



Spring 2013 Faculty Meeting

Costas Tsatsoulis

Dean

A green light to greatness.™

UNT®

Strategic Plan

MISSION

The mission of the UNT College of Engineering is to capitalize on the opportunity for innovation and excellence in teaching, research and service. This will be achieved by a strategic alliance among all of the college's constituencies in the region, the state of Texas and the nation. The constituencies involved include foremost our undergraduate and graduate students as well as academic units and industry, particularly in North Texas, so as to foster economic development and promote an academically diverse environment.

VISION

The vision of the College of Engineering is to have the highest quality teaching and research programs in North Texas and beyond:
in strategically selected areas of engineering, engineering technology, and computer science that service the community, industry, and the profession;
in an intellectually stimulating and diverse environment; and
in support of industry and economic development.

A green light to greatness.™

UNT®

Strategic Plan

STRATEGIC PLAN

The strategic plan presents strategies, actions and metrics to develop undergraduate and graduate programs, and enhance the research, reputation and advancement of the UNT College of Engineering (CENG) from its current state in FY 2010 to its desired state in FY 2014 consistent with its mission and vision.

Goal 1: Undergraduate Education

CENG will provide a rigorous educational experience to a diverse student body.

Strategies:

Develop and sustain excellent undergraduate programs that achieve accreditation

Increase the quality of incoming students

Increase retention and facilitate timely graduation

Increase student involvement in their university and their profession

Enhance career development opportunities for students and expand partnerships with employers

Actions:

Actively recruit undergraduate students to achieve moderate growth in the size of the CENG undergraduate body

Develop a pool of CENG scholarships to attract the best students

Increase the opportunities CENG undergraduates have to be engaged in CENG, UNT, and the student professional societies

Reduce the student to faculty ratio to 22.5 by hiring qualified faculty

Increase the engineering undergraduate enrollment to 8% of the UNT undergraduate enrollment while maintaining a

faculty to student ratio of 22.5 to 1

Raise the retention rate of underrepresented students to the same levels as all students

A green light to greatness.™

UNT®

Undergraduate Education Metrics

METRIC	THEN	NOW
Total undergraduates	1430	2195 (7.6% - total: 28,911)
Student-to-faculty ratio	21.3	25.5 (need 21 additional faculty members)
BS/BA students graduating	124	201
Total applicants	1660	1945
% of applicants admitted	67.7%	54.0%
% yield	44.9%	52.0%
Math SAT of enrolled	585	611
Total SAT of enrolled	1107	1156

A green light to greatness.™

UNT®

Undergraduate Education Metrics

METRIC	THEN	NOW
FTIC retention	70.80%	74.70%
Freshman retention	69.30%	71.10%
Sophomore retention	73.30%	73.10%
Junior retention	75.80%	80.30%
Senior retention	86.40%	89.20%
UNDERREPRESENTED STUDENTS		
FTIC retention	66.70%	73.00%
Freshman retention	68.30%	68.90%
Sophomore retention	83.30%	67.30%
Junior retention	66.10%	75.00%
Senior retention	82.80%	85.00%

Undergraduate Education Metrics

METRIC	ALL	URSinE
FTIC retention	74.70%	73.00%
Freshman retention	71.10%	68.90%
Sophomore retention	73.10%	67.30%
Junior retention	80.30%	75.00%
Senior retention	89.20%	85.00%

A green light to greatness.™

UNT®

Strategic Plan

Goal 2: Graduate Education and Research and Scholarship

CENG will provide a rigorous graduate experience to a diverse student body. Students will be engaged in research and scholarship activities. CENG will significantly increase its levels of funded research and scholarly productivity in order to enhance undergraduate and graduate education, contribute to economic growth, and improve CENG's and UNT's standing among peer institutions.

Strategies:

- Develop and sustain excellent graduate programs
- Increase the quality of incoming students and facilitate timely graduation
- Increase the number of doctoral students
- Engage students in scholarly and research activities
- Increase the level of funded research activity
- Increase the scholarly output of tenured and tenure-track faculty
- Engage in technology transfer

Actions:

- Actively recruit graduate students, especially doctoral students
- Support the faculty in identifying funding opportunities and submitting research proposals
- Strengthen faculty development, recognition and reward systems that value graduate education, research and scholarship
- Encourage the acquisition of patents and copyrights, and IP transfers through UNT

A green light to greatness.™

UNT®

Graduate Education Metrics

METRIC	THEN	NOW
Total MS students	242	306
Total PhD students	58	136
Ratio of MS to PhD students	4.00	2.25
MS/PhD graduates	69/9	131/9
Total MS applicants	478	511
Total PhD applicants	40	102
% MS admitted	41.2%	47.4%
% PhD admitted	57.5%	52.0%
MS yield	29.0%	34.3%
PhD yield	47.8%	47.2%

A green light to greatness.™

UNT®

Research and Scholarship Metrics

METRIC	THEN	NOW
Total awards	\$3.8M	\$9.2M
Total competitive awards	\$3.5M	\$9.2M
Per faculty awards	\$75,980	\$145,683
Per faculty competitive awards	\$69,582	\$145,683
Total expenditures	\$5.1M	\$9.6M
Total competitive expenditures	\$3.1M	\$7.6M
Per faculty expenditures	\$102,192	\$145,473
Per faculty competitive expenditures	\$62,400	\$114,615
Proposed \$\$ submitted	\$25M	\$63.7M
Patents in past 3 years	1	19
Publications	4.63	6.14

A green light to greatness.™

UNT®

Strategic Plan

Goal 3: Enhanced Reputation and Advancement

CENG will distinguish the reputation of its scholarship and research endeavors through an emphasis in the unique creative and innovative abilities represented in its diverse faculty and student body. This focus is inherent; discovery and dissemination of new knowledge represents the essence of the College and it will be manifest through enhanced interactions and relationships with a broad range of external constituents. Such a reputation will inspire involvement and giving by alumni and friends, including corporate partners.

Strategies:

- Increase the number of faculty in leadership positions in the profession

- Enhance communication activities designed to increase involvement of alumni and friends in the life of CENG

- Increase the visibility of CENG through hosted events, media coverage, and participation of industry and academia leaders in CENG activities

- Align philanthropic priorities and activities that support the CENG strategic goals, including education, research, and scholarship

- Increase faculty involvement in public service activities, particularly those activities aligned with their technical expertise, that promote positive visibility for the college

- Increase the number of faculty who involve local industry, in some manner or form, with their instructional or research agenda

Actions:

- Encourage faculty to take leadership positions in the profession and reward such service

- Organize and host community outreach events

- Keep alumni and friends of CENG continuously informed

- Engage alumni and friends in CENG activities

- Advertise the successes of CENG faculty and students

- Identify giving priorities for CENG

- Increase donations to CENG

- Encourage faculty to become involved in public service activities and reward such service

- Encourage the building of interdisciplinary relationships with other programs within UNT and with other institutions

- Encourage faculty to actively interact with industry (e.g., guest speakers for classes, field trips for students, small scale material/equipment donations, etc.) and reward such interaction

A green light to greatness.™

UNT®

Reputation and Advancement

METRIC	THEN	NOW
Total/pctg of CENG faculty in leadership positions	21/41%	28/42%
Number of members of CENG IAB	14	22
Companies at Career Fair	19	120
Posted Internships	307	946
Donations by individuals	\$8,094	\$41,101
Donations by corporations	\$416,247	\$346,468

A green light to greatness.™

UNT®