

DATE: January 31, 2020

SUBJECT: New Academic Program
University of Tennessee, Health Science Center
Pharmaceutical Sciences, Bachelor of Science
(CIP 51.2010 – Pharmaceutical Sciences)

ACTION RECOMMENDED: Approval

PROGRAM DESCRIPTION

The University of Tennessee, Health Science Center (UTHSC) proposes a Bachelor of Science in Pharmaceutical Sciences (BSPS). The proposed program will require students to complete 120 hours of coursework with a focus on topics including medicinal chemistry, pharmacology, pharmaceuticals, and disease management and prevention. UTHSC currently offers a Doctor of Pharmacy (PharmD) program; however, admitted students are not required to hold a baccalaureate degree, meaning they must complete up to six years of education to obtain their initial credential. The proposed baccalaureate program will be embedded within the PharmD program and will allow students to earn a baccalaureate degree as a part of their course of study. The proposed program will use existing resources, coursework, and facilities. No additional resources are needed to recruit or deliver the program. The proposed program will not generate new tuition and fees.

INSTITUTIONAL GOVERNING BOARD APPROVAL

The University of Tennessee Board of Trustees approved the proposed Pharmaceutical Sciences, BSPS program on November 8, 2019.

PROPOSED IMPLEMENTATION DATE

Fall 2020

RELEVANCE TO INSTITUTIONAL MISSION AND STRATEGIC PLAN

The proposed Pharmaceutical Sciences, Bachelor of Science program supports the University of Tennessee, Health Science Center’s mission to bring the benefits of the health sciences to the achievements of human health.

UTHSC will be the first university in Tennessee to offer an undergraduate degree in pharmaceutical sciences, which will provide new educational opportunities to students in the state. The proposed program aligns with the state master plan by awarding a degree based on the accumulation of credits a student receives en route to their doctoral degree. This degree will reflect the successful completion of credit hours a student completes and will increase the number of degrees attained. The

proposed undergraduate program will also ensure students who decide not to complete the PharmD program, have a degree in hand to pursue employment or other graduate opportunities. This degree aligns with the State Master Plan to increase the educational attainment levels of Tennesseans and addresses the state’s economic, workforce, and research needs.

CURRICULUM

The proposed BSPS in Pharmaceutical Sciences will consist of 120 credit hours, including 62 credit hours of general education courses and 58 credit hours of UTHSC pharmaceutical science courses. The B.S. in Pharmaceutical Sciences curriculum will have a strong pharmaceutical foundation in medicinal chemistry, pharmacology, pharmaceuticals, and disease management and prevention.

PROGRAM PRODUCTIVITY

UTHSC students admitted to the PharmD program will be eligible to enroll in the proposed Pharmaceutical Sciences program. Projected enrollment and graduation rates for the first five years are as follows:

	2020-21	2021-22	2022-23	2023-24	2024-25
Enrollment	175	175	175	175	175
Graduates	571*	170	170	170	170

**Current students will be grandfathered to receive the BSPS degree.*

PROGRAM DUPLICATION

Currently, there are no programs at the bachelor’s level that offer a degree in Pharmaceutical Sciences at universities in Tennessee (CIP code: 51.2010 – Pharmaceutical Science). East Tennessee State University does offer a bachelor's level degree in Pharmaceutical Studies (CIP code: 51.2001 – Pharmacy Studies). Both programs are intended to award degrees to students enrolled in the PharmD programs at their respective institutions as they meet curricular thresholds. The addition of undergraduate conferrals of degrees as a part of PharmD programs is an increasingly prevalent characteristic of PharmD programs nationwide.

EXTERNAL JUDGEMENT

An external review of the proposed program was conducted by Dr. Lauren Schlesselman, Faculty and Director of Learning and Initiatives and Educational Technology at the University of Connecticut School Of Pharmacy. She provided strong support for the proposed BSPS in Pharmaceutical Sciences, recognizing the value the proposed program would provide students in broadening career options and contributing to the state’s economic and workforce goals. Specifically, she stated, “For students unable to complete the PharmD due to financial difficulties, often minorities at other institutions and presumably at UTHSC, the lack of degree despite having completed 4, 5, or nearly 6 years

of higher education adds additional hindrances for their futures and goes against the state's intent for workforce development."

STUDENT DEMAND

UTHSC convened the first-year PharmD class of 196 students and inquired if they thought the proposed program had value to them and whether they supported this degree. Students were overwhelmingly supportive of the proposal, with 98 percent in favor. The PharmD program has annual enrollments of over 170 students.

