

Administrative and Educational Support Report*

Department of Computer Science

**Annual Action Plan
Annual Assessment Report**

June 2004 – May 2005

*Student Learning Outcomes for this department are available at
<http://ie.panam.edu/CoSELearningOutcomes.htm>



Annual Action Plan: June 1, 2004–May 31, 2005

Unit: Department of Computer Science

UTPA Mission: The University of Texas-Pan American (UTPA) serves the higher education needs of a rapidly growing, international, multicultural population in the South Texas Region. The University preserves, transmits and creates knowledge to serve the cultural, civic, and economic advancement of the region and the state. The University provides students advanced instruction in academic programs offered through innovative delivery systems that lead to professional certification, and baccalaureate, master's and doctoral degrees. Through teaching, research, creative activity and public service, UTPA prepares students for lifelong learning and leadership roles in the state, nation and world community.

Division: Academic Affairs

Unit Head: Dr. Peter Ng

Unit Mission:

The Department of Computer Science is an academic department in School of Engineering and Computer Science at the University of Texas-Pan American. Currently, the School is an administrative unit within the College of Science and Engineering. The department offers four degrees: Bachelor's of Science in Computer Science (BSCS) as a broad-field major, Bachelor's of Science with a major in Computer Science (BS) with a required minor field, Master's of Science with a major in Computer Science (MS) and Master's of Science in Information Technology (MSIT). The department offers courses leading to teacher certification in computer information systems, service courses to fulfill University College / General Education requirements, and computer science courses required for degree programs in engineering, science and mathematics. Faculty conduct research in computer science, computer science education and interdisciplinary fields, and contribute their professional service to student advising, mentoring, professional organizations, university activities, industrial interactions and to the community through professional expertise.

The undergraduate curricula in computer science are based on Association for Computing Machinery and Institute of Electrical and Electronics Engineers Computer Society recommendations for curricula and reflect the goals of a liberal arts education. The graduate curricula provide advanced and specialized study in the areas of computer science and information technology. The curricula in computer science provide the student with marketable expertise to enter computing and information technology fields, the skills and education required to adapt to rapid change characteristic of the fields, and the foundation to pursue graduate study in computer science and information technology.

Unit Goal:

Provide a variety of quality academic programs grounded in the liberal arts that cultivate active learning, critical thinking, and interdisciplinary perspectives.

Link to UTPA Goal(s):

2: Enhance Graduate Education and Research

Unit Objective (Action Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome for Unit Objective (AA-Measurable Objective)	Strategy(ies) to Achieve Expected Outcomes	Assessment Criteria, Evaluation Methods for Expected Outcome	New Resources Needed in FY05
Program development (1)	6	Chair will work with the Dean to establish parameters to guide the development of a multidisciplinary PhD	Arrange a meeting between the Chair, the director of CITEC, and the Dean.	A written agreement between the Chair and Dean expressing the expectations necessary for PhD development for the	None

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Unit Objective (Action Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome for Unit Objective (AA-Measurable Objective)	Strategy(ies) to Achieve Expected Outcomes	Assessment Criteria, Evaluation Methods for Expected Outcome	New Resources Needed in FY05
		program in Computing/Information Technology.		Computer Science Department by August 2005.	

Unit Goal:

Provide effective student recruitment, development, retention, and placement programs designed to promote and serve a diverse student population.

Link to UTPA Goal(s):

- 1: Ensure Undergraduate Student Access and Success
- 2: Enhance Graduate Education and Research

Unit Objective (Action Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome for Unit Objective (AA-Measurable Objective)	Strategy(ies) to Achieve Expected Outcomes	Assessment Criteria, Evaluation Methods for Expected Outcome	New Resources Needed in FY05
Increased enrollment (2)	1, 4	Increase undergraduate and graduate enrollment by 5%.	Faculty exchange between STCC and UTPA Concurrent enrollment Electronic reach-out advertising On-site recruiting at high schools	Using 2003/2004 as a baseline, the department chair will compute the increase in SCHs and declared majors by August 2005.	New faculty position Increased travel budget

Unit Goal:

Facilitate excellence in scholarship, research, and/or creative activities for the enhancement of knowledge that can be shared with the public through presentation, publication, or performance.

