

**ANNUAL ASSESSMENT REPORT
AND
STRATEGIC PLANNING UPDATE
Year: 2007**

Area or Unit Name: COLLEGE OF ARTS AND SCIENCES

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Section 1. Goals and Accomplishments

Goal 1: Access and Diversity: Recruit, retain, and graduate a larger, more academically prepared, and more diverse student body.

- Total student headcount in A&S in fall 2007 was 9238, a slight decrease from 9291 in 2006, but significantly higher than five years ago at 8669.
- There were 539 master's students and 591 doctoral students in fall 2007, representing a slight decrease in master's students over the past two years, but a marked increase in doctoral students.
- The average SAT score of new students entering A&S in 2007 was 1075, slightly lower than the average of 1106 in 2006. The average total GRE score for new graduate students in A&S in 2007 was 1103, essentially unchanged from the average of 1107 in 2006 and slightly higher than the average of 1090 five years ago. The GRE-Verbal was lower in 2007 (482) compared to 2006 (495), but the GRE-Math was higher (621 vs. 612).
- Arts and Sciences awarded a total of 1715 degrees in 2006-2007, compared to 1681 in 05-06 and to 1142 in 01-02. The bigger increase for 06-07 was in baccalaureate degrees, as 1401 were awarded. Master's and doctoral degrees were equivalent in number in 06-07 (238 and 76 respectively) to the year before (237 and 77).
- The College of Arts and Sciences awarded \$172,500 in undergraduate scholarships effective fall 2007. Of these, 60 were merit scholarship awards totaling \$72,000; and 29 were need-based scholarships totaling \$101,500. These are the highest numbers and dollar amounts for A&S scholarships awarded in the past six years.
- Academic advisors in the Student Division of the Arts and Sciences Deans Office processed nearly 5500 degree audits each semester in 2007.
- Retention and graduation rates in 2007 were equivalent to the rates in 2006--81% retention (82% in 2006) and 52% graduation (same as 2006).
- Enrollments by students from underrepresented groups were higher in 2007 than 2006 for Asians (336 vs 299), Blacks (489 vs 416), and Hispanics (1341 vs 1268). Enrollments by American Indians were slightly lower (65 vs 71).

Goal 2: Human Resources and Infrastructure: Increase and use resources to recruit and retain quality faculty and staff and to support an optimal work environment.

- The college instituted a revised mentoring program in 2007 where all incoming new faculty were offered two mentors, one from the new faculty member's department and one from another department in the college. A mentoring workshop was held where mentoring assistance and expectations were discussed. A welcoming luncheon was held for all mentors and mentees with the Dean and Associate Deans in September.
- The total number of Arts and Sciences faculty (Lecturers through Professors) increased to 515 in 2007 from 506 in 2006. Tenured/tenure-track faculty headcount increased by 4, from 383 in 2006 to 387 in 2007. Total FTE faculty (including Graduate Teaching Assistants) increased from 777.8 in 2006 to 784.2 in 2007.
- The total number of minority faculty in Arts and Sciences (Lecturers through Professors) decreased slightly from 40 in 2006 to 38 in 2007.
- Student-credit-hour (SCH) production per FTE faculty remained relatively constant at 237 in 2007 compared to 234 in 2006.
- The Arts and Sciences student/faculty ratio was 16:1 in 2007, same as in 2006.
- In 2007, four Arts and Sciences faculty received the President's Excellence in Teaching Award; 3 faculty received the President's Book Award; and 11 faculty received Arts and Humanities Grants.
- The A&S Announcements (electronic newsletter) posted 328 items reporting faculty and staff achievements in 2007.
- HEAF instructional equipment requests by Arts and Sciences departments totaled \$752,365 in 2007, down from \$1,413,316 in 2006. The amount of HEAF equipment allocations to the departments was \$435,943 in 2007 versus \$587,447 in 2006. However, the unfunded amount of the request was lower in 2007 (\$316,422) compared to the unfunded amount in 2006 (\$828,869).

Goal 3: Undergraduate Teaching and Learning: Provide excellent instruction and attain or exceed expected learning outcomes in our undergraduate programs.

- Out of 16 degree granting academic departments, 14 (88%) report that in 2007 they utilized learning outcomes assessments to determine some kind of modifications to undergraduate degree programs.
- Student ratings of teaching effectiveness were 4.31 for Spring 2007 and 4.27 for Fall 2007 across all teaching faculty in Arts and Sciences, remaining consistent with the Fall and Spring terms of 2006 (4.32 and 4.27, respectively). The 2007 A&S ratings

of 4.31 and 4.27 are equivalent to the university averages of 4.31 and 4.29 for 2007.

- Out of 758 teaching faculty of all ranks who were evaluated in Spring 2007, 745 (98%) were rated 3.0 or higher on a 5.0 effectiveness scale, and 333 (44%) were rated 4.5 or higher. In Fall 2007, out of 820 teaching faculty, 809 (98%) were rated 3.0 or higher on teaching effectiveness, and 375 (46%) were rated 4.5 or higher.
- The total number of undergraduate Arts and Sciences majors in 2007 was 8108, compared to 7705 in 2002, a 5% increase.
- Arts and Sciences departments taught 3% more lower division lecture classes in 2007 (739) than in 2002 (718), and 13% more upper division courses (374 in 2007, 331 in 2002). The increase in upper division classes marks the college's responsiveness to increasing numbers of juniors and seniors, perhaps a reflection of the GOT Contract.
- One new baccalaureate degree program was established within the College of Arts and Sciences in 2007-- the Bachelor of Arts in Technical Communication.
- A new specialization was introduced for the Bachelor of General Studies degree program in 2007--the Global Affairs specialization.
- Through the Fall of 2006 and Spring of 2007, Arts and Sciences departments put forward proposals for 33 new courses, 11 modified courses, and 2 courses to be added to General Education options. These proposals represent units' planning of curricula based in part on assessments of their degree programs.
- The Texas Tech speech and debate team, in the Department of Communication Studies, led by seniors Kristen Owen and Anthony Putnicki, with a record of 31 wins and 2 losses by the end of October, 2007 were the first team in the history of the National Parliamentary Debate Association to win three major tournaments by that point in the season.
- The externally delivered version of the Bachelor of General Studies degree produced 7 graduates in 2007. There were 5 BGS graduates in 2006.

Goal 4: Graduate and Professional Education: Provide excellent instruction and attain or exceed expected learning outcomes in our graduate programs.

- In 2007, Arts and Sciences master's programs had 539 majors, an 11% increase over 2002. These programs generated 6585 student credit hours in 2007, a 2% increase over 2002.
- Arts and Sciences doctoral programs in 2007 had 591 majors compared to 477 in 2002, a 24% increase. These programs generated 4174 student credit hours in 2007, also a 24% increase over 2002.
- A new graduate certificate program was introduced in the Department of Classical and Modern Languages and Literatures-- Teaching English in International Contexts. Another new graduate certificate program was introduced in the Department of Philosophy--the Graduate Certificate in Ethics.
- The new interdisciplinary doctoral program in Wind Science and Engineering was approved in 2007, with significant and continuing contributions from several Arts and Sciences units and faculty.
- Many units in the College of Arts and Sciences noted significant research and creative accomplishments of their graduate students in 2007, as indicated in more than 20 posts in the A&S Announcements during 2007. These activities included publications, presentations at professional meetings, service abroad, and other academic and research outcomes.
- According to the units reporting the data, 80 graduate students were placed in other graduate or professional programs out of Texas Tech graduate programs, versus 55 in 2006. Plus, 49 graduate students were placed into post-graduation jobs, versus 25 in 2006.

Goal 5: Engagement: Provide scholarly outreach opportunities that contribute to students' learning and that benefit our communities, the state, and the nation.

- All units of the College of Arts and Sciences provided or engaged in outreach to local communities or broader constituencies reflecting the units' areas of expertise. Following are some examples that reflect on the college or university at large.
- The interdisciplinary Comparative Literature Symposium in 2007 brought together on the Texas Tech campus scholars from various places around the country interested in Asian and Asian-American studies. An objective of the Symposium was to introduce Texas Tech students to scholars from elsewhere.
- The Texas Association of Partners in Education named TTU's Department of Mathematics and Statistics as a state award recipient for its exceptional contribution to Lubbock schools through the Partners in Education program.
- The live streaming video of the 2007 Marathon Reading at J&B Coffee, sponsored by the Department of English, reached international viewers.
- Seven research projects out of the College of Arts & Sciences received combined funding of \$108,000 administered by the West Texas Rural EXPORT Center (TTUHSC). Eleven investigators from five different Arts & Sciences departments started or continued work on issues of importance to the health of the citizens of West Texas.
- Dean Jane Winer delivered an invited talk to the annual meeting of the Texas Jewish Historical Society in Odessa. Titled "An Archive of the Jewish Experience for the Near Southwest: Six-Month Follow-up," the talk focused on development of the archive in TTU's Southwest Collection.
- The Department of Mathematics and Statistics hosted the 5th Emmy Noether High School Mathematics Day, an annual event that has become a tradition at TTU. A group of 190 female students and 12 teachers from eight regional High Schools and two Junior High Schools joined a group of TTU faculty members in workshops, a Mathematics Competition, and a Career Panel.
- Dr. Paul Carlson, Director of the Texas Tech Center for the Southwest and a full professor in the History Department, was interviewed via telephone on Irish radio by Patrick Geoghan, a lecturer in history at Trinity College in Dublin. Geoghan and his program partner, Susie Barnett, interviewed Carlson about his book, *The Cowboy Way*.
- The Institute for Environmental and Human Health (TIEHH) organized the 4th INDO-US International Conference in Coimbatore, India, June 18-20, 2007. The conference attracted over 275 delegates representing ten countries and presenting 125 papers.
- Dr. Angela Eaton, an Assistant Professor of Technical Communication in the Department of English, wrote a grant to the Mayer Foundation for Texas Boys Ranch that was funded for \$50,000. The Ranch is a residential treatment facility for abused boys in Lubbock, and the money was to help it finish building a new cottage.

