

Administrative and Educational Support Report*

Department of Computer Science

Annual Action Plan
Annual Assessment Report

June 2007 – May 2008

*Student Learning Outcomes for this department are available at
<http://www.ie.utpa.edu/CoBALearningOutcomes.htm>



Annual Action Plan: June 1, 2007–May 31, 2008

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: Zhixiang Chen

Unit Mission: The Department of Computer Science is an academic department in the 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). In addition, the department and the department of Electrical Engineering offer a joint degree of Bachelor's of Science in Computer Engineering (BSCE) with a major in Computer Engineering. The department offers courses leading to teacher certification in computer science, service courses to fulfill University College / General Education requirements, and computer science courses required for degree programs in engineering, science and mathematics. The 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 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 the rapid change characteristic of the fields, and the foundation to pursue graduate study in computer science and information technology.

UTPA Goal:

1. Provide UTPA students with a quality experience that enables them to complete their educational goals in a timely fashion.

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**Academic
Affairs
Objective:**

1.A. The Provost Office will support the Colleges and Departments to establish a systematic methodology for the collection, reporting, benchmarking and improving continuance of students in degree programs as measured by key outcome measures associated with students in continuance degree programs.

**College/AVP
Objective:**

I.A: The COSE Dean's Office will work with its department chairs to establish a systematic methodology for collecting, reporting, and benchmarking of the key outcome measures associated with continuance of students in degree programs as measured by these outcomes.

Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
1.A.3 Improve Retention Rates in the Major	<p>Increase freshmen to junior retention by 3%</p> <p>Increase sophomore to junior retention by 2%</p> <p>Increase junior to senior retention by 1%</p>	<p>Enhance the hand-on lab component to 1380 and 2380</p> <p>Include more programming experience in 1381</p> <p>Continue enforcing the 1381 pre-requisite for 2380</p> <p>Continue enforcing the 2344 pre-requisite for 3334</p> <p>Include more algorithm design and analysis content to 3333</p> <p>Manage the effectiveness of lab consultants</p> <p>Enhance the effectiveness of GTAs</p>	<p>Request freshmen-junior retention data from OIRE and compare to objective of 3% increase.</p> <p>Request sophomore-junior retention data from OIRE and compare to objective of 2% increase.</p> <p>Request junior-senior retention data from OIRE and compare to objective of 1% increase.</p>	None

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Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
1.A.4 Provide students with advance scheduling information	Re-examine the master-plan of class the scheduling Post a cycling of courses for a 2 year time frame by October 1, 2007	Post cycle outside office, and on the department website.	Place a question on the exit interviews for graduating majors asking if the cycling of courses was available to them. Target is 80% positive response.	None

UTPA Goal:

1. Provide UTPA students with a quality experience that enables them to complete their educational goals in a timely fashion.

Academic Affairs Objective:

1.B. The Provost Office will work with the Colleges (and departments) to establish a systematic methodology for the collection, reporting, benchmarking and improving of the key outcome measures associated with enhancing student learning outcomes.

College/AVP Objective:

1.B. The College of Science and Engineering will assist the departments in establishing a systematic methodology for the collection, reporting, and benchmarking of the key outcome measures associated with enhancing student learning outcomes and will improve student learning as measured by these outcomes

Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
1.B.1 Maintain current assessment of Student Learning Outcomes	Conduct graduating Senior Exit Survey and Alumni Survey and collect the survey data during Fall 2007 with at least 30 alumni responses and at least 85% senior responses. Conduct ETS Major Field Test in Computer Science and collect the data of the	Appoint an Assessment Coordinator for the undergraduate programs and an Assessment Coordinator for the graduate programs Follow departmental assessment plan on file with SVP for Undergraduate Affairs.	The Undergraduate Program Director communicates with ETS to administer the ETS Major-Field Test in Computer Science. The Graduate Program Director administrates the Comprehensive Examinations for graduate students.	None

