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Austin, Texas

Rad Weaver, Chairman
Christina Melton Crain
R. Steven Hicks
Janiece Longoria
Nolan Perez
Stuart W. Stedman

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1. **U. T. System Board of Regents: Discussion and appropriate action regarding Consent Agenda items, if any, assigned for Committee consideration**

RECOMMENDATION

The proposed Consent Agenda items assigned to this Committee are [Items 7 - 39](#).

2a. U. T. El Paso: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Public Administration degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission for the Master of Public Administration degree program at U. T. El Paso as described below.

BACKGROUND INFORMATION

U. T. El Paso requests approval to change the admission criteria for the Master of Public Administration program in the Department of Political Science and Public Administration within the College of Liberal Arts as follows:

Description of Change

- Remove Graduate Record Examination (GRE) requirement.
- Remove Graduate Management Admission Test (GMAT) requirement for applicants to the dual degrees Master of Business Administration/Master of Public Administration.

Rationale for Change

After completing the 2021 Network of Schools of Public Policy, Affairs, and Administration (NASPAA) accreditation report, data showed that student success was not correlated with GRE scores or GMAT scores.

2b. U. T. El Paso: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Science in Biological Sciences, Doctor of Philosophy in Biosciences, and Doctor of Philosophy in Ecology and Evolutionary Biology degree programs

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission for the Master of Science in Biological Sciences, Doctor of Philosophy in Biosciences, and Doctor of Philosophy in Ecology and Evolutionary Biology degree programs at U. T. El Paso as described below.

BACKGROUND INFORMATION

U. T. El Paso requests approval to change the admission criteria for the M.S. in Biological Sciences, Ph.D. in Biosciences, and Ph.D. in Ecology and Evolutionary Biology degree programs within the College of Science, Department of Biological Sciences as follows:

Description of Change

- Make submission of GRE scores optional.

Rationale for Change

The three programs have multiple criteria considered for application evaluation: (1) competitive GPA from an accredited institution; (2) three letters of recommendation from professional reference; (3) a detailed essay of research interests and experience; (4) curriculum Vitae; and (5) GRE scores. Recent studies have shown that GRE scores are not a reliable predictor of student success in graduate programs.

2c. U. T. El Paso: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Science in Economics degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission for the Master of Science in Economics degree program at U. T. El Paso as described below.

BACKGROUND INFORMATION

U. T. El Paso requests approval to change the admission criteria for the M.S. in Economics degree program in the Department of Economics and Finance within the College of Business Administration as follows:

Description of Change

- Remove Graduate Record Examinations (GRE) as an admission requirement.

Rationale for Change

The M.S. in Economics applicants are currently reviewed based on five criteria; (1) cumulative undergraduate Grade Point Average (GPA); (2) performance in upper-division economics courses, including mathematical economics, intermediate microeconomics, and econometrics; (3) performance in upper division math courses, including calculus, probability, and statistics; (4) statement of purpose detailing the interest in economics and the degree program; and (5) GRE scores. While there is some merit to evaluating students based on GRE scores, more targeted information is attained through student performance in related economics and mathematics courses. As such, the GRE represents an additional cost to students when applying to the program, but it does not provide reviewers substantially different information.

2d. **U. T. El Paso: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Science in Professional Science degree program**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission for the Master of Science in Professional Science degree program at U. T. El Paso as described below.

BACKGROUND INFORMATION

U. T. El Paso requests approval to change the admission criteria for the Master of Science in Professional Science program within the College of Science as follows:

Description of Change

- Remove Graduate Record Examinations (GRE) requirement.

Rationale for Change

The Master of Science in Professional Science is a 30-credit hour program designed to pair a graduate certificate in a core science field with a graduate certificate in a complementary field. Since many graduate certificates require the GRE for admission, requiring one for admission to this program is redundant.

2e. U. T. Permian Basin: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Public Administration with Leadership emphasis degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to admission criteria for the Master of Public Administration with Leadership emphasis degree program at U. T. Permian Basin as described below.

BACKGROUND INFORMATION

U. T. Permian Basin requests approval to change the admission criteria for its Master of Public Administration (MPA) with Leadership emphasis degree program within the College of Arts and Sciences as follows:

Description of Changes

- For regular admission:
 - Eliminate submission of Graduate Records Examination (GRE) scores
 - Include consideration of cumulative Grade Point Average (GPA) of 3.0 or higher, instead of a 3.0 GPA in the last 60 hours of undergraduate courses.
 - Require two years of full-time professional experience in public, nonprofit, or for-profit organizations, down from three or more years.
- For conditional admission:
 - Include consideration of cumulative GPA between 2.5-2.99, instead of a 3.0 GPA in the last 60 hours of undergraduate courses.
 - Minimum GRE Score of 280 may be considered, but is no longer mandatory.
- The GRE may be waived as noted in the set of criteria for regular or conditional admission based on the applicant's background.

Rationale for Change

These changes will enable the Master of Public Administration program to respond to the increased demand for the program within the State of Texas and beyond as more employers require a master's degree to work in professional administration. The proposed changes provide additional opportunities and flexibility for students to enroll in the graduate program.

2f. **U. T. Rio Grande Valley: Discussion and appropriate action regarding proposed changes to admission criteria for the Master in Physician Assistant Studies degree program**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to admission criteria for the Master in Physician Assistant Studies degree program at U. T. Rio Grande as described below.

BACKGROUND INFORMATION

U. T. Rio Grande Valley requests approval to change the admission criteria for the master's program in Physician Assistant Studies (MPAS) in the Department of Physician Assistant Studies within the College of Health Professions as follows:

Description of Changes

- Require submission of the CASPer (Computer-based Assessment for Sampling Personality characteristics) MMI (Multiple Mini Interviews) Exam.
- Remove requirement for documentation of 50 hours of shadowing as a condition of admission.

Rationale for Changes

The changes will enable the program to better assess patient-centered qualities needed in the profession and to align with other U. T. System Physician Assistant program admission requirements. The CASPer exam will make the applicant evaluation process more efficient and accurate. The decision to remove the 50 hours of shadowing documentation was made as the requirement hinders the placement of admitted students in clinical settings.

2g. **U. T. San Antonio: Discussion and appropriate action regarding proposed changes to admission criteria for the Doctor of Philosophy in Applied Demography degree program**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission to the Doctor of Philosophy in Applied Demography degree program at U. T. San Antonio as described below.

BACKGROUND INFORMATION

U. T. San Antonio requests approval to change the admission criteria for the Ph.D. in Applied Demography within the College for Health, Community, and Policy as follows:

Description of Change

- Removal of the Graduate Record Examinations (GRE) requirement.

Rationale for Change

Recent studies have shown that GRE scores are not a reliable predictor of student success in graduate programs.

2h. **U. T. San Antonio: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Arts and Doctor of Philosophy in Anthropology degree programs**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission to the Master of Arts and Doctor of Philosophy in Anthropology degree programs at U. T. San Antonio as described below.

BACKGROUND INFORMATION

U. T. San Antonio requests approval to change admission criteria for the M.A. and Ph.D. in Anthropology degree programs within the College of Liberal and Fine Arts as follows:

Description of Change

- Removal of the Graduate Record Examination (GRE) requirement.

Rationale for Change

Due to the expense of the exam, requiring the GRE test leads to reduced numbers of applicants of lesser economic means, and the anthropology program's experience is that GRE scores have not been strong indicators of an applicant's potential to succeed in either the M.A. or Ph.D. program.

While the programs waived the GRE requirement during the pandemic, the number and quality of applications received by the two programs remained high. The absence of the GRE did not negatively impact the program's ability to evaluate applications, and the performance of the students admitted without the GRE has been strong.

2i. **U. T. San Antonio: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Arts in Architecture, and Master of Science and Doctor of Philosophy in Biomedical Engineering degree programs**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission to the Master of Arts in Architecture, and Master of Science and Doctor of Philosophy in Biomedical Engineering degree programs at U. T. San Antonio as described below.