- Dr. Jerry Dwyer, Dr. Padhmanabhan Seshaiyer, Dr. Monty Strauss, and Dr. Brock Williams from the Department of Mathematics and Statistics, and Dr. Michael O'Boyle from the Department of Human Development and Family Studies in the College of Human Sciences, are principal investigators on a grant from the National Science Foundation that will provide scholarships for undergraduate study leading to a degree in mathematics. The STEM (Scholarships in Science, Technology, Engineering, and Math) Award enables the establishment of the South Plains Mathematics Scholars Program, which has the primary objectives to increase the population of students from low-income families at Texas Tech, to improve retention levels for mathematics majors, and to disseminate information regarding methods of improving retention.
- The Department of Psychology's podcast series was integrated into the curriculum for a TOEFL preparation school in Tokyo. The school director described the podcasts as "extremely well done, interesting and perfect to keep students' attention". They'll be used for translation and comprehension exercises.
- In an editorial appearing in the Saturday, September 29 edition of the Lubbock Avalanche Journal, Dr. Jim Reckner, Director of Texas Tech's new Institute for Modern Conflict, Diplomacy, and Reconciliation, was recognized for his almost 20 years of leading and growing the Texas Tech Vietnam Center.
- The United Nations Intergovernmental Panel on Climate Change (IPCC) was awarded the Nobel Peace Prize for "informing the world of the dangers posed by climate change." Katharine Hayhoe, Research Associate Professor in the Department of Geosciences, was one of the nearly 3,000 climate scientists around the world who freely contributed their time to participate in the IPCC. Katharine currently served as an expert reviewer for the IPCC's Fourth Assessment, released in the spring of 2007. Her research, focused on assessing climate change at the regional scale and the risks it poses for water supply, ecosystems, agriculture, and public health here in the U.S., was also cited in the report.
- Dr. Jorge Iber, a Professor of History and Associate Dean in the College of Arts and Sciences, delivered a presentation on October 12 on the contributions of Mexicans and Mexican-Americans to the American West. Given at the Ranching Heritage Center, the talk was reported on the front page of the Avalanche Journal. The presentation was given in recognition of Hispanic Heritage Month.
- Drs. Clyde and Susan Hendrick, both Horn Professors in the Department of Psychology, were featured in a PBS special entitled "The State of Tomorrow". Their piece in the episode addressed the importance of a stable, nurturing family environment for both child development and broader society.

Goal 6: Research Productivity: Increase research productivity and funding for all units of the college.

- Twenty-five faculty in seven Arts and Sciences departments were recipients of awards for the 2007 Research Enrichment Fund Grant Competition, sponsored by the Office of the Vice President for Research. A total of \$558,636 (56% of the overall available funds) was represented in twenty separate awards to A&S faculty ranging from \$4,650 to \$35,000, for an average award of \$27,932. English received the most awards (eight) for a department total of \$149,868. Environmental Toxicology received the next highest number (four) for a total of \$135,270.
- Dr. Laura Beard, Associate Professor in the Department of Classical & Modern Languages & Literatures, was selected as a finalist for a Fulbright research grant in Aboriginal Studies: the University of Alberta Research Chair in Native Studies.
- Faculty members from the Texas Tech Departments of Civil Engineering, Geosciences, Chemistry and Biochemistry, and Environmental Toxicology had their project, "Identification and Characterization of Natural Sources of Perchlorate," selected as Project of the Year in the Environmental Restoration Focus Area by the Strategic Environmental Research and Development Program (SERDP).
- Drs. Rich Rice, Assistant Professor, Fred Kemp, Associate Professor, and Rebecca Rickly, Associate Professor, all in the Department of English, with co-participants Drs. Zenaida Aguirre-Munoz and Doug Hamman of the College of Education, began work in partnership with Dallas County Community College District on a \$250,000 research project funded by the Texas Higher Education Coordinating Board. The project includes the development of database-delivered "smartcast" dynamic video content that accompanies hybrid first-year composition delivery methods.
- Texas Tech's High Energy Physics Group was cited in a January 14th New York Times Magazine article featuring a particle detector largely designed and built by the TTU group as part of a global effort at CERN, the international accelerator laboratory in Geneva.
- The Center for Public Service, directed by Dr. Tom Longoria, an associate professor of Political Science, received a \$65K grant from USDA to "provide direct management training and technical assistance to rural Farm Labor Housing Organizations in West Texas to help those organizations meet their potential."
- Representing three A&S departments, 11 faculty were recipients of TTU Arts and Humanities Grants in 2007.
- The number of extramural research awards to faculty in Arts and Sciences increased in FY07 (156.45) in comparison to FY06 (143.77). Although the total award amount was slightly less (\$9,372,564 vs. \$9,816,286), the F&A generated was greater (\$1,490,800) than in FY06 (\$1,469,493).
- In FY07 the research activity of the faculty in Arts and Sciences, as evidenced by extramural research expenditures, was \$19,634,000 in total expenditures and \$7,979,000 in federal expenditures. This accounted for 34% and 35% of the University expenditures.
- Total startup for FY07 Arts and Sciences hires was \$797,104, down from total startup for FY06 hires which was \$1,101,027. Startups from Arts and Sciences HEAF allocation consumed 47% of the HEAF allocation and 38% of the total HEAF plus instructional equipment allocations in FY07.
- The number of journal articles and book chapters reported by the units as having been published in 2007 (812) remained consistent with the number reported in 2006 (816), but was 23% higher than the number reported in 2002 (661).
- As counted in the unit assessment reports, Arts and Sciences faculty published 39 books in 2007, compared to 22 in 2006, a 77% increase.
- As counted in the unit assessment reports, Arts and Sciences faculty gave 1118 lectures and presentations in 2007, up 6% from 2006 (1054) and up 15% from 2002 (952).

Goal 7: Partnerships: Build strategic partnerships and alliances with communities, government, business, industry, and schools, colleges, and universities.

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Five graduate students from A&S departments received Science: It's a Girl Thing (SIGT) Provost Awards. Recipients were from the Departments of Geosciences, Mathematics and Statistics, Chemistry and Biochemistry, and Physics.

- Drs. Catherine Langford (Communication Studies), Rich Rice (English), Brian Still (English), and Aaron Yoshinobu (Geosciences) were granted Big XII fellowships of \$2,500 each to collaborate with colleagues at other Big XII universities.
- Dr. Ann Hawkins, assistant professor of Bibliography in the Department of English, was guest curator of an exhibition at the Folger Shakespeare Library in Washington D.C. "Marketing Shakespeare: the Boydell Gallery (1789-1805) and Beyond" examined the marketing of Shakespeare (and Shakespearean products) in the late eighteenth and early nineteenth centuries.
- Dr. António Ladeira, an Assistant Professor of Portuguese in the Department of Classical and Modern Languages and Literatures, was unanimously elected into the prestigious Geographical Society of Lisbon in Portugal.
- Dr. Razvan Gelca, an Associate Professor in the Department of Mathematics and Statistics, was invited by the Universidad Nacional Autonoma del Estado de Mexico, and a local governmental organization, COMECYT, to assist in matters related to International Mathematics Olympiad activities.
- The President's Lecture & Performance Series featured a panel discussion by the 2007 winners of the President's Book Award: Dr. Gary Forsythe of History, Dr. Hafid Gafaiti of Classical and Modern Languages and Literatures, and Dr. Stephen Graham Jones of English. The event was open to the public.
- Dr. George Cobb, a Professor in the Department of Environmental Toxicology, attended the 1st Symposium of Chemistry & Environment in Montenegro, which resulted in the signing of a collaborative agreement between the American Chemical Society and the Chemical Society of Serbia's Environmental Division. The agreement would require significant collaboration, student exchange, and joint seminars and conferences.
- The Arts and Sciences Deans office, with representatives from the Departments of Biological Sciences and Chemistry and Biochemistry consulted with representatives of Eli Lilly Company to plan an approach to recruitment of students to a proposed academic course on pharmaceutical sales which would have as one objective to interest students in career options within the pharmaceutical sales profession.

Section 2. Universal Quantitative Data

Fall Semester	2002	2003	2004	2005	2006	2007						
Student Information												
Headcount												
Undergraduate	7705	8175	8441	8302	8157	8108						
Masters	487	555	534	542	558	539						
Doctoral	477	515	547	576	576	591						
Law	0	0	0	0	0	0						
Total	8669	9245	9522	9420	9291	9238						
Entry Scores												
SAT	1099	1109	1109	1116	1106	1075						
GRE-verbal	486	498	478	480	495	482						
GRE-math	604	593	591	617	612	621						
Semester Credit Hours												
Undergraduate	164613	177346	177233	174108	171174	174871						
Masters	6441	6624	6391	6785	6609	6585						
Doctoral	3358	4029	4321	4409	4236	4174						
Law												
Total	174412	187999	187945	185302	182019	185630						
Number of Lecture Classes Taught & Avg Class Size	#	Avg.	#	Avg.	#	Avg.	#	Avg.	#	Avg.		
Lower Division	718	55	724	58	758	54	748	52	750	50	739	52
Upper Division	331	33	355	35	363	36	382	36	380	36	374	37
All Undergraduate	1049	48	1079	50	1121	48	1130	47	1130	45	1113	47
Graduate	187	11	196	11	198	11	201	11	204	10	205	10
All Students	1236	42	1275	44	1319	42	1331	41	1334	40	1318	42
Faculty Information												
FTE												
Professor-Lecturer	427.87	422.17	440.05	452.2	460.48	467.16						
Graduate Asst. Teaching	246.7	270.44	277.95	312.52	317.32	317.04						
Total	674.57	693.5	718.22	764.72	777.8	784.2						
Headcount												
Professor-Lecturer												
Total	473	459	482	492	506	515						
Minority	27	24	27	37	40	38						
Tenured/Tenure Track												
Total	372	378	373	382	383	387						
Tenured	237	236	228	240	245	256						
Teaching Load												
SCH/FTE for total faculty	259	271	262	242	234	237						
Student Faculty Ratio	18:1	18:1	18:1	17:1	16:1	16:1						
Faculty Salaries vs Peer (Full-time Faculty - 9 Mo.)												
Professor	77160	84632	76910	88504	80764	90910	83154	95589	84836	99123	87875	103383
Assoc	55587	57797	55333	60130	58851	61326	61301	63786	62414	66025	63645	68845
Asst	45719	48204	46516	50279	48368	51570	50672	53958	52078	55983	54830	58525

Fiscal Year	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007
Degrees Awarded						
Undergraduate	933	900	976	1208	1367	1401
Masters	149	187	226	209	237	238
Doctoral	60	64	57	69	77	76
Law	0	0	0	0	0	0
Total	1142	1151	1259	1486	1681	1715
Classes Taught by						
Tenured/Tenure Track						
% Lower Div. Classes Taught	21	22	22	20	18	17
% Ugrd Classes Taught	31	33	34	32	30	29
Financial Information						
Teaching Salaries	30153027	30244817	31238865	32001170	33270490	35086853
Dept. Op. Expenses	4063548	4360217	4871100	4355305	3530363	3460345
Total	34216575	34605034	36109965	36356475	36800853	38547198
Cost per SCH	100	93	90	91	93	85
Cost per SCH In Const. \$	100	91	86	84	83	74
External Funding						
Sponsored Projects						
Value by Home Department	14625215	12587657	12595044	9435989	11143354	10276777
Value by Submitting Unit	11330487	10268237	11606354	7877703	9823412	9372566
Fundraising*	2244138	1802270	2991026	1619813	4285968	3749259
*As provided by Development						

