Subject Area Committee Name:	Civil and Mechanical Engineering Technology		
SAC Contact's Name:	Jan Chambers	*Contact's e-mail:*	jchamber@pcc.edu

CTE SACs have the responsibility to assess their degree and certificate outcomes. Outcomes for each degree and certificate can be found here.

In the table below, list each outcome, all the relevant degree(s)/certificate(s), the Core Outcome(s) each maps to, and the schedule for summary data assessment*. If you have questions about how to complete the form, consult the Help Guide to Completing the Multi-Year Assessment Plan or consult with your LAC coach.

We recognize some SACs have more outcomes than can realistically be comprehensively assessed on a two-year cycle. If this is the case for your SAC, contact your LAC coach to develop an alternative assessment cycle.

*Summary data is defined as the information relevant to understanding student outcome attainment (e.g., totals, averages, percentages, etc.) for all the degree/certificate outcomes assessed that year. This data can come from various types of assessments (e.g., TSAs, external exams/assessments, internal exams/assessments, and employer assessments).

‡PCC Core Outcomes Codes

Communication (**C**) Cultural Awareness (**CA**) Community and Environmental Responsibility (**C&ER**) Professional Competence (**PC**) Self Reflection (**SR**) Critical Thinking and Problem Solving (**CT&PS**)

Multi-Year Plan

The expectation is that most SACs will be able to complete their outcome assessment cycle in two years and then repeat the cycle. If your SAC needs more time, please consult with your coach to work out an alternate plan (4 years probably representing the maximum length), and add more columns for the additional years. (These plans may need to be reviewed and corrected after two years.)

Outcome *(add additional rows if required)*	*Applicable Degree(s)/ Certificate(s)*	*Core Outcome Code(s) ‡*	*TSA**	*Every Year*	*2013-2014*	*2014-2015*	*2015-2016*
1) Apply fundamental knowledge of mathematical, computational, scientific and engineering concepts to identify, formulate and design successful resolutions to real-world civil engineering problems.	AAS CET	C, PC, CT&PS	F		X		
2) Utilize appropriate laboratory techniques, engineering equipment and computational technology to collect, analyze, and interpret data to acquire scientific knowledge about a stated problem.	AAS CET	C, PC, CT&PS				X	
3) Utilize the knowledge of visualization skills, computer aided drawing programs and the ability to create and interpret engineering drawings, to design civil engineering projects within proper industry acceptable standards and conventions.	AAS CET	C, PC, CT&PS					X
4) Apply effective and efficient communication skills, teamwork that fosters inclusion, project and time management skills, ethical engineering practices and professional responsibility in order to plan, design, fabricate,	AAS CET	C, CA, C&ER, PC,			X		X

construct and operate engineering systems or components.		CT&PS				
5) Practice sustainable engineering methodologies.	AAS CET	CA, C&ER, PC, CT&PS			X	

*TSA Column: If this outcome is fully assessed by a TSA, mark 'F' (fully) here. Mark 'P' if a TSA partially assesses this outcome and indicate in the appropriate column when the other aspects of the outcome will be assessed. Leave this cell blank if a TSA is not used with this outcome.