BACKGROUND INFORMATION

U. T. San Antonio requests approval to change admission criteria for the M.A. in Architecture, and the M.S. and Ph.D. in Biomedical Engineering degree programs within the Klesse College of Engineering and Integrated Design as follows:

Description of Change

- Removal of the Graduate Record Examination (GRE) requirement.

Rationale for Change

Recent studies have shown that GRE scores are not a reliable predictor of student success in graduate programs.

2j. **U. T. San Antonio: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Business Administration and Master of Science in Business degree programs**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission to the Master of Business Administration and Master of Science in Business degree programs at U. T. San Antonio as described below.

BACKGROUND INFORMATION

U. T. San Antonio requests approval of changes to the admission criteria for the MBA and MSB degree programs within the Alvarez College of Business as follows:

Description of Change

Applicants meeting one or more of the following criteria will not be required to submit Graduate Record Examinations (GRE) or Graduate Management Admission Test (GMAT) test scores:

- Based on Degree/Education
 - Applicant has an earned graduate degree from a U.S. accredited school or foreign equivalent with a GPA of 3.0 or higher or;
 - Applicant has an earned undergraduate degree from a U.S. accredited school or foreign equivalent with a GPA of 3.5 or higher.

- Based on Work Experience
 - Applicant has 5 years of demonstrable work experience in a professional business setting such as economics, finance, accounting, business management, marketing, information systems, data analytics, etc., including managerial and budgeting experience or;
 - Applicant has 5 years of military experience.

Simply meeting one of the above criteria does not guarantee a waiver. To enable the Program Committees to verify students' eligibility for a GRE/GMAT waiver, students must submit an online application and complete all other application requirements for review.

Rationale for Change

These changes will enable the Alvarez College of Business to further evaluate candidates using a holistic approach therefore recruiting and enrolling the best students regardless of standardized testing ability. Allowing these scores as optional for well-qualified students provides a quantitative metric for the Program Committees to evaluate candidates more broadly.

Students will still be informed that competitive GRE/GMAT scores may help their chances of admission. Applicants with excellent credentials should not be discouraged if their GRE or GMAT score is average or even slightly below average.

2k. **U. T. San Antonio: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Science and Doctor of Philosophy in Chemistry degree programs**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission to the Master of Science and Doctor of Philosophy in Chemistry degree programs at U. T. San Antonio as described below.

BACKGROUND INFORMATION

U. T. San Antonio requests approval of admission criteria changes for the M.S. and Ph.D. in Chemistry degree programs within the College of Sciences as follows:

Description of Change

- Removal of the Graduate Record Examinations (GRE) requirement.

Rationale for Change

Recent studies have shown that GRE scores are not a reliable predictor of student success in graduate programs.

21. U. T. San Antonio: Discussion and appropriate action regarding proposed changes to admission criteria for the Doctor of Philosophy in Culture, Literacy and Language; Doctor of Philosophy in Educational Leadership; Master of Arts in Educational Psychology; and Master of Arts in Teaching English as a Second Language degree programs

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission to the Doctor of Philosophy in Culture, Literacy and Language; Doctor of Philosophy in Educational Leadership; Master of Arts in Educational Psychology; and Master of Arts In Teaching English as a Second Language degree programs at U. T. San Antonio as described below.

BACKGROUND INFORMATION

U. T. San Antonio requests approval of changes to admission criteria for four graduate programs within the College of Education and Human Development as follows:

Description of Changes

	Program	Proposed Criteria
Ph.D.	Culture, Literacy and Language	Graduate Records Examination (GRE) not required
Ph.D.	Educational Leadership	GRE not required
M.A.	Educational Psychology	GRE not required
M.A.	Teaching English as a Second Language	TOEFL ¹ of 587/84 IELTS ² of 7

1. TOEFL = Test of English as a Foreign Language
2. IELTS = International English Language Testing System

Rationale for Changes

U. T. San Antonio is asking for approval to remove the GRE requirement from the admission criteria for the three programs above as it has not been shown to be a predictor of student success. Additionally, the number of applications for admissions to the programs processed while the GRE was waived due to the pandemic confirms that the lack of GRE had no impact on the program's ability to fully evaluate applications, nor on the caliber of the students admitted.

The institution is also asking to increase the English language proficiency requirement for international students in the master's program in Teaching English as a Second Language. This increase is designed to address the increasing number of students with insufficient language skills to be successful in the program over the last three years, as well as the change in language support available to students.

2m. U. T. Tyler: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Health Administration degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the criteria for admission to the Master of Health Administration degree program at U. T. Tyler as described below.

BACKGROUND INFORMATION

U. T. Tyler requests approval to change the admission criteria for the Master of Health Administration program within the School of Health Professions as follows:

Description of Change

A personal interview with admissions committee member(s) will be required if applicant meets all other admission requirements.

Rationale for Change

This new requirement will enable the Master of Health Administration to conform with best practices for admissions. The current process does not allow for flexibility to engage the applicant and determine an appropriate fit. Therefore, using the interview process will provide strategic direction in assessing the best candidates for the program.

2n. U. T. Tyler: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Science in Biology degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to admission criteria for the Master of Science in Biology degree program at U. T. Tyler as described below.

BACKGROUND INFORMATION

U. T. Tyler requests approval to change the admission criteria for the Master of Science in Biology degree program within the College of Arts and Sciences as follows:

Description of Change

- Make the Graduate Record Examination (GRE) optional for students who have an undergraduate degree Grade Point Average (GPA) of 3.0 or greater.

Rationale for Change

Recent studies have shown that GRE scores are not a reliable predictor of student success in graduate programs.

2o. U. T. Tyler: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Science in Electrical Engineering degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to admission criteria for the Master of Science in Electrical Engineering degree program at U. T. Tyler as described below.

BACKGROUND INFORMATION

U. T. Tyler requests approval to change the admission criteria for the Master of Science in Electrical Engineering (MSEE) degree program within the College of Engineering as follows:

Description of Change

- Waive the Graduate Record Examinations (GRE) for qualified students who meet one of the conditions below:
 1. Completed their undergraduate degree from an Accreditation Board for Engineering and Technology, Inc. (ABET)-accredited program within the past five years with a 3.0 cumulative Grade Point Average (GPA) or greater on a 4-point scale.
 2. Completed their undergraduate degree within the past five years with a 3.25 cumulative GPA or greater on a 4-point scale.
 3. Two years of professional work experience in a relevant engineering field and 3.0 cumulative undergraduate GPA or greater on a 4-point scale.
 4. Completed 12 graduate hours in a related field of study within the past five years with a 3.25 graduate GPA or greater on a 4-point scale.
 5. Authored or co-authored one peer-reviewed publication in a related field of study within the past five years.
- The admissions committee may request additional material and/or interview the applicant to reach a final decision.

Rationale for Change

Recent studies have shown that GRE scores are not a reliable predictor of student success in graduate programs.

2p. U. T. Tyler: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Arts in English degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to admission criteria for the Master of Arts in English degree program at U. T. Tyler as described below.

BACKGROUND INFORMATION

U. T. Tyler requests approval to change the admission criteria for the Master of Arts in English degree program within the College of Arts and Sciences as follows:

Description of Change

- Replace the Graduate Record Examination (GRE) with a writing sample that is assessed by the Director of Graduate Studies and the Chair of the Department of Literature and Language

Rationale for Change

Recent studies have shown that GRE scores are not a reliable predictor of student success in graduate programs. The writing sample will lend insight into a student's capacity to conduct graduate-level research, such as proposing a research question, citing, and engaging with research/evidence, undertaking close textual analysis, and applying a variety of methodological frameworks (i.e., archival research, comparative/translation research, pedagogical research, etc.).