COLLEGE OF ARTS AND SCIENCES

Area/Unit Specific Information

Section 3a. Quantitative Information

Calendar Year	2002	2003	2004	2005	2006	2007
Faculty						
Research						
No. Jnl Articles/Book Chapters	661	820	758	869	816	812
No. Books	32	55	38	38	22	39
No. Presentations/Invited Lectures	952	992	1093	1011	1054	1118
Ext. Grants/Consultancies Submitted	478	397	470	438	416	506
Ext. Grants/Consultancies Awarded	260		228	209	227	236
Patents			2	5	8	5
Recognition						
External Awards	105	33	170	212	162	203
Internal Awards	38	56	66	74	51	59
New Fellows			4	2	3	6
Fellows to Date			30	32	35	41
New PhiBetaKappa			0	2	4	2
PBK to Date			42	44	42	44
Students						
Recognition						
External Awards	19	11	224	58	53	18
Internal Awards	28	27	84	68	94	142

Fall Semester			2002	2003	2004	2005	2006	2007
Program	Level	Learning Outcomes and Assessments						
A&S Graduating Senior Exit Surveys (May, Aug, Dec)								
		# Planning Further Education				296	541	450
		# Planning Graduate Work at TTU				81	152	109
		# Planning Employment After Graduation				396	276	268
		# Planning to Work in Lubbock				106	n.r.	n.r.
		# Planning to Work Elsewhere in Texas				178	n.r.	n.r.
		# Not Continuing Education, No Job Lined Up					314	306
# Degrees Conferred in Interdisciplinary, Non-Unit Based Programs								
		Bachelor of General Studies (BGS)					60	70
		Bachelor of General Studies, External (XBGS)					5	7
		Latin American & Iberian Studies					1	1

Fiscal Year	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007
Faculty						
Research Dollars						
Start-up Allocated	1255782	934602	1025246	746697	802346	821,758
Dollars Returned per Start-up	5691633		1601967	130711	56002	n.r.
F&A Dollars Returned	155573	116537	746695	757566	892598	937,369
% F&A Dollars Returned	12	8	n.r.	n.r.	n.r.	n.r.
F&A Budgeted	1785907	1496340	n.r.	n.r.	n.r.	n.r.
External Research Awards (Dollars)						
Sponsored by Faculty	11403957	10280736	9783084	5357164	6146771	4,868,115
Sponsored by Department		12401407	n.r.	n.r.	n.r.	n.r.
		9792889	n.r.	n.r.	n.r.	n.r.
Program						
High Demand Gen Ed Courses						
Sections General Education	1132	992	1240	995	981	799
Seats General Education	45467	33549	57500	49063	46572	37265
Seats/Section	40.17	33.82	46.37	49.31	47.47	47
Units Reports of Degree Program Learning Outcomes Assessments						
% Units Reporting Learning Outcomes as Goal Accomplishments (Sec. 1)						50
% Units Reporting Quantitative Learning Outcomes Assessments (Sec. 3a)						63
% Units Reporting Qualitative Learning Outcomes Assessments (Sec. 3b)						63
% Units Providing Commentary/Implementation Plans on Learning Outcomes Assessments (Sec. 4)						88
Students						
Scholarships Awarded by Units						
# Scholarships Awarded	344	365	417	365	370	350
\$ Scholarships Awarded	667307	588246	409983	452754	389423	482,943
Graduate School Placements			54	79	55	80
Career Placements			52	29	25	49
# Students Inducted to Phi Beta Kappa						81
College						
Development						
Gifts & Pledges	2405575	1,733,996	320586	1619813	3703078	3724217
# Donors	3556		2430	3460	15721	2586
Scholarships Awarded by A&S						
# Merit Awarded	31	36	40	29	44	60
\$ Merit Awarded	31000	36000	40000	29000	44000	72,000
# Price Need-Based Awarded	24	18	20	19	22	29
\$ Price Awarded	84000	63000	70000	66500	77000	101,500
Total \$ Awarded	115000	99000	110000	95500	121000	173,000
Matriculation						
Retention Rate	82	80	82	84	82	81
Graduation Rate	48	50	47	50	53	52

Section 3b. Qualitative Information.

- Preface: Achievements of the Arts & Sciences units bring recognition to the university whether by students, faculty, staff, or alumni in all facets of scholarship and innovation. The Dean's interpretations of 2007 universal quantitative data for the college and units are in the Commentary portion of Section 4 of this report.
- Preface cont.: Reported in this section are highlights of achievements as stated by the academic units for 2007. Highlights are summarized here according to the college's strategic planning goals as revised and updated in 2007: Access & Diversity, Human Resources & Infrastructure, Undergraduate Teaching & Learning, Graduate & Professional Education, Engagement, Research Productivity, and Partnerships.

- Preface cont.: All the academic units report to some extent certain outcomes associated with learning assessments of their degree programs. Fifty percent of the units report learning outcomes assessments in Section 1 of their reports; 63% report them in either or both Section 3a (unit specific quantitative data) and Section 3b (unit specific qualitative information); and 88% (all but 2 units), report them in the Commentary/Implementation section of their annual reports. The latter indicates that College of Arts and Sciences units for the most part utilized learning outcomes assessments to determine progress and further development of their academic programs in 2007.
- ACCESS & DIVERSITY: This section highlights for each academic unit in A&S its achievements and outcomes in recruiting, retaining, and graduating students.
- AERS. Realized a retention rate of 100%, a student diversity rate comprising 17% females, 4% Hispanics, 4% African Americans, and 1% Asian, and a faculty diversity rate of 13% Hispanic and 35% female. The unit commissioned 23 officers.
- BIOL. Twenty-six undergraduate students received awards and scholarships in 2007 from the department, the College of Arts and Sciences, professional societies, or other organizations. The number of students receiving awards and scholarships doubled from 2006. The department worked with representatives of Eli Lilly to provide career opportunities and internships for interested students. Five faculty in 2006-2007 requested funds from the Graduate School to bring in potential graduate students to visit Biological Sciences and TTU; the five visiting students will be attending graduate school at TTU.
- CHEM. Continued development of "Chem Scholars" program to attract outstanding high school chemistry students. Hired a new Graduate Advising Assistant. Continued assessment and documentation of a new Chemistry Placement Exam to better place incoming students into introductory chemistry courses. Contacted more than 750 high school students (and their parents) expressing an interest in chemistry or biochemistry. Utilized best teachers in general and organic chemistry courses. Instituted personal meetings with high-achieving high school students interested in a major in Chemistry and Biochemistry. Began diversity recruiting efforts at Angelo State and at University of Texas-Pan American.
- CMLL: The Spanish graduate student organization, Céforo, organized a Culture Day featuring the cultures associated with the 16 languages routinely taught in the department. The event was attended by students in the lower-level language classes as well as significant numbers of students from local high schools. CMLL hosted a large number of student organizations that have cultural activities. Most of the 16 languages taught provided cultural and language activities or similar opportunities.
- COMS: Communication Studies hired full-time academic advisor. Participated in University Days. Communication Studies awarded 9 scholarships totaling \$6,750. Hosted annual Communication Studies Week where current majors were invited to bring peers to classes, including general education courses, attend a reception with the undergraduate advisor, and attend a luncheon with alumni. Promoted department during on-campus forensics events. Several COMS courses offered units on intercultural/multicultural communication. Six faculty were nominated for excellence in diversity and teaching awards. COMS faculty and staff participated in university events including recruiting events.
- ECOG. Added a second Hispanic male to the Economics faculty and successfully supported an African-American faculty member for tenure and promotion. An Hispanic student was recruited to the doctoral program and three Asian females were recruited to the graduate program. An Asian-American woman was successfully nominated for the Chancellor's AT&T Fellowship.
- ENGL. Realized increased applications and admissions of diverse candidates to the graduate and undergraduate programs. Established the ESL/Literacy tutoring project as a dedicated service-learning course: ENGL 4371, Language and Community. Sponsored speakers on multicultural issues. Made monthly book recommendations and moderated book discussions that emphasized diversity. Screened monthly films and moderated film discussions that emphasized diversity. Participated in the McNair Scholars Program and in the MentorTech Program.
- ENTX. Received funding from the Helen Jones Foundation to educate high school students on burgeoning fields such as nanotechnology.
- GEOS. Enrollments showed an overall increase, particularly in ATMO 1300 and in petroleum related courses. GEOL 3302 (Structural Geology) saw enrollments rise from 70 to 117. Efforts to recruit more highly academically qualified applicants to the graduate program were substantial. Received \$8000 in support from the Graduate School to develop demonstrations of 3-D visualization of outcrops and fluid flow models for use at recruiting booths at professional meetings. Geosciences was one of the target Departments in the PoWERS-STRIDE effort, a program funded by the NSF to increase the number of women faculty in the sciences.
- HESS. Faculty recruited or made recruiting contacts with students at various national and international conferences and through websites and listservs. Faculty established and maintained contact with international institutions. The Physical Education Teacher Education undergraduate curriculum was modified to allow greater marketability, and new sites for internships that meet a variety of student needs and preferences were sought and secured.
- HIST. The number of graduate part-time instructors and teaching assistants was 34, 14% of them Hispanic, and 35% female. In the past three years the department has hired four female assistant professors. The faculty gender breakdown is now at 18 males and 9 females.
- MATH. A grant from the NSF Scholars in Science, Technology, Engineering and Mathematics Program helped establish the South Plains Mathematics Scholars Program to provide scholarships up to \$10,000 to students from underrepresented groups or of financial need. Awarded \$63,800 in scholarships to 44 undergraduate students and \$11,000 to 13 graduate students, had six graduate students awarded Chancellor Fellowships, and an undergraduate and a graduate student awarded ARCS scholarships. The department continued to host TexPREP-Lubbock, the Emmy Noether High School Mathematics Day, the Joy of Thinking program, and the TTU Summer Math Academy.
- MILS. Nine entering freshmen were awarded four-year scholarships. Minority participation in the ROTC program was above campus norms. Enrollment of eligible nurse candidates increased in Fall 07 due to concentrated efforts of key leadership personnel. Access into the ROTC program was granted to one junior level student through the scholar-athlete-leader program that allows qualified students to compress course work. Three juniors were accepted from the Leadership Training Program and offered two year scholarships through their senior year.
- PHIL. Recruited three minority students into the M.A. program, attained the unit's highest-ever average GRE among the master's students--1321--and a 6% increase in the SAT for undergraduates entering the major--1142.
- PHYS. The department awarded a total of 18 degrees (2 B.S., 10 M.S., and 6 Ph.D.) in 2006-2007, compared to the average of 12.6 during the previous 5 years. The average SAT score for new majors in physics was 1380, compared to an average of 1280 for the previous 5 years. In 2007, \$15,000 was awarded to 11 students in the form of scholarships. The department provided 8 one-

time, thousand-dollar scholarships to the graduate students who enrolled in Fall 07. One undergraduate student was admitted to Phi Beta Kappa. Racial minorities and women made up 25% of the physics undergraduates and 30% of the domestic graduate students in Fall 07.

