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**
   - [ ] Exclusive
   - [x] General
   - [ ] Major

2. **THIS PROPOSAL INVOLVES** (Please check all that apply)
   - [ ] Courses in other colleges
   - [x] Courses in proposer’s college that are frequently taken by students in other colleges
   - [ ] Flags
   - [ ] Course in the core curriculum
   - [ ] Change in course sequencing for an existing program
   - [ ] Courses that have to be added to the inventory
   - [ ] Requirements not explicit in the catalog language (e.g., lists of acceptable courses maintained by department office)
   - [x] X rearrangement of science track to clarify original intent
   - [x] X rearrangement of non-science major track to clarify how courses apply toward specific health profession preparations; these changes were reviewed by the Health Professions Office

3. **SCOPE OF PROPOSED CHANGE**
   a. Does this proposal impact other colleges/schools?  
      - Yes [x] No [ ]
      - If yes, then how? There will be a slight change to the qualifications for applying to be in the Pre-Health Professions certificate that is of interest to colleges that contain pre-health professions students. The change will enable more students outside of natural Sciences to qualify for admission to the Pre-Health Professions Certificate. We do not know how many that will be.
   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:

4. **Official Certificate Name**: Undergraduate Certificate: Pre-Health Professions Certificate

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: 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>
</tr>
</thead>
<tbody>
<tr>
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</tbody>
</table>

11. Academic Course Requirements: Use this table to identify the courses that qualify for this certificate program. [these courses are added to the certificate]

<table>
<thead>
<tr>
<th>Course Abbreviation and Number</th>
<th>Course Title</th>
<th>SCH</th>
</tr>
</thead>
<tbody>
<tr>
<td>CH 302</td>
<td>Principles of Chemistry I #&lt;br&gt;# CH 301 or 302H; M 305G or SDS 302 or one of the following: M 408C, 408D, 408K, 408L, 408M, 408N, 408R, 408S</td>
<td>3</td>
</tr>
<tr>
<td>M 408R</td>
<td>Differential and Integral Calculus for the Sciences #&lt;br&gt;# an appropriate score on the mathematics placement exam</td>
<td>3</td>
</tr>
<tr>
<td>NTR 306</td>
<td>Fundamentals of Nutrition</td>
<td>3</td>
</tr>
<tr>
<td>BIO 326R</td>
<td>General Microbiology #&lt;br&gt;# Credit or registration for BIO 325 or 325H and CH 302 or 302H</td>
<td>3</td>
</tr>
<tr>
<td>SDS 302</td>
<td>Data Analysis for the Health Sciences</td>
<td>3</td>
</tr>
</tbody>
</table>

12. Other Certificate Requirements: N/A

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

Science Major Track
1) Removal of the statement that half of the science major track is one half science and one half coursework in themes related to healthcare. Rewrite the science major track to state that 9 to 18 hours of the certificate may be chosen from themes related to healthcare, rather than content in biochemistry, biology, chemistry, physics, and statistics.

**Rationale:** The original intent of the certificate was designed to encourage science majors to take coursework related to healthcare that is outside biochemistry, biology, chemistry, physics, and statistics coursework, while allowing up to 9 hours from these areas. Removing the statement and rewording the science major track requirements will clarify this intention. In practice, some amount of overrides will need to be completed on the credential for individual students due to limitations of how the audit functions. However, the certificate language will be correct.

2) Addition of NTR 306 to the Nutrition healthcare theme.

**Rationale:** NTR 306 is the introductory course taken by non-nutrition majors. It is entirely appropriate to apply to the certificate.

3) Addition of a statement that upper-division coursework in biochemistry, biology, and chemistry approved by the certificate advisor may be applied toward the maximum of 9 hours in science coursework.