2q. **U. T. Tyler: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Arts in School Counseling degree program**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to admission criteria for the Master of Arts in School Counseling degree program at U. T. Tyler as described below.

BACKGROUND INFORMATION

U. T. Tyler requests approval to change the admission criteria for the Master of Arts in School Counseling degree program within the College of Education and Psychology as follows:

Description of Change

- Waive Graduate Record Examinations (GRE)
- Applicants must submit a personal statement describing their personal background and classroom experiences that demonstrate their commitment and ability to work with students from diverse backgrounds and with diverse needs.

Rationale for Change

These recommended changes are based on (1) empirical evidence that does not support the continued use of GRE scores as a reliable predictor of student outcomes, (2) a diversity supporting initiative, and (3) admission trends among the field of school counseling graduate programs.

2r. **U. T. Tyler: Discussion and appropriate action regarding proposed changes to admission criteria for the Master of Science in Nursing for multiple Nursing degree programs**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to admission criteria for the Master of Science in Nursing in multiple Nursing degree programs at U. T. Tyler as described below.

BACKGROUND INFORMATION

U. T. Tyler requests approval to change the admission criteria for the Master of Science in Nursing degree programs in Nursing Administration, Nursing Education, Nursing Informatics, Quality & Safety, Family Nurse Practitioner (FNP), and Psychiatric Mental Health Nurse Practitioner (PMHNP).

Description of Change

- Unencumbered licensure
- Applicants to all MSN degree programs must submit a two-page essay describing reasons for seeking a particular MSN degree and plans for the future.
- Applicants to one of the Advanced Practice degree programs (i.e. FNP, PMHNP) must submit a two-page essay and video.
- Applicants must submit a curriculum vitae (CV) or resume

Rationale for Change:

- It is critical that applicants have a license that is not under investigation.
- Requiring a resume or CV establishes that MSN candidates have direct nursing experience that supports their ability to be successful in a particular program.
- Effective communication (oral and written) is a primary predictor of student success in advanced nurse practitioner education. The admissions criteria to require the two-page essay and video will enable the admissions team to assess the student's ability for effective communication strategies and use technology.

2s. U. T. Tyler: Discussion and appropriate action regarding proposed changes to admission criteria for various Master's degree programs for current U. T. Tyler undergraduate students and alumni applicants

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that the U. T. System Board of Regents approve changes to the admission criteria for current U. T. Tyler undergraduate students and alumni applying to master's degree programs within various colleges/schools at U. T. Tyler.

BACKGROUND INFORMATION

U. T. Tyler requests approval to change the admission criteria for eligible current undergraduate students and alumni applying to master's degree programs within the College of Arts and Sciences, College of Engineering, College of Education and Psychology, Soules College of Business, and School of Health Professions, to streamline the application process for its current undergraduate students and alumni through the two new programs described below.

Description of Changes

1. Patriot-Admit Program

U. T. Tyler proposes to waive the application fee, statement of purpose, letters of recommendation, and the Graduate Records Exam (GRE)/Graduate Management Admission Test (GMAT) for eligible students. Qualifying students and alumni must have at least a 3.00 Cumulative Grade Point Average (GPA) and will be subject to other applicable admission criteria for the individual graduate degree program.

2. 4+1 Programs

The streamlined admissions process will allow eligible undergraduate students currently enrolled in participating programs to enroll in up to nine semester credit hours of graduate coursework in the same program. Students seeking to participate in the 4+1 Program must have at least a 3.00 Cumulative GPA, a faculty recommendation, and approvals from the department chair, academic dean, and graduate school dean and will be subject to other applicable admission criteria for the individual graduate program.

Rationale for Changes

These changes will enable the participating graduate programs to provide a streamlined, fast-track admissions process through the Patriot-Admit Program for current U. T. Tyler students and alumni to pursue a graduate degree. Initial costs for prospective students are reduced because the recommended waivers for the standard application process and the GRE/GMAT remove the charges associated with those requirements.

Recommended changes associated with the 4+1 Programs allow earlier enrollment in graduate courses without need for the more detailed review associated with the formal applications process and payment of associated fees.

The 4+1 Programs will allow eligible students to save time (five years instead of six or seven) and money (up to about 30% reduction in graduate education costs). U. T. Tyler serves a large population of first generation, Pell recipients, and transfer students who will particularly benefit from the proposed accelerated admissions options. In 2021, 55.6% of baccalaureate graduates were first generation and 55.7% were Pell recipients. Additionally, in Fall 2021, transfer students comprised 57.9% of the undergraduate enrollment.

The proposals will benefit underrepresented students and alumni. In 2021, only 8.2% of baccalaureate degrees and 11.0% of master's degrees were conferred to U. T. Tyler Black/Non-Hispanic students. In the same cohort, 21.6% of baccalaureate degrees and 16.3% of master's degrees were conferred to Hispanic students.

Waiver of the graduate application fee will not result in U. T. Tyler's inability to service a debt to which revenue from that fee is obligated.

3a. U. T. Rio Grande Valley: Approval to establish a Doctor of Philosophy in Materials Science and Engineering degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that authorization, pursuant to Regents' *Rules and Regulations*, Rule 40307, related to academic program approval standards, be granted to

- a. establish a Doctor of Philosophy in Materials Science and Engineering degree program at U. T. Rio Grande Valley; and
- b. submit the proposal to the Texas Higher Education Coordinating Board for review and appropriate action.

BACKGROUND INFORMATION

Program Description

U. T. Rio Grande Valley proposes to offer a Doctor of Philosophy (Ph.D.) degree program in Materials Science and Engineering. The Ph.D. in Materials Science and Engineering is designed to provide opportunities for students to obtain a broad background in theoretical and experimental materials science and engineering, particularly in nanofibers where U. T. Rio Grande Valley has unique worldwide expertise. The study of new knowledge, materials, and physical phenomena promotes solutions to solve real-world problems in a wide variety of fields including energy, medical, structural, biotechnology, information technology, electronics, manufacturing, and several others. As a Hispanic-Serving Institution with a student population that is approximately 90% Hispanic, U. T. Rio Grande Valley's proposed program will contribute to the diversification of the scientific and engineering workforce by preparing students from underrepresented groups, most notably Hispanic students from South Texas, for a variety of careers in scientific and engineering institutions, industry, federal agencies, and higher education.

In addition to providing students with research opportunities, training in cutting edge technologies, active faculty mentoring, and technical guidance, the Ph.D. in Materials Science and Engineering incorporates coursework and activities to equip graduates with the skills and understanding of proper procedures to be effective teachers and research mentors, ensuring that they have experience in teaching, classroom technology, research grant proposal development, and strategies to build effective research teams that integrate undergraduate students in research activities. Seminars and invited talks will expose doctoral students to the leading researchers and teachers in the field and help them to make professional connections that will enhance future opportunities.

Need and Student Demand

According to the U.S. Bureau of Labor Statistics (BLS), employment in Science, Technology, Engineering and Mathematics (STEM) occupations in 2019 was 9.9 million, with a 10-year projection of 10.7 million. Based on the May 2020 Occupational Employment and Wages (OEW) report, 6,930 jobs were found related to the materials scientist occupation in the United States, with almost 6% in Texas. Overall employment in this field is expected to grow at an annual rate of 5% from 2019 to 2029, faster than the majority of other occupational categories. According to the available data from BLS and OEW, Texas is among the states with the highest number of employment opportunities in the area of interest, ranking third.

In 2019, the overall number of doctoral degree recipients in materials science and engineering in the U.S. was 992, according to the Survey of Earned Doctorates (SED) found through the National Science Foundation (NSF). In Texas, there are nine Ph.D. programs in materials science and engineering, where the total number of doctoral recipients was 83 in 2019; just 8.4% of U.S. awarded doctorates. Between 2015 and 2017 there was a notable increase of 91 in 2017. However, from 2017 to 2019 there was a slight decrease in the number of earned doctorates. This reflects the necessity for new doctoral programs in materials sciences and engineering to respond to labor market needs. According to Indeed and Glassdoor data from 2021, there were approximately 100 new jobs requiring a Ph.D. degree in materials science and engineering in the State of Texas and over 2,000 in the United States. The current job market requires more than those currently graduating with Ph.D.'s in materials science and engineering.