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Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
	<p>test results in Fall 2007</p> <p>Administrate the Comprehensive Examination for graduate students and collect the data of the examination results</p> <p>Collection employer's evaluation of internships</p> <p>Hold Department SLO Assessment meetings on schedule each semester, with at least 85% attendance.</p>	<p>Seek funds to pay for the ETS Major-Field Test in Computer Science.</p> <p>Have faculty volunteers to help manage the Senior Exit Survey, the Alumni Survey and the ETS Test.</p> <p>Have faculty volunteers to collect and analyze the data</p> <p>Organize subcommittees to help administrate the Comprehensive Examinations.</p>	<p>Conduct alumni survey via e-mail distribution, automated web collection, compile results, file with department office, call faculty meeting to review results and make recommendations. At least 30 responses should be received to meet objective.</p> <p>Conduct senior survey, compile results, file with department office, call faculty meeting to review results and make recommendations. At least 85% of graduate should respond to meet objective.</p>	
<p>1.B.2 Expand assessment of Student Learning Outcomes</p>	<p>Revise the Graduating Senior Exiting Survey topics</p> <p>Revise internal prerequisite assessment tests for 6300, 6301, 6302. Administrate those tests for those entering graduate students who do not have a strong education background in Computer Science. Those fail the test must take the needed course(s) of 6300, 6301, and 6302</p>	<p>Appoint an Assessment Coordinator for the undergraduate programs and an Assessment Coordinator for the graduate programs</p> <p>Organize subcommittee to help develop and administrate the Comprehensive Examinations and internal prerequisite assessment tests for 6300, 6301, 6302.</p>	<p>Administrate the internal prerequisite assessment tests for 6300, 6301, 6302 at prior to the beginning of each semester, when some entering graduate students are identified with need to take the tests.</p> <p>Administrate the Comprehensive Examinations once every semester</p>	<p>None</p>

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Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
1.B.3 Demonstrate program effectiveness through success on licensing exams	<p>The percentiles of pass results on ETS Major-Field Test in Computer Science at the national level</p> <p>The pass rate the Comprehensive Examinations.</p>	<p>Seek the funds to pay for the ETS Major-Field Test and Communicate with ETS to administrate the test. Notify all seniors to take the test. Collect the test results from ETS. Get faculty volunteers to analyze the test result.</p> <p>Get faculty to prepare and revise test problems for the Comprehensive Examinations., and also prepare and revise study guidelines or materials to help students prepare for the examinations. Get faculty to grade the examinations.</p>	<p>Analyze the results of the ETS Major-Field Test in Computer Science at the national level. Identify the strong and weakness. Prepare recommendations for improvements.</p> <p>Analyze the results of the Comprehensive Examinations. Major-Field Test in Computer Science at the national level. Identify the strong and weakness. Prepare recommendations for improvements.</p>	None

UTPA Goal:

1. Provide students with a quality educational experience that enables them to complete their educational goals in a timely fashion.

Academic Affairs Objective:

1.C. The Provost Office will work with the Colleges (and departments) to establish a systematic methodology for the collection, reporting, benchmarking and improving of the key outcome measures associated with increasing access to our educational programs.

College/AVP Objective:

1.C. The College of Science and Engineering will assist its departments to establish a systematic methodology for the collection, reporting, and benchmarking of the key outcome measures associated with increasing access to our educational programs and will improve access as measured by these outcomes.

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Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
1.C.1 Increase enrollment in program	Undergraduate SCH, with target of 1% growth from Spring 2007 to Spring 2008 Graduate SCH, with target of 3% growth from Spring 2007 to Spring 2008.	High school visits by faculty. Targeted mailings to high school counselors Advertise graduate programs over the web and in local media	Receive UG data from Records and Registration. Compare 12th class day numbers to see if 1% target has been met. Receive GR data from Records and Registration. Compare 12th class day numbers to see if 3% target has been met.	None

UTPA Goal:

1. Provide students with a quality educational experience that enables them to complete their educational goals in a timely fashion.

Academic Affairs Objective:

Objective 1.D. The Provost Office will establish at least 2 teaching improvement workshops each semester to encourage faculty to improve their classroom effectiveness.

College/AVP Objective:

1.D: The COSE will work with the departments to encourage and reward faculty members who participate in professional development workshops in the area of teaching effectiveness.

Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
1.D.1 Improve faculty attendance in professional development activities	Faculty attendance, with target of at least 7 faculty attending at least one of Provost's workshops.	Advertise events; issue frequent reminders to faculty, mention attendance in annual reviews.	Count number of faculty reporting attendance, verify that at least 7 attended.	Provost Office should establish the workshops.

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UTPA Goal:

2. Become an outstanding research institution emphasizing collaborative partnerships and entrepreneurship.

**Academic
Affairs
Objective:**

2.A. The Provost's Office will support the Colleges and Departments to establish systematic methodology for the collection, reporting, benchmarking, and to improve the production and dissemination of scholarly and creative works as measured by key outcome measures.

**College/AVP
Objective:**

2.A. The College of Science and Engineering will support its departments to establish systematic methodology for the collection, reporting, and benchmarking of the key outcome measures for scholarly productivity and will increase scholarly productivity of its tenured/tenure track faculty, as measured by these outcomes.

Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
2.A.1 Increase faculty productivity in publication	<p>a. Number of top-tier journal articles (e.g. recognized by ISI, SCI, ACM, IEEE)</p> <p>b. Number of top-tier conference articles (e.g. recognized by ISI, SCI, ACM, IEEE)</p> <p>c. Number of books published</p> <p>d. Number of book chapters published</p> <p>e. Licensed patents, software, or intellectual properties</p> <p>f. Number of other refereed journal articles (e.g. not recognized by ISI, SCI, ACM, or IEEE)</p>	<p>Organize research workshops, seminars</p> <p>Support research visit coming to UTPA or going outside UTPA</p> <p>More collaborative publications.</p> <p>Preferentially support students who publish.</p> <p>Transfer funds from other categories to support additional conference travel</p> <p>Have merit committee review document and recommend methods to enhance differential rewards for high quality publication.</p>	<p>Collect data on two time intervals. One collection is through annual merit folders to meet college requirements. This will evaluate 2006-2007. Second collection is in May 2008, to allow evaluations of productivity in 2007-2008.</p> <p>Combine categories (a) through (d) and compare total to previous year to check for 5% increase.</p> <p>Combine categories (e) through (g) and compare total to previous years to check for 5% increase.</p>	The current travel is not sufficient

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Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
	<p>g. Number of other refereed journal articles (e.g. not recognized by ISI, SCI, ACM, or IEEE)</p> <p>h. Patents</p> <p>i. Number of talks, presentations</p> <p>j. Percentage of tenured and tenure track faculty with publications in categories (a-j).</p> <p>Targets: (1) 5% increase in the combined total of (a through e). (2) 5% increase in the combined total of (f through i)</p>			
2.A.2 Increase undergraduate publication	<p>Number of conference papers and/or journal articles with undergraduate authors or coauthors. Target is 4 or more.</p>	<p>Preferentially support students who publish.</p> <p>Hire undergraduate and graduate students on existing research grants</p>	<p>Review results in fall to meet college schedule, then again in May 2008 to determine if at least four papers were published 5/07-5/08.</p>	<p>Need fund to support research assistants</p>
2.A.3 Increase number of proposals and collaborative proposals	<p>Number of proposals with CS principal investigator (target: 10 or an average of one per tenure/tenure track faculty)</p>	<p>Have merit committee review document and recommend methods to enhance differential rewards for external grant proposals.</p>	<p>Request results from OSRP to see if target of 10 proposals is met.</p> <p>Request report from each faculty on proposals submitted.</p>	<p>None</p>

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Unit Objective	Measurable Outcomes and Criteria for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
	Number of ELEE faculty on collaborative proposals (target: 80% of tenure/tenure track faculty)	Encourage faculty to attend OSRP workshops Visit from OSRP rep to CS Department	Determine if 80% of tenure/tenure track faculty are PI or co-PI on a collaborative proposal.	

UTPA Goal:

3. Enhance UTPA’s engagement with the community to meet the challenges and maximize opportunities.

Academic Affairs Objective:

3.B. The Provost’s Office will support the Colleges and Departments to establish a systematic methodology for the collection, reporting, benchmarking and to improve the integration of University and community resources as measured in the key outcome.

College/AVP Objective:

3.B. The College of Science and Engineering will assist its departments in establishing a systematic methodology for collecting, reporting, and benchmarking of the key outcome measures that measure University participation in professional and community activities and will increase University participation in professional and community activities as measured by these outcomes.

Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
3.B.1 Increase community service through consulting (paid and/or unpaid)	Reported hours of consulting, service work reported by faculty and technical staff (Target: 80 hrs total for all faculty)	Ask faculty and technical staff to report consulting, service hours	Faculty will be asked in May 2008 to report consulting and service to the community. Data will be collected by department and compared to target of 80 hours.	
3.B.2 Increase participation professional organizations, regional or local professional events	(b) Organizers of professional organizations, conferences, workshops	Support faculty to bid to host conferences at UTPA	(a) Count the number of faculty memberships in May 2008. (d) Ask faculty and the ACM Student Chapter president and	

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Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
	(b) Editorship of professional journals (c) Membership of professional organizations, conferences, workshops (d) Organizers in regional and local student competitions, research conferences and activities.	Support faculty to organize workshops, seminars Ask existing members to recommend faculty to join in professional organizations, conference committees, journal editorship Support organization of regional, local student competitions, research conference and activities	counselor to report number and results of competitions, sponsorships of regional, local competitions and research activities	

UTPA Goal: 4. Collaborate with P-12 schools to enlarge the pool of applicants who are personally prepared and academically qualified for higher education.