OPPORTUNITIES FOR PROGRAM GRADUATES

The proposed degree will give students the ability to pursue employment opportunities in fields that do not require a PharmD such as biotechnology, pharmaceutical sales, and other health-related jobs. The proposed degree will also allow students the capacity to have expanded graduate school options.

INSTITUTIONAL CAPACITY TO DELIVER THE PROGRAM

UTHSC currently offers a PharmD program and existing courses, faculty, and resources are currently in place through this program. The proposed program will not generate any new tuition and fees nor require any new faculty, facilities, or other resources. The sole cost for the proposed program will be to provide an additional degree (diploma) for students when the degree is awarded.

ASSESSMENT AND POST-APPROVAL MONITORING

An annual performance review of the proposed program will be conducted for the first five years following program approval. The review will be based on benchmarks established in the approved proposal. The benchmarks include, but are not limited to: enrollment and graduation, program cost, and other metrics set by the institution and THEC staff. The monitoring period may be extended if additional time is needed to achieve the benchmarks. If benchmarks are not met, the Commission may recommend that the institutional governing board terminate the program.

**Tennessee Higher Education Commission
Appendix A: THEC Financial Projections
University of Tennessee, Health Science Center
Pharmaceutical Sciences, Bachelor of Science**

Seven-year projections are required for doctoral programs.
Five-year projections are required for baccalaureate and Master's degree programs
Three-year projections are required for associate degrees and undergraduate certificates.
Projections should include cost of living increases per year.
Planning year projections are not required but should be included when appropriate.

	Planning Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
I. Expenditures								
A. One-time Expenditures								
New/Renovated Space ¹	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Equipment	-	-	-	-	-	-	-	-
Library	-	-	-	-	-	-	-	-
Consultants	1,500	-	-	-	-	-	-	-
Travel	-	-	-	-	-	-	-	-
Other	-	-	-	-	-	-	-	-
Sub-Total One-time	\$ 1,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
B. Recurring Expenditures								
Personnel								
Administration								
Salary	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Benefits	-	-	-	-	-	-	-	-
Sub-Total Administration	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Faculty								
Salary	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Benefits	-	-	-	-	-	-	-	-
Sub-Total Faculty	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Support Staff								
Salary	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Benefits	-	-	-	-	-	-	-	-
Sub-Total Support Staff	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Graduate Assistants								
Salary	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Benefits	-	-	-	-	-	-	-	-
Tuition and Fees* (See Below)	-	-	-	-	-	-	-	-
Sub-Total Graduate Assistants	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Operating								
Travel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Printing	-	-	-	-	-	-	-	-
Equipment	-	-	-	-	-	-	-	-
Other - degrees	-	7,018	2,089	2,089	2,089	2,089	-	-
Sub-Total Operating	\$ -	\$ 7,018	\$ 2,089	\$ 2,089	\$ 2,089	\$ 2,089	\$ -	\$ -
Total Recurring	\$ -	\$ 7,018	\$ 2,089	\$ 2,089	\$ 2,089	\$ 2,089	\$ -	\$ -
TOTAL EXPENDITURES (A + B)	\$ 1,500	\$ 7,018	\$ 2,089	\$ 2,089	\$ 2,089	\$ 2,089	\$ -	\$ -

***If tuition and fees for Graduate Assistants are included, please provide the following information.**

Base Tuition and Fees Rate	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Number of Graduate Assistants	-	-	-	-	-	-	-	-

II. Revenue

Planning Year	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Year 7
Tuition and Fees ²	-	-	-	-	-	-	-
Institutional Reallocations ³	1,500	7,018	2,089	2,089	2,089	2,089	-
Federal Grants ⁴	-	-	-	-	-	-	-
Private Grants or Gifts ⁵	-	-	-	-	-	-	-
Other ⁶	-	-	-	-	-	-	-
BALANCED BUDGET LINE	\$ 1,500	\$ 7,018	\$ 2,089	\$ 2,089	\$ 2,089	\$ 2,089	\$ - \$ -

Notes:

(1) Provide the funding source(s) for the new or renovated space.

(2) In what year is tuition and fee revenue expected to be generated? Tuition and fees include maintenance fees, out-of-state tuition, and any applicable earmarked fees for the program. Explain any differential fees.

(3) Identify the source(s) of the institutional reallocations, and grant matching requirements if applicable.

(4) Provide the source(s) of the Federal Grant including the granting department and CFDA(Catalog of Federal Domestic Assistance) number.

(5) Provide the name of the organization(s) or individual(s) providing grant(s) or gift(s).

(6) Provide information regarding other sources of the funding.