**Rationale:** Depending on a student’s major, he or she may not have 9 hours of introductory science coursework listed in the certificate, but may have additional upper-division science coursework already completed. The statement allows the flexibility to apply other significant science coursework toward the certificate.
Non-science Major Track

1) Change admission to the certificate to require a minimum grade of B- in either CH 301 or CH 302. Add M 408R as an alternative to M 408C, 408K, or 408N.

**Rationale:** Previously, the certificate required a minimum grade of B- in CH 301. Some first-year students taking CH 301 in the fall semester had difficulties adjusting to college-level courses. Allowing either CH 301 or 302 with a grade of at least B- provides the opportunity for first-year students to learn from their fall semester experiences and to apply these lessons to their spring semesters. This change will result in an increase of students eligible to pursue the Pre-Health Professions Certificate.

M 408R is a terminal calculus course designed for students pursuing the health professions.

2) Rewrite and reorganize certificate requirements to state the pre-health professions requirements explicitly for various types of healthcare fields.

**Rationale:** Previously, students in the non-science major track completed 18 hours from the same set of courses. However, pre-health professions preparation was not always identical to the 18 hours available for enrollment. In addition, the advanced coursework available to those who completed the certificate was listed separately. The certificate will now be customized depending on the specific set of pre-health professions coursework.

3) The pre-physician assistant and pre-pharmacy certificate coursework will require 1 or 2 additional hours of coursework approved by the certificate advisor.

**Rationale:** As a consequence of customizing the certificate requirements according to what is actually needed for entry into these fields, the total hours in pre-physician assistant and pre-pharmacy preparation fall short of the 18 hours by 1 or 2 hours. The certificate advisor will approve hours from one of the courses listed in the advanced coursework to satisfy the certificate. If a student chooses not to enroll in any advanced courses, the certificate advisor will determine alternate hours chosen from previously completed coursework.

4) Replace M 316 with SDS 302.

**Rationale:** The Health Professions Office successfully negotiated with the professional schools to accept SDS 302, taught regularly, for M 316, no longer taught in residence.

5) Replace BIO 326M with BIO 326R.

**Rationale:** The Department of Molecular Biosciences is restricting enrollment in BIO 326M to nursing, medical laboratory science, and public health majors. All other students needing a microbiology requirement will enroll in BIO 326R. However, if a student has already completed BIO 326M, he or she will not be required to take BIO 326R.

14. College/School Approval Process:

<table>
<thead>
<tr>
<th>College Approval Date:</th>
<th>September 16, 2015</th>
</tr>
</thead>
<tbody>
<tr>
<td>Approver:</td>
<td>David Vanden Bout</td>
</tr>
<tr>
<td>Title:</td>
<td>Associate Dean for Undergraduate Education</td>
</tr>
<tr>
<td>Date:</td>
<td>September 28, 2015</td>
</tr>
</tbody>
</table>

Pre-Health Professions Certificate

The Pre-Health Professions Certificate assists students in preparing for post-baccalaureate, healthcare professional programs.

Students are encouraged to work closely with the Health Professions Office to select healthcare themes relevant to their professional career goals. Some of the courses may contain prerequisites that are in addition to the coursework for the certificate.

Majors in the College of Natural Sciences must seek the Science Major Track. The composition of the science major track is one-half science coursework and one-half coursework from a theme related to healthcare. No admission to the track is required.
Majors outside of the College of Natural Sciences must seek the Non-Science Major Track. The composition of the non-science major track is science coursework necessary for admission to post-baccalaureate, healthcare professional programs. Non-science majors may apply to the certificate program upon completion of the following courses with grades of at least B-: Chemistry 301 or 302, and completion of one of the following: Statistics and Data Sciences 302, Mathematics 408C, 408K, or 408N, or 408R. Upon admission, the ability to progress in the certificate is dependent on completion of the certificate courses with satisfactory grades. Non-science majors who complete the certificate may be eligible to enroll in select upper-division courses necessary for application to the health professions programs to which they are applying.