Academic Affairs Objective: 4.B. The Provost's Office will support the Colleges and Departments to establish a systematic methodology for the collection, reporting, benchmarking, and to improve the pool of qualified applicants as measured in the key outcome measures.

College/AVP Objective: 4.B. The Provost's Office will support the Colleges and Departments to establish a systematic methodology for the collection, reporting and benchmarking of data related to P-12 education, and will improve the pool of qualified applicants in science and mathematics education programs, as measured in the key outcome measures.

Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
4.B.1 Increase P-12 outreach	(a) Number of participants, posters, presentations from high school to the Annual UTPA CS Student	Mail recruitment packages to counselors	(a) Report the number of participants, posters, presentations from high school to the Annual UTPA CS Student	

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Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
	<p>Research Day</p> <p>(b) Number of teams from high school to compete at the Annual Texas ACT Regional Programming Contest</p> <p>(c) Number of high schools visited</p> <p>Increase number of entering freshmen choosing Computer Science by 3%</p>	<p>Support the Annual UTPA CS Student Research Day. Seek fund to support this event</p> <p>Support the Annual UTPA High School Programming Contest, the Annual Texas ACT Regional Programming Contest</p> <p>Seek funds to awards winners of the high school programming contests</p>	<p>Research Day</p> <p>(b) Report the number of teams from high school to compete at the Annual Texas ACT Regional Programming Contest</p> <p>(c) Report the number of high schools visited</p> <p>(d) Get report from Records and Registrations. (Results not available until 12th class day of Fall 2008).</p>	

UTPA Goal:

5. Infuse inter-American and global perspectives throughout the University community.

Academic Affairs Objective:

5.A. The Provost's Office will support the Colleges and Departments to establish a systematic methodology for the collection, reporting, benchmarking, and to enhance access to inter-American and global perspectives as measured in the key outcome measures.

College/AVP Objective:

5.A. The College of Science and Engineering will assist its departments in establishing a systematic methodology for the collection, reporting, and benchmarking of the key outcome measures for enhancing access to inter-American and global perspectives and will enhance access to inter-American and global perspectives as measured in these outcomes.

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Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
5.A.1 Increase number of international students	(a) Maintain number of international students in undergraduate program (b) Increase number of international graduate students by 3%	Recruit students from Reynosa and Monterrey Recruit students from international universities Build relations between the CS program at UTPA and with other international universities, e.g., universities in China and India. Work with graduate office to streamline admissions, eliminate or reduce admission fees	(a) Request UG data from OIRE and compare to previous year's data. (b) Request GR data from OIRE, compare to target of 3% increase.	None

UTPA Goal:

6. Optimize institutional effectiveness and efficiency with high quality organization standards.

Academic Affairs Objective:

6.A. The Provost's Office will support the Colleges and Departments to establish a systematic methodology for the collection, reporting, benchmarking, and to optimize course offerings through careful planning, as measured in the key outcome measures.

College/AVP Objective:

6.A. The College of Science and Engineering will assist its departments in establishing a systematic methodology for collecting, reporting, and benchmarking of key outcome measures for optimizing course offerings and will improve the optimization of course offerings as measured by these outcomes.

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Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
6.A.1 Provide students with advance scheduling information	Post a cycling of courses for a 2 year time frame by October 1, 2007	Post cycle outside office, and on website.	Place a question on the exit interviews for graduating majors asking if the cycling of courses was available to them. Target is 80% positive response.	None
6.A.2 Improve safety and quality standards in labs	Make sure all computing hardware is properly installed and maintained.	Assign the computer system administrator to maintain the lab	Request report and checklist of equipment from the computer system administrator	None

AES FY08 Assessment Results Report

UTPA

Dept - Computer Science

Unit Mission: The Department of Computer Science is an academic department in the 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). In addition, the department and the department of Electrical Engineering offer a joint degree of Bachelor's of Science in Computer Engineering (BSCE) with a major in Computer Engineering. The department offers courses leading to teacher certification in computer science, service courses to fulfill University College / General Education requirements, and computer science courses required for degree programs in engineering, science and mathematics. The 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 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 the rapid change characteristic of the fields, and the foundation to pursue graduate study in computer science and information technology.