There is local demand for a materials science and engineering Ph.D. degree program among U. T. Rio Grande Valley College of Engineering and Computer Science (CECS) and College of Sciences (CoS) students. Through a survey administered to CECS and CoS students, there is clear interest in pursuing a Ph.D. degree in Material Science and Engineering at U. T. Rio Grande Valley. Enrollment projections for the proposed Ph.D. program estimate an average class size of 10 students. Attrition rates are not expected to exceed one student per year. The program expects to graduate nine students at the end of five years, with a cumulative five-year headcount of 35 students.

Program Quality

The program will include six existing core faculty, two new core faculty to be hired in years one and two of the program, and eleven existing support faculty. Core faculty members were selected based on their strength in research/scholarly activity, external funding, publications and patents, and their experience with supervising doctoral students. The number of publications and other scholarly accomplishments produced by core faculty total 185 for the past five years. The 11 support faculty members with backgrounds in engineering, materials science, computer science, and physics will serve as support faculty.

Revenue and Expenses

Expenses	5-Year Total
<i>Faculty</i>	
Salaries	\$2,124,754
Benefits	\$594,931
<i>Graduate Students</i>	
TA Salaries	\$2,076,000
TA Benefits	\$103,800
GRA Salaries	\$648,000
GRA Benefits	\$32,400
<i>Staff & Administration</i>	
Graduate Coordinator Salary	\$30,000
Administrative Staff Salaries	\$190,530
Staff Benefits	\$66,686
<i>Other Expenses</i>	
Scholarships	\$1,198,555
Equipment	\$450,000
Supplies and Materials	\$75,000
Marketing and Recruitment	\$10,000
Library Resources	\$10,000
Travel	\$15,000
Total Expenses	\$7,625,656

Revenue	5-Year Total
<i>From Student Enrollment</i>	
Formula Funding	\$1,408,139
Tuition and Fees	\$905,383
<i>From Institutional Funds</i>	
Institutional Enhancement	\$1,845,659
Reallocation of Existing Resources	\$3,144,585
<i>From Grant Funds</i>	
Grant Funds for GRAs	\$378,000
Total Revenue	\$7,681,766

Coordinating Board Criteria

The proposed program meets all applicable Coordinating Board criteria for new doctoral degree programs.

3b. U. T. San Antonio: Approval to establish a Doctor of Philosophy in Chemical Engineering degree program

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs and the institutional president that authorization, pursuant to Regents' *Rules and Regulations*, Rule 40307, related to academic program approval standards, be granted to

- a. establish a Doctor of Philosophy in Chemical Engineering degree program at U. T. San Antonio; and
- b. submit the proposal to the Texas Higher Education Coordinating Board for review and appropriate action.

BACKGROUND INFORMATION

Program Description

U.T. San Antonio proposes a Doctor of Philosophy (Ph.D.) in Chemical Engineering degree program within the Klesse College of Engineering and Integrated Design. The degree program is designed to prepare graduates to be leaders in chemical engineering industries and academia through strong academic preparation and to graduate with skills to solve current engineering challenges through performance of independent and interdisciplinary state-of-the-art research in the areas of health, energy, materials, and the environment.

Graduates of this research-intensive program will develop skills in chemical engineering and other disciplines that will enable them to apply cutting-edge engineering research to solve problems across traditional scientific boundaries and lead careers in industry, academia, or governmental research laboratories. The curriculum proposed is multidisciplinary with courses identified across science and engineering to support the program. The structure enables a flexible curriculum consistent with current best practices in the field.

Need and Student Demand

Chemical engineers are in high demand in fields critical to the Texas economy, including petroleum, natural gas, energy, environmental, petrochemicals, biotech, and pharma. The chemical engineering job market in Texas is expected to grow 20% by 2026. The petrochemicals market alone has been projected to increase in value by \$276 billion through 2030 (Precedence Research), with the demand for chemicals expected to grow by over 300 million metric tons. With the State of Texas lagging behind only China and Europe in chemical production, it is clear that there will continue to be demand for chemical engineers in Texas.

Employment opportunities are available in private industry, government, military, and public institutions. This includes industry from small, innovative startups to Fortune 500 companies. Given the demand, this proposed program will be a critical new source of skilled professionals needed in every chemical engineering industry, as well as at universities and other research institutions located throughout Texas and the nation.

In 2021, there were 230 job postings in Texas for Ph.D. in chemical engineering, but only 122 graduates were produced by Texas schools in 2021. In addition, there are eight such positions currently available in San Antonio, but there is no school in South Texas that offers a doctoral degree in chemical engineering. Texas is not producing a sufficient number of doctoral graduates in chemical engineering to meet the demand from the state. As the first chemical engineering Ph.D. program in South Texas, the program would help meet this demand in both South Texas and the state.

The program is projected to enroll seven new students annually, with a cumulative five-year headcount of 24 students. Students will be able to enter the Ph.D. program directly from U. T. San Antonio's undergraduate engineering programs.

U. T. San Antonio initiated a Chemical Engineering undergraduate program in 2017. The popularity of this program can be seen in the rapid growth of student enrollment from 27 to 146 students since starting the program four years ago, indicating a significant interest in chemical engineering as a career path. The undergraduate chemical engineering student population at U. T. San Antonio is diverse, with females making up 45.2% and underrepresented minorities making up 60% of the chemical engineering student population. This undergraduate population serves as a diverse pool of potential students for the proposed doctoral program.

San Antonio is the 7th largest and one of the fastest growing cities in the nation.

U. T. San Antonio serves much of the San Antonio and south Texas region. Only two cities in the top 10% by population nationwide, San Antonio and Dallas, do not have a university offering a Ph.D. degree program in chemical engineering. Despite the high demand for chemical engineers in fields that are highly present in the Texas economy (petroleum and natural gas, energy, environmental, medical, etc.), and Texas being the second largest state in the U.S., only six universities in the state offer a Ph.D. degree program in chemical engineering. This is lower than California (nine universities), but also lower than the number of universities in the fourth (New York, nine universities) and fifth (Pennsylvania, seven universities) largest states. In addition, enrollment in existing programs is primarily limited by the number of available research and teaching assistant positions. The R1 institutions in Texas consistently reject over 65-75% of qualified applicants (out of 100s of applications per institution) based on the data provided by these institutions.

Program Quality

The program will utilize 10 existing core faculty in the Department of Biomedical and Chemical Engineering and plans to hire three new core faculty members in the first five years of the program. In addition to the core faculty appointed in the Chemical Engineering program, six support faculty with chemical engineering expertise will serve the program, including faculty in biomedical engineering, environmental engineering, chemistry, mechanical engineering, mechanical engineering, and electrical engineering. As a young program, the chemical engineering faculty are highly productive, producing articles, awards, and citations well above the national median. Core faculty have been highly productive, producing an average of 49.6 papers per year over the past five years and have received prestigious national and international awards and recognitions.

All full-time students will be financially supported. Minimum support will consist of 1) coverage of tuition and fees for 21 credit hours to maintain full-time status (nine credit hours per long semester, three credit hours in the summer semester), 2) coverage of health insurance, and 3) minimum stipend of \$24,000 per year. Based on current tuition rates, this amounts to approximately \$41,000 of support per student per year.

The core and support faculty have a strong history of securing external support. The Department and Klesse College of Engineering and Integrated Design are committed to assist the Ph.D. program students through Graduate Teaching Assistantship support and Graduate Research Assistantship support. In addition to institutional funds, a philanthropic commitment for \$100,000 per year for a total of \$500,000 over five years has been secured to establish the proposed doctoral program in Chemical Engineering. These funds will be used to support graduate research assistant positions and to provide additional academic support (including adjunct faculty members and/or graduate assistantships).

