UNC CHARLOTTE

The William States Lee College of Engineering
2015-2020

STRATEGIC PLAN PROGRESS TEMPLATE
Unit Mission: The William States Lee College of Engineering provides quality educational experiences and discovers and disseminates knowledge that serves the citizens and industries of local, national, and international communities.
Unit Goal I: **To educate a diverse student body through an integrated academic experience that positions graduates for personal success and civic responsibility in the global environment of the 21st century.**

Impact of Last Year's Changes on Unit Objective
Progression and Retention
  1. Modify undergraduate progression requirements; freshman year must be completed in 3 semesters with a GPA of 2.5 to matriculate to an engineering major.
  2. All changes were implemented.
  3. Too early to determine the actual effect on retention and graduation rates
Prospect for Success
  1. Successfully designed and started program
  2. All changes were implemented.
  3. Too early to determine the impact on student behavior and culture.
Educational Experiences
  1. Sponsored $215,000 in industry funded undergraduate senior projects
  2. All changes were implemented.
  3. Program growing steadily; 80% increase in 4 years.

Unit Objective:	1. Successful ABET reviews; successful SACS reviews. 2. Explore BS Environmental Health and degree programs in Occupational Safety and in Geodetics and Surveying. 3. Explore BS degree programs in Chemical Engineering and Biomedical Engineering. 4. Explore offering an MS in Computer Engineering. 5. Identify additional funding sources to sustain the Engineering Leadership Academy (ELA) long-term. 6. Expand industry partnerships to support the Industrial Solutions Laboratory and other student professional development activities. 7. Provide students with consistent expectations about their chosen program. 8. Continuously improve PFS student learning outcomes and the infrastructure necessary to deliver it. 9. Sustain a state-of-the-art engineering computing environment; migrate to a new file system; partner with ITS. 10. Develop an integrated "Pathways to Engineering" program that includes Engineering Freshman Learning Community, Engineering Leadership Academy, MAPS, and department SREUs. Explore integrations with new Associate of Engineering degree programs. 11. Grow the college to 3500 students.

Check the UNC GA, Institutional, Division, Unit Goals and Objectives to which this Unit Objective is aligned.	University/College Goal I
Actions/Tactics	1. Continue to improve student learning outcomes using the college's ICAP, FAIT, AIM processes. 2. Prepare comprehensive ABET self-study. 3. Recruit faculty and attain a 20:1 student faculty ratio. 4. Prepare Permission to Plan documents (ETCM). 5. Prepare Permission to Plan documents for MS CpE 6. Enroll and deliver ELA program (OSDS); develop funding prospect list (Development). 7. Develop and implement a strategy for recruiting new industry partners and expanding existing ones. 8. Use PFS student learning outcomes to identify opportunities for improving the curriculum and the freshman year experience; identify recurring sources of funding to support the program. 9. Explore capitalizing on the new student convocation by adding a post-convocation opportunity to reinforce messaging to students; design appropriate messages tailored for COE. 10. Plan and execute a migration from the AFS file system. 11. Develop enrollment projections and explore facility options for chemical and biomedical engineering programs/department. 12. Collaborate with the Levine Scholars, Veterans, Graduate School, Office of Student Development and Success, Career Services, International Programs, OASES, Center for Teaching and Learning, Continuing Education, Honors College. 13. Advertise programs. 14. Deliver and improve "Discover Engineering" recruiting program. 15. Continue partnership with the University Center for STEM Education to deliver annual STEM Day. 16. Increase the number of scholarships. 17. Hire faculty in Construction and Facilities Management. 18. Partner with Early College; recruit from Early College. 19. Increase enrollment from under-represented groups; hire diversity recruiter. 20. Partially support/match funding for NSBE, SWE and SHPE to attend national meetings.
Assessment Methodology	1. ABET Self-study; ABET review. 2. Student faculty ratio. 3. Feedback from AA on Permission to Plan documents. 4. Number of ELA industry collaborators; internal review; successful community projects; 5. Monitor the number of industry funded projects. 6. Internal and campus reviews of PFS. 7. Successfully operating new file system managed in a secure university facility. 8. Prospective student and parent feedback on Discover Engineering. 9. Monitor enrollment and budget growth to support it. 10. Publish yearly "Engineering Dashboard." 11. Recruit new students from Early College HS. 12. Enrollment numbers from under-represented groups. 13. Number and amount of scholarships. 14. NSBE, SWE and SHPE participation in national conference.
Type of Evidence:	Prepopulated drop down list: direct, indirect, administrative, etc. 1. Direct 2. Administrative 3. Indirect 4. Direct 5. Faculty, student, employer surveys
Budget Allocation Amount:	Funding needed to achieve objective. 1. $50k per department per year for UG lab maintenance and equipment upgrades. 2. 25 new faculty members to attain 20:1 student-faculty ratio. 3. 4 new faculty is Occupational Safety and Environmental Health; 3 new faculty in Surveying.