- POLS. Kept frequent contact and cooperation with campus diversity office to recruit/retain a diverse faculty. Added to the faculty three female assistant professors, a faculty member of Korean origin, a male African American adjunct faculty member, and as a joint appointment, a female African American. Advertised the MPA program in the university newspaper and other outlets. Participated in attracting students from Vietnam for the M.A. program.
- PSY. Increased number of undergraduate majors to total 833, an increase of 2.8% over 2006 and 13.7% over 2002. Maintained largest doctoral enrollment of any program at TTU, with total of 102, a 13.3% increase over 2002. Graduated largest number of students ever, totaling 241 among bachelor's, master's and doctoral programs. Maintained an average doctoral GRE of 1130. The percentage of minority graduate students admitted was double the national average. Supported applicants' travel expenses to visit campus and attend "interview day." Several faculty members were sponsors for the McNair Scholar Program and for the Mentor Tech program.
- SASW. Realized an increased number of baccalaureate graduates across all three disciplines (ANTH, SOC, SW) from 85 (2006) to 96 (2007), representing an increase of about 11% and surpassing the department goal of 5% more graduates each year. The department recruited a graduate student in Anthropology—a member of a tribal minority group in Vietnam-- who was awarded an AT&T Chancellor's Fellowship in spring 2007.
- HUMAN RESOURCES & INFRASTRUCTURE: This section highlights each unit's achievements in recruiting and retaining quality faculty and staff and in supporting an optimal work environment, including uses of technology and renovations to workspace.
- AERS. The unit's faculty and staff represented the range of skills from across the Air Force. Realized 100% participation in EEO employee training.
- BIOL. The department continued to nominate faculty for awards from the college and University. One received the 2007 President's Excellence in Teaching Award. The department purchased a third new vehicle to assist in faculty and graduate field work. The Department hired an IT Assistant to help maintain faculty, office, and teaching computers and deal with related day-to-day needs.
- CHEM. Hired a Senior Machinist, a new administrative assistant, a new Graduate Advising Assistant, and a new Receptionist. Increased nominations of faculty and staff members for awards, with several faculty either receiving awards or in competition for awards (CAREER, Cotrell Science Scholar, Fulbright). Reclassified several staff positions and reorganized their duties. Reorganized advising and course service staff to improve quality of service for course maintenance, development, and implementation. Unveiled new departmental website using new TTU templates. Improved computerized announcement system.
- CMLL. The second floor central public spaces were refurbished. Hosted 7 pieces of the TTU Public Art Collection. The Language Learning Lab & Resource Center underwent a major upgrade of its console system, with about 60% of the stations upgraded to have interfaced computers. Digital recording was added. Conversion of all classrooms in the Foreign Language Building to semi-smart classrooms with built-in HD video projection, code-free international DVDs and VHS units, hard-wiring to the SCOLA distribution center for programming feeds, and stereo sound systems was completed.
- COMS. One faculty member won the President's Excellence in Teaching Award. Two faculty were inducted into the TTU Teaching Academy. Redesign of the department webpage was initiated to improve distribution of current department news, undergraduate and graduate advising information, course information, and links to professional associations. Established a department listserv and contributed faculty and student accomplishments to the A&S Newsletter. Had 100% compliance with faculty and staff training, completed human resources annual staff assessments, and had staff attend training for new technology integration (i.e., Banner). Seven faculty and staff received new office computers.
- ECOG. Supported the educational advancement of the Senior Business Assistant. New equipment was added to the main office. Three social gatherings were held for faculty, students, and staff. The unit fully participated in University Day activities. Faculty and graduate student computers were upgraded and laptops for use on professional travel were acquired. New software and renewed licenses for faculty research were purchased. Took part in joint effort within Holden Hall to modernize instructional technology for large classrooms.
- ENGL. Conducted retreat for all tenured and tenure-track faculty to address issues related to the department's ethics guidelines and methods for promoting civic engagement. Conducted periodic teaching training sessions for GPTIs and lecturers. Conducted periodic staff meetings for distribution of information and timely discussion of issues. Provided regular and frequent opportunities for social interaction among faculty and staff. Supported mentoring meetings for untenured faculty. Revised and expanded the department's website in compliance with TTU standards, allowing better access to more information for both internal and external audiences.
- GEOS. The Department increased the work hours of the computer technician. Department began developing an in-house application process to use in addition to the TTU on-line forms for scholarship applications. Geosciences faculty were representatives to the alumni function at the annual Geological Society of America meeting in Denver, CO. A Departmental newsletter (holiday message) was sent to alumni and friends in December. A computer lab with multiple workstations and PCs oriented toward high-level processing of seismic data was established and has already attracted a number of graduate students and post-graduate researchers.
- HESS. The departmental governing committee was empowered, and the department developed and approved a number of operating procedures. The department requested and had approved a new teaching laboratory in the Sport Studies Center, renovations to the men's and women's locker rooms, and a new liquid chlorination system to replace the aging system at the Exercise Science Center pool.
- HIST. Hosted an annual banquet to honor students, faculty, and alumni, and sponsored a number of invited speakers. Nurtured a formal mentoring program for new professors. All GPTIs were scheduled to teach smaller sections (about 30 to 35 students, as opposed to 60 to 70 students during previous years). All tenure-track faculty were enabled to teach a 2/2 load. Worked to assure that all new hires have up-to-date computer equipment available to them upon their arrival at TTU, and purchased newer laptop and personal computer models for departmental personnel, as budget permits. The department employed a webmaster to maintain the unit's and individual faculty members' web pages.
- MATH. A new scheduling arrangement was implemented for office staff that provides for increased office hours and availability of staff during the work day, plus greater flexibility in staff work schedules. A Strategic Hiring Committee was organized for the purpose of reviewing and formulating a departmental hiring strategy.

- MILS. All department staff and faculty received new desktop computers and software to enhance information technology and access to Military Distance Learning Centers. A cadet computer lab was updated with outside funding. The unit hired two new staff members.
- PHIL. In cooperation with the Teaching, Learning, and Technology Center, provided a Teaching Philosophy Seminar for Teaching Assistants. Provided faculty mentoring for all GPTI's. Continued enhancements to the department's web site.
- PHYS. One faculty member was awarded a development leave during 2007. Four faculty members were given equity raises. The particle physics group contributed hardware to the High Performance Computing Center and made extensive use of the resources for data analyses and simulations. The extreme bandwidth required for data transfers from Fermilab and CERN emphasize the need for upgrade. The departmental computer cluster was upgraded to support student research and class work and work in biophysics, atomic and molecular physics, electrical engineering and others. Many courses in physics made extensive use of on-line resources, including the electronic logbook (elog).
- POLS. Hired a permanent manager of the Earl Survey Research Laboratory. Hired a replacement senior business person for the Center for Public Service/MPA program. Led the development of a program to upgrade technology in major lecture rooms in Holden Hall. Continued to provide students and faculty with latest versions of statistical software.
- PSY. New faculty were provided start-up packages meeting or exceeding national averages. All teaching spaces and classrooms were fully equipped with multimedia equipment. Travel funding for faculty was maintained at almost double from two years ago. Total salary and operating expenses were in excess of \$2.7 million, an approximately 27% increase over 2002, while the cost per SCH dropped to \$112, a decrease of 4.2% from the previous academic year and a drop of 10% from 2001 levels. Began distribution of an "electronic newsletter" on a quarterly basis, which has reduced costs, expanded distribution, and allowed expanded coverage of alumni activities.
- SASW. Provided travel support ranging from \$400 to \$1000 per travel request to all faculty and graduate students who requested funding for conference/workshop presentations. Continued procurement plan for faculty and staff computing systems, portable projectors for use in classroom instruction, and digital photo and video cameras for instructional and research purposes.
- UNDERGRADUATE TEACHING & LEARNING: This section notes achievement highlights of A&S units in providing excellent instruction and attaining or exceeding expected learning outcomes in undergraduate programs.
- AERS. Several of the unit's components were assessed as "best seen to date" by the Southwest Region Staff Assistance Visit. Several cadets were selected to attend the National Character and Leadership Symposium, the Arnold/Marshall Conference, and USAA Cadet of the Year.
- BIOL. The Biology Undergraduate Focus Group surveyed 406 undergraduate students in fall 2007 to obtain information on the quality of their education from Biological Sciences. The survey found that 70% of the students stated that the department's core requirements have given them a deep grasp of the basic principles of biology as compared to 5.6% that said no. The remainder of the respondents either were neutral (9.8%) or had no opinion (2.2%). Concerning the curriculum, students were asked if their biology classes prepared them for career tasks such as oral presentations or written compositions: 45.3% said yes, 25% said no, and the remainder were either neutral or had no opinion.
- CHEM. Maintained ACS accreditation of undergraduate degree programs. Continued horizontal and vertical realignment of curriculum to improve learning outcomes. Continued new majors sections of CHEM 1307 Principles of Chemistry I, CHEM 1308 Principles of Chemistry II, CHEM 3305 Organic Chemistry I, and CHEM 3306 Organic Chemistry II, all with weekly recitation sessions. Continued assessment of a new Chemistry Placement Exam to better identify students with remedial needs and to better place incoming students into introductory chemistry courses. A study was undertaken of the efficacy of various homework modalities as a means of improving performance in the Honors General Chemistry course.
- CMLL. Ran the TTU Quedlinburg Center and provided most of the instruction for the TTU Seville Center. Offered two summer programs in Spain, two in Mexico, and one in Germany. Plans were made for a new annual summer French program in Montpellier, France, to commence in 2008. Dr. Idoia Elola worked at the TTU Seville Center from Fall 2006 through Summer 2007 to redesign the language curriculum. A ~\$50,000 THECB Phase II Course Redesign grant was received to redesign the Language Lab component of SPAN 1507 and has been extended to German. Latin, Greek, French, and Spanish are undergoing systematic curriculum revisions in a manner that takes into account outcomes assessment data.
- COMS. Revised and updated its assessment of courses in its undergraduate program. Several undergraduates completed internships, and received average employer evaluations of 4.52 (on a 5-point scale, a slight increase of .44% over 2006). The TTU chapter of Lambda Pi Eta (national honor society in the Communication field) inducted 15 new members. Initiated a plan to digitize all student speeches in its Gen Ed courses for more efficient student access.
- ECOG. Combined SAT scores of 1152 among highest on campus. Attained the unit's highest number of majors (205) in last six years, increasing 110% since 2002. Maintained student honorary societies in Economics and Geography. Each faculty member prepared a narrative and analysis of how their courses are being modified as a result of assessment. Sophomore and junior courses in both microeconomics and macroeconomics were assessed per program goals. Geography utilized a capstone course to measure student learning. The undergraduate program chair assumed leadership in coordinating assessment methods with individual faculty. One-quarter of the faculty were named "outstanding" by graduating seniors.
- ENGL. Students in all specializations of the B.A. in English achieved 90% of all learning outcomes. The B.A. in Technical Communication was established as a new degree. Received recognition of innovations in first-year composition with \$250,000 in funding from the Texas Higher Education Coordinating Board for a joint research project with the Dallas County Community College District on methods of hybrid instruction. Supported undergraduate internship program, matching students with faculty on research projects. Recognized by Academic Analytic's 2007 Faculty Productivity Index for TTU's 15 faculty in Technical Communication and Rhetoric as fifth in the nation.
- ENTX. Joshua Pierce, Howard Hughes Medical Institute (HHMI) undergrad researcher at TIEHH, recipient of the Raymond Green Undergraduate Scholarship awarded by the Texas Tech Credit Union.
- GEOS. Implementation of curricular changes proposed and accepted by the faculty in 2004 was set in motion. These changes will begin with the sophomore class of 2008 and will be put in place during the following three years. Work began on a completely new laboratory manual for GEOL 1101, as a response to input from teaching assistants and student reviews. 2007 was the first year to use rubrics to assess the undergraduate and graduate programs. A method to permit normalization of scores was developed.
- HESS. The department created a committee to conduct program assessments. Faculty provided field-based instruction and service learning opportunities in several courses. Several faculty wrote HEAF proposals for equipment to enhance students'

