

# **Administrative and Educational Support Report\***

**Department of Manufacturing Engineering**

**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 Manufacturing Engineering**

**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. Doug Timmer

**Unit Mission:** The Manufacturing Engineering Department will provide students a quality education to prepare them for the practice of engineering, with sufficient depth to continue their education toward a Doctoral degree. The curriculum will provide skills that enhance the understanding of the applications of engineering sciences. The faculty will be readily accessible and will continually strive to improve their instructional materials and the methods of dissemination. The faculty will also practice life long learning by keeping abreast of and participating in the latest developments in their chosen areas of expertise and interacting across disciplines

**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.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.

**Department Objective:** I.A: The department of Manufacturing Engineering (MANE) will 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.

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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
Objective 1A.	<p>Increase 4 year graduation rate by 1%</p> <p>Increase the freshman retention rate by 3%.</p> <p>Increase the sophomore retention rate by 2%.</p> <p>Increase the junior retention rate by 1%.</p>	<p>Create new degree plan with reduced hours to improve 4 year graduation date.</p> <p>Replace ENGR 1101 – Introduction to Engineering with MANE 1101 – Introduction to Manufacturing Engineering. Improve communication between faculty and entering freshman. Appoint undergraduate coordinator</p>	<p>Achievement of the increases in 3 of the 4 measures. Department will collect data from the AAMS Center, from Professional Guidance Counselors and from faculty.</p>	<p>Core Curriculum</p> <p>Release time for undergraduate coordinator</p>
Objective 1A	<p>Assist students in continuance programs by each department posting in a public place the cycling of courses for a 2 year time frame By October 1, 2007/</p>	<p>Post 2 year schedule of courses on department bulletin boards and website</p>	<p>Place a question on undergraduate exit survey if the 2 year cycle was available. Target is 90% positive response</p>	<p>None</p>

**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.

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**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

**College/AVP Objective:** 1.B. MANE will establish 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
Objective 1B.1 Maintain current assessment of Student Learning Outcomes	<p>Successful administration of competency test for MANE 2332/3332 – Engineering Statistics, MANE 3340/2340 – Fundamentals of Industrial Engineering and MANE 3364 – Manufacturing Processes and Senior Design performance.</p> <p>Survey graduating seniors.</p> <p>Survey alumni in Fall 2007 with at least 40 responses</p> <p>Hold Department SLO Assessment meetings each semester with a minimum of 85% attendance</p>	<p>Appoint an Assessment Coordinator</p> <p>Follow departmental assessment plan on file with appropriate Senior Vice President</p>	<p>.Assign faculty to administer tests, collect completed tests, file with department office, assign faculty to grade and summarize test results, call faculty meeting to review results and make recommendations. Verify that all tests were given and record dates.</p> <p>Conduct web-based survey of alumni. Collect and analyze data. Present results in department meeting.</p> <p>Conduct exit survey for graduating seniors in Senior Design 2. Compile and store results. Discuss results with faculty. At least 85% of graduates should complete exit survey.</p>	Release time for Assessment coordinator
Objective 1B.2 Expand assessment of Student Learning Outcomes	<p>Add at least one course to list of courses being internally assessed.</p>	<p>Appoint an Assessment Coordinator.</p> <p>Assign faculty to develop new assessment materials.</p>	<p>At least one measure of the learning outcomes for each major will be used by the faculty in curriculum development.</p>	Release time for Assessment coordinator

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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
	Add requirement that all graduate students shall have knowledge of the literature of the discipline and were engaged in research and/or appropriate professional practice and training experiences	Hold department plan to develop strategy to satisfy knowledge of literature and research/practice requirements for graduate program.	Hold department meeting in Fall 2007 to establish assessment technique. Implement in Spring 2008	
Objective 1B.3 Demonstrate program effectiveness through alumni success	Conduct employer survey of alumni and establish employer satisfaction with quality of education and UTPA MANE graduates.	Develop and implement web-based survey of alumni	Complete survey in Spring 2008 with 85% satisfaction rating.	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.

**Department Objective:** 1.C. MANE will 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.

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
Objective 1 C.	Increase undergraduate SCH by 5%	High School visits by faculty	Evaluate UTPA SCH reports	Increase scholarship support for

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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
	Increase graduate SCH by 10%	Participation in Region One ESC T-STEM program  Improved relationships with local community colleges  New departmental website.  Focused marketing plan for new MS in Engineering Management	Count visits to community colleges and Region One.  Establish new website by November 2007.	undergraduate students  Change in policy that will students from Northern Mexico enrolled in an online program to receive Tuition waiver (current policy requires an F-1 Visa to receive Tuition waiver)

**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.

**Department Objective:**

1.D: MANE will work to encourage and reward its faculty members who participate in professional development workshops in the area of teaching effectiveness.