Unit Head: Zhixiang Chen

College: College of Science and Engineering

Division: Division of Academic Affairs

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Dept - Computer Science - Degree Programs - Systematic Methodology - 1.A. Improve Retention Rates in the Major Provide students with advance scheduling information</p> <p>Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p>Start Date: 06/01/2007</p> <p>Outcome Status: Active/Ongoing</p>	<p>Assessment Method: Request freshmen-junior retention data from OIRE and compare to objective of 3% increase.</p> <p>Request sophomore-junior retention data from OIRE and compare to objective of 2% increase.</p> <p>Request junior-senior retention data from OIRE and compare to objective of 1% increase.</p> <p>Place a question on the exit interviews for graduating majors asking if the cycling of</p>	<p>10/20/2008 - The CS program does meet these criteria, because the a good percentage of our students moved to the joint Computer Engineering program. This new program started in Spring 2008 and in Fall 2008 we have 204 students. if this big increase is added, then the criteria are met.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>10/20/2008 - We shall develop strategy to keep both CS and the Computing Eningeering growing.</p>

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Strategies: Enhance the hand-on lab component to 1380 and 2380</p> <p>Include more programming experience in 1381</p> <p>Continue enforcing the 1381 pre-requisite for 2380</p> <p>Continue enforcing the 2344 pre-requisite for 3334</p> <p>Include more algorithm design and analysis content to 3333</p> <p>Manage the effectiveness of lab consultants</p>	<p>courses was available to them. Target is 80% positive response.</p> <p>Criterion for Success: Increase freshmen to junior retention by 3%</p> <p>Increase sophomore to junior retention by 2%</p> <p>Increase junior to senior retention by 1%</p> <p>Re-examine the master-plan of class the scheduling</p> <p>Post a cycling of courses for a 2 year time frame by October 1, 2007</p>	<p>10/20/2008 - The CS program does meet these criteria, because the a good percentage of our students moved to the joint Computer Engineering program. This new program started in Spring 2008 and in Fall 2008 we have 204 students. if this big increase is added, then the criteria are met.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>10/20/2008 - We shall develop strategy to keep both CS and the Computing Enineering growing.</p>
<p>Enhance the effectiveness of GTAs</p> <p>Post cycle outside office, and on the department website.</p>			
<p>Dept - Computer Science - SLOs - Systematic Methodology - 1.B. Maintain current assessment of Student Learning Outcomes</p> <p>Expand assessment of Student Learning Outcomes</p> <p>Demonstrate program effectiveness through success on licensing exams</p>	<p>Assessment Method: The Undergraduate Program Director communicates with ETS to administer the ETS Major-Field Test in Computer Science.</p> <p>The Graduate Program Director administrates the Comprehensive Examinations for graduate students.</p>	<p>11/11/2008 - These criteria are well met. We just had the CAC/ABET Re-Accreditation visit 11/2 to 11/4, the review commends our program and the accreditation policies and procedures.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - The result has been successful used for gaining CAC/ABET re-accreditation.</p>
<p>Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p>Start Date: 06/01/2007</p> <p>Outcome Status: Active/Ongoing</p>	<p>Conduct alumni survey via e-mail distribution, automated web collection, compile results, file with department office, call faculty meeting to review results and make recommendations. At least 30 responses should be received to</p>		

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Strategies: Appoint an Assessment Coordinator for the undergraduate programs and an Assessment Coordinator for the graduate programs</p>	<p>meet objective.</p> <p>Conduct senior survey, compile results, file with department office, call faculty meeting to review results and make recommendations. At least 85% of graduate should respond to meet objective.</p>	<p>11/11/2008 - These criteria are well met. We just had the CAC/ABET Re-Accreditation visit 11/2 to 11/4, the review commends our program and the accreditation policies and procedures.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - The result has been successful used for gaining CAC/ABET re-accreditation.</p>
<p>Follow departmental assessment plan on file with SVP for Undergraduate Affairs.</p>	<p>Administrate the internal prerequisite assessment tests for 6300, 6301, 6302 at prior to the beginning of each semester,</p>		
<p>Seek funds to pay for the ETS Major-Field Test in Computer Science.</p>	<p>when some entering graduate students are identified with need to take the tests.</p>		
<p>Have faculty volunteers to help manage the Senior Exit Survey, the Alumni Survey and the ETS Test.</p>	<p>Administrate the Comprehensive Examinations once every semester</p> <p>Analyze the results of the ETS Major-Field Test in Computer Science at the national level. Identify the strong and weakness.</p>		
<p>Have faculty volunteers to collect and analyze the data</p>	<p>Prepare recommendations for improvements.</p>		
<p>Organize subcommittees to help administrate the Comprehensive Examinations.</p>	<p>Analyze the results of the Comprehensive Examinations. Major-Field Test in Computer Science at the national level. Identify the strong and weakness.</p>		
<p>Appoint an Assessment Coordinator for the undergraduate programs and an Assessment Coordinator for the graduate programs</p>	<p>Prepare recommendations for improvements.</p>		
<p>Organize subcommittee to help develop and administrate the Comprehensive Examinations and internal prerequisite assessment tests for 6300, 6301, 6302.</p>	<p>Criterion for Success: Conduct graduating Senior Exit Survey and Alumni Survey and collect the survey data during Fall 2007 with at least 30 alumni responses and at least 85% senior responses.</p>		
<p>Seek the funds to pay for the ETS Major-Field Test and Communicate with ETS to administrate the test. Notify all seniors to take the test. Collect the test results from ETS. Get faculty volunteers to analyze the test result.</p>	<p>Conduct ETS Major Field Test in Computer Science</p>		
<p>Get faculty to prepare and revise test</p>	<p>and collect the data of the test results in Fall 2007</p>		

