

## Assessment, Improvement, Measurement (AIM) Report: 03/12/2015

**Reporting Years:** 2011-2016

**Program:** Civil Engineering

**Coordinator(s):** Karman Wheeler, Jeffery Durham

### Program Quality and Student Success

**External awards or other recognitions of students, faculty, and/or program.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Students					
Faculty					
Program (include accreditation if applicable)					

**Average actual time and credits to degree completion.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
General Education Credit Hours					
Technical Credit Hours					
Total Credit Hours					
Number of Graduates					
Average Actual Time to Degree					
Average Actual Credits to Degree					

**Employer and student satisfaction.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Employer Satisfaction Survey Results		100% (2/2)	no data	0 responses	
Graduate/student satisfaction		100% (2/2) 2010-11 grad survey	100% (7/7) 2011-12 grad survey	100% (6/6) 2012-13 grads	
Advisory Board/Employer Recommendations for Improvement					

**Job placement data for program graduates.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Number of graduates		2 surveyed (2010-11)	7 surveyed (2011-12)	6 surveyed (2012-13)	

		grads)	grads)	grads)	
Number of graduates gaining employment		2	6 employed; 5 in field	6 employed; 5 in field	
Percentage of graduates gaining employment		100%	86%; 71% in field	100%; 83% in field	
KY Unemployment Insurance job data				n/a	

**Pass rates on licensure/certification exams (if applicable).**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Total # graduates attempting					
Total # passing on first attempt					
Total # passing after multiple attempts					
Pass rate of all attempting					

**Productivity and Funding****Student measures.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Enrollment (Academic Year)					
Fall Enrollment		42 (Fall 2011)	64 (Fall 2012)	79 (Fall 2013)	
Credentials Conferred		7 AD (2011-12)	10 AD (2012-13)	6 AAS (2013-14)	
Credit hour production			129 (Fall 2012)		

**Student credit hour per instructional faculty FTE.**

	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016
Student credit hour per instructional faculty FTE.	CADD 108; Civil 169 (fall)	169 (Fall 2011)	117 (Fall 2012)		

**Extramural funding.**

Source of Funding	2011-2012
No funding sources	

Source of Funding	2012-2013
2012 Perkins - total station survey transit	\$5,500.00

<b>Source of Funding</b>	<b>2013-2014</b>
No funding sources	

<b>Source of Funding</b>	<b>2014-2015</b>
No funding sources	

<b>Source of Funding</b>	<b>2015-2016</b>
No funding sources	

### Comments (2012-2013)

Roles	Comments
<b>Coordinator</b>	
1. Strengths of the Program	Continued growth in enrollment and industry involvement. Retention and placement remain high. More students are seeking this program. Enrollment stable or growing. Collaboration with other program areas.
2. Items Requiring Continued Attention	Additional full-time faculty and continue to add part time faculty. More faculty, either full-time or part-time.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	Have added additional part time faculty from the state Transportation Cabinet. Utilizing limited space and faculty by offering more hybrid classes. Continue to expand space and/or technology for the program and request full-time faculty. Continue to seek faculty either full-time or part-time.
<b>Assistant Dean</b>	Civil Engineering Technology is an improving program and is getting great assistance from a very supportive advisory committee.
<b>Dean</b>	Agree with Assistant Dean/Coordinator's comments.
<b>Vice President</b>	I am extremely impressed with the leadership Mike is taking with these programs; they would not exist at BCTC if it were not for his efforts. Bonnie and I must get Mike help with these programs.

### Comments (2013-2014)

Roles	Comments
<b>Coordinator</b>	
1. Strengths of the Program	Continued growth in enrollment and course offerings. Strong industry involvement and support to offer and improve the program. High retention, placement, and graduate satisfaction. Continue to collaborate with other programs.
2. Items Requiring Continued Attention	Continue to develop curriculum and faculty strategies to provide relevant student learning outcomes to meet the needs of the profession and the community. Need to finalize the curriculum revisions through college and system CRC processes, getting up-to-date degree and curriculum info available on-line and in the systems catalog. Continue to investigate and develop ways to offer additional course work on-line and to work with other schools(Big Sandy, UK, etc ...) to expand degree and collaborative opportunities.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	Hired new full-time faculty for CET/Cadd. Continue to utilize existing space and faculty by offering hybrid classes(partial on-line). Continued faculty support through state Transportation cabinet. Utilized other faculty support from related program(ACH).

<b>Assistant Dean</b>	I agree with the coordinator's comments. This program has potential to grow and expand into Survey and Mapping needs of the community.
<b>Dean</b>	Will continue to watch for growth in enrollment numbers and support ways to seek additional students and advisory members.
<b>Vice President</b>	I agree with Assistant Dean and Dean comments. The college's fiscal realities will necessitate another close look at this program to determine how we can effectively and efficiently meet student and industry needs.

### Comments (2014-2015)

<b>Roles</b>	<b>Comments</b>
<b>Coordinator</b>	
1. Strengths of the Program	Continued demand from employers. 100% graduates employed, with 83% in-field. Steady increase in enrollment, from 42 enrolled 2012-13, 64 in 2013-14, to 79 currently Fall14-15 Ongoing support from the state transportation dept. through state scholarship and employment opportunities for AAS degree students in CET.
2. Items Requiring Continued Attention	Low enrollment classes and how we provide necessary training in a cost effective manner is an ongoing issue requiring attention. In response to that: We have reduced the number of different classes offered and consolidated some courses to allow both CAD and CET students to take more common classes. We are continuing to look at ways to increase the number of online classes to appeal to a wider population of students. With the input of industry and the advisory board, we are continually evaluating what competencies our graduates should obtain, how to best achieve those objectives and revise our curriculum to reflect this information.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	Increased the offerings of on-line classes. Worked with the Survey and Mapping program at Big Sandy to have additional online SMT- Survey Mapping classes available for our students use as professional elective requirements to supplement the professional elective offerings in CET here at BCTC. Looking at other ways to maximize efficient class sizes and student/faculty ratios: Offered several, small enrollment, lab classes at the same time (stacked), using the same faculty/staff, equipment and rooms.
<b>Assistant Dean</b>	The civil engineering program continues to grow with an increase in enrollment. The program should continue to develop online courses and streamline the scheduling of classes. This program has potential to grow and expand into Survey and Mapping needs of the community.
<b>Dean</b>	In agreement with comments from Coordinator and AD. Low numbers a major impact and need to continually assess if we can continue the program in light of low student numbers. Does program need to complete a class of graduates before bringing in the next class?
<b>Vice President</b>	I concur with Assistant Dean and Dean comments. Jeff has provided strong leadership, which includes working closely with the Department of Transportation. Like with all other technical programs, I encourage the program to consider additional apprenticeship and other industry sponsorship opportunities.