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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
Objective 1.D. Improve faculty attendance in professional development activity	Faculty attendance with a target of at least 4 out of 6 faculty attending one professional development activity related to teaching effectiveness	<p>Advertise events; issue frequent reminders to faculty, mention attendance in annual review meetings.</p> <p>Work with Provost office and Center for Learning, Teaching and Technology to present 2<sup>nd</sup> annual Teaching Online Boot Camp</p>	Count number of faculty reporting attendance to verify minimum target of 4	Provost Office should establish the workshops and provide notification well in advance of the workshops

**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.

**Department Objective:**

2.A. MANE will 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
	Manufacturing Engineering	The COSE will develop	Department chair will monitor and	Template from COSE by

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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
Objective 2.A.1	department will provide the requested data to the Dean's Office by October 1, 2007.	and provide to departments a template for reporting the scholarly works outcomes before the Annual Faculty Evaluation deadline, September 10, 2007.	report of deadline is met	September 10, 2007
Objective 2.A.2 Increase faculty productivity in publication	a). Number of national/international refereed journal articles b). Number of other refereed journal articles c). Number of books published d). Number of book chapters published e). Number of published national/international conference proceedings f). Number of proceedings Targets: (1) 10% increase in the combined total of items (a-d). (2) 10% combined increase in the combined total of items (e) and (f)	Encourage collaborative publications  Require MS students receiving assistantships to enroll as Thesis or Research students  Increase Travel funds to support attending more conferences  Increase Maintenance and Operating budget to support publication expenses associated with some journals  Review departmental merit procedures	Compare targets 1 and 2 with 2006-2007 publication productivity  Compare 2008-2009 budget with 2007-2008 budget for increased funding to support publications  Complete merit review by May 2008	Increased travel funds to support attending more conferences  Increased Maintenance and Operating budget to support publication expenses associated with some journals

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**UTPA Goal:**

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

**Academic Affairs Objective:**

2.B. The Provost's Office will support the Colleges and Departments to establish systematic methodology for the collection, reporting, benchmarking, and to improve the acquisition of external funds as measured by key outcome measures, and will increase the acquisition of external funds, as measured by the key outcome measures.

**College/AVP Objective:**

2.B. The College of Science and Engineering will assist its departments to establish systematic methodology for the collection, reporting, and benchmarking and of key outcome measures for the acquisition of external funds and will improve the acquisition of external funds, as measured by these outcomes.

**Department Objective:**

2.B. MANE will establish a systematic methodology for the collection, reporting, and benchmarking and of key outcome measures for the acquisition of external funds and will improve the acquisition of external funds, 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
Objective 2.B	Targets: (1) minimum of 6 proposals submitted with MANE principal investigator to external funding agency in 2007-2008. (2) minimum of one externally funded research grant received in 2007-2008. (3) Every tenure/tenure-track faculty will submit a minimum of one external funding proposal as PI or co-PI	Have merit committee review department document and recommend methods to enhance activities in seeking external funding  Encourage faculty to attend OSRP workshop  Have OSRP visit department meeting	Track proposal submitted in department office  Request funding results from OSRP  Evaluate 2008-2009 budget for increase in travel funding	Increase travel funds to send investigators to meet with program directors at National Science Foundation and other funding agencies
Objective 2.B	Manufacturing Engineering department will establish system to track faculty performance in external funding based upon COSE template  Manufacturing Engineering	The COSE will develop and provide to departments a template for reporting external funding activities	Departments will present benchmarks of current performance and set targets for improvements by May 2008.	COSE template for reporting external funding activities.

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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
	department will document faculty performance in external funding			

**UTPA Goal:**

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

**Academic Affairs Objective:**

3.A The Provost’s Office will support the Colleges and Departments to establish a systematic methodology for the collection, reporting, benchmarking and to increase credit and non-credit course offerings as measured in the key outcome measures.

**College/AVP Objective:**

3.A The College of Science and Engineering will assist its departments in establishing a systematic methodology for collecting, reporting, and benchmarking of key outcomes for credit and non-credit course offerings and will increase credit and non-credit course offerings as measured by these outcomes.

**Department Objective:**

3.A MANE will establish a systematic methodology for collecting, reporting, and benchmarking of key outcomes for credit and non-credit course offerings and will increase credit and non-credit course offerings 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.A MANE will provide a variety of offerings in a flexible manner to facilitate attendance by non-traditional students.	Number of alternatively scheduled academic offerings (weekend, online courses)	Provide resources and training for faculty to teach online  Continue transitioning MS in Engineering Management to online program	The College will count the courses and their enrollment to assess the success and need for the flexible schedule. Use AY 2006-2007 as benchmark data.  MANE will participate with the survey instruments being prepared by COSE to measure the needs and requirements for the flexible schedule.	CLTT support for 2 <sup>nd</sup> annual Teaching Online Bootcamp

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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
MANE participate in continuing education programs for professionals.	Number of non-degree programs and students (e.g., certificates, continuing education, CEU courses, etc.)	<ul style="list-style-type: none"> <li>– MANE will participate in COSE's development of a strategic plan for the establishment of a continuing education program.</li> <li>– MANE will participate in COSE's activities to synergize with existing resources for the continuing education program.</li> <li>– MANE will follow COSE's leadership in the execution of these programs</li> <li>– Leverage Wired grant?</li> </ul>	<p>MANE will participate with COSE in the establishment of a strategic plan for a successful continuing education program in conjunction with existing resources (e.g Center for Manufacturing).</p> <p>MANE will count the courses and their enrollment to assess the success and need for the continuing education program.</p>	COSE strategic plan for continuing education

**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.

**Department Objective:**

3.B. MANE will establish 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.

