REQUEST TO ADD AN UNDERGRADUATE ACADEMIC CERTIFICATE PROGRAM AND/OR REQUEST FOR RECOGNITION ON THE UNIVERSITY TRANSCRIPTS

1. **Type of Proposal**  
   - [ ] New Certificate Program (requiring THECB notification only)  
   - [X] Change an Existing Certificate Program  
   - [ ] Delete a Program

**Proposed classification**  
- [X] Exclusive  
- [ ] General  
- [ ] Major

2. **THIS PROPOSAL INVOLVES** (Please check all that apply)  
   - [ ] Courses in other colleges  
   - [ ] Courses in proposer’s college that are frequently taken by students in other colleges  
   - [ ] Course in the core curriculum  
   - [ ] Change in course sequencing for an existing program  
   - [ ] Change in admission requirements (external or internal)  
   - [ ] Requirements not explicit in the catalog language (e.g., lists of acceptable courses maintained by department office)  
   - [ ] Courses that have to be added to the inventory  
   - [X] Change to title of certificate

3. **SCOPE OF PROPOSED CHANGE**  
   a. Does this proposal impact other colleges/schools? Yes [ ] No [X]  
      If yes, then how?  
   b. Do you anticipate a net change in the number of students in your college? Yes [ ] No [X]  
      If yes, how many more (or fewer) students do you expect?  
   c. Do you anticipate a net increase (or decrease) in the number of students from outside of your college taking classes in your college? Yes [ ] No [X]  
      If yes, please indicate the number of students and/or class seats involved.  
   d. Do you anticipate a net increase (or decrease) in the number of students from your college taking courses in other colleges? Yes [ ] No [X]  
      If yes, please indicate the number of students and/or class seats involved.

If 3 a, b, c, or d was answered with yes, please answer the following questions. If the proposal has potential budgetary impacts for another college/school, such as requiring new sections or a non-negligible increase in the number of seats offered, at least one contact must be at the college-level.

   - How many students do you expect to be impacted?  
   - Impacted schools must be contacted and their response(s) included:  
     - Person communicated with:  
     - Date of communication:  
     - Response:

   [Proposal is to change the name to Certificate in Scientific Computation and Data Sciences]

5. **Proposed Implementation Date**: N/A

6. **CIP Code** (administrative unit awarding the certificate): N/A

7. **Statement of Objective**: N/A

8. **Number of Students Expected to Receive the Certificate Each Semester**: N/A

9. **Number of Hours Required for Completion**: 18 hours
10. List Faculty on the Certificate Program Faculty Committee.¹ N/A

<table>
<thead>
<tr>
<th>Name of Faculty Member</th>
<th>College/Department</th>
<th>Title at UT Austin</th>
<th>Highest Degree and Awarding Institution</th>
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11. Academic Course Requirements:⁹ Use this table to identify the courses that qualify for this certificate program. N/A

<table>
<thead>
<tr>
<th>Course Abbreviation and Number</th>
<th>Course Title</th>
<th>SCH¹⁰</th>
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12. Other Certificate Requirements: N/A

13. Give a Detailed Rationale for Change(s):

The Department of Statistics and Data Sciences faculty voted to change the title of the certificate. “Data Sciences” is added so that the name of the certificate aligns with the new departmental name and clarifies the scope of the certificate.

14. College/School Approval Process:

    Departmental Approver: Michael Daniels, Chair
    Approval date: April 8, 2015
    College approval date: April 22, 2015
    Dean approver: David Vanden Bout
    Title: Associate Dean for Undergraduate Education
    Date: September 28, 2015
Certificate in Scientific Computation and Data Sciences

The Certificate in Scientific Computation and Data Sciences helps undergraduates equip themselves with the mathematical, statistical, and computer-based tools necessary to investigate complex systems in a variety of applications. It is designed to appeal to students across the University in science, engineering, economics, premedicine, sociology, and many other disciplines. The program is administered by the Department of Statistics and Data Sciences. To be admitted, a student must be in good standing in an approved undergraduate degree program and must have earned a grade of at least C- in each certificate course he or she has completed. Students may apply for admission to the program at any point in their undergraduate study; they are encouraged to apply as early as possible so that they can be advised throughout the program.

