

# Program Change Request

Date Submitted: 10/15/18 1:52 pm

Viewing: **BS-STAT : Statistics - BS**

Last approved: 04/27/18 1:36 pm

Last edit: 11/08/18 8:29 pm

Changes proposed by: twehrly

Catalog Pages Using [Statistics - BS](#)  
this Program

## In Workflow

1. **STAT Department Head**
2. **Curricular Services Review**
3. **SC Committee Preparer UG**
4. **SC Committee Chair UG**
5. **SC College Dean UG**
6. **UCC Preparer**
7. **UCC Chair**
8. **Faculty Senate Preparer**
9. Faculty Senate
10. Provost II
11. President
12. Curricular Services

## Contact(s)

Name	E-mail	Phone
Michael Longnecker	<a href="mailto:longneck@tamu.edu">longneck@tamu.edu</a>	979-845-3141
Thomas Wehrly	<a href="mailto:twehrly@stat.tamu.edu">twehrly@stat.tamu.edu</a>	979-845-3141

Academic level Undergraduate

Effective Term 2019-2020

Department Statistics

College Science

Program type Degree

Degree designation BS - Bachelor of Science

With a major in Statistics (STAT)

Associated Program **Not Applicable**

Catalog Program Title  
Statistics - BS

CIP and Fund code 27050100

## Rationale for Proposal

**Changed Footnote 1 to reflect changes in course numbers for Chemistry and Physics. Changed Footnote 5 to include two additional Mathematics electives. Changed Footnote 4 to reflect the requirement of 3 hours of CD and 3 hours of ICD courses. Moved STAT 182 (1 hour) from Spring of Year 1 to Fall of Year 1. These changes are reflected in the attached degree evaluation. Also, in Rule C in Supporting Courses, ISEN 320 was changed in the degree evaluation to ISEN 350 to match the catalog requirement. 04.27.2018—edits made to program to remove CHEM 103, 113, 104 and 114 which have been inactivated effective Fall 2018.—sw**

Program hours **120**

Is this program eligible for financial aid? **Yes**

Will program hours change (increase/decrease) due to the proposed curriculum changes? No

Program delivery mode **On-campus**

## Approval Path

1. 10/09/18 10:15 am  
Michael Longnecker (longneck): Approved for STAT Department Head
2. 10/09/18 12:49 pm  
Angel Mario Carrizales (carri1214): Rollback to Initiator
3. 10/10/18 3:09 pm  
Michael Longnecker (longneck): Approved for STAT Department Head
4. 10/12/18 3:42 pm  
Angel Mario Carrizales (carri1214): Rollback to Initiator
5. 10/15/18 1:40 pm  
Michael Longnecker (longneck): Rollback to Initiator
6. 10/15/18 1:54 pm  
Michael Longnecker (longneck): Approved for STAT Department Head
7. 10/18/18 10:52 am  
Angel Mario Carrizales (carri1214): Approved for Curricular Services Review
8. 10/22/18 2:29 pm  
Sara Thigpin (sarathigpin): Approved for SC Committee Preparer UG
9. 10/22/18 4:21 pm  
Lucas Macri (lmacri): Approved for SC Committee Chair UG

## Catalog Program Requirements

10. 10/22/18 4:21 pm  
Lucas Macri (lmacri):  
Approved for SC College  
Dean UG
11. 10/23/18 7:59 am  
Sandra Williams  
(sandra-williams):  
Approved for UCC  
Preparer
12. 11/05/18 3:16 pm  
Sandra Williams  
(sandra-williams):  
Approved for UCC Chair

## History

1. Apr 27, 2018 by Sandra  
Williams (sandra-  
williams)

The following is a suggested schedule that includes the required courses for the BS in Statistics. It is recognized that many students will change the sequence and number of courses taken in any semester. Deviations from the prescribed course sequence, however, should be made with care to ensure that prerequisites for all courses are met.

### Plan of Study Grid

#### First Year

		Semester Credit Hours
Fall		
<a href="#">ENGL 104</a>	Composition and Rhetoric	3
<a href="#">MATH 171</a>	Analytic Geometry and Calculus	4
<a href="#">STAT 182</a>	<b>Foundations of Statistics</b>	<b>1</b>
<a href="#">American history</a>		3
Science elective 1		4
	Semester Credit Hours	15

#### Spring

<a href="#">MATH 172</a>	Calculus	4
<del><a href="#">STAT 182</a></del>	<del>Foundations of Statistics</del>	<del>1</del>
<a href="#">American history</a>		3
Computer science elective 2		4
Science elective 1		4
	Semester Credit Hours	15

