2007 MASTER PLAN/PROGRESS REPORT

Educational Support Unit: Department of Engineering

Person Responsible: Dr. Jonathan F. Sullivan

Date Submitted: 02 July 2007

Mission: The Department of Engineering will provide an education in chemical, civil, electrical, and mechanical engineering that is professionally focused and practice-oriented within a student friendly environment. We will prepare our students to practice engineering, focusing on the industrial needs of the region. We will meet the needs of traditional and non-traditional students through close contact with the faculty, the staff, and industrial engineers and managers in our region. We will maintain an up-to-date curriculum that fosters inter-disciplinary teamwork, scholarly development, cooperation with regional industry, and engineering ethics.

Institutional Mission Reference: The Department Mission supports the University Mission by fostering student success, academic excellence, and university-community alliances. In the department mission, student success and academic excellence are promoted by a professionally focused and practice-oriented student friendly environment, maintaining an up-to-date curriculum. The university mission is also accomplished by the close cooperation with regional industry.

Assessment Methods Utilized:	**Data Repository Location:**
____ Student Opinion Survey (SOS)	_____
____ National Survey of Student Engagement (NSSE)	_____
X Internally-developed Survey	Engineering Departmental Offices
X Faculty Roster	Engineering Departmental Offices
X Annual Performance Review (APR)	Engineering Departmental Offices
X Community Involvement	Engineering Departmental Offices
____ Exit Survey/Interview/Exam	_____
X Grant Activity	Engineering Departmental Offices
____ Number of Publications	_____
____ Participation in MSU Committees/Organizations	_____
X Participation in Professional Committees/Organizations	Engineering Departmental Offices
X Student Evaluation of Instruction (SEI)	Engineering Departmental Offices
X Unit Audit	Engineering Departmental Offices
____ Data collection via Excel spreadsheet	_____
____ Data collection via Access database	_____
____ Other - Please describe: _____	_____

Educational (Support Unit) Performance Objective 1: Engage in collaborative ventures and campus and community activities which enhance economic development and cultural growth.

Expected Level of Achievement	Actual Data From Assessment	Actions/Decisions
50% of the faculty and all of the engineering student organizations will participate in E-week activities.	25% of the faculty and all of the engineering student societies participated in E-week activities.	Encourage greater faculty participation in E-week activities. Promote and clarify E-week participation through APR.
60% of engineering student organizations will attend regional and/or national conferences.	80% of engineering student organizations attended regional conferences.	No actions required.
College faculty will assist the Lake Area Industries/McNeese Engineering Partnership (LAI/MEP) Board to organize a minimum of 5 workshops/seminars.	2 LAI/MEP seminars were organized.	Seek better collaboration with industry to increase the number of workshops/seminars offered.
Each degree program offered by the Engineering Department will be audited by the Industrial Advisory Board at least once every three years.	No program audits too place.	Develop and implement a degree program audit process in conjunction with the Industrial Advisory Board.

Educational (Support Unit) Performance Objective 2: Demonstrate excellence in teaching in order to enhance student recruitment, retention, and graduation.

Expected Level of Achievement	Actual Data From Assessment	Actions/Decisions
The Departmental SEI average will be 85% or greater.	The Departmental SEI average is 88.65%.	No actions required.
50% of the full-time faculty will engage in recruiting activities outside MSU.	0% of the full-time faculty engaged in recruiting activities outside MSU.	Faculty response to survey was sporadic; improve assessment instrument. Increase faculty engagement in recruiting activities.
65% of the entering freshman students during the fall semester will return as sophomores during the following fall semester (retention rate).	49.2% of the Department's freshmen in the fall of 2005 returned as sophomores in the fall of 2006.	Organize programs for freshmen that will decrease attrition within the Department.
The Engineering Department undergraduate enrollment will increase by 5% between consecutive fall semesters.	The Departmental undergraduate enrollment increased by 4.03% between the fall of 2005 and the fall of 2006.	Promote recruiting events for entering freshman and transfer students.
The Departmental Advisor Evaluation average will be 85% or greater.	No data available.	Develop an evaluation form for advisors. Establish an Outstanding Advisor Award.
85% or greater of B.S. Engineering graduates will obtain employment (or continue studies) in their chosen field.	Insufficient data available.	Establish and maintain effective methods of tracking employment data of recent graduates.

Educational (Support Unit) Performance Objective 3: Demonstrate commitment to research and creative and scholarly activity.

Expected Level of Achievement	Actual Data From Assessment	Actions/Decisions
50 % of the faculty will serve as Co-PIs in grant proposals submitted by the department to external funding agencies.	42% of the faculty served as Co-PIs in grant proposals submitted by the College to external funding agencies.	Promote grant writing. 1) The new Tenure and Promotion document for the Department of Engineering requires that all faculty hired after 8/07 at the assistant professor rank to bring a minimum of $150K in external grant funding before they are eligible for tenure and promotion to the associate professor rank. The required amount jumps to $250K for promotions to the professor rank, 2) the new APR process includes an increased weigh for grant writing efforts.
25% of the faculty will attend at least one professional conference outside the State of Louisiana.	8.3% of the faculty attended at least one professional conference outside the State of Louisiana.	Faculty response to survey was sporadic; improve assessment instrument. Seek travel funds, promote conference attendance, develop travel/reporting policy.
At least 2 graduate students will graduate under the thesis option.	3 graduate students graduated under the thesis option.	Maintain graduation numbers.

Educational (Support Unit) Performance Objective 4: Utilize resources efficiently and effectively to support the university mission.

Expected Level of Achievement	Actual Data From Assessment	Actions/Decisions
Engineering students will be informed about and have input into the use of the engineering student lab fees.	No data available.	Establish the Student Advisory Board to hold biannual meetings. Establish ENGR lab fee spending guidelines.
Use university and external (grant writing) resources to fund equipment acquisition or replacement and other needs.	The college received $255,634 through successful external grant writing efforts, $21,387 from TASC, $6,000 from the Drew Foundation, $27,000 from Community Development Funds.	Continue to pursue funding, explore additional/alternative funding sources.
Update and maintain a comprehensive list of equipment owned by the department. Implement equipment acquisition/replacement cycles.	No data available.	Establish the comprehensive equipment list and determine appropriate acquisition/replacement strategies.

Educational (Support Unit) Performance Objective 5: Offer nationally accredited undergraduate programs.

Expected Level of Achievement	Actual Data From Assessment	Actions/Decisions
The Bachelor of Science in Engineering program will be accredited by ABET.	The Bachelor of Science in Engineering program is accredited by ABET.	Maintain accreditation.
At least 1 faculty members will attend ABET accreditation workshops/seminars/training.	No data available.	Promote ABET accreditation workshops / seminars / training to faculty.
At least 2 faculty members will serve as ABET/TAC evaluators or alternates.	Dr. Fred Denny participated on an ABET evaluation visit representing ASEE.	Promote involvement with other faculty.

Resources Allocated: Engineering lab fee expenditures (student-related equipment and supplies) were $13,515. Other expenses included travel ($561), operating services ($3,215) and supplies ($6,000). Drew Hall continues to undergo repair from Hurricane Rita resulting in limited resources in terms of space, hopefully for the short duration.