

**Senate Policy 25-11
B.S. in Statistics**

Motion: To approve the B.S. in Statistics

Passed at the February 23, 2026 meeting of the Academic Senate



[Christina Smith \(Apr 11, 2026 16:07:04 PDT\)](#)

Christina Smith, PhD
Chair, Academic Senate

04/11/2026

Date



Francelina Neto, PhD
AVP of Academic Programs and Continuous Improvement

04/12/2026

Date



[Jessica Lavariega Monforti \(Apr 13, 2026 09:46:56 PDT\)](#)

Jessica Lavariega Monforti, PhD
Provost

04/13/2026

Date



Sue Andrzejewski, PhD
Interim President

04/27/2026

Date

Statistics B.S.

2b. Long Form - New Program Curriculum Proposal

General Catalog Information

ALL submissions must meet the New Program Implementation Timeline. Timelines for all approval processes can be found on the [Academic Programs website](#).

**** Instructions: read before beginning ****


Note: For more detailed instructions, go to [Resources](#).

1. FILL IN all required fields marked with an *. You will not be able to launch proposal without completing required fields.


2. For help with the curriculog icons, click on  icon in top right corner of form, next to your name.

3. As you add the information to this proposal "Save all Changes" as you move along.


4. For additional information to be uploaded to this proposal, upload it using the Files tab to the right side of the

 form, click on  to attach and upload the file. Do not include links in any fields and/or attached documents.

Note: information provided through this proposal is vital for the entire campus to be able to effectively implement it; thus, all fields must be completed before you approve proposal; if this does not happen, be aware proposal may be returned to you for completion from any step in approval process, before it's allowed to move forward.

5. Validate and launch proposal by clicking on the Launch and Validate icon  in the top left corner or at the bottom of the page in this form. Curriculog will state: This proposal has moved on. This proposal moved on in the workflow. This statement means that the proposal is now visible to all Curriculog users. You, as the proposer, still need to MAKE your DECISION in order to send this proposal to Program Chair (next step in process).

6. MAKE your DECISION, approve/reject/hold/suspend/custom route the proposal by clicking on the Decision

 icon in the Toolbox on the right side of the form. Once approved, proposal will move to next step in process.

Every effort will be made to include your proposal in the earliest possible catalog, and inclusion is based on the timeliness of the approval process and is not guaranteed.

Select "*Program*" below.

Program Type (select "Program"):
 Program
 Shared Core

Choose which Local Curriculum Committee program will be reviewed by. If unsure, view which disciplines are reviewed by which LCC on [LCC Prefix List](#).

Local Curriculum Committee: *

New Degree Proposal - Bachelor's and Master's Program

Complete documents below, they can be found and downloaded from the CSU site: **Develop a New Program**. Submit documents below here in Curriculog by uploading under the paperclip icon located on the right area of form. Provide all information required by the CSU Chancellor's Office. **Your completed submission MUST include all the documents listed below in addition to any letters and documents requested in the CSU New Degree Proposal (Bachelor's and Master's) form.**

Template - New Degree Proposal (Bachelor's and Master's)

Program Assessment Plan Template (more information can be found by contacting the Faculty Director of Assessment and Program Review)

Curriculum Map Sample Template

Substantive Change Screening Form (WSCUC - formerly WASC) proposer needs to contact the AVP of Academic Programs and Continuous Improvement/Accreditation Liason Officer (ALO) to submit this form - **LINK to download the form.**

Comprehensive Budget Pro-Forma

Courses must either already exist or new course proposals must be submitted in Curriculog for concurrent review

Note: if program is planned to be offered through Extended University, contact **andrea.skinner@csuci.edu** for additional documents.

For additional resources, you may access Chancellor's Office website here:

csyou.calstate.edu/Divisions-Orgs/academic-affairs/academic-program-planning-development-and-submission/Pages/Develop-a-New-Program.aspx

New Degree Proposal - Doctoral Programs

Complete all documents and items found in the [Guidance - New Degree Proposal \(Doctoral Programs\)](#) found in the [Chancellor's Office website](#). Submit documents in Curriculog by uploading under the paperclip icon located on the right area of form. Provide all information required by the CSU Chancellor's Office. Your completed submission MUST include all the documents listed below in addition to any letters and documents requested in the [Guidance - New Degree Proposal \(Doctoral Programs\)](#).