#### Second Year

Fall		
<a href="#">MATH 221</a>	Several Variable Calculus	4
<a href="#">POLS 206</a>	American National Government	3
<a href="#">STAT 211</a>	Principles of Statistics I	3
Communication requirement 3		3
Science elective 1		3
	Semester Credit Hours	16

#### Spring

<a href="#">MATH 304</a>	Linear Algebra	3
or <a href="#">MATH 323</a>	or Linear Algebra	
<a href="#">POLS 207</a>	State and Local Government	3
<a href="#">STAT 212</a>	Principles of Statistics II	3
Computer science elective 2		4
Elective hours 4		3
	Semester Credit Hours	16

#### Third Year

Fall		
<a href="#">STAT 404</a>	Statistical Computing	3
<a href="#">STAT 414</a>	Mathematical Statistics I	3
Mathematics elective 5		3
Outside specialization elective 6		3
Elective hours 4		3
	Semester Credit Hours	15
Spring		
<a href="#">STAT 408</a>	Introduction to Linear Models	3

<a href="#">STAT 415</a>	Mathematical Statistics II	3
	Outside specialization elective 6	3
	Elective hours 4	6
	Semester Credit Hours	15
Fourth Year		
Fall		
<a href="#">STAT 406</a>	Design and Analysis of Experiments3	3
	Mathematics or Statistics elective 5,7	3
	Statistics elective 7	3
	Outside specialization elective 6	3
	Elective hours 4	3
	Semester Credit Hours	15
Spring		
<a href="#">STAT 482</a>	Statistics Capstone	3
	Statistics elective 7	3
	Outside specialization elective 6	3
	Elective hours 4	4
	Semester Credit Hours	13
	Total Semester Credit Hours	120

1 Two lower-level science courses are to be selected from [ASTR 111](#); [BIOL 111](#); [BIOL 112](#); [CHEM 119](#); [CHEM 120](#); [PHYS 206/PHYS 226](#); [PHYS 207/PHYS 227](#). A [third science course](#) is to be selected from any course satisfying the life and physical sciences requirement for the University Core Curriculum.

2 Select 8 hours from [CSCE 110](#), [CSCE 111](#), [CSCE 121](#), or [CSCE 206](#).

3 Select 3 hours from [COMM 203](#), [COMM 205](#), or [COMM 243](#), which fulfills the [communication](#) requirement for the [University Core Curriculum](#).

4 Three elective hours must be chosen from the approved University Core Curriculum list for [language, philosophy and culture](#), three elective hours must be chosen from the approved University Core Curriculum list for [creative arts](#), and three elective hours must be chosen from the approved University Core Curriculum list for [social and behavior sciences](#). In addition, 3 hours must be in the area of [cultural discourse](#), and 3 hours of courses must be in the area of [international and cultural diversity](#). These may be in addition to University Core Curriculum courses, or if a course in this category satisfies an area of the Core, it can be used to meet both requirements.

5 Students must take at least one course from the following courses: [MATH 220](#), [MATH 302](#), [MATH 308](#), [MATH 409](#), [MATH 410](#), [MATH 417](#) or [MATH 437](#), [MATH 442](#), [MATH 446](#), [MATH 447](#), [MATH 469](#), [MATH 470](#), [ISEN 320](#), [ISEN 340](#), [ISEN 355](#). The student must take a total of at least 12 hours of mathematics and statistics elective courses.

6 Students must take 12 hours in an outside specialization area upon approval by a departmental advisor. At least 6 hours must be upper level hours.

7 Students must take at least two courses from the following courses: [STAT 407](#), [STAT 426](#), [STAT 436](#), [STAT 438](#), [STAT 445](#), [STAT 446](#), [STAT 459](#), [STAT 485](#), [STAT 489](#), [STAT 491](#), [ISEN 350](#). The student must take a total of at least 12 hours of mathematics and statistics elective courses.

If ~~\*~~ a grade of D or F is earned in any of the following courses, [MATH 151/MATH 171](#), [MATH 152/MATH 172](#), [MATH 221/MATH 251/MATH 253](#), [MATH 220](#), [MATH 304/MATH 323](#), [STAT 211](#), or [STAT 212](#), this course must be immediately retaken and a grade of C or better earned. The department will allow at most two D's in upper-level (325-499) courses. If a third D is earned, one of the three courses in which a D was earned must be retaken and a grade of C or better earned.