Revenue and Expenses

Expenses	5-Year Total
<i>Faculty</i>	
Salaries	\$3,311,925
Benefits	\$1,158,174
<i>Graduate Students</i>	
GTA and GRA Salaries	\$840,000
GTA and GRA Benefits	\$560,000
<i>Staff & Administration</i>	
Graduate Coordinator Salary	\$75,000
Administrative Staff Salaries	\$45,000
Staff Benefits	\$42,000
<i>Other Expenses</i>	
Supplies and Materials	\$25,000
Start up	\$400,000
Total Expenses	\$6,457,099

Revenue	5-Year Total
<i>From Student Enrollment</i>	
Formula Funding	\$167,005
Tuition and Fees	\$617,997
<i>From Institutional Funds</i>	
Reallocation of Existing Resources (Faculty & Staff and GTA salaries + Benefits)	\$5,082,099
<i>From Other Revenue Sources</i>	
Philanthropy	\$510,000
STARS funding – start up for 2 new faculty	\$400,000
Total Revenue	\$6,777,101

Coordinating Board Criteria

The proposed program meets all applicable Coordinating Board criteria for new doctoral degree programs.

4. **U. T. System: Discussion and appropriate action regarding authorization to establish tuition and fee rates for the inaugural cohort of students enrolled in U. T. Tyler's School of Medicine**

RECOMMENDATION

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs, the Executive Vice Chancellor for Health Affairs, and the Executive Vice Chancellor for Business Affairs that the U. T. System Board of Regents approve tuition and fee rates for The University of Texas at Tyler Medical School's inaugural class as set forth on the following pages.

BACKGROUND INFORMATION

U. T. Tyler will enroll the first class of medical students in the Fall of 2023. As the University begins to recruit and enroll students, it needs to advertise the tuition and fee rates. The proposed rates are well below the national averages for public medical schools as reported by the Association of American Medical Colleges for the 2020-2021 academic year and are comparable to other U. T. System medical schools.

Summary of Proposed Initial Annual Tuition and Fee Rates for Medical Students

Tuition and fees for medical students include statutory tuition, designated tuition, mandatory fees, and additional fees required for medical education, including clinical skills fees, liability/malpractice insurance fees, lab and testing fees, educational software or electronic textbook fees, and immunization fees (not all fees are charged at all state medical institutions).

The proposed tuition plan, along with other funding sources, will allow the U. T. Tyler medical education program to achieve its goal of preparing physicians who are skilled clinicians, biomedical scientists, professional leaders, and innovators in the ongoing transformation of the health care system throughout East Texas, the State of Texas, and nationally. The program, the first doctoral program in medicine offered in East Texas, will train students for the medical workforce of the future by creating an exceptional educational experience for learners and by producing a diverse, broadly trained, competent, collaborative, and empathetic clinical workforce for East Texas and beyond. The program will leverage the size, scope, and strength of the university-owned teaching hospital system, U. T. Health East Texas, which is a 10-hospital, 50-plus clinical unit enterprise.

Given our intention to hold tuition rates in line with other U. T. System health institutions, our medical education program will be affordable to our students. M.D. students will also be eligible to receive grants and scholarships to defray the cost of a medical education. Additionally, thanks to the generous grant provided by the Fair Foundation, the inaugural cohort of 40 students will receive a scholarship covering the full cost of tuition for the 4-year program.

Summary of Proposed Annual Tuition

Tuition	Resident Rate	Nonresident Rate
Statutory Rate	\$6,550	\$19,650
Statutory Rate Differential	\$6,550	\$6,550
Designated Rate	\$7,000	\$9,840
Total Tuition	\$20,100	\$36,040

Summary of Proposed Annual Mandatory Fees

Fee Description	Rate
Arts and Performance Center Fee	\$75
Athletics Fee	\$480
Medical School Materials and Supplies Fee*	\$90
Library Fee	\$225
Medical Service Fee	\$107
Recreation Facility Fee	\$175
Student Services Fee	\$375
Student Union Fee	\$260
Student Records Fee	\$15
Technology Fee	\$480

*Note: All mandatory fees have been previously approved for U. T. Tyler students, except for the Medical School Materials and Supplies Fee, which is a new mandatory fee specifically for medical students, authorized by Texas Education Code Section 55.16.

Summary of Total Proposed Annual Tuition and Mandatory Fees

Description	Resident	Nonresident
Total Tuition	\$20,100	\$36,040
Total Mandatory Fees	\$2,282	\$2,282
Total Tuition and Mandatory Fees	\$22,382	\$38,322

Summary of Proposed Program Specific/Incidental Fees

Fee Description	Rate
Orientation Fee*	\$150
Liability Insurance*	\$25
Health Insurance*	\$3,333
ID Card*	\$20
Late Registration Fee	\$25
Transcript Fee	\$10
Installment Fee	\$25
Graduation Fee	\$75

* New fees/rates proposed for medical students; all other program specific/incidental fees were previously approved for U. T. Tyler students.

Item 4 attachment (Tuition and Fee)

AY 2023-2024

The proposed tuition and fees place the U. T. Tyler medical education program in the same affordability range as U. T. Health Science Center - San Antonio, U.T. Southwestern, and U. T. Medical Branch - Galveston. The proposed rates are approximately 6% above the U. T. System medical school average and approximately 5% below the U. T. Health Science Center - Houston's McGovern Medical School.

The proposed rates are well below the national averages for public medical schools (\$39,142) and private medical schools (\$63,989), as reported by the Association of American Medical Colleges (AAMC) comparison for the 2020-2021 academic year.

The following statutes were referenced in setting the tuition and fees for the U. T. Tyler Health Science Center School of Medicine's entering cohort:

- Texas Education Code, Section 54.051 (f) Statutory Tuition
- Texas Education Code, Section 54.008 (a), Tuition Rate Set by Governing Board
- Texas Education Code, Section 54.503, Student Service Fees
- Texas Education Code, Section 54.0513, Designated Tuition
- Texas Education Code, Section 54.534, Arts and Performance Center Fee
- Texas Education Code, Section 54.5341, Student Recreational Facility Fee
- Texas Education Code, Section 54.342, Intercollegiate Athletics Fee
- Texas Education Code, Section 54.343, Student Union Fee
- Texas Education Code, Section 54.50981, Medical Services Fee: The University of Texas System Components
- Texas Education Code, Section 54.504, Incidental Fees
- Texas Education Code, Section 55.16, Board Responsibility
- Texas Education Code, Section 56.033, Tuition Set-Aside Requirements
- Texas Education Code, Section 61.539, Medical Tuition Set-Aside for Loan Repayment Program

5. **U. T. Tyler: Report on the Long Range Financial Plan for The University of Texas at Tyler**

President Calhoun will report on the long-range financial planning at U. T. Tyler using the PowerPoint on the following pages.