learning experiences. A number of the faculty served as mentors for undergraduate Honors students. Four faculty members were recognized as an Outstanding Faculty member by graduating seniors.

- HIST. The student/faculty ratio declined to 18:1 from 26:1 in 2004. It was decided to eliminate HIST 4398 as a requirement for the BA and instead to require students to complete a 10-12 page research paper in all 4000-level courses. This change would familiarize students with historical research, methodology, and theory much earlier in their undergraduate careers.
- MATH. Administered the ETS Major Field Exam during the spring and fall semesters. Implemented a new assessment process for measuring student learning outcomes in calculus. Initiated assessment of the general education curriculum. Utilized results of a self-efficacy study of students enrolled in MATH 3350 in fall 2007 to assess student learning outcomes related to competency of applications of mathematics to engineering and physical sciences. Hosted an eight-week NSF sponsored Research Experiences for Undergraduates program in computation and control of biological and biologically-inspired systems. Seven faculty mentored eight undergraduate students from several universities in Texas.
- MILS. Senior performance at Leader Development and Assessment Course was rated in the top third in Brigade among 21 other universities. Over 15 percent of TTU seniors were rated as excellent. Texas Tech Army ROTC ranked second in land navigation scores, third in Army Physical Fitness Test scores, and first in basic rifle marksmanship scores. All TTU commissioned graduates in 2007 completed Basic Officer Leadership Course with 80% selected for selective specialized training.
- PHIL. Undergraduate SCH increased 7%, to 2934. Conferred 22 B.A. degrees, the highest ever in a single year. Recorded 69 undergraduate majors, and an additional 15 declaring Philosophy as a second major.
- PHYS. The average teaching evaluation score for faculty (item 1) in Fall 2007 was 4.06. The average class GPA for the same semester was 2.69. Many courses in physics, especially the introductory ones, make extensive use of the electronic logbook (elog), essentially an electronic version of a classical lab logbook where students can put their notes, questions, data, analyses, homework, URL links, plots, pictures, and comment on others' posts.
- POLS. Revised undergraduate course assessment to be more effective, and revised undergraduate program assessment to allow instructors to develop assessments for common outcomes. Streamlined the course objectives for POLS 1301 and 2302. Several faculty named Outstanding Faculty by graduating seniors. Received a scholarship donation of \$10,000 for worthy undergraduate students.
- PSY. Increased to 62 the number of general psychology sections offered and increased to 1998 the total enrollment across the year. The Department approved and initiated an "honors track" for its undergraduate students to provide targeted classes and seminars, along with research experience and exposure. The Undergraduate Programs Committee reviewed learning outcomes for the academic year, noted that the primary goal (i.e. content coverage) had been accomplished and the next phase of assessment will be implemented, targeting critical thinking skills across the curriculum. Baseline assessment was conducted this year targeting critical thinking skills.
- SASW. Sociology graduates demonstrated knowledge of major sociological theories, understanding of sociological research methods, and knowledge and skills in quantitative data analysis. Anthropology graduates continued to demonstrate knowledge of the four fields of anthropology. Social Work graduates continued to meet the outcomes as established by the program, which conform to the external guidelines established by the program accrediting Council on Social Work Education.
- GRADUATE & PROFESSIONAL EDUCATION: Highlights in this section mark achievements and outcomes of A&S units in providing excellent instruction and attaining or exceeding expected learning outcomes in graduate programs.
- BIOL. Student Quinn Emmering received funds from the American Ornithological Union Research Awards and Grant-in-Aid-of-Research from Sigma Xi for his project on song birds and nest predation. Student Noe de la Sancha received a prestigious Fulbright Fellowship to assist with his research in Paraguay. Asked whether they felt well prepared for the MCAT, DAT, or GRE-Biology, 38% of students said yes, 4.4% said no, and 52% either were neutral or had no opinion. Asked if they were well prepared to read and understand scientific journal articles and the literature, 59% of students said yes, 11.5% said no, and the remainder were either neutral or had no opinion.
- CHEM. Hired a new Graduate Advising Assistant. Utilized Chancellor's Fellowships to attract outstanding graduate applicants. Continued development of the departmental website using new TTU rubrics to provide attractive, informative, and easy-to-access web descriptions of undergraduate and graduate programs. Instituted a new course, CHEM 5102, Industrial Chemistry, as a forum for industrial chemists from around the country to come and discuss industrial research efforts.
- CMLL. German received a Growing Graduate Programs award to enable a proposed new on-line German MA. More graduate students presented research papers at regional, national, and international conferences. A Teaching English in International Contexts certificate program was approved. Dr. Bill VanPatten was hired to build a new Second Language Acquisition & Applied Linguistics PhD program focusing on English and Spanish. CMLL administered the English language proficiency evaluations for international students and provided graduate-level ESL courses for those needing to improve their English. One of those courses assisted international students with the dissertation writing process.
- COMS. In Fall 2007 two Communication Studies GTAs were selected to assist the Chancellor with teaching IS 4100: Leadership. Communication Studies faculty participated in TLTC's TEACH Fellow mentor program. One Communication Studies GTA was named a TLTC TEACH Fellow. Five Communication Studies graduate students received funding to attend the annual convention of the National Communication Association.
- ECOG. All graduate and undergraduate courses (100% compliance) have learning outcomes and assessment techniques on syllabi. Six graduate students traveled to deliver original research at professional conferences. GIS program is recognized in state and region for its state-of-the-art technology and faculty capabilities.
- ENGL. Raised the number of applications, lowered the rate of admission, and raised the rate of offers accepted, thus achieving growth in both the size and quality of the graduate program. Achieved rate of 100% of students completing the M.A. in English and the Ph.D. in English meeting all learning outcomes. Achieved rate of 100% of students completing the Ph.D. in Technical Communication and Rhetoric meeting all learning outcomes. Achieved rate of five of eight students completing the Ph.D. in Technical Communication and Rhetoric proceeding to new tenure-track positions, with two advancing in their current positions, and one accepting a temporary teaching position.
- ENTX. Six graduate students received various separate awards including a scholarship from the Galveston Bay Estuary Program to attend the 8th Biennial State of The Bay Symposium; the Study Abroad Competitive Scholarship and Summer Dissertation Research Award from TTU; a Colgate-Palmolive Society of Toxicology Award for Student Research Training in Alternative Methods; an Achievement Rewards for College Scientists (ARCS) Scholarship; an Industrial Fabric Foundation's Scholarship

(\$3000); and a top-five paper in the international level student paper competition at the International Nonwovens Technical Conference.