Template: Degree Program (Doctoral) (On-ground or Distance Education)

Information not specifically requested in WSCUC Template: Degree Program (Doctoral) (On-ground or Distance Education)

Comprehensive Budget Pro-Forma

Substantive Change Screening Form (WSCUC - formerly WASC) proposer needs to contact the AVP of Academic Programs and Continuous Improvement/Accreditation Liason Officer (ALO) to submit this form - [LINK to download the form](#).

Courses must either already exist or new course proposals must be submitted in Curriculog for concurrent review

Note: if program is planned to be offered through Extended University, contact andrea.skinner@csuci.edu for additional documents

For additional resources, you may access Chancellor's Office website here:

<https://www.calstate.edu/app/program>

Department/Unit:*

Mathematics and Data Science Department

Where is this program being housed? Choose all that apply*

State Supported
 Self Supported = Extended University

If Self-Support/Extended University, did you discuss your proposal with the Dean prior to this submission?*

Yes
 No
 N/A

Degree Designation (e.g., Bachelor of Arts):*

Bachelor of Science

Title:* Statistics B.S.

Program Description:* The Bachelor of Science in Statistics prepares students to apply mathematical and statistical reasoning to complex, real-world problems. The program emphasizes mathematical modeling, computational methods, and data-driven decision-making through coursework in probability, statistical inference, regression, experimental design, and machine learning. Students gain proficiency in statistical programming, data visualization, and predictive analytics, and learn to communicate results through clear, informative reports and digital media. Graduates are equipped to synthesize abstract concepts, evaluate patterns in data, and construct models that explain variability and inform evidence-based solutions across diverse fields.

Desired Term and Year of Implementation

Term* Fall

Year*

2027-2028 Academic Year

Is this the same term and year as approved in original AMP?* Yes No

Follow steps below to create Curriculum Schema found in Prospective Curriculum section:



Go to [Resources](#) for the detailed step-by-step instructions on how to create the curriculum schema.

First, ALL courses involved in New Program Proposal must be added (new courses) and/or imported (existing), Second, Curriculum Schema must be created by adding Cores (e.g.: Requirements, Required Core, Electives, Pre-requisites, etc.) and populating with added or imported courses.

Step 1. Adding and/or Importing Courses

Click on  "View Curriculum Schema" icon. There are two options to add courses to New Program: "Add Course" and "Import Course." For new courses in Curriculog Approval Process, click on "Add Course." A dialog box will open asking for Prefix, Course Number, and Course Title. All new courses must have New Course Proposal Form submitted prior to completing this step. For courses already in Catalog, click on "Import Course" and find needed courses.

Step 2. Creating Curriculum Schema

Click on  "View Curriculum Schema" icon. Then, click on Add Core or Import Core. Next, click on New Core, complete Title field for core (e.g.: Electives), and "Description" field If applicable. Click on Add Courses. This will bring up course list created in Step 1. Select courses you wish to add and click "Add Course." To remove courses, click on  icon and proceed.

Step 3. Preview Program as it will show in University Catalog

To see what the program will look like when exported to the University Catalog click on the Preview Curriculum

icon 

Lower Division Requirements - 23 units

DATA 200 Introduction to Data Science	3
DATA 213 Programming for Data Science	3
MATH 150 Calculus I	4
MATH 151 Calculus II	4
MATH 230 Logic and Mathematical Reasoning	3
MATH 240 Linear Algebra	3
MATH 250 Calculus III	3

Upper Division Requirements - 25 units

DATA 308 Applied Statistical Modeling	
DATA 347 Data Ethics	
MATH 310 Transition to Higher Mathematics	3
MATH 351 Real Analysis	3
MATH 353 Probability Theory	
MATH 408 Machine Learning	3
MATH 453 Mathematical Statistics	3