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>study guidelines or materials to help students prepare for the examinations. Get faculty to grade the examinations.</p>	<p>Administrate the Comprehensive Examination for graduate students and collect the data of the examination results</p> <p>Collection employer?s evaluation of internships</p> <p>Hold Department SLO Assessment meetings on schedule each semester, with at least 85% attendance. Revise the Graduating Senior Exiting Survey topics</p> <p>Revise internal prerequisite assessment tests for 6300, 6301, 6302. Administrate those tests for those entering graduate students who do not have a strong education background in Computer Science. Those fail the test must take the needed course(s) of 6300, 6301, and 6302</p> <p>The percentiles of pass results on ETS Major -Field Test in Computer Science at the national level</p> <p>The pass rate the Comprehensive Examinations.</p>	<p>11/11/2008 - These criteria are well met. We just had the CAC/ABET Re-Accreditation visit 11/2 to 11/4, the review commends our program and the accreditation policies and procedures.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - The result has been successful used for gaining CAC/ABET re-accreditation.</p>
<p>Dept - Computer Science - Access - Systematic Methodology - 1.C Increase enrollment in program</p> <p>Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p>Start Date: 06/01/2007</p> <p>Outcome Status: Active/Ongoing</p>	<p>Assessment Method: Receive UG data from Records and Registration. Compare 12th class day numbers to see if 1% target has been met.</p> <p>Receive GR data from Records and Registration. Compare 12th class day numbers to see if 3% target has been met.</p> <p>Criterion for Success: Undergraduate SCH, with target of 1%</p>	<p>10/20/2008 - Our Undergraduate SCH is 2052 in Spring 07 and 1992 in Spring 2008. However, our joint Computer Engineering increased from 0 (the program started in Spring 08) to 103 students in Spring 08. Adding or getting proper portion of this huge increase makes sure that the criteria is met.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - We plan to develop strategy to keep both CS and Computing growing.</p>

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Strategies: High school visits by faculty. Targeted mailings to high school counselors Advertise graduate programs over the web and in local media</p>	<p>growth from Spring 2007 to Spring 2008 Graduate SCH, with target of 3% growth from Spring 2007 to Spring 2008.</p>		
<p>Dept - Computer Science - 1.D - 1.D.1 Improve faculty attendance in professional development activities Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011 Start Date: 06/01/2007</p>	<p>Assessment Method: Count number of faculty reporting attendance, verify that at least 7 attended. Criterion for Success: Faculty attendance, with target of at least 7 faculty attending at least one of Provost's workshops.</p>	<p>10/20/2008 - All faculty attended workshops. The attendance number is over 15. Result Type: Criterion Met Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - We plan encourage more faculty to attend workshop and actively participate in professional development activities.</p>
<p>Outcome Status: Active/Ongoing Strategies: Advertise events; issue frequent reminders to faculty, mention attendance in annual reviews.</p>			
<p>Dept - Computer Science - Scholarly Productivity - Systematic Methodology - 2.A Increase faculty productivity in publication Increase undergraduate publication Increase number of proposals and collaborative proposals Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011 Start Date: 06/01/2007</p>	<p>Assessment Method: Collect data on two time intervals. One collection is through annual merit folders to meet college requirements. This will evaluate 2006-2007. Second collection is in May 2008, to allow evaluations of productivity in 2007-2008.</p>	<p>10/20/2008 - The CS faculty had 19 publications in top tier journals, and it is a 3.6% increase comparing with last year. Result Type: Criterion Met Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - The productivity of our faculty has been used to help us gain the CAC/ABET re-accreditation.</p>
<p>Outcome Status: Active/Ongoing Strategies: Organize research workshops, seminars</p>	<p>Combine categories (a) through (d) and compare total to previous year to check for 5% increase. Combine categories (e) through (g) and compare total to previous years to check for 5% increase. Review results in fall to meet college schedule, then again in May 2008 to</p>		