- GEOS. Two graduate students received Penrose Grants from the Geological Society of America for their research in north-central Norway.
- HESS. Several faculty promoted TA opportunities and scholarship opportunities by providing stipends to qualified students. Faculty members introduced hands-on laboratory data collection and analysis experiences to graduate level courses. Several faculty members published articles with graduate students and several presented at national conferences with graduate students. Several faculty received grants that allowed graduate students to be involved in scholarly activities. The Graduate Program Committee undertook modifying the graduate core curriculum.
- HIST. Six recent graduates were hired for professional history occupations in 2007.
- MATH. A new combined Bachelor's and Master's Degree Program in Mathematics and Statistics was approved by the Texas Higher Education Coordinating Board. This program, which can result in a BA/MA, BA/MS or BS/MS, was designed to retain top undergraduates within our graduate program, enhance recruitment of quality high school students, and to increase enrollment in upper division undergraduate and graduate courses. The department provided over \$9,000 to support the attendance of 14 graduate students at professional conferences. The pass rate of graduate students attempting the Preliminary Examinations improved to 75%, compared to a figure of 50% for the previous four years.
- PHIL. Conferred 11 master's degrees, tying for second-highest year ever. Recorded 19 master's students in 2007. Philosophical Gourmet continued to rank the M.A. program one of the top 12 in the country.
- PHYS. Ten graduate students presented talks in American Physical Society meetings based on their thesis research. Two students had poster sessions at an international conference. The department contributed towards travel expenses of 3 students. Two students were granted APS travel scholarships.
- POLS. A faculty member directed the Interdisciplinary Masters Specialization in International Affairs. Service learning continued as an emphasis in MPA courses. Prepared and submitted MPA national accreditation report, and received only a few requests for minor clarification. The department stressed meaningful and effective learning outcome and assessment procedures.
- PSY. Funding increased some 60% for graduate student travel to national/international conferences compared to 2006. Fellowships with the University Medical School provided direct clinical training for advanced doctoral students. Partnered with Angelo State to provide a "TTU Lectureship" as full-time teaching opportunities for recent doctoral graduates. The counseling psychology PhD program received full reaccreditation from the American Psychological Association. The human factors PhD program maintained accreditation with the Human Factors and Ergonomics Society (HFES). The clinical psychology PhD undertook a self-study in preparation for a reaccreditation site-visit during 2008-09.
- SASW. Graduate students in Anthropology and Sociology presented at both regional and national conferences. Four M.A. graduates in Anthropology and Sociology were admitted to prestigious PhD programs at University of Washington and at University of Colorado.
- ENGAGEMENT: Items in this section highlight achievements and outcomes of A&S units in providing scholarly outreach opportunities that contribute to students' learning and that benefit our communities, the state, and the nation.
- AERS. Drill Team Honor Guard represented TTU throughout the region; POW/MIA ceremonies, and local charities including Meals on Wheels, Food Bank and Guadalupe Kids; 14 new student orientation fairs were conducted; and several presentations were to local schools.
- BIOL. Dr. Chuck Cannon took leave to establish an ecology/evolutionary biology research lab at the Xishungbanna Tropical Botanic lab in China. Dr. Tigga Kingston, Dr. Mark McGinley and Dr. Ken Schmidt received the 2007 Education Research Initiative awards sponsored by the Office of the Vice President for Research for their innovative proposal to develop live and recorded field research activities in Malaysia for presentations to elementary students. Dr. David Tissue took leave to serve as Co-Director of the Global Climate Change Facility at the University of Western Sydney and to pursue research collaborations to examine impacts of climate change on plant physiology and ecosystems.
- CHEM. Dr. Robert Blake continued development of a statewide high school Chemistry teacher training course sponsored by the Texas Higher Education Coordinating Board. Dr. Joachim Weber was elected Chair of the South Plains Region of the American Chemical Society. Dr. Dominick Casadonte resumed the position of National Chemistry Week Coordinator for the South Plains local section of the American Chemical Society, garnering national recognition in Chemical and Engineering News. Sponsored the Southwest Regional Meeting of the American Chemical Society in Lubbock, with more than 600 chemists and biochemists from around the region attending.
- CMLL. The Intensive English Program was transferred from Outreach and Distance Education to CMLL. The IEP provides English as a Second Language instruction to international students who do not have the proficiency for either university admission or for business careers. Increasingly, TTU Centers in Quedlinburg, Germany, and Seville, Spain, are hosting cultural events that reach out to the local German and Spanish communities.
- COMS. Communication Studies organized and hosted the 21st Annual College of Arts and Sciences TA Workshop, with overall participant ratings of the workshop up slightly (.40%) over the two previous years; 299 new TAs attended (up 10% from 2006). Communication Studies began developing a new electronic newsletter for distribution to faculty, alumni, and friends. Several Communication Studies faculty provided guest presentations to departments and organizations on and off campus. Communication Studies alumni were invited to speak at the Communication Studies Week student recruitment luncheon.
- ECOG. Three faculty were invited to teach in the Honors College. Two faculty continued their roles as integral members of the Wind Science and Engineering Program and IGERT. Geographers were extensively involved in interdisciplinary programs, including LPMD and LAIS. Two faculty members advised for Phi Beta Kappa. Faculty remained involved in economic redevelopment in the state and region. The department established new ties with Lubbock ISD and rural school districts, and brought grade school students to campus for learning experiences. Collaborative projects continued between the department and the College of Education, Law School, Engineering College, and three departments in A&S.
- ENGL. Established the ESL/Literacy tutoring project as a dedicated service-learning course: ENGL 4371, Language and Community. Supported the 24-Hour Marathon Reading as a fundraiser for local literacy initiatives. Supported a speaker series that brought noted scholars and authors to Lubbock for public lectures and readings. Supported service-learning initiatives in graduate and undergraduate courses.

- **ENTX.** Nonwoven wipe was one of three innovative technologies from TTU showcased at the 1st Annual Big 12 DEDIC Innovation and Capital Formation Conference. Dr. Ramkumar received funding from the Helen Jones Foundation to educate high school students on burgeoning fields such as nanotechnology, and received additional support from the Lubbock-based CH Foundation to continue the project entitled National Priority Nonwoven Research for National Defense and Homeland Security.
- **GEOS.** Geosciences continued participation in "Science, it's a Girl's Thing" by offering classes, providing classroom facilities, and some financial support. Participation in Super Saturdays continued with provision of instructors and classroom facilities. The Department provided support and judges for the Regional Science Fair. Department members made numerous presentations at other universities and on campus. In particular, Katharine Hayhoe gave a number of presentations on climate change, including the address at the December, 2007 Graduate Commencement.
- **HESS.** The FUN & FIT service learning program integrated teaching, research, and service, through which systematic data collection continued to provide TTU national exposure within the HESS disciplines. Faculty provided more internship opportunities with sport organizations, within and outside of Lubbock. Several faculty members provided student engagement in local school districts. Physical Education/Teacher Education faculty and students prepared, organized, coordinated, and presented a workshop for Lubbock ISD physical educators on administering the FITNESSGRAM.
- **HIST.** History members were instrumental in TTU's Seville program, the Center for the Study of the Southwest, and the recently established Institute for Modern Conflict, Diplomacy, and Reconciliation. Through the West Texas Historical Association and the Southwest Collection, the department began building a community of scholars interested in Plains culture. The department worked to establish routine communications with area universities and colleges and with traditionally Latino and African American serving institutions in Texas.
- **MATH.** The department continued its outreach to area schools with twenty-one faculty participating in activities such as TexPREP-Lubbock, the Joy of Thinking, the Emmy Noether High School Mathematics Day, the TTU Summer Mathematics Academy and the Calculation Across Cultures and History program. Related to recruitment activities associated with the South Plains Mathematics Scholar Program, enhanced contacts and interaction were established with the Texas Education Service Centers in Regions 17 and 18. A faculty member visited several schools in Kenya during the summer as part of the grassroots educational initiative, 'Growing Schools in Africa.'
- **MILS.** ROTC cadets served as ushers and student representatives in the general seating section for all TTU home football games. The ROTC Color Guard conducted twelve performances outside the university honoring local communities and service organizations.
- **PHIL.** Taught core courses and Honors seminars for the Honors College, and two graduate seminars for the Fine Arts Doctoral Program. Provided a speaker series and an Ethics Movie Series, both open to the public, and conversations about philosophy at the Philosophy Café. Received a grant of \$1450 from Humanities Texas in support of the Lecture Series.
- **PHYS.** Physics faculty, staff, and students regularly engaged in community activities such as Upward Bound, UIL, Science Day, Science: It's a Girl Thing, QuarkNet, the South Plains Science and Engineering Fair, and the Physics Circus. Three faculty members conducted workshops for secondary education teachers, and one faculty member conducted workshops for elementary teachers. Many faculty members gave demonstrations and talks at area secondary schools. The Society of Physics Students was involved not only in campus activities (University Day, T-shirt Cannon, etc.) but also off campus, such as serving as judges at the South Plains Science and Engineering Fair.
- **POLS.** Led Constitution Day activities that included members of the TTU Law School faculty. Continued to promote the Earl Survey Research Laboratory to the campus community. A faculty member served on the Ogallala Aquifer Industry Review Group. Faculty assisted the Director of the Lubbock North and East Community Development Corporation with research. Faculty contributed pro bono work to the South Plains Association of Governments, the Lubbock Housing Finance Corporation, the City of Idalou, and the Volunteer Center of Lubbock. Faculty collaborated with Lubbock Christian University on university development in Uganda. A faculty member was affiliated with TTUHSC rural medicine program.
- **PSY.** The Psychology Clinic delivered assessment and therapy services in Spanish, serving a large ethnic minority population. Other services were provided to individuals from the local and surrounding communities, including predominantly those from underserved groups. The Department supports a colloquium series bringing in speakers with national and international reputations. Psychology students volunteering in the local community continued to be over 70%.
- **SASW.** Faculty were involved with the American Cancer Society, South Plains Homeless Consortium, and the Southwest Cancer Center, among others.
- **RESEARCH PRODUCTIVITY:** Items in this section highlight achievements and outcomes of A&S units toward increasing research productivity and funding.
- **BIOL.** The number of scholarly presentations by faculty and graduate students (176) was highest since 2002. Dr. McIntyre was recognized for having one of the top 10 downloaded papers in the journal *Urban Ecosystems*. Dr. Ron Chesser gave the keynote talk at a conference, "20 Years after Chernobyl: What is Next in Radiological Science?" held in Chiba, Japan, hosted by the National Institute of Radiological Sciences of Japan.
- **CHEM.** Student Jess McCoury received a "Best Poster" award during the General Poster Session of the Southwest Regional Meeting of the American Chemical Society in Lubbock. Dr. William Hase received a \$2.5M PIRE grant from the National Science Foundation. Dr. Jorge Morales received a prestigious CAREER award from the National Science Foundation. Dr. Paul Paré was a Fulbright Senior Scholar in Brazil. Dr. Dimitri Pappas' research made the cover of the October, 2007 issue of *Analytica Chimica Acta*, the second most cited analytical journal in the world. Research of Dr. Edward Quitevis was highlighted on the cover of *The Journal of Physical Chemistry*.
- **CMLL.** 25 faculty received honors including prizes, awards, fellowships, Mellon Visiting Professorships, named lectures, or keynote addresses. Five journals were edited out of CMLL including two among the most prestigious in their fields, *American Journal of Philology* (Classics) and *Hispania* (Spanish and Portuguese). Three book series were edited out of CMLL. CMLL research was featured in national newspapers in Spain and national magazines in Mexico and on Telemundo TV. Four CMLL faculty received intramural Arts & Humanities grants. A three-part fall series, "CMLL Faculty and Graduate Students Read From their Own Literary Works" was instituted.
- **COMS.** Faculty published 46 journal articles/book chapters (up 9.52% from 2006), and gave 23 scholarly conference presentations (up 155% from 2005). Faculty submitted 6 external grants (up 50% from 2006) and achieved funding of 4 (up 300% from 2006). Three faculty achieved a co-authored NIH grant for \$15,000. The average quality rating of publications by faculty was 3.44 (up 2.7% from 2006). Several faculty attended the annual conference of the National Communication Association, several attended

annual conferences of regional communication associations, and several attended international academic conferences.