Complete one of the following sequence - 4 units

DATA 491 Capstone Preparation	
DATA 499 Data Science Capstone	3

OR

MATH 499 Senior Colloquium	1
DATA 492 Internship in Data Science	

Upper Division Elective Requirements - 9 units

BIOL 432 Principles of Epidemiology and Environmental Health	3
COMP 420 Database Theory and Design	3
COMP 469 Introduction To Artificial Intelligence	3
DATA 300 Introduction to Data Management	3
DATA 426 Statistical Computing	3
MATH 300 Discrete Mathematics	3
MATH 350 Differential Equations and Dynamical Systems	3
MATH 398 Advanced Research Investigations	3
MATH 429 Operations Research	3
MATH 445 Image Analysis and Pattern Recognition	3
MATH 448 Scientific Computing	3
MATH 450 Partial Differential Equations and Mathematical Physics	3
MATH 451 Complex Analysis	3
MATH 490 Topics in Modern Mathematics	3
MIS 320 Business Data Analytics and Visualization	3
ESRM 328 The Why of Where: Foundations in GIS	3
ESRM 433 Satellites to Sensors: Remote Sensing of the Environment	3
COMP 478 Introduction To Data Mining	3
PSY 333 Measurement and Testing of Groups and Individuals	3
PSY 482 Intermediate Statistics	3
PSY 483 Applied Multivariate Analyses	4

List all courses & their units that are prerequisite to major:*

N/A

Admission requirements for graduate programs: (if undergraduate program enter N/A)*

N/A

Will any component of this program contribute to studies related to: (choose as many as apply)*

- Mission Pillars
- Sustainability
- Justice, Diversity, Equity, Inclusion
- "4+1"/Blended Programs
- N/A

Articulation & Transfer Model Curricula (TMC)

Find info regarding Transfer Model Curricula (TMC) here: <https://c-idsystem.org/transfer-efforts/>. Questions regarding articulation and TMCs should be directed to the **University Articulation Officer**.

Find general info regarding California Senate Bill 1440 & Associate Degrees for Transfer (ADTs) here: <https://transferprograms.calstate.edu/associate-degree-transfer>.

- Major could be similar to a Transfer Model Curriculum (TMC):**
- Yes (contact the University Articulation Officer)
 - No
 - Unsure (contact the University Articulation Officer)

If answer to above is yes, list TMC title:

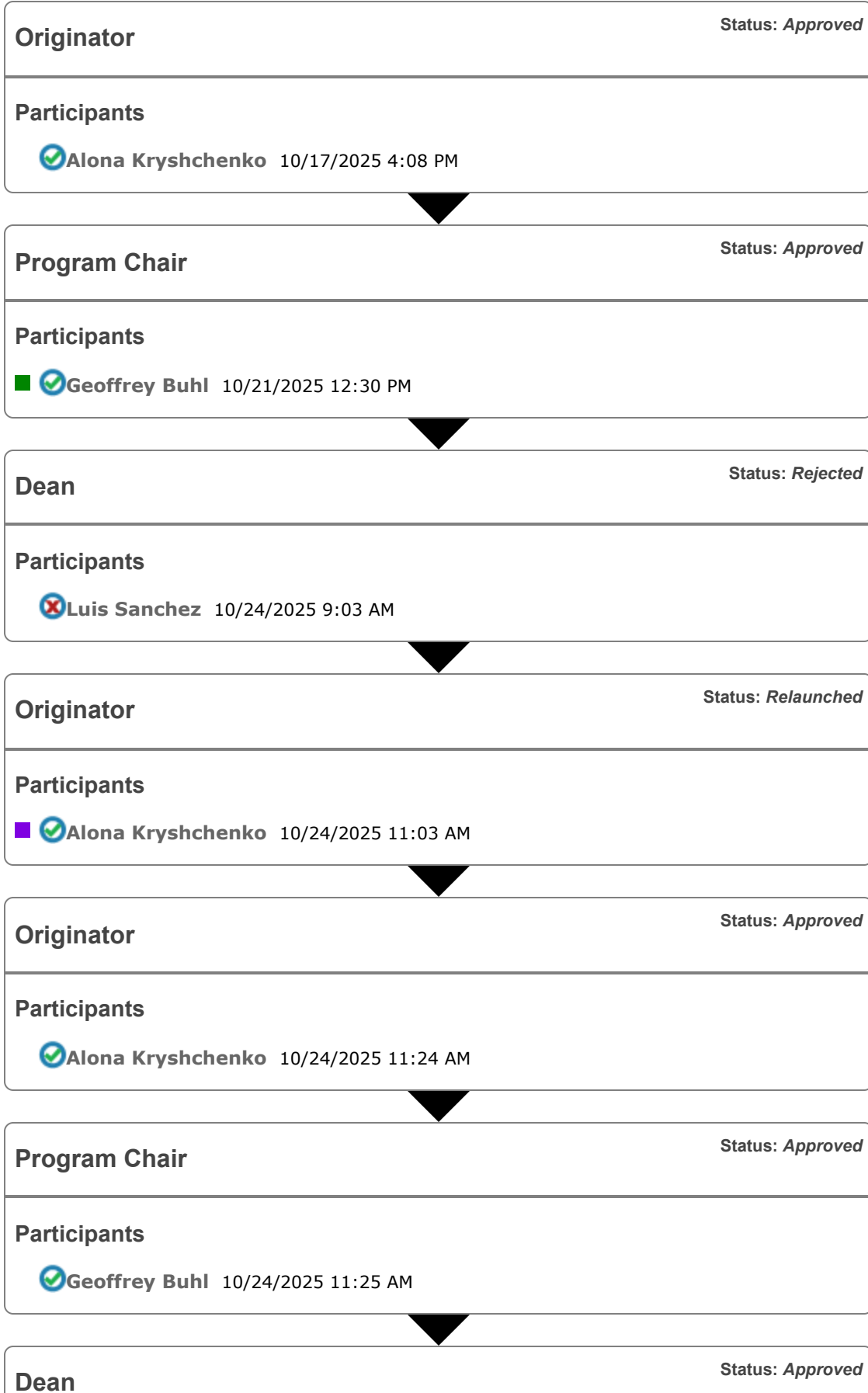
- Bachelor's and Master's Submission Approval Checklist:**
- Complete Template - New Degree Proposal (Bachelor's and Master's)
 - Complete Assessment Plan Template
 - Complete Curriculum Map Sample Template
 - Substantive change screening form (WSCUC - formerly WASC) - contact the AVP APCI/ALO to submit the form
 - Comprehensive Budget Pro-Forma
 - All new courses submitted in Curriculog/Curriculum
 - 2-year and 4-year Roadmaps
 - Program Flowchart