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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>MANE will engage in activities that will support the community in understanding the importance of Science and Engineering</p>	<p>a. MANE will participate in engineering-related activities including HESTEC, FESTIBA and Engineers Week.                      b. Number of memberships on mutual advisory councils/organizations/projects. Use this as benchmark data.                      c. Number of programs and students involved in service learning activities coordinated through the University.                      d. Number of faculty engaged in discipline specific consulting. Use this as benchmark data.</p>	<p>– MANE will encourage participation in community based activities of the University                      – MANE will facilitate, encourage and record the participation of faculty and recognize their efforts through the merit and tenure/promotion process                      – MANE will facilitate, encourage and record the participation of students in professional and community based service activities</p>	<p>MANE will track of participation of faculty and student participation in professional and community based activities through the Merit and Tenure and Promotion documents</p>	<p>None</p>
<p>MANE will engage industrial and other community partners in the development of community-based projects that will serve the dual purpose of meeting needs within the community and providing opportunities for research.</p>	<p>a. Integration of research, education and entrepreneurial activities that meet contemporary community needs (<i>e.g., establishment of of Rapid Response Manufacutring Center</i>). Use this as benchmark data.                      b. Number of external proposals to secure funding in collaboration with community groups. Use this as benchmark data.</p>	<p>MANE will facilitate activities that integrate community based needs with the research agenda of the various disciplines of the college</p>	<p>MANE will track participation of faculty and students in professional and community based activities through the proposal flow for authorization and the Merit and Tenure and Promotion documents</p>	<p>None</p>

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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
	c. Number of publications incorporating community collaborators or addressing community programs			

**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.A. 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.A. 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 in relation to the continuance of students in science and mathematics education programs, and will improve the continuance rates of students in these programs.

**Department Objective:** 4.A. MANE will establish a systematic methodology for the collection, reporting and benchmarking of data related to P-12 education in relation to the continuance of students in science and mathematics education programs, and will improve the continuance rates of students in these programs.

Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
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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>MANE will establish a systematic methodology for the collection of, reporting of, and benchmarking of assessment data so as to improve key outcome measures associated with manufacturing engineering students and will investigate methods for improving the continuance rates.</p>	<p>MANE will participate in the COSE establishment of P-20 council for UTPA with curriculum alignment being a major 07-08 focus</p> <p>Increase the number of active partnerships with local school districts (e.g., summer programs, recruiting high school teachers for masters degrees)</p>	<p>By working with the COSE P-20 council MANE will establish a relationship with a local ISD and work towards curriculum alignment.</p>	<p>MANE will collect data from AY 2006-2007 so as to set benchmarks for AY 2007-2008.</p> <p>By August 1, 2008, MANE will collect data for AY 2007-2008</p> <p>MANE will analyze collected and compare to benchmark numbers.</p> <p>MANE will report assessment figures in their Annual Assessment Reports. Using the assessment data from AY 2007-2008, and develop an action plan for improvements to be made in AY 2008-2009.</p>	

**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.

**Department Objective:** 4.B. MANE will 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
<p>MANE will establish a systematic methodology for the collection of, reporting of, and benchmarking of assessment data so as to improve the pool of qualified applicants entering science and mathematics education programs.</p>	<p>MANE will participate in the COSE's establishment of P-20 council for UTPA with curriculum alignment being a major 07-08 focus</p> <p>MANE will establish an active partnerships with a local school districts (e.g., summer programs, recruiting high school teachers for masters degrees)</p>	<p>MANE will establish a partnership with a local ISD to improve the pool of qualified applicants entering MANE and other COSE programs</p>	<p>By August 1, 2008, MANE will collect data for AY 2007-2008</p> <p>Data collected will be analyzed by MANE and the analyzed data will be compared to benchmark numbers.</p> <p>MANE will report assessment figures in their Annual Assessment Reports. Using the assessment data from AY 2007-2008, each COSE department will establish action plans for improvements to be made in AY 2008-2009.</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.

**Department Objective:**

5.A. MANE will establish 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
MANE will engage in University sponsored international activities	<ul style="list-style-type: none"> <li>a. Collect data to benchmark the number and diversity of affiliation of participants in international week, Pan American days.</li> <li>b. Number of students who study abroad and foreign students studying at UTPA</li> <li>c. Number of Visiting International Scholars</li> </ul>	MANE will encourage faculty and students to participate in University sponsored international activities through the Office of International Programs	MANE will keep track of participation of faculty and student participation in University sponsored international activities through by engaging with the Office of International Programs to maintain a system that would track this activity	
MANE will engage in activities that will provide opportunities for faculty and students to gain international experience	<ul style="list-style-type: none"> <li>a. Collect data to benchmark the number of active partnerships that yield instructional, research, or service benefits to the institution and its faculty</li> <li>b. Number of international internships.</li> <li>c. Number of faculty with international experiences through Fulbright and similar faculty experiences</li> <li>d. Number of International presentations</li> </ul>	<p>MANE will continue to offer MANE 4333 – Product Design for Mass Customization in Collaboration with Michigan State University and Monterrey Tech</p> <p>MANE will continue to offer MANE 3364/3164 – Manufacturing Processes and Processes to International students from Mexico in Summer I</p> <p>MANE will develop and offer initial courses in Lean Sigma Academy (supported through Wired Grant) to international students</p>	<p>MANE will track enrollment of international students in BS, MS and summer programs</p> <p>MANE will track the faculty and student engagement in activities that include international experiences based activities through the Merit and Tenure and Promotion documents</p>	Expand Tuition Waiver program to include online students (and not require F-1 Visa)