	4. Development must raise $50k/year for that Engineering Leadership Academy; increase enrollment if $75k per year can be reached.
	5. Increase the number of industry participants supporting senior design; explore increasing the participant fee in order to better staff ISL.
	6. Obtain adequate recurring dollars for PFS preceptors (TAs) and faculty support (approx. $110k)
	7. Fulltime file system developer for 2-3 years, $250,000.
	8. Three additional Engineering Computing/Mosaic staff.
	9. Five new GTA positions in each department to support enrollment growth ($500k).
	10. A Student Services Specialist added to SEEM for advising.
	11. Raise $200k for scholarships from private sources.
	12. $50k to hire diversity recruiter.
	13. $15,000 to support NSBE, SWE and SHPE.
Budget Allocation Description:	
Performance Target/Expected Outcomes (Narrative)	Increase department lab funding to $30k by 2017; remainder by 2019. Hire faculty to obtain 20:1 student faculty ratio by 2017; add 6 faculty each year. Add new faculty to launch new programs by 2017. Add 1 mosaic staff member each year for 3 years. Steadily increasing number of under-represented students. Establish an endowment to supplement ELA funding ($200k); add a SSS in SEEM by 2017; add 2 new scholarships each year.
Analysis of Assessment Findings (For narrative):	
Use of Assessment Findings	Faculty growth will be couple to enrollment planning to maintain a steady state 20:1 student faculty ratio. Monitor diversity enrollment and focus recruiting efforts as needed.

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Unit Goal II: **To expand the frontiers of knowledge and leverage discovery for the public benefit through innovative programs of research, creative activities, and graduate education that span the disciplines.**

Impact of Last Year's Changes on Unit Objective
Degree programs
    1. Launched an MS in Applied Energy and Electromechanical Systems.
    2. All changes were implemented.
    3. We will need to recruit additional faculty and continue to grow enrollment.
Laboratories
    1. Established the Systems Engineering Analytics laboratory.
    2. All changes were implemented.
    3. Energy Analytics research showing significant growth.
Research
    1. A goal to increase research funding.
    2. All changes were implemented.
    3. Research awards increased from $6,510,081 to over $10,000,000.

Unit Objective:	1. Add a Ph.D. in Civil Engineering, and a MS and Ph.D. in Systems Engineering.
	2. Explore opportunity for a Center for Asset Infrastructure Management.
	3. Provide enhanced support for research computing.
	4. Develop a Graduate Enrollment Management Plan aimed at increasing enrollment in MS programs by 30%.