- ECOG. All members of the faculty attended professional meetings and participated by delivering papers and/or commenting. Some 80% of faculty published research in 2007. For the past two years, faculty have applied for more grants than in previous six years and the average success rate is 70%. Several faculty sat on editorial boards or held executive posts in professional groups. All Economics faculty referee or review manuscripts for professional journals or publishers. The presses of Texas Tech University and Harvard University contracted with faculty to produce book manuscripts.
- ENGL. Dr. Stephen Jones, Creative Writing, received the Chancellor's Distinguished Research Award. Dr. John Poch, Creative Writing, received the Dorothy Sargent Rosenberg Poetry Award. Seven faculty received development leaves. Faculty sustained a high level of internally and externally funded research. The composition program joined the Dallas County Community College District on a \$500,000 research project funded by the Texas Higher Education Coordinating Board regarding hybrid methods of instruction in first-year composition.
- ENTX. Received \$850K from the Department of Defense to study effects of high-energy explosives on the environment, \$4.1M from the Department of Defense to address countermeasures to biological and chemical terrorism for the US Army, and secured \$1M from the Zumwalt National Program for Countermeasures to Biological and Chemical Threats. Nonwoven wipe was one of three innovative technologies from TTU showcased at the 1st Annual Big 12 DEDIC Innovation and Capital Formation Conference. Several faculty received awards for the 2007 Research Enhancement Fund grant competition, accounting for the most awards (4) and a total of \$135,270.
- GEOS. Dr. Katharine Hayhoe, as a member of the Intergovernmental Panel on Climate Change, shared the Nobel Peace Prize with the Honorable Albert Gore. Dr. Hua-wei Zhou was named a Chu-Tian Scholar by the China University of Geosciences, Wuhan. Dr. Sankar Chatterjee published two papers in the Proceedings of the National Academy of Sciences, one of the most prestigious journals in the Earth Sciences. Work continued on construction of two mobile Doppler Ka radars, funded by Texas Tech Research Development Grant to Drs. Basu, Schroeder, and Weiss (\$1,000,000), for which the PIs are already receiving enthusiastic requests for collaborative research opportunities.
- HESS. Many of the faculty wrote or participated in writing numerous internal and external grant proposals, participated in writing scholarly publications, and several faculty members, graduate students and undergraduate students presented at various conferences.
- HIST. The department increased funding for its tenure-track faculty to promote research and other creative activity, and continued to fund graduate student travel to conferences and to research sites. The department continued its competitive one-semester writing fellowship.
- MATH. A faculty member received the Bernie Rushing Distinguished Research Award. Faculty were awarded \$823K in external funding on 17 external grants. Faculty authored 85 scholarly journal publications and three books. Additionally, 59 peer-reviewed articles were accepted for publication and 86 papers submitted. Ninety-five percent of the faculty had a peer-reviewed publication appear, accepted, or submitted. Faculty gave 98 presentations at professional conferences, workshops, or colloquia at other universities; served on five National Science Foundation review panels, for other federal funding agencies, and as referees for journals.
- PHIL. All faculty members were engaged in submitting scholarly articles, with a total of nine articles or book chapters published or accepted.
- PHYS. Physics faculty reported 66 publications in refereed journals in 2007, and 15 faculty members had one or more publications. Physics faculty gave a total of 63 presentations in major international and national conferences. The external funding garnered by the faculty in 2007 amounted to \$1,613,137 for 20 proposals, representing a \$600,000 increase compared to the previous year.
- POLS. Continued to maintain a high number of professional presentations, with 81% of faculty participating. Held a consistent production of journal articles and book chapters with three quarters of the faculty participating. POLS attained its highest level ever of university startup support for new faculty. Submitted fifteen external proposals, and received funding for three of them. Several faculty served on editorial boards of prominent professional journals.
- PSY. A faculty member achieved fellow status, making 17 the total of fellows in professional societies; 5 are Phi Beta Kappa. Faculty maintained national or international exposure on 50 editorial boards and as officers in 8 national/international organizations, and dozens of related committees. A Center for Exceptional Teaching in Psychology was formed and initiated three research projects targeting "critical thinking in psychology." Faculty published 127 journal articles and book chapters, up 19.8% from 2006. Faculty gave 141 scholarly presentations, up 3.6%. Sponsored research funding for the year was \$509K, a decline. But faculty achieved 10 funded grants out of 41 proposals submitted.
- SASW. The SASW faculty had its most productive year of research output since 2002. The faculty produced 29 periodical publications in 2007, an increase of 142%, plus increased the number of books published in one year to 4. The number of faculty reporting publications increased by 26% from 2006. The number of faculty presenting papers at conferences or other public venues increased by approximately 25% from the number in 2006.
- PARTNERSHIPS: This section highlights achievements and outcomes of A&S units in building strategic partnerships and alliances with communities, government, business, industry, and schools, colleges, and universities.
- AERS. Double T days, University Days, college fairs, Black Engineers Society, local Junior ROTC programs and local high school counselors were made aware of AFROTC opportunities. The unit instituted partnerships with the local VFW and American Legion, which led to building advocacy for the program through advertisements on local radio and television for cadet events. The unit established a potential long-term partnership with Guadalupe Kids for after-school program.
- BIOL. Dr. Ron Chesser and Dr. Carl Phillips briefed the Iraqi Ambassador's office and a delegation from Great Britain and the U.S. State Department on TTU's science advisory programs in Iraq. Dr. Brenda Rodgers, a member of the TTU-Iraqi Team presented a report at the Al-Tuwaitha Project Meeting in Amman, Jordan on the Status of Public Health Studies at the Al Tuwaitha site. Dr. Sandra Diamond, Associate Professor, is Chair of the Finfish Stock Assessment Panel for the Gulf of Mexico Fishery Management Council. Dr. Diamond is also a member of the Standings and Statistical Committee for this management council.
- CHEM. An advisory group was composed of alumni from industry, academics, national labs, and national agencies. Continued summer participation of local high school science teachers in a THECB Advanced Research and Technology-supported project. Continued participation in Welch Summer Student Program giving outstanding high school juniors participation in research for five weeks. Several faculty collaborated in research with national laboratories and industrial concerns. Continued participation in the Multidisciplinary Science Masters program. Collaborated with the Lubbock Independent School District to compose an NSF-

sponsored GK-12 grant.

- CMLL. Faculty provided translation services to locals not proficient in English. A capstone Service Learning course was developed where undergraduate Spanish majors worked with the Lubbock Coalition for Literacy. Dr. Borst was an official administrator of the Zertifikat Deutsch für den Beruf Examination for Business German proficiency. She also offered a monthly German story hour at Barnes and Noble that was advertised regionally. Dr. Farley held in-service training sessions for nearly 200 foreign language high school instructors in the Plano and Richardson school districts. American Sign Language faculty and the ASL Silent Raiders organization provided outreach to the Deaf community.
- COMS. Communication Studies collaborated with the Health Sciences Center Department of Speech, Language, and Hearing Science to offer a joint course, "Communication Disorders". Three Communication Studies faculty collaborated on grant projects with faculty from other TTU colleges and from other universities. Several Communication Studies faculty taught IS 1100: Freshman Seminar.
- ECOG. Participated on numerous projects with the Big 12 Center for Economic Development, Innovation and Commercialization; Dartmouth College, the Social Security Administration, the U.S. Department of Health and Human Services, the National Institute on Aging; TTUHSC, U.S. Department of Agriculture, U.S. Geological Survey, the Texas National Guard, the National Alliance for Hispanic Health, and the National Security Education Program. Faculty gave lectures at the Sorbonne, City University of London, and the University of Bern. Faculty helped manage mineral leases on University of Texas System Lands.
- ENGL. Provided administrative offices for the Executive Director of the Popular Culture Association/American Culture Association. Provided editorial offices and support for five scholarly and literary journals. Supported the TTU Summer Reading Program. Supported a guest curator for an exhibit at the Folger Shakespeare Library in Washington, DC (Dr. Ann Hawkins, Bibliography). Supported the Comparative Literature Program and the 2007 Comparative Literature Symposium. Joined the Dallas County Community College District on a \$500,000 research project funded by the Texas Higher Education Coordinating Board regarding hybrid methods of instruction in first-year composition.
- ENTX. Had joint project with TTU Civil Engineering, Geosciences, and Chemistry and Biochemistry selected as Project of the Year in the Environmental Restoration Focus Area by Strategic Environmental Research and Development Program. Faculty variously were invited or elected to participate with the Society of Environmental Toxicology and Chemistry Program Committee, the Editorial Board of Environmental Toxicology and Chemistry, the EPA's Peer Review Panel for Fellowships for Graduate Environmental Study, and a research planning meeting established by the US Environmental Protection Agency and the Smithsonian Institution.
- GEOS. The Department continued to pursue collaborative research within TTU and at national and international levels, including 11 academic departments and centers or institutes at Texas Tech; the National Weather Service and the U.S. Geological Survey; 25 other U.S. and foreign universities; 5 U.S. and foreign museums; a number of state and federal agencies and a number of industry partners. A week long field seminar was run for 16 geoscientists from the Chinese National Petroleum Company (CNPC).
- HESS. Faculty made contacts at Angelo State University. Faculty members engaged with Lubbock Christian University to discuss TTU's FitTech initiative. Faculty worked closely with businesses, hospitals, clinics, and athletics at TTU to provide student internship opportunities. A partnership with the College Baseball Foundation was created that allowed Sport Management graduate students to assist in managing several events.
- HIST. See Engagement.
- MATH. The department hosted three conferences supported by the National Science Foundation that attracted scholars of international reputation: 1) the 7th Annual Red Raider Mini-Symposium; 2) a workshop on Complex Analysis & Special Functions, and 3) Conference on Emerging Frontiers in Control Theory Research and Innovative Applications, in honor of W.P. Dayawansa.
- MILS. ROTC Human Resources coordinated with state and federal programs to cover the tuition cost of 35 members of the Guard and Reserve, creating a measurable outside funding source of over \$450,000.
- PHIL. Faculty served on the Quality Enhancement Plan Task Force on Ethics in the Curriculum, on the Quality Enhancement Plan Steering Committee, and the QEP Implementation Committee. Another faculty member served as Faculty Advisor for the Intercultural Dialogue Association.
- PHYS. Joint research projects with Chemistry and Biochemistry, Mathematics and Statistics, the TTU Health Sciences Center, and units in Engineering. Worked with researchers at other universities and at laboratories including Los Alamos, Lawrence Berkeley, Sandia, Fermilab, CERN, RAL, TRIUMF, and PSI. Partnerships made with major high-tech companies including Intel, SEMATECH, AMD, Lockheed Martin, TI, and others. Fostered relationships with area universities and colleges such as Angelo State, South Plains, UT-Pan American, Abilene Christian, McMurry, Sam Houston State, and Stephen F. Austin State. A 150-hour articulation and graduate student admission agreement was signed with ASU.
- POLS. Ongoing collaboration with College of Business Administration and Health Sciences Center. Active research leadership roles with several universities along Ports to Plains corridor. Created research partnerships in Industrial Engineering, Business Law, Environmental Health, Communications, and Nursing. The Earl Survey Research Laboratory conducted surveys for regional associations, cities, and campus entities. Continued work with the Office of International Affairs on a variety of programs. Worked with Department of Environmental Toxicology on new joint MS/MPA program. Continued joint graduate programs with the Department of Economics and Geography and the TTU Law School.
- PSY. The Department maintained an internal working group targeting partnerships and alliances. The Department partnered with Angelo State University to create a "TTU Lectureship", providing full-time teaching opportunities for recent doctoral graduates. The Department expanded its "podcast series" to include 16 topics, allowing partnering with experts and universities from around the country. Department faculty members maintained adjunct and courtesy appointments with the TTUHSC and Law School, along with other elements of the TTU System.
- SASW. The department participated in the developing partnership with Comanche Nation College in Lawton, Oklahoma, which involved curricular planning and the delegation of appropriate TTU courses to be taught on the CNC campus. Also, discussions began about the development of a Montagnard Studies Center, which would be a jointly-sponsored center shared between SASW and the Vietnam Center.