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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>from Mexico Summer 2008</p> <p>MANE will expand online offerings in Engineering Management targeting joint US/Mexico manufacturing operations</p>		

**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.

**Department Objective:**

6.A. MANE will establish 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.

Unit Objective	Measurable Outcome for Unit Objective	Strategy(ies) to Achieve Unit Objective	Evaluation Methods for Measurable Outcome	New Resources Needed in FY08
MANE will establish a systematic methodology for the collection of, reporting of, and benchmarking of	<p>Publish a 2-year (6 semesters) schedule by October 15.</p> <p>Reduce the delta between scheduled seats and filled</p>	In January, MANE will submit to the COSE dean, a 2-year, 6-semester schedule of classes offered	<p>MANE Chair will ensure that course schedules are posted on website and department bulletin board.</p> <p>Place a question on</p>	None

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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>assessment data for optimizing course offerings and will improve the optimization of course offerings as measured by these outcomes.</p>	<p>seats.</p> <p>Maximize faculty, classroom and lab utilization</p> <p>Minimize the number of classes that are not funded due to size</p>	<p>Obtain benchmark for AY 2006-2007 for MANE on percentage of seats filled. Increase the percentage of seats filled by 2% for AY 2007-2008.</p> <p>Obtain classroom and laboratory space utilization data from THECB and establish MANE benchmarks for space utilization rate for AY 2006-2007. Improved departmental space utilization rates by 3% in AY 2007-2008.</p> <p>Obtain benchmark number for MANE regarding small classes unpaid by the state for AY 2006-2007. Decrease by 2% the numbers of small classes.</p>	<p>undergraduate exit survey if the 2 year cycle was available. Target is 90% positive response</p> <p>MANE chair will assess data on percentage of seats filled and compare to assure a 2% increase and forward results to dean of COSE</p> <p>Dean's Office will assess THECB space utilization data for benchmark year and AY 2007-2008 to assure a 3% increase in utilization rate.</p> <p>Dean's Office will assess small class data and determine the percentage of small classes not paid by the state offered within the college.</p>	

**UTPA Goal:**

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

**Academic Affairs**

6.B. The Provost's Office will support the Colleges and Departments to establish a systematic methodology for the collection, reporting, benchmarking, and to recruit and retain quality faculty, as measured in the key outcome measures.

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**Objective:**

**College/AVP Objective:**

6.B. The College of Science and Engineering will establish a systematic methodology for the collecting, reporting, and benchmarking of key outcome measures related to recruiting quality faculty and will increase the recruiting of qualified faculty, as measured by these outcomes.

**College/AVP Objective:**

6.B. MANE will establish a systematic methodology for the collecting, reporting, and benchmarking of key outcome measures related to recruiting quality faculty and will increase the recruiting of qualified faculty, 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
<p>MANE will establish a systematic methodology for the collection of, reporting of, and benchmarking of key outcome measures related to recruiting quality faculty and will increase the recruiting of qualified faculty, as measured by these outcomes.</p>	<p>Make initial offers (on first round recruiting) to new faculty by February 15.</p> <p>Increase percentage of hires yielded from open faculty positions.</p> <p>Increase number of new to UTPA tenured/tenure track faculty who remain for 5 years.</p> <p>Identify and reduce problems associated with non-typical faculty hires and partnerships.</p>	<p>MANE will seek to establish hiring calendars that would result in first-round recruiting offers being made by February 15.</p> <p>MANE will establish for the previous 5-year period, the number of tenured/tenure track faculty who remained in UTPA service for 5 years ending in AY 2006-2007. MANE will increase the number of faculty for the period ending in AY 2007-2008 retained for 5-years by one per department – based on total hires increasing.</p>	<p>MANE will provide the Dean’s Office with hiring calendars and ensure that 100% of departments will make first-round offers by February 15 of 2008.</p> <p>MANE will collect, assess and forward to the Dean’s office percentages of productive faculty hires in AY 2007-2008 and compare it to percentages from the previous academic year.</p> <p>MANE will collect assess and forward to Dean’s office for the 5-year period, the numbers of faculty who remained in service for 5 years.</p>	<p>Release of faculty positions for 2008-2008 by September 1.</p>

# AES FY08 Assessment Results Report

## UTPA

### Dept - Manufacturing Engineering

**Unit Mission:** The Manufacturing Engineering Department will provide students a quality education to prepare them for the practice of engineering, with sufficient depth to continue their education toward a Doctoral degree. The curriculum will provide skills that enhance the understanding of the applications of engineering sciences. The faculty will be readily accessible and will continually strive to improve their instructional materials and the methods of dissemination. The faculty will also practice life long learning by keeping abreast of and participating in the latest developments in their chosen areas of expertise and interacting across disciplines.

