Transforming Health

Programs Spanning the Health Professions
Campuses Spanning the State

Roderick E. McCallum, Ph.D., Vice President for Academic Affairs
A “VIRTUAL UNIVERSITY” FOR TEXAS

Operating as a cost-effective, streamlined university, using information technology to connect campuses.

1. Dallas - Dentistry, Medicine

2. Bryan-College Station - Medicine, Nursing, Biomedical Sciences, Rural Public Health

3. Temple - Medicine, Rural Public Health, Pharmacy

4. Round Rock - Medicine, Nursing, Pharmacy

5. Houston - Institute of Biosciences & Technology

6. Kingsville - Pharmacy

7. Corpus Christi - Coastal Bend Health Education Center

8. McAllen - Rural Public Health
EXCELLENCE IN EDUCATION

- The **College of Medicine** trains physicians more cost-efficiently than any other school and leads the state in licensure pass rates.
- The **Rangel College of Pharmacy** is the only professional school in South Texas; half of the graduates are practicing in the region.
- **Baylor College of Dentistry** has the nation’s most diverse dental school student body, producing dentists for undeserved areas.
- Graduates of the **College of Nursing** routinely lead the nation in licensure pass rates.
- The **School of Rural Public Health** is a top ranked school and is one of the three most diverse schools in the country.
- 100% of graduates from the **School of Graduate Studies** are employed in academics and/or research within 1 year of graduation.
MULTI-CAMPUS INSTRUCTION/TECHNOLOGY

- Online courses
- Video-conference lectures
- Virtual campus
First and second-year classes in Bryan-College Station or Temple.

Third and fourth year clinical training at regional clinical campuses around the state.

Degree Programs at Bryan-College Station, Temple, Round Rock, Dallas, Houston, Corpus Christi:
- M.D.
- M.D./Ph.D. Combined Program
- M.D. Plus Program
COLLEGE OF MEDICINE

Bryan

Temple
COLLEGE OF MEDICINE

Round Rock

Dallas
SCHOOL OF RURAL PUBLIC HEALTH

- Ranked as a top 25 best school of public health by US News Education.

- Degree Programs at Bryan-College Station, Temple, Austin and McAllen:
  - Master of Public Health, M.P.H.
  - Master of Science in Public Health, M.S.P.H
  - Master of Health Administration, M.H.A.
  - Doctor of Philosophy in Health Services Research, Ph.D.
  - Doctor of Public Health, Dr.P.H.
SCHOOL OF RURAL PUBLIC HEALTH

Bryan-College Station

Temple

McAllen
COLLEGE OF NURSING

- Admitted first class in fall 2008.
- 99% pass rate on national licensure exam.
- Degree Programs at Bryan-College Station and Round Rock.
  - Traditional BSN
  - Second Degree BSN
  - RN to BSN (online)
COLLEGE OF NURSING

Bryan-College Station campus

Round Rock campus
SCHOOL OF GRADUATE STUDIES

- Master’s and doctoral programs in biomedical sciences
- MS in Education for healthcare professionals

Degree programs at:
- College of Medicine in College Station and Temple
- Baylor College of Dentistry in Dallas
- Institute of Biosciences & Technology in Houston
SCHOOL OF GRADUATE STUDIES

Bryan-College Station

Houston

Temple

Dallas
Classrooms and labs for first and second year students.
Simulation lab and public clinic for third and fourth year students.
CTSA grant with UT Southwestern for interdisciplinary research and training.
Added new pipeline program, now have 7 active programs.
Dental Simulation Clinic opened in 2002 as first in Texas

Degree Programs:
- Doctor of Dental Surgery, D.D.S.
- Advanced Dental Education, M.S./Certificate,
- Dental Hygiene, B.S.
- Oral Biology, M.S.
First health-related professional school in South Texas.
Located on campus of Texas A&M University - Kingsville.
Clinical training and experiences through a network of faculty members. (Map)
Degree Programs:
- Doctor of Pharmacy (Pharm.D.)
RANGEL COLLEGE OF PHARMACY
Centers & Institutes
COASTAL BEND HEALTH EDUCATION CENTER

- Provides continuing medical education opportunities for health professionals.
- Supports programs that recruit students into health-related professions.
- Aids residents with healthcare needs related to diabetes and medication assistance.
- Participates in community outreach efforts throughout its 19-county service area.
- (Left) Mock emergency of a lab explosion during CBHEC Health Careers Discovery Camp.
COASTAL BEND HEALTH EDUCATION CENTER
Extension center that promotes safe, effective practices across Texas

Services, tools for small community or rural facilities

Implements electronic health records, continuing education for physicians and nurses

Improving the way your doctors do business to provide excellent care

113 active contracts with hospitals for quality assurance; CentrEast (part of a temporary grant) has 241 active contracts
Located in the Texas Medical Center in Houston.

Conducts world-class research and trains the next generation of health care professionals and scientists.

Provides a bridge between Health Science Center investigators and scientists across the Texas Medical Center and the growing biotechnology sector in Houston.

Students trained at this facility are included in the programs offered by the School of Graduate Studies.

Highest per capita research funding of components at Health Science Center.
INSTITUTE OF BIOSCIENCES AND TECHNOLOGY
What does all of this mean for Texas?
HEALTH CARE WORK FORCE SHORTAGES

In the year 2013 the U.S. will need:

- 27,000 new physicians (particularly primary care)
- 10,000 new pharmacists
- 159,000 new registered nurses
- 6,000 new dentists, and better distribution in underserved areas
GROWING EFFICIENTLY AND EFFECTIVELY TO SERVE TEXAS

Student Enrollment

<table>
<thead>
<tr>
<th>Year</th>
<th>Enrollment</th>
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<tr>
<td>2000</td>
<td>882</td>
</tr>
<tr>
<td>2005</td>
<td>1169</td>
</tr>
<tr>
<td>2012</td>
<td>2288</td>
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TAMHSC has more than tripled its research enterprise from $17.8 million in FY 2000 to $55.7 million in FY 2011.

IBT ranks in the top 40 institutions in the country in terms of individual scientist productivity.

Interdisciplinary research by nursing, medicine and pharmacy faculty has identified a protein marker specific to cardiac dysfunction stemming from exposure to ozone. This finding may enable treatments for heart disease patients exposed to air pollution.
## RESEARCH...KEY TO A FIRST CLASS EDUCATION

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<th></th>
<th>2001</th>
<th>2011</th>
<th>Percent Increase</th>
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<tbody>
<tr>
<td>All Research Related Expenditures</td>
<td>$37,328,465</td>
<td>$71,707,467</td>
<td>92%</td>
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<tr>
<td>Percent of faculty with research grants</td>
<td>50%</td>
<td>70%</td>
<td>40%</td>
</tr>
<tr>
<td>Research funding per faculty member</td>
<td>$101,712</td>
<td>$145,747</td>
<td>43.3%</td>
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MASTER PLAN FOR BRYAN CAMPUS
SIMULATED OPERATING ROOM
CLINICAL EXAM ROOMS
WHAT’S NEXT?

STRATEGIC FOCUS: 2013-2018

- Meet Texas’ workforce needs in diversity, primary care, nursing, rural/underserved populations.

- Continue to provide innovative solutions to challenges facing communities across the state.

- Sustain the overall excellence and productivity of the Health Science Center in education, service, and research.
Questions?

Roderick E. McCallum, Ph.D.
mccallum@tamhsc.edu

www.tamhsc.edu