RISE ^{AS} One

LONG-RANGE FINANCIAL PLAN

Kirk A. Calhoun, MD
U. T. System Board of Regents Meeting
Academic Affairs Committee
August 24, 2022



UT TylerTM
THE UNIVERSITY OF TEXAS AT TYLER

Long-Range Financial Planning Framework

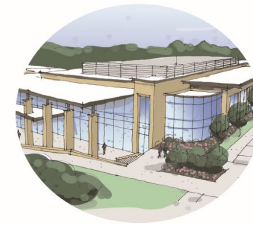


IMPACT

Operational Excellence - Socioeconomic Impact - Enhanced Reputation
 Increased Breadth, Scale, and Outcomes of Educational Impact



Looking Back at Our Growth



THE ANNOUNCEMENT HEARD AROUND THE REGION

- Creation of UT Health East Texas
- College of Business and Technology renamed Soules College of Business and relocated to state-of-the-art facility
- University submits application to move to NCAA Division II

2018

EXPANDING COMMUNITY AND RURAL HEALTH THROUGH EDUCATION AND OUTREACH

- U. T. System BOR announce the alignment of U. T. Tyler and Health Science Center
- Regents allocate \$90 million for new U. T. Tyler nursing facility and Medical Education Building
- U. T. Tyler recognized by Carnegie with new Doctoral Research Classification (R2)

2019

EAST TEXAS, IT'S TIME FOR YOUR MEDICAL SCHOOL

- U. T. System Board of Regents announce plans to establish the U. T. Tyler School of Medicine
- U. T. System BOR names Dr. Calhoun president of the unified UT Tyler
- U. T. Tyler ranked as National University and Top Public School

2020

ELEVATING THE DIVERSITY AND LEVEL OF TALENT THROUGHOUT U. T. TYLER

- Successful recruitment of permanent deans in the Soules College of Business and School of Medicine (SOM)
- Successful recruitment of 11 SOM faculty members (four assistant deans and seven associate deans)

2021

LOOKING FORWARD

- U. T. Tyler submits draft FY2023-2027 Strategic Plan to U. T. System
- U. T. Tyler commits to growing enrollment to 15,000 students over the next five years
- Successful recruitment of Chief Business Officer
- Initiated Master Planning effort

2022



RISE AS One

Our Mission:

UT Tyler is a comprehensive public university.

We help our students, patients, and community members achieve their educational and health goals by offering a combination of excellence in higher education, research, public service, and advanced healthcare delivery.

Our Vision:

UT Tyler will be an impactful, values-centered institution unified in common purpose; a community that fosters opportunity, committed to providing a uniquely balanced student experience and improving the quality of human life.

Our Values:

- Servant Leadership • Excellence • Accountability • Diversity

RISE^{AS}One



Enrich the Student Experience

Increase student mentorship, experiential learning, and professional development opportunities for students.

Promote student engagement.

Increase research experiences to be broadly available to all graduate and undergraduate students by fall 2027.

Support a growing student body by advancing a campus climate that cultivates justice, equity, diversity, and inclusion.



Elevate Economic Opportunity & Social Mobility for Our Students

Increase educational impact to meet the demands of Texas learners through enrollment growth to 15,000 students by 2027.

Enhance the delivery of flexible programs and additional supports for students.

Increase the number of quality academic and cocurricular programs across all disciplines.

Be the destination institution for students seeking careers in health professions.

Ensure student success through achieving excellence in outcomes assessment.



Partner & Collaborate in Service to Our Community

Be a Carnegie Community-Engaged University.

Establish a workforce pipeline that creates a positive impact on the community and all East Texas.

Foster an inclusive culture among all stakeholders by improving the campus climate for members of the community.

Lead innovation on care delivery and research models for complex populations in rural communities.

Long-Range Financial Plan | 7



Advance Excellence in Teaching, Research & Healthcare

Invest in current faculty and staff, creating a campus culture of belonging.

Double research expenditures by 2027.

Leverage growth trajectory and reputational momentum to attract diverse talent.

Grow medical education and other health education programs to serve East Texas providers and caregivers.



Ensure Sustainability & Foster Accountability

Establish efficiencies to make college education more affordable.

Grow philanthropic giving necessary to support the institution's mission.

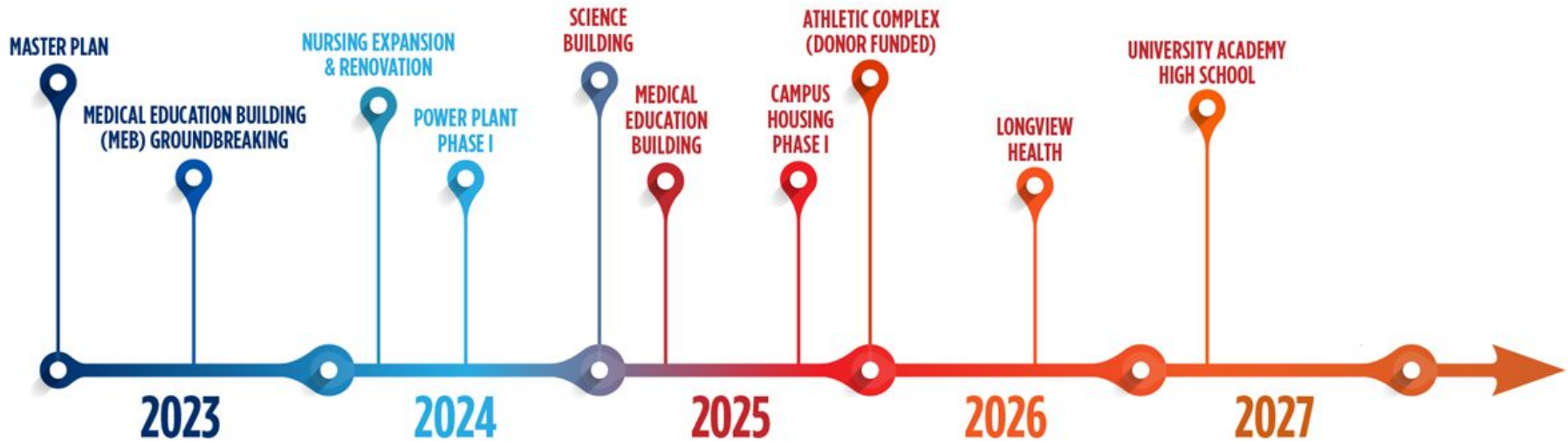
Create a culture of accountability and transparency.

Expand infrastructure and facilities to support university growth.

Pursue opportunities to diversify revenue sources.

Streamline and strengthen integrated shared services by leveraging synergies across the University.

U.T. Tyler Capital Plan Projected Completion Dates



Agenda Book - 252



Long-Range Targets



GROWTH TARGETS	PROJECTED BASELINE					TARGET
	AY22	AY23	AY24	AY25	AY26	AY27
Undergrad Enrollment	7,285	7,697	8,280	9,067	9,933	10,885
Graduate enrollment	2,119	2,331	2,611	2,924	3,275	3,668
Doctoral Enrollment (<i>includes SOM</i>)	323	357	439	546	656	689
FTIC Freshman Retention (<i>excludes CAP students</i>)	80%	83%	86%	90%	90%	90%
Research Expenditures (\$ in Millions)	\$27.8	\$33.4	\$38.9	\$44.5	\$50.1	\$55.6
Freshman 6-year Graduation Rate (<i>excludes CAP transfers</i>)	43%	45%	47%	49%	52%	55%
Transfer 4-Year Graduation Rate	64%	65%	66%	67%	68%	70%

FINANCIAL TARGETS	PROJECTED BASELINE					TARGET
	FY22	FY23	FY24	FY25	FY26	FY27
Operating Margin	-1.3%	-1.3%	-1.3%	-1.9%	-1.4%	-1.4%
Operating Margin (net of depreciation)	5.0%	5.4%	5.3%	6.0%	7.6%	7.3%
Debt Service to Operations	1.3%	2.6%	2.7%	2.9%	3.9%	3.9%
Cash on Hand (days)	58.0	69.1	75.9	84.9	100.4	111.1
UT System Scorecard	3.9	4.0	3.7	3.9	3.9	4.0
Unrestricted Cash & Investments to Total Debt	1.40	1.70	1.70	0.90	1.00	1.20
Total New Gifts (\$ in Millions)	\$12.62	\$14.46	\$17.66	\$20.19	\$22.71	\$25.23



Growth Assumptions



Enrollment

- Average Total Annual Enrollment Growth
 - Undergraduate: 8.8%
 - Graduate: 11.6%