**Unit Head:** Doug Timmer

**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 - Manufacturing Engineering - Degree Programs - Systematic Methodology - I.A: The department of Manufacturing Engineering (MANE) will 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.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> Create new degree plan with reduced hours to improve 4 year graduation date.</p> <p>Replace ENGR 1101 ? Introduction to Engineering with MANE 1101 ? Introduction to Manufacturing Engineering. Improve communication between faculty and entering freshman. Appoint undergraduate coordinator</p>	<p><b>Assessment Method:</b> Achievement of the increases in 3 of the 4 measures. Department will collect data from the AAMS Center, from Professional Guidance Counselors and from faculty. Place a question on undergraduate exit survey if the 2 year cycle was available. Target is 90% positive response</p> <p><b>Criterion for Success:</b> Increase 4 year graduation rate by 1%</p> <p>Increase the freshman retention rate by 3%.</p> <p>Increase the sophomore retention rate by 2%.</p> <p>Increase the junior retention rate by 1%.</p> <p>Assist students in continuance programs by each department posting in a public place the cycling of courses for a 2 year time frame By October 1, 2007.</p>	<p>11/05/2008 - 4 year graduation rate increased from 8.3% to 9.7% for 2004EF cohort. Retention data not available. 2-year plan not posted.</p> <p>Retention data needed.</p> <p><b>Result Type:</b> Inconclusive</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Post 2 year schedule of courses on department bulletin boards and website</p>			
<p>Dept - Manufacturing Engineering - SLOs - Systematic Methodology - 1.B. MANE will establish 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</p>	<p><b>Assessment Method:</b>  .Assign faculty to administer tests, collect completed tests, file with department office, assign faculty to grade and summarize test results, call faculty meeting to review results and make recommendations. Verify that all tests were given and record dates.</p>	<p>11/05/2008 - Criterion met. Department changed assessment method and criterion for success to satisfy ABET requirements.  <b>Result Type:</b>  Criterion Met  <b>Next Step:</b>  Continue Current Strategy(s)</p>	
<p><b>Outcome Types:</b>  Administrative - Fiscal Year 2008  Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b>  06/01/2007</p> <p><b>Outcome Status:</b>  Active/Ongoing</p> <p><b>Strategies:</b>  Appoint an Assessment Coordinator</p> <p>Follow departmental assessment plan on file with appropriate Senior Vice President  Appoint an Assessment Coordinator.</p> <p>Assign faculty to develop new assessment materials.</p> <p>Hold department plan to develop strategy to satisfy knowledge of literature and research/practice requirements for graduate program.  Develop and implement web-based survey of alumni</p>	<p>Conduct web-based survey of alumni.  Collect and analyze data. Present results in department meeting.</p> <p>Conduct exit survey for graduating seniors in Senior Design 2. Compile and store results. Discuss results with faculty. At least 85% of graduates should complete exit survey. At least one measure of the learning outcomes for each major will be used by the faculty in curriculum development.</p> <p>Hold department meeting in Fall 2007 to establish assessment technique. Implement in Spring 2008</p> <p>Complete survey in Spring 2008 with 85% satisfaction rating.</p> <p><b>Criterion for Success:</b>  Successful administration of competency test for MANE 2332/3332 ? Engineering Statistics, MANE 3340/2340 ? Fundamentals</p>		