Additional information ~~04-27-2018 - edits made to program to remove CHEM 103, 113, 104 and 114 which have been inactivated effective Fall 2018. -sw~~

Required Proposal Forms [BS-STAT\\_Statistics - degree evaluation.pdf](#)

Reviewer Comments

**Angel Mario Carrizales (carri1214) (10/09/18 12:05 pm):** Edits made to conform to catalog style guidelines.

**Angel Mario Carrizales (carri1214) (10/09/18 12:49 pm):** Rollback: Per per departments request. Also please upload an edited degree evaluation reflecting the proposed curriculum changes for 2018-2019.

**Angel Mario Carrizales (carri1214) (10/12/18 3:42 pm):** Rollback: The submitted evaluation is in a word document. Please generate a blank degree evaluation from Howdy, print it, make handwritten edits and upload as a pdf.

**Michael Longnecker (longneck) (10/15/18 1:40 pm):** Rollback: Make necessary changes

**Angel Mario Carrizales (carri1214) (10/18/18 10:52 am):** Initial concerns addressed.

**Sandra Williams (sandra-williams) (11/05/18 3:16 pm):** UCC approved November 2018.

Key: 430


[Print](#)

# Detail Requirements

Thomas Wehrly  
Oct 15, 2018 11:34 am

Viewing: Degree Evaluation (DEGEVAL, , Email)  
Change Student  
Return to Graduate Committee Student Selection

## Information for Degree Evaluation

 This is NOT an official evaluation.

## Print Instructions

### Program Evaluation

- Limitation Correspondence:** No more than 12 hours of correspondence earned through an accredited institution may be used for an undergraduate degree.
- Limitation Combination:** Maximum combination of 18 hours of 481, 482, 485 and/or 491 courses may be used for an undergraduate degree.
- Limitation** No more than 50% of courses required for the degree plan can be taken as Distance Education Courses for non-distance degree programs.
- Limitation** Maximum of 4 hours of CHEM 101, 103, 111, 113 may be used in this degree program.
- Limitation** Maximum of 4 hours of CHEM 102, 104, 112, 114 may be used in this degree program.
- Limitation** Only one of the following will satisfy the requirements for a degree: GENE 301, GENE 302, GENE 315, and GENE 320.
- Limitation** Only one of the following will satisfy the requirements for a degree: MATH 131, MATH 142, MATH 147, MATH 151, and MATH 171.
- Limitation** Only one of the following will satisfy the requirements for a degree: MATH 140, MATH 141, and MATH 166.
- Limitation** Only one of the following will satisfy the requirements for a degree: MATH 148, MATH 152, and MATH 172.
- Limitation** Only one of the following will satisfy the requirements for a degree: MATH 221, MATH 251, and MATH 253.
- Limitation** Only one of the following will satisfy the requirements for a degree: MATH 304, MATH 309, MATH 311, and MATH 323.
- Limitation** Only one of the following will satisfy the requirements for a degree: STAT 301, STAT 302, and STAT 303.

<b>Program :</b>	BS STAT	<b>Catalog Term :</b>	Summer 2018 - College Station
<b>Campus :</b>	College Station	<b>Evaluation Term :</b>	Fall 2018 - College Station
<b>College :</b>	Science	<b>Expected Graduation Date :</b>	
<b>Degree :</b>	Bachelor of Science	<b>Request Number :</b>	14
<b>Level :</b>	Undergraduate	<b>Results as of :</b>	Oct 15, 2018
<b>Majors :</b>	Statistics	<b>Minors :</b>	
<b>Departments :</b>	Statistics	<b>Concentrations :</b>	

	Met	Credits	Courses		
		Required	Used	Required	Used
<b>Total Required :</b>	No	120.000	0.000		0
<b>Program GPA :</b>	Yes	.00	.00		
<b>Overall GPA :</b>	No	2.00	.00		
<b>Other Course Information</b>					
<b>Transfer :</b>			0.000		0

This is NOT an official evaluation.

### Area Major Coursework ( 25.000 credits ) - Not Met

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
No		A.	STAT 182	1hr											
No	AND	B.	STAT 211	3hrs											
			Must make a grade of 'C' or better.												
No	AND	C.	STAT 212	3hrs											
			Must make a grade of 'C' or better.												
No	AND	D.	STAT 404	3hrs											
No	AND	E.	STAT 406	3hrs											
No	AND	F.	STAT 408	3hrs											
No	AND	G.	STAT 414	3hrs											

No AND H. STAT 415 3hrs  
 No AND I. STAT 482 3hrs

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Supporting Coursework ( 32.000 credits ) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	Computer Science Elective	8hrs												
			Select from CSCE 110, 111, 121, 206.													
No	AND	B.	Mathematics Elective	3hrs												
			Select from ISEN 320, 340, 355; MATH 220, 308, 409, 410, 417, 442, 446, 447, 469, 470.													
No	AND	C.	Statistics Elective	6hrs												
			Select from ISEN 320, STAT 407, 426, 436, 438, 445, 446, 459, 485, 489, 491.													
No	AND	D.	Math. or Stat. Elective	3hrs												
			Select 3hrs from Rule B or C not already used.													
No	AND	E.	Specialization Elective	12hrs												
			See advisor for approved list.													