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
Support research visit coming to UTPA or going outside UTPA	determine if at least four papers were published 5/07-5/08. Request results from OSRP to see if target of 10 proposals is met.	10/20/2008 - The CS faculty had 19 publications in top tier journals, and it is a 3.6% increase comparing with last year. Result Type: Criterion Met	11/11/2008 - The productivity of our faculty has been used to help us gain the CAC/ABET re-accreditation.
More collaborative publications.	Request report from each faculty on proposals submitted.	Next Step: Continue Current Strategy(s)	
Preferentially support students who publish.	Determine if 80% of tenure/tenure track faculty are PI or co-PI on a collaborative proposal.		
Transfer funds from other categories to support additional conference travel			
Have merit committee review document and recommend methods to enhance differential rewards for high quality publication.	Criterion for Success:		
Preferentially support students who publish.	a. Number of top-tier journal articles (e.g. recognized by ISI, SCI, ACM, IEEE)		
Hire undergraduate and graduate students on existing research grants	b. Number of top-tier conference articles (e.g. recognized by ISI, SCI, ACM, IEEE)		
Have merit committee review document and recommend methods to enhance differential rewards for external grant proposals.	c. Number of books published		
Encourage faculty to attend OSRP workshops	d. Number of book chapters published		
Visit from OSRP rep to CS Department	e. Licensed patents, software, or intellectual properties		
	f. Number of other refereed journal articles (e.g. not recognized by ISI, SCI, ACM, or IEEE)		
	g. Number of other refereed journal articles (e.g. not recognized by ISI, SCI, ACM, or IEEE)		
	h. Patents		
	i. Number of talks, presentations		
	j. Percentage of tenured and tenure track faculty with publications in categories (a-j).		

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
	<p>Targets: (1) 5% increase in the combined total of (a through e). (2) 5% increase in the combined total of (f through i)</p> <p>Number of conference papers and/or journal articles with undergraduate authors or coauthors. Target is 4 or more.</p> <p>Number of proposals with CS principal investigator (target: 10 or an average of one per tenure/tenure track faculty)</p> <p>Number of ELEE faculty on collaborative proposals (target: 80% of tenure/tenure track faculty)</p>	<p>10/20/2008 - The CS faculty had 19 publications in top tier journals, and it is a 3.6% increase comparing with last year.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - The productivity of our faculty has been used to help us gain the CAC/ABET re-accreditation.</p>
<p>Dept - Computer Science - Professional and Community Participation - Systematic Methodology - 3.B Increase community service through consulting (paid and/or unpaid)</p> <p>Increase participation professional organizations, regional or local professional events</p> <p>Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p>Start Date: 06/01/2007</p> <p>Outcome Status: Active/Ongoing</p> <p>Strategies: Ask faculty and technical staff to report consulting, service hours</p>	<p>Assessment Method: Faculty will be asked in May 2008 to report consulting and service to the community. Data will be collected by department and compared to target of 80 hours.</p> <p>(a) Count the number of faculty memberships in May 2008.</p> <p>(d) Ask faculty and the ACM Student Chapter president and counselor to report number and results of competitions, sponsorships of regional, local competitions and research activities</p> <p>Criterion for Success: Reported hours of consulting, service work reported by faculty and technical staff (Target: 80 hrs total for all faculty)</p>	<p>10/20/2008 - One faculty spent one summer month doing consulting, with more than 160 hours. Several faculty volunteered at public schools for MathCount tutors etc with more than 50 hours. 3 editorship. 5 memberships. 4 organizers.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - The CAC/ABET re-accreditation visit team was impressed by the UTPA outreach programs. The CS faculty has contributed to these programs.</p>