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
	<p>of Industrial Engineering and MANE 3364 ? Manufacturing Processes and Senior Design performance.</p> <p>Survey graduating seniors.</p> <p>Survey alumni in Fall 2007 with at least 40 responses</p> <p>Hold Department SLO Assessment meetings each semester with a minimum of 85% attendance Add at least one course to list of courses being internally assessed.</p> <p>Add requirement that all graduate students shall have knowledge of the literature of the discipline and were engaged in research and/or appropriate professional practice and training</p> <p>experiences Conduct employer survey of alumni and establish employer satisfaction with quality of education and UTPA MANE graduates.</p>	<p>11/05/2008 - Criterion met. Department changed assessment method and criterion for success to satisfy ABET requirements.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - Access - Systematic Methodology - 1.C. MANE will 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.</p>	<p><b>Assessment Method:</b> Evaluate UTPA SCH reports</p> <p>Count visits to community colleges and Region One.</p> <p>Establish new website by November 2007.</p>	<p>11/05/2008 - New website established. UG SCH increased by 30.97% in Fall 08 and Grad SCH increased by 12.07% in Fall 08.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> High School visits by faculty</p> <p>Participation in Region One ESC T-STEM program</p> <p>Improved relationships with local community colleges</p> <p>New departmental website.</p> <p>Focused marketing plan for new MS in Engineering Management</p>	<p><b>Criterion for Success:</b> Increase undergraduate SCH by 5%</p> <p>Increase graduate SCH by 10%</p>	<p>11/05/2008 - New website established. UG SCH increased by 30.97% in Fall 08 and Grad SCH increased by 12.07% in Fall 08.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - 1.D - 1.D: MANE will work to encourage and reward its faculty members who participate in professional development workshops in the area of teaching effectiveness.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> Advertise events; issue frequent reminders to faculty, mention attendance in annual review meetings.</p>	<p><b>Assessment Method:</b> Count number of faculty reporting attendance to verify minimum target of 4</p> <p><b>Criterion for Success:</b> Faculty attendance with a target of at least 4 out of 6 faculty attending one professional development activity related to teaching effectiveness</p>	<p>11/05/2008 - 4 faculty completed ABET Assessing Program Outcomes</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Dept - Manufacturing Engineering - Scholarly Productivity - Systematic Methodology - 2.A. MANE will 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.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> The COSE will develop and provide to departments a template for reporting the scholarly works outcomes before the Annual Faculty Evaluation deadline, September 10, 2007. Encourage collaborative publications Require MS students receiving assistantships to enroll as Thesis or Research students Increase Travel funds to support attending more conferences Increase Maintenance and Operating budget to support publication expenses associated with some journals Review departmental merit procedures</p>	<p><b>Assessment Method:</b> Department chair will monitor and report of deadline is met Compare targets 1 and 2 with 2006-2007 publication productivity Compare 2008-2009 budget with 2007-2008 budget for increased funding to support publications Complete merit review by May 2008</p> <p><b>Criterion for Success:</b> Manufacturing Engineering department will provide the requested data to the Dean's Office by October 1, 2007. a). Number of national/international refereed journal articles b). Number of other refereed journal articles c). Number of books published d). Number of book chapters published e). Number of published national/international conference proceedings f). Number of proceedings Targets: (1) 10% increase in the combined total of items (a-d). (2) 10% combined increase in the combined total of items (e) and (f)</p>	<p>11/05/2008 - Research productivity data is not being tracked. Department will implement tracking plan and continue strategy</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - Acquisition of External Funds - Systematic Methodology - 2.B. MANE will establish a</p>	<p><b>Assessment Method:</b> Track proposal submitted in department office</p>	<p>11/05/2008 - Criterion 1 (6) proposals met. Criterion 2 met (Dr. Timmer NSF award). (3) not met.</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>systematic methodology for the collection, reporting, and benchmarking and of key outcome measures for the acquisition of external funds and will improve the acquisition of external funds, as measured by these outcomes.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> Have merit committee review department document and recommend methods to enhance activities in seeking external funding</p> <p>Enourage faculty to attend OSRP workshop</p> <p>Have OSRP visit department meeting The COSE will develop and provide to departments a template for reporting external funding activities</p>	<p>Request funding results from OSRP</p> <p>Evaluate 2008-2009 budget for increase in travel funding Departments will present benchmarks of current performance and set targets for improvements by May 2008.</p> <p><b>Criterion for Success:</b> Targets: (1) minimum of 6 proposals submitted with MANE principal investigator to external funding agency in 2007-2008. (2) minimum of one externally funded research grant received in 2007-2008. (3) Every tenure/tenure-track faculty will submit a minimum of one external funding proposal as PI or co-PI Manufacturing Engineering department will establish system to track faculty performance in external funding based upon COSE template</p> <p>Manufacturing Engineering department will document faculty performance in external funding</p>	<p><b>Result Type:</b> Inconclusive</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - Credit and Non-credit Course Offerings - Systematic Methodolgy - 3.A MANE will establish a systematic methodology for collecting, reporting, and benchmarking of key outcomes for credit and non-credit course offerings and will increase credit and non-credit course offerings as measured by these outcomes.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008</p>	<p><b>Assessment Method:</b> The College will count the courses and their enrollment to asses the success and need for the flexible schedule. Use AY 2006-2007 as benchmark data.</p> <p>MANE will participate with the survey instruments being prepared by COSE to measure the needs and requirements for the flexible schedule. MANE will participate with COSE in the establishment of a strategic plan for a successful continuing education program in</p>	<p>11/05/2008 - MANE offered 3 online courses.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> Provide resources and training for faculty to teach online</p> <p>Continue transitioning MS in Engineering Mangement to online program - MANE will participate in COSE?s development of a strategic plan for the establishment of a continuing education program. - MANE will participate in COSE?s activities to synergize with existing resources for the continuing education program. - MANE will follow COSE?s leadership in the execution of these programs - Leverage Wired grant?</p>	<p>conjunction with existing resources (e.g Center for Manufacturing).</p> <p>MANE will count the courses and their enrollment to asses the success and need for the continuing education program.</p> <p><b>Criterion for Success:</b> Number of alternatively scheduled academic offerings (weekend, online courses)</p> <p>Number of non-degree programs and students (e.g., certificates, continuing education, CEU courses, etc.)</p>	<p>11/05/2008 - MANE offered 3 online courses.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - Professional and Community Participation - Systematic Methodology - 3.B. MANE will establish 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.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b></p>	<p><b>Assessment Method:</b> MANE will track of participation of faculty and student participation in professional and community based activities through the Merit and Tenure and Promotion documents MANE will track participation of faculty and students in professional and community based activities through the proposal flow for authorization and the Merit and Tenure and Promotion documents</p> <p><b>Criterion for Success:</b> a. MANE will participate in engineering-related activities including HESTEC, FESTIBA and Engineers Week. b. Number of memberships on mutual advisory councils/organizations/projects. Use this as benchmark data. c. Number of programs and students</p>	<p>11/05/2008 - Department faculty were active in outreach efforts.