

## 2007-2008 PLANNING/OUTCOMES DOCUMENT

<b>Name of person(s) completing form:</b>	Peter Messier	<b>Curriculum/Department:</b>	Civil Engineering Technology
<b>Purpose/Mission Statement:</b>		<b>Vision Statement: (3-5 years)</b>	
<p>To educate civil engineering technicians in the basic principles of Civil Engineering, establish them in the techniques and procedures practiced by civil engineering technicians, equip them to be productive upon graduation, and encourage them to pursue lifelong learning opportunities, higher degrees (if appropriate), and active participation in civil engineering and related associations. Above all, their experience in the Civil Engineering Technology Program and SCC should inspire them to be productive and contributing individuals having concern for their fellow citizens and their community.</p>		<p>To be the Civil Engineering Technology Program of choice in Western North Carolina, portions of Eastern Tennessee, and Northeast Georgia, up-to-date in it's teaching and equipment and expanding to meet the educational and technical needs of the civil engineering and land development communities in our earned market area.</p>	
<b>Program Strengths:</b>		<b>Program Weaknesses:</b>	
<p>The program has the encouragement and support of the surveying profession in North Carolina, the NCDOT, and the SCC administration. The curriculum is pertinent to today's practice of civil engineering technology. The program has qualified, experienced and enthusiastic faculty in major courses as well as support courses.</p>		<p>The program needs to purchase a significant amount of modern equipment to for soils, materials and hydraulics laboratories. Since it is a brand new program, it needs to develop credibility and a good reputation within the civil engineering and land development communities in Western North Carolina.</p>	
<b>Program Opportunities:</b>		<b>Program Threats:</b>	
<p>Due to economic development and growth in WNC the demand for civil engineering technicians is significant. This provides the opportunity to expand the enrollment in the program. In addition, several NC and other regional Universities offer four year civil and/or construction programs which graduates of our program could pursue for a related B.S. degree.</p>		<p>Low entering enrollment is a potential threat. If current recruitment and advertising efforts are not maintained, a drop off in enrollment could develop and threaten the long term viability of the program. A significant downturn in the economy could also threaten demand for our graduates.</p>	

Goal #	Values for Teaching	College Goals	2006–2007 Department Outcomes/Goals	Success Criteria (e.g. outcomes, enrollment increases)	Plan of Action (including resources needed)
1	3 4 6	1 2 7	Retain current majors and recruit new majors in the Civil Engineering Technology Program.	At least 60% of those identified as Civil Engineering Technology majors in fall 2007 will continue studies through spring 2008. In addition, the number of new enrollees will be equal to or greater than 10% the current enrollment in program.	<ul style="list-style-type: none"> <li>• Monitor enrollment and admission of civil majors.</li> <li>• Provide effective advising and support to existing and new civil students.</li> <li>• Visit at least 4 high schools (trig or geometry classes) during the 2005–2006 academic year, seek out career fairs and display at appropriate conferences.</li> </ul>
2	1	1 2 5	Students will exhibit proficiency in standard field and lab data measurement and collection systems and in CADD based drafting.	75% of the students to attain a grade of B or better in SRV110, SRV111 and CIV125 as a result of their abilities to: <ul style="list-style-type: none"> <li>- set-up and operate a total station instrument</li> <li>- correctly observe horizontal and vertical data</li> <li>- collect data and record it in both manual and digital formats</li> <li>- correctly insert and depict results in a CADD system</li> </ul>	<ul style="list-style-type: none"> <li>• Provide lecture material, equipment and class and laboratory assignments that will equip and challenge at least 75% of the students to attain a grade of B or better in Surveying I, II, and Civil/Survey CAD courses.</li> <li>• Upgrade CAD software to AutoCAD Civil 3D 2008.</li> <li>• Monitor the results of course grades for grades SRV 110, SRV 111, and CIV 125.</li> </ul>
3	1	1 2	Students will be proficient in the computational procedures needed to compute a closed traverse, a closed level circuit, and earthwork volumes.	75% of the students will receive a grade of B or better in SRV 110, SRV 111, SRV 210 as a result of their abilities to: <ul style="list-style-type: none"> <li>- apply the necessary gross and systematic error corrections, and random</li> </ul>	<ul style="list-style-type: none"> <li>• Provide lecture material, software, and class &amp; laboratory assignments that will equip and challenge at least 75% of the students to attain a grade of B or better in Surveying I, Surveying II, Surveying III.</li> <li>• Monitor the results of course</li> </ul>

				<p>error adjustments to traverse and leveling observations</p> <ul style="list-style-type: none"> <li>- correctly compute the horizontal and vertical positions.</li> <li>- correctly calculate earthwork volumes by various methods.</li> </ul>	grades for SRV 110, SRV 111, and SRV 210.
4	1 2 6 7	1 2	Students will be satisfied with the skills they are acquiring in this program. (Note: since program is in it's first year, no graduates are available yet to survey)	90% of students surveyed will indicate they are satisfied with the skills they are acquiring in this program.	<ul style="list-style-type: none"> <li>• Monitor the results of the survey of students as part of the annual program review process.</li> </ul>
5	6 7	1 5 6	Employers will be satisfied with the entry-level skills of current students from this program who work for them.	85% of employers surveyed will indicate they are satisfied with the entry-level skills of students from this program.	<ul style="list-style-type: none"> <li>• Monitor results of the survey of employers as part of the annual program review process.</li> </ul>

<b>Budget Item Description: (Budget items requested from college funds)</b>	<b>Current Year Budget (Total Request):</b>	<b>Ongoing Operational Budget:</b>	<b>Expansion Budget:</b>
Supplies - construction materials to be tested in labs, ink cartridges, water resistant paper, plotter paper.	\$435	\$435	\$0
Equipment - soils and materials lab equipment, soils and hydraulics software, 9 seats of CADD software 2008 upgrade, plus miscellaneous smaller lab and office items.	\$78,865	\$2,500	\$76,365
Travel - local and regional civil engineering meetings, high school visits, and misc. local travel on SCC business.	\$1,000	\$1,000	\$0
Program Accreditation - program is not yet eligible to apply for accreditation - need first graduating class	\$0	\$0	\$0
Other/Expansion - half the cost of computer lab to be shared with SRV.	\$11,000	\$0	\$11,000
<b>TOTALS (includes 6.5% sales tax)</b>	<b>\$91,300</b>	<b>\$3,935</b>	<b>\$87,365</b>