Link to UTPA Goal(s):

- 1: Ensure Undergraduate Student Access and Success
- 2: Enhance Graduate Education and Research

Unit Objective (Action Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome for Unit Objective (AA-Measurable Objective)	Strategy(ies) to Achieve Expected Outcomes	Assessment Criteria, Evaluation Methods for Expected Outcome	New Resources Needed in FY05
Increased scholarly productivity (3)	2, 5	Increase the number of peer reviewed publications and presentations by faculty and students by 10%.	Work closely with CITEC. Increase grant submissions. Increase the number of students with	The chair and staff will calculate the increase of publications and presentations over the base year 2003/2004 by August 2005.	New database server New research assistant Research lab space

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Unit Objective (Action Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome for Unit Objective (AA-Measurable Objective)	Strategy(ies) to Achieve Expected Outcomes	Assessment Criteria, Evaluation Methods for Expected Outcome	New Resources Needed in FY05
			undergraduate research experience. Increase grant funding.		



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Link to UTPA Goal(s):

2: Enhance Graduate Education and Research

Unit Objective (Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome	Assessment Criteria, Evaluation Methods	Assessment Results (Use actual data to describe annual performance)	Use of Results (What change was made?)
Program development (1)	6	Chair will work with the Dean to establish parameters to guide the development of a	A written agreement between the Chair and Dean expressing the expectations necessary for	A white paper was submitted by the department in September 2004 but no action was	The department is working with the new dean to establish the steps necessary to develop a

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		multidisciplinary PhD program in Computing/Information Technology.	PhD development for the Computer Science Department by August 2005.	taken before the dean left the university. In spring 2005, the department was advised to submit a new request for a Ph.D. program. That request was submitted on May 4, 2005.	PhD in IT.

Unit Goal:	Provide effective student recruitment, development, retention, and placement programs designed to promote and serve a diverse student population.
Link to UTPA Goal(s):	1: Ensure Undergraduate Student Access and Success 2: Enhance Graduate Education and Research

Unit Objective (Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome	Assessment Criteria, Evaluation Methods	Assessment Results (Use actual data to describe annual performance)	Use of Results (What change was made?)
Increased enrollment (2)	1, 4	Increase undergraduate and graduate enrollment by 5%.	Using 2003/2004 as a baseline, the department chair will compute the increase in SCHs and declared majors by August 2005.	SCHs have declined the past few years by 15% per year, but in 2004-2005 SCH production leveled off with a slight decrease of only 5.8%. The number of declared majors increased by 2.5%.	Throughout the year, the chair made recruitment visits to high schools in the region, around the state and in Mexico. Travel funds were dedicated to recruitment efforts in 2004-05 and 2005-06.

Unit Goal:	Facilitate excellence in scholarship, research, and/or creative activities for the enhancement of knowledge that can be shared with the public through presentation, publication, or performance.
Link to UTPA Goal(s):	1: Ensure Undergraduate Student Access and Success 2: Enhance Graduate Education and Research

Unit Objective (Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome	Assessment Criteria, Evaluation Methods	Assessment Results (Use actual data to describe annual performance)	Use of Results (What change was made?)
Increased scholarly productivity	2, 5	Increase the number of peer reviewed publications	The chair and staff will calculate the increase of	10 journal publications, 15 proceedings and 3 book	Additional fiscal resources were requested for FY

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Unit Objective (Priority: #1 is highest)	Link to UTPA Objective	Expected Outcome	Assessment Criteria, Evaluation Methods	Assessment Results (Use actual data to describe annual performance)	Use of Results (What change was made?)
(3)		and presentations by faculty and students by 10%.	publications and presentations over the base year 2003/2004 by August 2005.	chapters resulted in an increase for the department of 10% over 2003-2004.	2006 to support scholarly productivity.

Additional Resources Needed (if any) that were requested for FY06 during the budget cycle: Requested one additional faculty line, an increase in assistantships and additional travel funds.