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>- MANE will encourage participation in community based activities of the University</p> <p>- MANE will facilitate, encourage and record the participation of faculty and recognize their efforts through the merit and tenure/promotion process</p> <p>- MANE will facilitate, encourage and record the participation of students in professional and community based service activities</p> <p>MANE will facilitate activities that integrate community based needs with the research agenda of the various disciplines of the college</p>	<p>involved in service learning activities coordinated through the University.</p> <p>d. Number of faculty engaged in discipline specific consulting. Use this as benchmark data.</p> <p>a. Integration of research, education and entrepreneurial activities that meet contemporary community needs (e.g., establishment of of Rapid Response Manufacutring Center). Use this as benchmark data.</p> <p>b. Number of external proposals to secure funding in collaboration with community groups. Use this as benchmark data.</p> <p>c. Number of publications incorporating community collaborators or addressing community proglems</p>	<p>11/05/2008 - Department faculty were active in outreach efforts.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - Qualified Applicants - Systematic Methodology - 4.A.</p> <p>MANE will establish a systematic methodology for the collection, reporting and benchmarking of data related to P-12 education in relation to the continuance of students in science and mathematics education programs, and will improve the continuance rates of students in these programs.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> By working with the COSE P-20 council MANE will establish a relationship with a</p>	<p><b>Assessment Method:</b> MANE will collect data from AY 2006-2007 so as to set benchmarks for AY 2007-2008.</p> <p>By August 1, 2008, MANE will collect data for AY 2007-2008</p> <p>MANE will analyze collected and compare to benchmark numbers.</p> <p>MANE will report assessment figures in their Annual Assessment Reports. Using the assessment data from AY 2007-2008, and develop an action plan for improvements to be made in AY 2008-2009.</p> <p><b>Criterion for Success:</b> MANE will participate in the COSE establishment of P-20 council for UTPA with curriculum alignment being a major 07-08</p>	<p>11/05/2008 - MANE is participating with Region 1 T -STEM program, STC engineering academy and NAAMREI.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>local ISD and work towards curriculum alignment.</p>	<p>focus</p> <p>Increase the number of active partnerships with local school districts (e.g., summer programs, recruiting high school teachers for masters degrees)</p>	<p>11/05/2008 - MANE is participating with Region 1 T-STEM program, STC engineering academy and NAAMREI.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - 4.B - 4.B. MANE will 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.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> MANE will establish a partnership with a local ISD to improve the pool of qualified applicants entering MANE and other COSE programs</p>	<p><b>Assessment Method:</b> By August 1, 2008, MANE will collect data for AY 2007-2008</p> <p>Data collected will be analyzed by MANE and the analyzed data will be compared to benchmark numbers.</p> <p>MANE will report assessment figures in their Annual Assessment Reports. Using the assessment data from AY 2007-2008, each COSE department will establish action plans for improvements to be made in AY 2008-2009.</p> <p><b>Criterion for Success:</b> MANE will participate in the COSE?s establishment of P-20 council for UTPA with curriculum alignment being a major 07-08 focus</p> <p>MANE will establish an active partnerships with a local school districts (e.g., summer programs, recruiting high school teachers for masters degrees)</p>	<p>11/05/2008 - MANE has participated in Region 1 Engineering high school teacher training.</p> <p><b>Result Type:</b> Criterion Met</p> <p><b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - Access to Inter-American and Global Perspectives - Systematic Methodology - 5.A. MANE will establish a systematic methodology for the</p>	<p><b>Assessment Method:</b> MANE will keep track of participation of faculty and student participation in University sponsored international activities</p>	<p>11/05/2008 - MANE does not have data for participation in international programs. Will request data from International programs.</p> <p><b>Result Type:</b></p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>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.</p> <p><b>Outcome Types:</b> Administrative - Fiscal Year 2008 Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b> 06/01/2007</p> <p><b>Outcome Status:</b> Active/Ongoing</p> <p><b>Strategies:</b> MANE will encourage faculty and students to participate in University sponsored international activities through the Office of International Programs MANE will continue to offer MANE 4333 ? Product Design for Mass Customization in Collaboration with Michigan State University and Monterrey Tech  MANE will continue to offer MANE 3364/3164 ? Manufacturing Processes and Processes to International students from Mexico in Summer I  MANE will develop and offer initial courses in Lean Sigma Academy (supported through Wired Grant) to international students from Mexico Summer 2008  MANE will expand online offerings in Engineering Management targeting joint US/Mexico manufacturing operations</p>	<p>through by engaging with the Office of International Programs to maintain a system that would track this activity MANE will track enrollment of international students in BS, MS and summer programs</p> <p>MANE will track the faculty and student engagement in activities that include international experiences based activities through the Merit and Tenure and Promotion documents</p> <p><b>Criterion for Success:</b> a. Collect data to benchmark the number and diversity of affiliation of participants in international week, Pan American days. b. Number of students who study abroad and foreign students studying at UTPA c. Number of Visiting International Scholars a. Collect data to benchmark the number of active partnerships that yield instructional, research, or service benefits to the institution and its faculty b. Number of international internships. c. Number of faculty with international experiences through Fulbright and similar faculty experiences d. Number of International presentations</p>	<p>Inconclusive <b>Next Step:</b> Continue Current Strategy(s)</p>	
<p>Dept - Manufacturing Engineering - Optimization of Course Offerings - Systematic Methodology - 6.A. MANE will establish a systematic methodology for</p>	<p><b>Assessment Method:</b> MANE Chair will ensure that course schedules are posted on website and department bulletin board.</p>	<p>11/05/2008 - Schedule has not been published. Increase in SCH's has reduced small class size. <b>Result Type:</b> Inconclusive</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>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.</p> <p><b>Outcome Types:</b>  Administrative - Fiscal Year 2008  Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b>  06/01/2007</p> <p><b>Outcome Status:</b>  Active/Ongoing</p> <p><b>Strategies:</b>  In January, MANE will submit to the COSE dean, a 2-year, 6-semester schedule of classes offered</p> <p>Obtain benchmark for AY 2006-2007 for MANE on percentage of seats filled. Increase the percentage of seats filled by 2% for AY 2007-2008.</p> <p>Obtain classroom and laboratory space utilization data from THECB and establish MANE benchmarks for space utilization rate for AY 2006-2007. Improved departmental space utilization rates by 3% in AY 2007-2008.</p> <p>Obtain benchmark number for MANE regarding small classes unpaid by the state for AY 2006-2007. Decrease by 2% the numbers of small classes.</p>	<p>Place a question on undergraduate exit survey if the 2 year cycle was available. Target is 90% positive response</p> <p>MANE chair will assess data on percentage of seats filled and compare to assure a 2% increase and forward results to dean of COSE</p> <p>Dean?s Office will assess THECB space utilization data for benchmark year and AY 2007-2008 to assure a 3% increase in utilization rate.</p> <p>Dean?s Office will assess small class data and determine the percentage of small classes not paid by the state offered within the college.</p> <p><b>Criterion for Success:</b>  Publish a 2-year (6 semesters) schedule by October 15.</p> <p>Reduce the delta between scheduled seats and filled seats.</p> <p>Maximize faculty, classroom and lab utilization</p> <p>Minimize the number of classes that are not funded due to size</p>	<p><b>Next Step:</b>  Continue Current Strategy(s)</p>	