- Doctoral Program Submission Approval Checklist:**
- Review the Guidance - New Degree Proposal (Doctoral Programs) document
 - Complete the Template: Degree Program (Doctoral) (On-ground or Distance Education)
 - Substantive change screening form (WSCUC - formerly WASC) - contact the Vice Provost to submit the form
 - Degree Roadmap
 - All new courses submitted in Curriculog/Curriculum
 - Information not specifically requested in WSCUC Template: Degree Program (Doctoral) (On-ground or Distance Education)

Notes (optional):

DO NOT USE No DO NOT USE

Steps for Statistics B.S.



Participants

 Luis Sanchez 11/3/2025 1:34 PM

Mathematics & Sciences Local Curriculum Committee

Status: *Approved*

Participants

▲ **Mathematics & Sciences Local Curriculum Committee**

 Ruben Alarcon * 11/18/2025 5:01 PM

GE Committee

Status: *Approved*

Participants

▲ **GE Committee**
[GE Fall 2025 New Program Proposals](#)

 Marie Francois * 12/19/2025 3:43 PM

AVP of Academic Programs & Planning

Status: *Approved*

Participants


 Francelina Neto 12/20/2025 7:40 PM

Academic Programs & Planning Committee

Status: *Approved*

Participants

▲ **Academic Policy & Planning Committee**

 Annie White * 1/22/2026 3:02 PM

Academic Programs Technical Review

Status: *Approved*



Participants

 Kristen Dobson 2/2/2026 2:13 PM

Academic Programs Catalog Review

Status: *Approved*

Participants

-  Taryn McHugh 2/3/2026 9:55 AM
-  Andrea Skinner 2/3/2026 8:34 AM

Academic Senate

Status: *Approved*

Participants

-  Christina Smith 2/23/2026 7:12 PM

Provost

Status: *Approved*

Participants

-  Jessica Lavariega Monforti 2/26/2026 6:48 AM

President

Status: *Approved*

Participants

-  Susan Andrzejewski 3/25/2026 8:21 AM

Catalog Implementation

Status: *Approved*

Participants

-  Andrea Skinner 4/9/2026 3:37 PM