Students must contact the dean’s office in the College of Natural Sciences to request the certificate during the semester in which they are completing the requirements. The certificate consists of a minimum of eighteen hours. Each course presented for the certificate must be completed with a grade of at least C-.

**Science Major Track**

1. Complete up to nine hours chosen from the following:
   b. Biology: Biology 311C, 311D, and 206L
   d. Statistics: One of the following courses: Mathematics 316, Statistics and Data Sciences 302, 304, 306, or 328M.

2. Complete a minimum of nine hours chosen from the following themes relevant to healthcare:
   a. Cultural Awareness:
      i. Anthropology 322M (Topic 5: Indians of Mexico and Guatemala)
      ii. Asian American Studies 301 and Asian American Studies 310 (Topic 1: Psychological Perspectives on Asian American Identity)
      iii. African and African Diaspora Studies 301
      iv. Latin American Studies 324L (Topic 16: Mexican Immigration Cultural History)
      v. Mexican American Studies 307
      vi. Middle Eastern Studies 301L
   b. Health and Anatomy:
      i. Classical Civilization 306M
      ii. Educational Psychology 363 (Topic 3: Human Sexuality) or Health Education 366.
      iii. Health Education 335, 343, 352K, 370K, and 373
      iv. Kinesiology 320, 324K, 325K, and 326K
      v. Psychology 301, 308, 332C, Psychology 341K (Topic 4: Health Psychology), Psychology 346K, and Psychology 353K.
   c. Healthcare Policy:
      i. Communication Studies 322E
      ii. History 350R (Topic 18: Women in Sickness and Health)
      iii. Philosophy 325M
      iv. Nursing 309 and Nursing 321
      vii. Geography 357
      viii. Public Health 317
   d. Human and Societal Development:
      i. Communication Studies 310K and 322E.
      ii. Educational Psychology 369K (Topic 10: Educational Neuroscience).
iii. Human Development and Family Sciences 304, 313, 335, 342, 351, and 378K (Topic: Biobehavioral Health Processes Across the Family).
iv. Nursing 310.
v. Psychology 301, 308, 332C, 341K (Topic 4: Health Psychology), and 346K.
vi. Sociology 302 and 330C.
e. Nutrition:
   i. Communication Studies 322E
   ii. History 350R (Topic 5: American Cultural History of Alcohol and Drugs)
   iii. Nutrition 312, 318, 326, and 334

Science Major Track

1. Complete a minimum of nine eighteen hours chosen from the following themes relevant to healthcare.

   Students pursuing the science major track may choose to substitute a maximum of nine hours chosen from requirement 2.

a. Cultural Awareness:
   i. Anthropology 322M (Topic 5: Indians of Mexico and Guatemala)
   ii. Asian American Studies 301 and Asian American Studies 310 (Topic 1: Psychological Perspectives on Asian American Identity)
   iii. African and African Diaspora Studies 301
   iv. Latin American Studies 324L (Topic 16: Mexican Immigration Cultural History)
   v. Mexican American Studies 307
   vi. Middle Eastern Studies 301L

b. Health and Anatomy:
   i. Classical Civilization 306M
   ii. Educational Psychology 363 (Topic 3: Human Sexuality) or Health Education 366.
   iii. Health Education 335, 343, 352K, 370K, and 373
   iv. Kinesiology 320, 324K, 325K, and 326K
   v. Psychology 301, 308, 332C, Psychology 341K (Topic 4: Health Psychology), Psychology 346K, and Psychology 353K.

c. Healthcare Policy:
   i. Communication Studies 322E
   ii. History 350R (Topic 18: Women in Sickness and Health)
   iii. Philosophy 325M
   iv. Nursing 309 and Nursing 321
   vii. Geography 357
   viii. Public Health 317

d. Human and Societal Development:
   i. Communication Studies 310K and 322E.
   ii. Educational Psychology 369K (Topic 10: Educational Neuroscience).
   iii. Human Development and Family Sciences 304, 313, 335, 342, 351, and 378K (Topic: Biobehavioral Health Processes Across the Family).
   iv. Nursing 310.
   v. Psychology 301, 308, 332C, 341K (Topic 4: Health Psychology), and 346K.
   vi. Sociology 302 and 330C.