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Communication ( 6.000 credits ) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	ENGL 104	3hrs												
No	AND	B.	Communication Reqmt	3hrs												
			Select from COMM 203, 205, 243.													

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Mathematics ( 15.000 credits ) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	MATH 171	4hrs												
			Must make a grade of 'C' or better.													
No	AND	B.	MATH 172	4hrs												
			Must make a grade of 'C' or better.													
No	AND	C.	MATH 221	4hrs												
			Must make a grade of 'C' or better.													
No	AND	D.	MATH 304 or Math 323	3hrs												
			Must make a grade of 'C' or better.													

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Life and Physical Sciences ( 11.000 credits ) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
No		A.	Science Reqmt	8hrs												

Select from ASTR 111; BIOL 111, 112; CHEM 107, 111 or 101113, 102, 112 or 101, 114; PHYS 208, 218

119, 120;  
206/226, 207/227;

No AND

B. Science Elective 3hrs

Select any course with the [KLPS] attribute.

Total Credits and GPA 0.000 .00

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**Area Language, Philosophy & Culture ( 3.000 credits ) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Lang, Phil, Culture Rqmt 3hrs

Select any course with the Language, Philosophy and Culture attribute [KLPC].

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Creative Arts ( 3.000 credits ) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Creative Arts Requirement 3hrs

Select three hours from any course with the Creative Arts attribute [KCRA].

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Social and Behavioral Sciences ( 3.000 credits ) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. Social Science Rqmt 3hrs

Select from courses with the Social and Behavioral Science attribute [KSOC].

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area : Citizenship ( 12.000 credits ) - Not Met**

**Description** Completion of 4 semesters of Upper-Level ROTC may be substituted for 3 hours of American History and 3 hours of Political Science.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. American History Rqmt 6hrs

Select from any course with the [KHIS] attribute.

No AND B. Political Science Rqmt 6hrs

Take POLS 206 and POLS 207.

Total Credits and GPA 0.000 .00

unofficial evaluation

**Area General Electives ( 10.000 credits ) - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course	Title	Attribute	Credits	Grade	Source
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No A. General Electives 10hrs

Select from any 100-499 course not used elsewhere.

Total Credits and GPA 0.000 .00

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**Area :** Work Not Applied - Met

**Description** See advisor for acceptable substitutions.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
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No		A.	Courses not applied												
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Total Credits and GPA 0.000 .00

unofficial evaluation

**Area University Writing Requirement - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
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No		A.	Writing Requirement Two courses required. Only sections of STAT 100-499 with the Writing attribute [UWRT] or the Oral Communication attribute [UCRT] may be used to satisfy this requirement.												
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Total Credits and GPA 0.000 .00

unofficial evaluation

**Area Int'l & Cult Diversity - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
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No		A.	Int'l & Cultural Diversity <sup>3</sup> hr Select from courses with the International and Cultural Diversity attribute [UICD] (except sections of BUSN 289 with the UWRT attribute).												
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Total Credits and GPA 0.000 .00

*Cultural Discourse : 3hr*

unofficial evaluation

**Area Foreign Language - Not Met**

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
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No		A.	Foreign Language Rqmt Complete one of the following: 1. Two years of the same foreign language in High School. 2. A two semester sequence of the same foreign language for University credit.												
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Total Credits and GPA 0.000 .00

unofficial evaluation

**Area :** Residence Requirement - Not Met

**Description** A minimum of 36 hours of 300-400 level coursework must be completed at Texas A&M University. 12 hours must be in the major field.

Met	Condition	Rule	Subject	Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
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No		A.	Residence - Major 12hrs												
No	AND	B.	Residence 300-499 24hrs												

Total Credits and GPA 0.000 .00

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**Area :** GPR-Major - Not Met

**Description :** A GPR of 2.00 must be maintained in all major field courses.

Met	Condition Rule	Subject Attribute	Low	High	Required Credits	Required Courses	Term	Subject	Course Title	Attribute	Credits	Grade	Source
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No	A.	Major GPR 25+											
		Includes STAT 100-499.											

Total Credits and GPA 0.000 .00

unofficial evaluation

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