

Assessment, Improvement, Measurement (AIM) Report: 03/13/2015**Reporting Years:** 2011-2016**Program:** Environmental Technology**Coordinator(s):** Jean Watts, Karman Wheeler**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% (1/1)	100% (3/3)	0 responses	
Graduate/student satisfaction		100% (6/6) 2010-11 grad survey	100% (6/6) 2011-12 grad survey	100% (3/3) 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		4 surveyed (2010-11 grads)	7 surveyed (2011-12)	3 surveyed (2012-13 grads)	
Number of graduates gaining employment		2	7 employed; 1 in field	2 employed; 1 in field.	
Percentage of graduates gaining employment		50%	100%; 14% in field	67%; 33% 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		52 (Fall 2011)	43 (Fall 2012)	34 (Fall 2013)	
Credentials Conferred		7 AD (2011-12)	9 AD (2012-13)	8 AAS (2013-14)	
Credit hour production		265 (Fall 2011)	228 (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.		204 (Fall 2011)	207 (Fall 2012)		

Extramural funding.

Source of Funding	2011-2012
No funding sources	

Source of Funding	2012-2013

2012 Perkins - turbidimeters, multiparameter meters	\$9,000.00
Source of Funding	2013-2014
2013 Perkins - spectrophotometer, conductivity pH kit	\$18,000.00
2013 Friends of Wolf Run - water analysis chemicals	\$700.00
Source of Funding	2014-2015
Friends of Wolf Run (water sampling chemicals)	\$800.00
NASA	\$1,000.00
Source of Funding	2015-2016
No funding sources	

Comments (2012-2013)

Roles	Comments
Coordinator	
1. Strengths of the Program	a) As KCTCS has stated, environmental technician is a high demand, high wage profession. b) Students get to participate in the collection and analysis of data that is used to address local problems. Recent involvement includes: - A karst dye trace study to look for sources of conductivity causing water quality violations on the UK campus, data also used by the KY Geological Survey. - Pre-construction water quality sampling to gather data for a stream restoration project in Southland Park. - Planting of native species in the riparian zone of Wolf Run - Stream conductivity survey, data used by LFUCG as part of their Federal EPA grant concerning the Wolf Run watershed. c) Faculty have professional experience in the type of work for which the EST Program trains. d) Faculty and staff have complimentary areas of expertise which enhances the scope of the EST Program. e) Curriculum includes the knowledge and skills specifically needed for consulting field and lab technicians.
2. Items Requiring Continued Attention	a) Many students listed as EST majors have changed their mind and are pursuing other majors. Many students taking EST courses are not listed as EST majors. This leads to somewhat misleading statistics concerning the program. With assigned advising, I am slowly being able to get the correct major listed for students. b) Many faculty, staff and students don't understand the environmental & engineering consulting job field for which the EST Program trains its students. c) College recruiters and faculty advisors need to be reminded about program offerings to increase student referrals. d) The EST Program still shares a lab with the Dental Lab Program which limits storage space for equipment and time slots for offering classes.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	
Assistant Dean	Student enrollment is declining, but students graduating seem to be finding employment locally. There seems to be confusion as to how to best get the students listed as EST majors for advising purposes. Jean, Tracy and Rae have been

	attending the freshman orientations trying to recruit new students to the program. Although small in number, the students and faculty are doing some amazing work and being recognized at the county and state level for water quality data collected. We are in talks to advertise the program through Opportunity College for Fall 2013 implementation.
Dean	Valuable "niche" program providing quality training in a growing field. Please continue efforts to increase enrollment and awareness among in-coming students. The program is well respected in the community.
Vice President	Environmental Technology is a high-demand high-wage program with dedicated faculty and leadership. Although the ratio of full-time equivalent students to full-time equivalent faculty is down (14.7) from the previous year's 19.9, the program remains strong.

