an Existing Course

USD

Arts & Sciences/Mathematical Sciences

Institution

Division/Department

Elizabeth M Freeburg

3/19/18

Institutional Approval Signature

Date

1. Is this a request to offer an existing common course or an existing unique course (approval will change course status from unique to common)?

Common Course

Unique Course

2. Provide the complete description as it appears in the system database including pre-requisites and co-requisites.

Prefix & No.	Course Title	Credits
STAT 460/560	Time Series Analysis	

Course Description

Statistical methods for analyzing data collected sequentially in time where successive observations are dependent. Includes smoothing techniques, decomposition, trends and seasonal variation, forecasting methods, models for time series: stationarity, autocorrelation, linear filters, ARMA processes, non-stationary processes, model building, forecast errors and confidence intervals.

Pre-requisites or Co-requisites (add lines as needed, make sure to copy boxes in Pre-req and Co-req cells)

Prefix & No.	Course Title	Pre-req	Co-req
Math/STAT 481/581	Probability and Statistics	x	Choose an item.

3. Universities currently offering this course (place an "X" in the appropriate boxes):

BHSU DSU NSU SDSMT SDSU USD

4. Does Offering the Course Create FTE Implications? No

If no, Replacement of MATH 421, MATH 432 (deletion form attached)
 (prefix, number, name of course, credits)

Effective Date of Deletion: Click here to enter a date.

5. Does Offering the Course Create Schedule Management Implications? Yes

Explain: Course management to optimize faculty resources and course offerings to make sure they meet the 4-7-10 enrollments are being considered

6. Existing program(s) in which course will be offered: Stats minor

7. CIP Code for the course: 27.0501

8. Proposed instructional method by this university: Discussion/recitation

9. Proposed delivery method by this university: Face to face

10. University Dept. Code: UMATH

11. Authority to offer effective beginning in what term?

Fall 2018

12. Section Restriction: None

From: Cogswell, Kurt
Sent: Wednesday, November 22, 2017 11:23 AM
To: Van Peurse, Dan
Subject: RE: courses

Hi Dan,

Sure, that's fine.

Do you have everybody home for Thanksgiving? Hope you're all having a good one.


Kurt

From: Van Peurse, Dan [<mailto:Dan.VanPeurse@usd.edu>]
Sent: Wednesday, November 22, 2017 9:35 AM
To: Cogswell, Kurt <Kurt.Cogswell@SDSTATE.EDU>
Subject: courses

Hi Kurt,

I was wondering if you would be willing to let us offer STAT 445 and STAT 460 down here. We have been looking at the curriculum and need to do something for more students wanting a STATS minor down here. Thanks for considering. Hope you have a great Thanksgiving break my friend.

Dan



Thu 1/18/2018 5:10 PM
Cogswell, Kurt
RE: Stats Courses

To Van Peurse, Dan

i You replied to this message on 1/18/2018 7:18 PM.

Hi Dan,

I suppose roaring is one way to describe it. I hope you're off to a good start there in the balmy south.

The course you describe doesn't match up with anything that we teach, so sounds like a new course to me! Whatever number isn't already in use is fine with me. Seems like STAT course numbers really should be random variables....

Kurt

From: Van Peurse, Dan [<mailto:Dan.VanPeurse@usd.edu>]
Sent: Thursday, January 18, 2018 2:49 PM
To: Cogswell, Kurt <Kurt.Cogswell@SDSTATE.EDU>
Subject: Stats Courses

Hi Kurt,

Hope you are off to a roaring start up north. I appreciate you turning up the thermostat a bit over last week. I know I had e-mailed you earlier and you had no issues with us offering your common courses STATS 445/545 Non-Parametric Stats or STATS 460/560 Time Series Analysis. The one other course we'd like to make permanent is a topics course we have been running the past several years and it had the following topics: Inference on population means and variances; Multiple Comparison; Categorical Data Analysis; Multiple Regression Model and General Linear Models; Basic Exploratory Data Analysis; R program Implementations. I don't think the topics match 100% of any currently offered course but I'm happy to use a current course if you recommend one. The other question would be if we create a new course on it, are there any numbers you are currently considering that I should shy from. Time for me to start actually filling out the paperwork☺

Thanks
Dan

Course #	Title	Spr15	Fa15	Spr16	Fa16	Spr17	Fa17	Spr18	Fa18	Spr 19	Fa19	Spr 20	Fa 20	Spr 21	Fa 21	Spr 22	Fa 22
Math 216	Discrete Structures		1		1		1		1		1		1		1		1
Math 321	Differential	1		1		1		1		1		1		1		1	
Math 341	Concepts I	1	2	1	2	1	2	1	1	1	1	1	1	1	1	1	1
Math 342	Concepts II	2	1	2	1	2	1	2	1	1	1	1	1	1	1	1	1
Math 351	Foundations	1		1		1		1		1		1		1		1	
Math 361	Geometry	1		1		1		1		1		1		1		1	
Math 411	Number Theory			1	Discontinued Course												
Math 412	Linear		1		1		1		1		1		1		1		1
Math 413	Abstract I		1		1		1		1		1		1		1		1
Math 414	Abstract II			1				1				1				1	
Math 416	Combinatorics				1			1				1					1
Math 421	Complex Analysis			1	Discontinued Course												
Math 423	Adv. CalcI		1		1		1		1		1	1		1		1	
Math 424	Adv. CalcII	1				1				1					1		
Math 432	PDE's		1	1 Discontinued Course													
Math 492	Topics in Applied Math											1					1
STAT 445	Non-Parametric Stats										1				1		
STAT 460	Time Series Analysis										1				1		
Math 471	Num Anal I	1				1				1				1			
Math 475	OR						1				1				1		
Math 481	Prob and Stats				1				1				1				1
Math 488	Capstone		1			1		1		1		1		1		1	
STATS 486	Applied Statistics				1			1				1				1	
Math 713	Algebra I				1			1					1				1
Math 714	Algebra II	1				1				1				1			
Math 721	Complex Variables			1				1				1					1
Math 723	Real Variables		1				1				1				1		
Math 724	Real Variables II			1				1				1					1
Math 731	PDE's		1				1				1				1		
Math 735	Mathematical Modeling	1				1				1				1			
Math 761	Introduction to Topology				1				1				1				1
								10	11	9	12	9	11	10	12	9	
								total with calc				14	15	15	16	14	