Intended Outcomes	Means of Assessment & Criteria for Success / Tasks	AES Assessment Results	Use of Result & Follow-Up
<p>Dept - Manufacturing Engineering - Recruiting Qualified Faculty - Systematic Methodology - 6.B. MANE will establish a systematic methodology for the collecting, reporting, and benchmarking of key outcome measures related to recruiting quality faculty and will increase the recruiting of qualified faculty, as measured by these outcomes.</p> <p><b>Outcome Types:</b>  Administrative - Fiscal Year 2008  Administrative - Fiscal Years 2009 - 2011</p> <p><b>Start Date:</b>  06/01/2007</p> <p><b>Outcome Status:</b>  Active/Ongoing</p> <p><b>Strategies:</b>  MANE will seek to establish hiring calendars that would result in first-round recruiting offers being made by February 15.</p> <p>MANE will establish for the previous 5-year period, the number of tenured/tenure track faculty who remained in UTPA service for 5 years ending in AY 2006-2007. MANE will increase the number of faculty for the period ending in AY 2007-2008 retained for 5-years by one per department ? based on total hires increasing.</p>	<p><b>Assessment Method:</b>  MANE will provide the Dean?s Office with hiring calendars and ensure that 100% of departments will make first-round offers by February 15 of 2008.</p> <p>MANE will collect, assess and forward to the Dean?s office percentages of productive faculty hires in AY 2007-2008 and compare it to percentages from the previous academic year.</p> <p>MANE will collect assess and forward to Dean?s office for the 5-year period, the numbers of faculty who remained in service for 5 years.</p> <p><b>Criterion for Success:</b>  Make initial offers (on first round recruiting) to new faculty by February 15.</p> <p>Increase percentage of hires yielded from open faculty positions.</p> <p>Increase number of new to UTPA tenured/tenure track faculty who remain for 5 years.</p> <p>Identify and reduce problems associated with non-typical faculty hires and partnerships.</p>	<p>11/05/2008 - MANE was not able to make initial offers by February 15. Difficulty in getting ads approved caused delays. No faculty losses.</p> <p><b>Result Type:</b>  Inconclusive</p> <p><b>Next Step:</b>  Continue Current Strategy(s)</p>	