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Support faculty to bid to host conferences at UTPA</p> <p>Support faculty to organize workshops, seminars</p> <p>Ask existing members to recommend faculty to join in professional organizations, conference committees, journal editorship</p> <p>Support organization of regional, local student competitions, research conference and activities</p>	<p>(b) Organizers of professional organizations, conferences, workshops</p> <p>(b) Editorship of professional journals</p> <p>(c) Membership of professional organizations, conferences, workshops</p> <p>(d) Organizers in regional and local student competitions, research conferences and activities.</p>	<p>10/20/2008 - One faculty spent one summer month doing consulting, with more than 160 hours. Several faculty volunteered at public schools for MathCount tutors etc with more than 50 hours. 3 editorship. 5 memberships. 4 organizers.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - The CAC/ABET re-accreditation visit team was impressed by the UTPA outreach programs. The CS faculty has contributed to these programs.</p>
<p>Dept - Computer Science - 4.B - 4.B.1 Increase P-12 outreach</p> <p>Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p>Start Date: 06/01/2007</p> <p>Outcome Status: Active/Ongoing</p> <p>Strategies: Mail recruitment packages to counselors</p> <p>Support the Annual UTPA CS Student Research Day. Seek fund to support this event</p> <p>Support the Annual UTPA High School Programming Contest, the Annual Texas ACT Regional Programming Contest</p>	<p>Assessment Method:</p> <p>(a) Report the number of participants, posters, presentations from high school to the Annual UTPA CS Student Research Day</p> <p>(b) Report the number of teams from high school to compete at the Annual Texas ACT Regional Programming Contest</p> <p>(c) Report the number of high schools visited</p> <p>(d) Get report from Records and Registrations. (Results not available until 12th class day of Fall 2008).</p> <p>Criterion for Success:</p> <p>(a) Number of participants, posters, presentations from high school to the Annual UTPA CS Student Research Day</p>	<p>10/20/2008 - We had over 323 students participated in the 2008 UTPA CS Research Day Conference, 27 students conducted research, 61 posters and oral presentations. 11 teams competed at the programming contents. Visited five high schools.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - We plan to visit more high schools for recruiting.</p>

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
Seek funds to awards winners of the high school programming contests	<p>(b) Number of teams from high school to compete at the Annual Texas ACT Regional Programming Contest</p> <p>(c) Number of high schools visited</p> <p>Increase number of entering freshmen choosing Computer Science by 3%</p>	<p>10/20/2008 - We had over 323 students participated in the 2008 UTPA CS Research Day Conference, 27 students conducted research, 61 posters and oral presentations. 11 teams competed at the programming contents. Visited five high schools.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - We plan to visit more high schools for recruiting.</p>
<p>Dept - Computer Science - Access to Inter-American and Global Perspectives - Systematic Methodology - 5.A.1 Increase number of international students</p> <p>Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p>Start Date: 06/01/2007</p> <p>Outcome Status: Active/Ongoing</p> <p>Strategies: Recruit students from Reynosa and Monterrey</p> <p>Recruit students from international universities</p> <p>Build relations between the CS program at UTPA and with other international universities, e.g., universities in China and India.</p> <p>Work with graduate office to streamline admissions, eliminate or reduce admission fees</p> <p>Dept - Computer Science - Optimization of Course Offerings - Systematic Methodology -</p>	<p>Assessment Method: (a) Request UG data from OIRE and compare to previous year's data.</p> <p>(b) Request GR data from OIRE, compare to target of 3% increase.</p> <p>Criterion for Success: (a) Maintain number of international students in undergraduate program</p> <p>(b) Increase number of international graduate students by 3%</p>	<p>10/20/2008 - The results show the increase is flat, or stable.</p> <p>Result Type: Criterion Not Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/11/2008 - We plan to develop strategy to recruit more international students to our programs.</p>

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>6.A Provide students with advance scheduling information Improve safety and quality standards in labs</p> <p>Outcome Types: Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p>Start Date: 06/01/2007</p> <p>Outcome Status: Active/Ongoing</p> <p>Strategies: Post cycle outside office, and on website. Assign the computer system administrator to maintain the lab</p>	<p>Assessment Method: Place a question on the exit interviews for graduating majors asking if the cycling of courses was available to them. Target is 80% positive response. Request report and checklist of equipment from the computer system administrator</p> <p>Criterion for Success: Post a cycling of courses for a 2 year time frame by October 1, 2007 Make sure all computing hardware is properly installed and maintained.</p>	<p>10/15/2008 - More than 90% responses are positive. All computer hardware is properly installed and maintained.</p> <p>Result Type: Criterion Met</p> <p>Next Step: Continue Current Strategy(s)</p>	<p>11/20/2008 - We use the result to schedule our classes for fall and spring semesters and for summer terms as well. We make sure the tech staff maintain the lab and computing facilities well.</p>