Commentary:

A&S is committed to meeting the learning objectives of the university's general education or core curriculum as well as the college's own academic programs. All departments have participated fully in the effort to remove TTU from SACS probation. Much of this commentary compares four groups of departments within A&S, with some detail of individual departments: (1) The PhD Sciences include BIOL, CHEM, GEOS, MATH, PHYS, and, in some instances, ENTX. ENTX sch and major headcount are assigned to A&S, but ENTX cost per sch, sponsored projects, and fundraising are not. There are no undergraduates in ENTX, thus no freshman SAT data. (2) The PhD Social Sciences include ECOG, POLS, and PSY. (3) The PhD Humanities include CMLL, ENGL, and HIST. (4) The Masters group includes COMS, HESS, PHIL, and SASW. Not included in any group are MILS and AERS which house TTU's ROTC and AFROTC programs; their data are not represented in the universal quantitative data base, and their administrative home now is in an institute that reports to the Provost. As in FY2006, in FY2007 one third of the students at TTU majored in A&S (9,238 of 28,260 headcount; 32.7%), and A&S taught more than half of TTU's student credit hours (185,630 sch of 362,860; 51.2%) at considerably lower cost per sch than the TTU average (\$85 per sch for A&S vs. \$125 for TTU; A&S had the lowest cost per sch of any college at TTU, having had the second-lowest cost in FY2006). As in FY2006, in FY2007 the mean SAT of entering freshmen was the median for the nine colleges (5th of 9; A&S 1075 vs. TTU 1092), and A&S was second to ENGR in dollar value of sponsored projects (\$10,276,777; 21.5% of TTU). Compared to FY2006, A&S dropped two places to 5th of 10 colleges in fundraising (\$3,749,259; 5.0% of TTU). Of TTU's 106 minority faculty (up 2, counting only African American, Hispanic, and Native American), 38 (down 2; 35.8% of TTU) are in A&S. Within A&S, during Fall FY2007, the PhD Sciences generated 70,509 sch; the PhD Humanities 49,547; and the PhD Social Sciences 37,086, all up from Fall FY2006. Each of these groups exceeded the sch generation of all TTU colleges except A&S itself. The Masters group (27,703 sch) was exceeded in sch by A&S itself, RCoBA, and ENGN. One A&S department, MATH, generated more sch than any college but A&S itself and RCoBA. In headcount of majors, the PhD Humanities group (1,301 majors) exceeded the size of LAW, ARCH, and CVPA. The Ph.D. Social Sciences group (1,555) exceeded these and CASNR and EDUC. The Masters (1,792) and the Ph.D. Sciences group (1,789) exceeded these and MCOM. Changes across 5 years (2002-2007) were in the same direction for A&S vs. TTU for all of these major variables (sch, cost per sch, headcount of majors, SAT, sponsored projects, and fundraising), in some cases exceeding and in others lagging in rate of change. Across 5 years (FY2002-2007), A&S exceeded TTU growth in sch (A&S up 6.4% vs. TTU 5.8%) and headcount of majors (+6.6% vs. 2.5%) but lagged in entering freshman SAT (-24 points vs. -20), fundraising (+67.1% vs. 40.6%) and sponsored projects (-29.7% vs. -10.6%). A&S contributed strongly to TTU's cost-containment; while cost per sch for TTU dropped by 0.8%, A&S cost per sch fell by 15%. Across these 5 years, A&S accounted for 56.3% of TTU's increase in sch (11,218 of 19,942). The A&S department most responsible for the increase in sch was CMLL (up 4,743 sch; 49.0%). Increases of 2,000-2,999 sch were produced by CHEM, ENGL, HESS and POLS; of 1,000-1,999 by BIOL; and of 1-999 by COMS, GEOS, and PHYS. The other 6 departments experienced decreases in sch (from -395 in SASW to -1959 in HIST). Across the 5 years, A&S accounted for 82.3% of TTU's increase in student headcount (569 of 691); the college leaders were HESS (up 331; 45.8%) and BIOL (+247; 37.5%). Departments with increases of 100-199 majors were CHEM, ECOG, ENGL, and PSY. Increases of 1-99 were produced by CMLL, COMS, GEOS, HIST, MATH, PHIL, and SASW. Two A&S department declined in number of majors across 5 years, PHYS (-14; -19.7%) and POLS (-49; -11.4%). Across 5 years, SAT scores for entering freshmen fell 20 points for TTU (1112 to 1092) and 24 points for A&S (1099 to 1075). Seven A&S departments increased in SAT (CMLL, COMS, ECOG, ENGL, GEOS, PHYS, POLS) with the greatest increase in PHYS (+104 points to 1380). Of the other departments, decreases were in the range of -9 to -72. Across TTU, only 2 of the 9 colleges have SAT averages above 1100 (CoBA 1165, ENGN 1132); within A&S, 11 of 15 departments exceed 1100. Across 5 years, cost per sch decreased by \$15 in A&S vs. \$1 for TTU. Only one A&S department increased in cost per sch (PHIL \$5; 5.2%). The greatest decreases in cost per sch were produced by PHYS (-\$51; -31.5%), CHEM (-\$44; -29.3%), BIOL (-\$32; -25%), and GEOS (-\$26; -19.3%). Decreases in cost of \$10-\$20 per sch were produced by CMLL, HESS, and SASW, and of \$1-\$9 by COMS, ECOG, ENGL, HIST, MATH, POLS, and PSY. Across 5 years, A&S fell 29.7% (-\$4,348,438) in sponsored projects, accounting for 76.7% of TTU's decline of \$5,671,099. In fundraising, A&S increased 67.1% (+\$1,505,121), accounting for 2.5% of TTU's increase of \$59,626,194. Three departments increased in both categories (CMLL up \$71,597 in sponsored projects and up \$1,408 in fundraising; PHIL +\$2,950 and +\$6,165; and SASW +\$158,295 and +\$15,149). The greatest gain in sponsored projects was in ENGL (+\$226,593); the greatest loss was in BIOL (-\$2,285,028). The greatest gain in fundraising was in BIOL (+\$1,817,000); the greatest loss was in MATH (-\$57,219). All of the Ph.D. Science departments lost in sponsored projects across the 5 years. Across 5 years, the proportion of minority faculty in A&S increased more than for TTU (up +40.7% vs. +37.7%). CMLL accounts for 10 of A&S's 38 minority faculty. For the first time, every A&S department has at least one minority faculty member.

Implementation Plan:

A&S will continue to work with the TTU SACS task force and the General Education committee in ensuring that A&S courses meet the learning objectives of the major programs of which they are a part and of the general education or core curriculum of the university. From FY2002-FY2007, A&S has contributed strongly to TTU's growth in sch, headcount, and fundraising and to TTU's decrease in cost per sch. TTU and A&S both declined in SAT and sponsored projects during that time. The major ways in which cost per sch has been reduced have had the effect of reducing the dollar value of sponsored projects. The more courses and the more students the faculty teach, the less time they have for research. The more time that graduate students teach or help faculty teach, the less time they have to help faculty in research or do their own research. A&S does an excellent job in using graduate students to teach and/or assist faculty in teaching, thus increasing sch and headcount of graduate and undergraduate students, and will continue to use this approach to maximizing sch generation and minimizing cost per sch. The Dean is a member of the newly-established Efficiencies Task Force in which representatives of the Board of Regents, Office of the Chancellor, the Provost, and other TTU leaders are working to strengthen both teaching and research without excessive reliance upon increases in tuition. Although

most A&S departments exceed the TTU average in SAT, the continuing decline in SAT scores among A&S freshmen is of serious concern. A&S must support TTU's recruiters not only to increase enrollment in general but also to encourage the enrollment of highly academically qualified students. The decline in SAT scores in fields traditionally associated with the highest SAT scores (in particular, PHIL, BIOL, and CHEM) predicts problems in the future as these students experience less success in their undergraduate programs and in admission to graduate and professional schools and place greater demands on faculty to accommodate their needs in the classroom. The SAT problem was brought to the attention of A&S chairs last year with little response; this year, the college will reallocate resources in order to require additional departmental recruiting under the direction of an associate dean. Recent changes in Institutional Advancement suggest that A&S will receive stronger support in fundraising, and the college will be able to resume combining recruiting and fundraising efforts in a way that was effective in past years. A&S must strengthen recruitment and retention of minority faculty, as the numbers remain low even in the most successful departments. A&S will continue to work with the Provost's Office in developing resources for minority faculty candidates, including hires of opportunity. Each year, each department chair receives a letter written by the Dean and Associate Dean that provides feedback about their strategic planning assessment reports and other matters of interest or concern.