	5. Explore multidisciplinary MSE general engineering curriculum that would meet the needs of practicing professionals and allow them to complete the degree in 12 months.
Check the UNC GA, Institutional, Division, Unit Goals and Objectives to which this Unit Objective is aligned.	University/college Goal II.
Actions/Tactics	1. Complete permission to plan for new degree programs. 2. Evaluate research potential for Asset Management; meet/discuss with Belk School. 3. Add three Engineering Computing/Mosaic staff; increase research computing support. 4. Advertise/promote MS programs to industry and alumni using emails and enhance websites.
Assessment Methodology	1. Review of permission to plan documents 2. SPART survey answers from faculty. 3. Successful partnership from Belk College on Asset Management; support from AA. 4. Track MS and Ph.D. enrollment. 5. Monitor External research funding.
Type of Evidence:	Prepopulated drop down list: direct, indirect, administrative, etc. 1. Direct 2. Administrative 3. Indirect
Budget Allocation Amount:	1. Add five $20k stipends for CE Ph.D. students. 2. Add three Mosaic Computer staff. 3. $300,000 in additional GTA support. 4. 25 new faculty positions to attain 20:1 student-faculty ratio and, thereby, increase research workload.
Budget Allocation Description:	
Performance Target/Expected Outcomes (Narrative)	The goal is to enroll 20 Ph.D. students in CE at steady state. An increased in college external funding by 10% per year. Increase MS enrollment by 7% per year. Asset Management center will generate $200k in external funding. Increase external research funding by 50%.
Analysis of Assessment Findings (For narrative):	Identify the performance or level degree of completion based on the measures used to assess the objectives. Describe the progress made on the achievement of the objective.
Use of Assessment Findings	Based on review of pre- and post-award management, make recommendations to the Grants and Contracts Office.

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Unit Goal III: **To engage community partners in mutually beneficial programs that enhance the economic, civic, and cultural vitality of the region.**

Impact of Last Year's Changes on Unit Objective
Alumni engagement
1. Hired ½ time alumni program director.
2. All changes were implemented.
3. Premature to determine impact.

Plan/execute alumni events
1. Execute yearly Legacy Banquet.
2. All changes were implemented.
3. A full house of attendees suggests a valuable engagement opportunity.

Discover Engineering
1. Execute yearly Discover Engineering community engagement/recruiting event.
2. All changes were implemented.
3. Attendance has been steady at about 250 guests.

Unit Objective:	1. Increase discretionary funding by 50% to support alumni program and staff. 2. Explore opportunities to use the Center City Building as a venue to recruit/expand corporate partnerships. 3. Continue to engage scholarship donors. 4. Grow the college's scholarship program. 5. Explore delivering an Engineering Seminar series in the community.
Check the UNC GA, Institutional, Division, Unit Goals and Objectives to which this Unit Objective is aligned.	University/college Goal III.
Actions/Tactics	1. Deliver four alumni events each year; raise additional external funds to support the alumni program. 2. Publish bi-annual report and quarterly newsletters. 3. Host Engineering Legacy Banquet each year. 4. Engage new industry and community partners with ELA 5. Conduct 50th Anniversary celebration events and fund raising. 6. Identify potential new scholarship donors.
Assessment Methodology	1. Increase in alumni donations. 2. Number of events held at Center City Building and number of participants 3. Number of donors attending the Legacy Banquet. 4. Number of scholarships awarded and total $/student awarded each year.
Type of Evidence:	1. Prepopulated drop down list: direct, indirect, administrative, etc. 2. Direct 3. Administrative 4. Indirect
Budget Allocation Amount:	1. Must raise $60k for alumni staff and programming. 2. One SPA staff member to support event planning. 3. $25k per year required to operate ELA; establish an endowment of $200k.
Budget Allocation Description:	
Performance Target/Expected Outcomes (Narrative)	Increase discretionary funding by 10% each year. Raise $25k/year for ELA; fully fund ELA endowment by 2020.
Analysis of Assessment Findings (For narrative):	Identify the performance or level degree of completion based on the measures used to assess the objectives. Describe the progress made on the achievement of the objective.
Use of Assessment Findings	Review of alumni events will guide improvements and changes.