The following coursework is required. Students must also complete Mathematics 408D or 408M as a prerequisite. No single course or topic may be used to meet more than one of these requirements.

1. Statistics and Data Sciences 222
2. One course in linear algebra, discrete mathematics, or differential equations chosen from the following: Mathematics 340L, 341, 362M, 372K, Statistics and Data Sciences 329C
3. Two courses in scientific computing, chosen from two of the following areas:
   b. Statistical methods: Biomedical Engineering 335, Electrical Engineering 351K, Mathematics 358K, 378K
4. One of the following courses in applied computational science: Aerospace Engineering 347, Biology 321G, Biomedical Engineering 342, 346, 377T (approved topics), Chemistry 368 (approved topics), Computer Science 324E, 329E (approved topics), Economics 363C, Electrical Engineering 379K (approved topics), Geological Sciences 325K, Mathematics 375T (approved topics), 374M, Physics 329
5. An independent research course: Statistics and Data Sciences 479R.

Please include a draft of the catalog copy immediately following the above form. If this is an update of an existing copy, the draft should be based on the text of the current catalog available at: http://www.utexas.edu/faculty/council/pages/catalog_chgs/catcopy.html. **Strike through and replace (with underlines) only the specific language to be changed. Do NOT use “track changes!”** Submit form electronically to the Office of the General Faculty and Faculty Council at fc@austin.utexas.edu. For questions, please also email or call 471-5936.

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1 **Minimum Criteria for Certificate Recognition on the Transcript**
   a) The transcript-recognized undergraduate academic certificate program must be completed in conjunction with or within one year of completion of an undergraduate degree at The University of Texas at Austin; students pursuing an integrated undergraduate/graduate program must complete the requirements for the certificate within one year after completing the undergraduate requirements of their program. A maximum of nine credit hours in the certificate program may be taken after completion of the undergraduate degree.
   b) Transcript-recognized undergraduate academic certificate programs must require a minimum of 18 hours of certificate course work, but not more than 24 hours.
   c) At least half of the required coursework in the certificate program must be completed in residence at The University of Texas at Austin.
   d) A student may **not** earn a certificate in the same field of study as his or her major, and at least one course required in the certificate program must be outside the requirements of the major. However, courses in the
certificate program outside the major may fulfill other degree requirements such as general education requirements or required elective hours.

e) Students apply for transcript recognized undergraduate academic certificates at the time they complete their undergraduate degree or the certificate program, whichever comes later. Transcript recognition is awarded at that time.


3 Exclusive: of exclusive application and of primary interest only to a single college or school ("no protest" period is 5 working days); general: of general interest to more than one college or school (but not for submission to the General Faculty) ("no protest" period is 10 working days); major legislation must be submitted to the General Faculty for adoption ("no protest" period is 10 working days).

4 Certificates will not appear on the University transcripts until next catalog.

5 Use the federal CIP code selector site to pick a code, http://nces.ed.gov/ipeds/cipcode. After all other areas of this form are completed, forward a copy to Institutional Reporting, Research, and Information Systems (IRRIS) IMA@austin.utexas.edu with a request to verify the CIP code (“CIP CODE” in the subject line). Include your contact information, so an IRRIS member may contact you with any questions.

6 Include heading in Undergraduate Catalog where changes will be made.

7 See footnote 1b above: 18-24 hours are required.

8 For inclusion on transcripts, the faculty committee must have a minimum of five members and at least 2/3 of the committee must be tenured or tenure-track.

Note with an asterisk those faculty members who are tenured or tenure-track. Please also note the program chair who will be responsible for authorizing the students’ certificates. Specify changes to the committee membership by noting those no longer on the committee and those added to the committee. (Add and delete rows as needed.)

9 Note with an asterisk (*) courses that would be added if the certificate program is approved. Specify changes to the qualifying courses by noting those no longer qualifying and those now qualifying. (Add and delete rows as needed.) If the course numbers and titles change on a regular basis, please indicate the types of courses and number of hours for required for each.

Note with a hashtag (#) courses that require a prerequisite and provide the prerequisite course numbers.

10 Semester Credit Hours.