Research

- Average Annual Research Expenditure Growth: 15%

Philanthropy

- Endowment Growth: 3 - 6%
- Average Annual Growth in Total Gifts: 15%

Healthcare

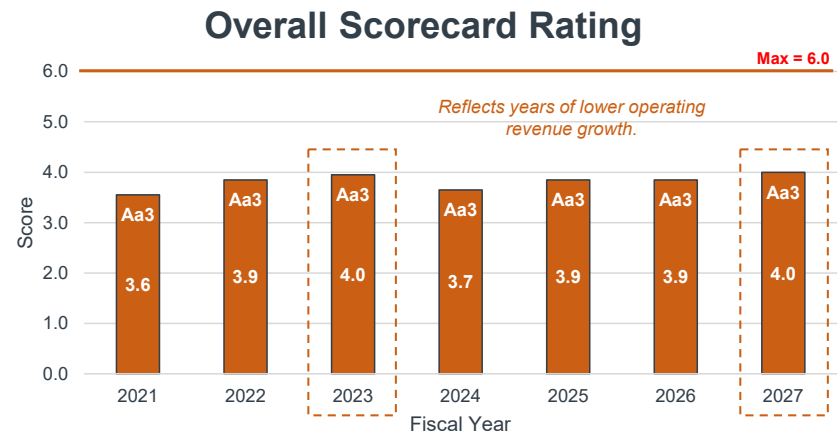
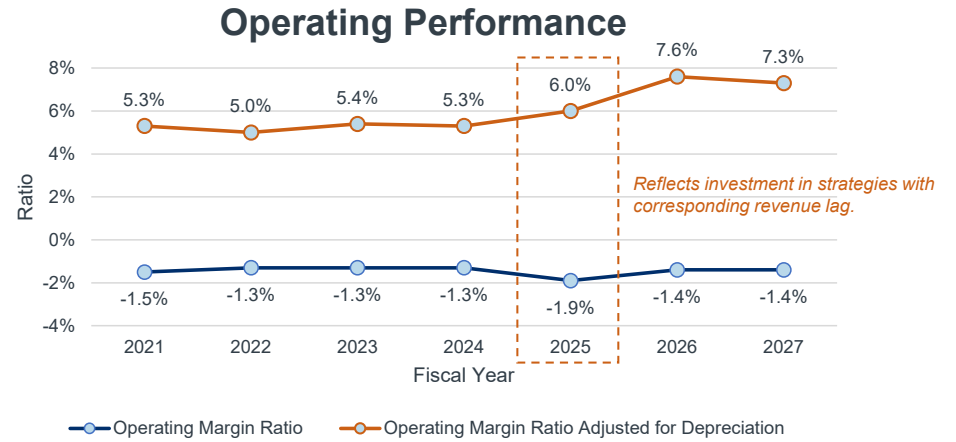
- Average Annual Hospital Revenue Growth: 4.4%



Financial Health Indicators



- Cash positive before and during strategic investments.
- Operating margins hit a low point in Fiscal Year 2025 due to formula funding lag.
- Overall scorecard ratings increase to the midpoint of the Aa3 range due to low operating revenue growth in Fiscal Years 2023 and 2027.
- Ongoing monitoring and assessment is key to achieving this plan.

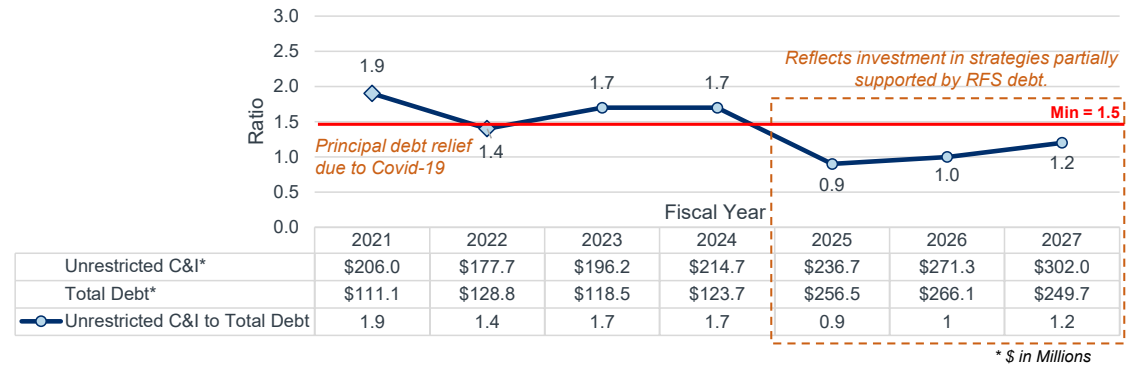


Financial Health Indicators

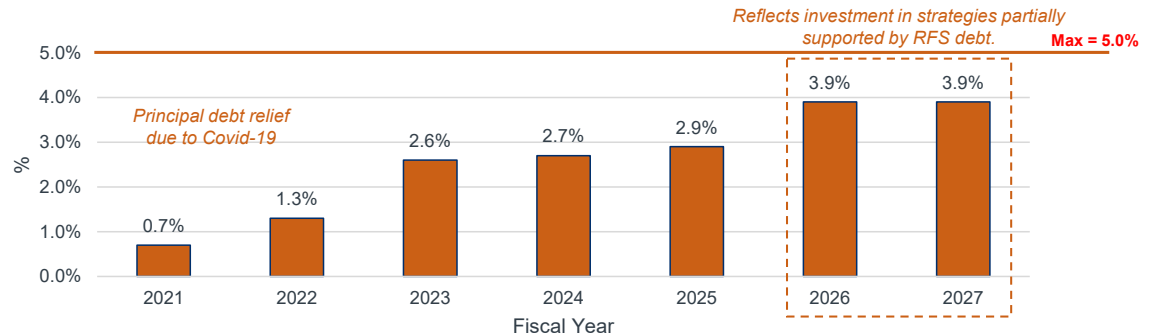


- Formula funding lag corresponding to ambitious student enrollment growth will affect unrestricted cash balance in Fiscal Year 2025.
- New RFS debt acquired for campus housing and medical education buildings will affect debt balances in Fiscal Years 2026 and 2027.
- Financial stress period is between Fiscal Years 2025 to 2027.

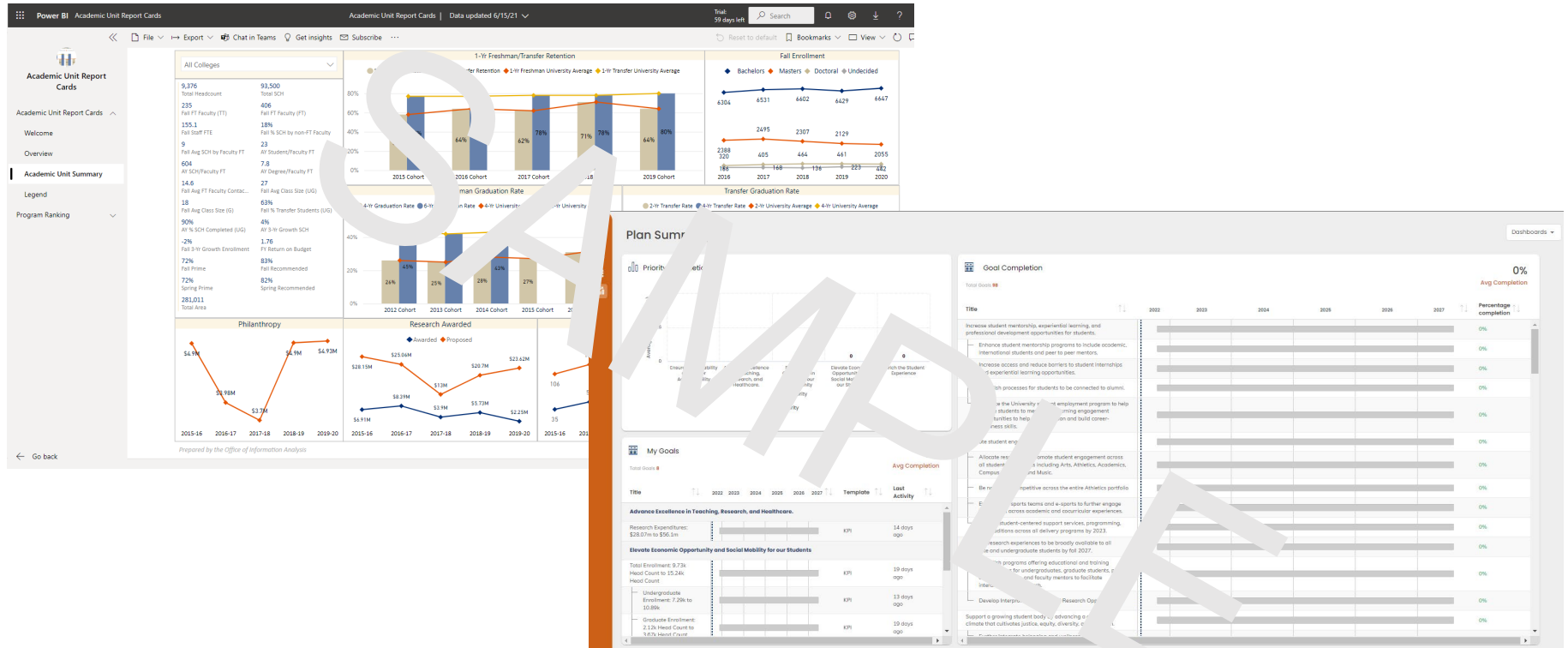
Unrestricted Cash & Investments to Total Debt