e. Nutrition:
Non-science Major Track

1. Complete a minimum of eighteen hours from the following:
   a. Pre-dental preparation: Biochemistry 369; Biology 320, 325, 326M, Chemistry 320M, 320N, 220C
   b. Pre-medical preparation: Biochemistry 369; Biology 320, 325; Chemistry 320M, 320N, 220C
   c. Pre-occupational therapy preparation: Biology 325, 446L, 365S, 165U; Mathematics 316
   d. Pre-optometry preparation: Biochemistry 369; Biology 325, 326M, 226L, 446L, 365S, 165U; Chemistry 320M, 320N, 220C; Mathematics 316
   e. Pre-physical therapy preparation: Biology 325, 446L, 365S, 165U; Mathematics 316
   h. Pre-veterinary preparation: Biochemistry 369; Biology 325, 326R, 226L, 344; Statistics and Data Sciences 321 or 328M

Non-science Major Track

2. If additional hours are needed to complete the eighteen hours required by the certificate, Complete up to a maximum of nine hours chosen from the following may be applied:
   b. Biology: Biology 311C, 311D, and 206L.
   d. Statistics: One of the following courses: Mathematics 316, Statistics and Data Sciences 302, 304, 306, or 328M.
   e. Additional upper-division coursework in biochemistry, biology, and chemistry by approval of the undergraduate certificate adviser.

Certificate Impact Statement revised on 9/24/14 10:59 AM.
b. Pre-medical preparation:
   i. Certificate coursework: Biology 311C, 311D, 206L; Chemistry 204; Physics 302K, 102M, 302L, 102N *.
   ii. Advanced coursework: Biochemistry 369; Biology 320, 325, 326R **; Chemistry 320M, 320N, 220C.

c. Pre-occupational therapy preparation:
   i. Certificate coursework: Biology 311C, 311D, 206L; Chemistry 204; Statistics and Data Sciences 302; Mathematics 316; Physics 302K, 102M *, and one hour of additional coursework approved by the certificate advisor.
   ii. Advanced coursework: Biology 325, 446L, 365S, 165U.

d. Pre-optometry preparation:
   i. Certificate coursework: Biology 311C, 311D, 206L; Chemistry 204; Physics 302K, 102M, 302L, and 102N *.

e. Pre-physical therapy preparation:
   i. Certificate coursework: Biology 311C, 311D, 206L; Chemistry 204; Statistics and Data Sciences 302 Mathematics 316; Physics 302K, 102M, 302L, and 102N *.
   ii. Advanced coursework: Biology 325, 446L, 365S, 165U.

f. Pre-physician assistant preparation:
   i. Certificate coursework: Biology 311C, 311D, 206L; Chemistry 204; Statistics and Data Sciences 302 Mathematics 316; Nutrition 306, and two hours of additional coursework approved by the certificate advisor.

g. Pre-pharmacy preparation:
   i. Introductory coursework: Biology 311C, 311D, 206L; Chemistry 204; Statistics and Data Sciences 302 Mathematics 316; Physics 302K, 102N *, and one hour of additional coursework approved by the certificate advisor.

h. Pre-veterinary preparation:
   i. Certificate coursework: Biology 311C, 311D, 206L; Chemistry 204; Physics 302K, 102M, 302L, 102N *.
   ii. Advanced coursework: Biochemistry 369; Biology 325, 326R, 226L, 344; Statistics and Data Sciences 321 or 328M.

* A completed calculus-based physics sequence may substitute for the purposes of earning the certificate.
** Previously completed Biology 326M may substitute for Biology 326R.

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.
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.