Debt Service to Operations



Setting Goals & Ensuring Accountability



6. U. T. Austin: Discussion on the Texas Institute for Electronics (TIE): Manufacturing of Next Generation Semiconductor Systems in Preparation for the U.S. CHIPS Act; and discussion and appropriate action regarding amendment of the current Capital Improvement Program to include the Microelectronic and Engineering Research Center (MER) Cleanroom Renovation and Expansion Phase A project; approval of total project cost; appropriation of funds; and resolution regarding parity debt

RECOMMENDATION

Following remarks from President Hartzell and Chancellor Milliken concerning the Texas Institute for Electronics (TIE) and how it will enable U. T. Austin and the State of Texas to compete most effectively for a share of federal CHIPS Act funding and cement Texas as a national leader in the semiconductor industry, the Board will be asked to consider the following Recommendation:

The Chancellor concurs in the recommendation of the Executive Vice Chancellor for Academic Affairs, the Executive Vice Chancellor for Business Affairs, and the institutional president that the U. T. System Board of Regents amend the current Capital Improvement Program (CIP) to include the Microelectronic and Engineering Research Center (MER) Cleanroom Renovation and Expansion Phase A project at The University of Texas at Austin as follows:

- a. amend the current CIP to include the project and approve a total project cost of \$45,000,000 for Phase A to purchase long-lead research equipment;
- b. appropriate funds and authorize expenditure of \$45,000,000 from Tuition Revenue Bond (TRB) Proceeds; and
- c. resolve in accordance with Section 5 of the Amended and Restated Master Resolution Establishing The University of Texas System Revenue Financing System that parity debt shall be issued to pay the project's cost, including any costs prior to the issuance of such parity debt; sufficient funds will be available to meet the financial obligations of the U. T. System, including sufficient Pledged Revenues as defined in the Master Resolution to satisfy the Annual Debt Service Requirements of the Financing System, and to meet all financial obligations of the U. T. System Board of Regents relating to the Financing System; and U. T. Austin, which is a "Member" as such term is used in the Master Resolution, possesses the financial capacity to satisfy its direct obligation as defined in the Master Resolution relating to the issuance by the U. T. System Board of Regents of tax-exempt parity debt in the aggregate amount of \$45,000,000.

BACKGROUND INFORMATION

Additional background information is provided on the following pages.



TEXAS INSTITUTE FOR ELECTRONICS

Current National Challenges

With semiconductor devices and systems now impacting all aspects of daily life, demand for such technologies is growing in exponential — and potentially limitless — ways. Given such massive growth in overall demand, the consequences of falling behind in these advanced technologies are more dire today than ever before.

Our national security is at risk if the U.S. military and intelligence community lose the competitive advantage over our adversaries — particularly China — in both semiconductor infrastructure and technology. In addition, the U.S. is over-reliant on foreign manufacturers (notably Taiwan) for semiconductor fabrication, leaving our supply chain vulnerable to aggression by hostile powers.

The Texas Response

To respond to these challenges, it is critical to invest in semiconductor research & development and fabrication efforts so that the U.S.:

- maintains an **innovative edge** for both national security and economic growth;
- capitalizes on the significant **economic impact** of this sector (the global semiconductor market is expected to grow to \$551B in 2021);
- ensures that the **U.S. military** has access to critical electronics infrastructure and technologies; and
- stabilizes **supply chains**, to prevent disruptions, like the chip shortage hobbling many industries today.

Every direct job in the semiconductor industry supports an additional 5.7 jobs in other industries.

UT Austin proposes building the **Texas Institute for Electronics (TIE)**, a public-private partnership to address the needs of both industry and government and help recruit, educate and train the next generation of high-skilled industry innovators with a:

- **R&D-fab:** An innovation-oriented fab focusing on visionary and forward-looking technologies (\$110M secured-TRB)
- **Secure-fab:** A fab with security clearance to support technology development and supply-chain needs of the defense electronics sector (\$80M); and
- **Texas Innovation-fab:** Leading edge fab infrastructure to support current industry needs, maintain U.S. technological and economic advantages, and ensure supply chain security (\$110M)

UT Austin seeks funding from the State of Texas to launch the Texas Institute for Electronics.

A state investment in this one-of-a-kind project will uniquely position Texas to effectively compete for a share of the \$13B in federal funds in the CHIPS Act and cement Texas as a national leader in the semiconductor industry. TIE would be financially self-sustaining through a public-private partnership among industry, national laboratories and academic partners.



NATIONALLY RANKED

- #10 - UT Austin Computer Science
- #10 - UT Cockrell School of Engineering

Texas has all the elements necessary to address the country's commercial and defense needs in this field.

10%
of U.S. engineers educated in TX

#2
state in U.S. for economic productivity in semiconductor industry

Why UT Austin

This initiative will leverage and expand existing infrastructure, research capabilities, world-class talent and degree programs at UT Austin. The university has a long history of supporting small and mid-sized tech start-ups and promoting successful nanotech spinouts. State investment will allow more entrepreneurs to innovate and expand in Texas, creating thousands of high-technology jobs.

Currently, UT Austin houses multiple internationally recognized centers, labs and partnerships necessary to facilitate this type of collaboration:

- **Nanomanufacturing Systems Center** (NASCENT) — takes nano-science discoveries from the lab to market
- **Microelectronics Research Center** (MRC) — also the headquarters of the NSF funded National Nanotechnology Coordinated Infrastructure
- **Texas Advanced Computing Center** (TACC) — which hosts the world's fastest academic supercomputer
- **Applied Research Laboratories** (ARL:UT) — A University Affiliated Research Center (UARC) with oversight by the Naval Sea Systems Command
- **Army Futures Command Partnerships** Army Research Laboratory South (ARL South) and the Robotics Center of Excellence (RCOE)

MULTIPLIER EFFECT OF INVESTING IN CHIPS

- Create Jobs
- Protect National Security
- Prepare Future Innovators and Leaders
- Meet Consumer Needs
- Advance and Improve Technology
- Prepare for Future Demand
- Promote Start-Ups
- Expand Industry and Business Opportunities
- Drive Innovation in Other Sectors

At the national level, a partnership between the State of Texas, UT Austin and other educational partners, preeminent semiconductor systems and defense electronics companies would create a best-in-class public-private electronics ecosystem. These efforts will make Texas competitive with other universities in states that are expected to compete for CHIPS funding.