Comments (2013-2014)

Roles	Comments
Coordinator	
1. Strengths of the Program	a) As KCTCS has stated, environmental technician is a high demand, high wage profession b) Students get to participate in the collection and analysis of data that is used to address local problems. These projects give students professional level experience and give them contact professionals in the field. c) Faculty have professional experience in the type of work for which the EST Program provides training d) Faculty and staff have complimentary areas of expertise which enhances the scope of the EST Program. e) Curriculum includes the knowledge and skills specifically needed for consulting field and lab technicians. The EST Program curriculum is in the process of being revised to include a capstone course to enhance the students' experience.
2. Items Requiring Continued Attention	a) The EST Program is experiencing low enrollment. One way we are addressing this problem is that Jean Watts has applied for a course with the Institute for Women in Technical Trades which results in a Program specific recruiting plan. a) Many students listed as EST majors have changed their mind and are pursuing other majors. Many students taking EST courses are not listed as EST majors. This leads to somewhat misleading statistics concerning the program. With assigned advising, I am slowly being able to get the correct major listed for students. b) Many faculty, staff and students don't understand the environmental & engineering consulting job field for which the EST Program trains its students. c) College recruiters and faculty advisors need to be reminded about program offerings to increase student referrals.
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	
Assistant Dean	I have reviewed the data submitted and agree with the comments made by the coordinator. Low enrollment is becoming a serious issue and program/division faculty are taking a more aggressive approach with recruiting. The EST faculty and students are recognized in the Lexington community as doing outstanding work and are frequently asked to help implement or contribute to city projects. It should be noted that EST has no dedicated laboratory space and uses/shares space with Dental Lab. Consequently, EST lab courses are always afternoons and evenings and limits the student pool for recruitment.
Dean	
Vice President	I agree with comments above. The college's fiscal realities will necessitate a close look at this program to determine how we can effectively and efficiently meet student and industry needs.

Comments (2014-2015)

Roles	Comments
Coordinator	
1. Strengths of the Program	(a) As KCTCS has stated, environmental technician is a high demand, high wage profession (b) Regular, outside funding for special projects (such as local water quality and wetland treatment islands) allows students get to participate in the collection and analysis of data that is used to address local problems. These projects give students professional level experience and give them contact professionals in the field.(c) Significant interest from our graduates to serve on the EST Advisory Board (d) Faculty are willing to engage in all available recruitment activities (Fall 2014 - attended 17 recruitment events) (e) A new gas chromatograph/ mass spectrophotometer will allow the EST Program to provide training on high demand analytical equipment and may provide the opportunity for continuing education training (f) UK's Natural Resource & Environmental Science program continues to work with the EST Program to ensure that students receive the maximum amount of credit for transfer. (g) Faculty and staff have complimentary areas of expertise which enhances the scope of the EST Program. (h) Curriculum includes the knowledge and skills specifically needed for consulting field and lab technicians.
2. Items Requiring Continued Attention	(a) Low enrollment continues but is being addressed (see comments in section 3 below). (b) Improved knowledge about the EST Program internally (BCTC faculty, recruiters & advisors as well as students)
3. Document and provide evidence indicating how last year's program review resulted in improvements in the program.	(a) Fall 2014 - EST faculty participated in 17 recruitment events (b) EST faculty developed a short narrated Powerpoint concerning the Program to be played in the FYE courses for recruitment purposes (c) The EST Program does not share the lab with the Dental Lab Program, this may allow more flexibility in the scheduling of classes
Assistant Dean	EST faculty are earnestly working to increase enrollment and to work with other disciplines to offer "cross-over" certificates. But, EST is essentially a 1.5 person program and the coordinator has been teaching an additional course for the last two semesters in order to offset low enrollment. This leaves little time for the needed recruitment activities to boost enrollment. This is often a problem with one person programs. Academics needs to be creative in developing some sort of "recruitment" support team.
Dean	Concur with remarks from coordinator and AD. Academics is assessing what can be done to increase student enrollment and if there is truly a demand for this program and job placement in the field upon completion of the program.
Vice President	I concur with Assistant Dean and Dean comments. The faculty and academic leadership are doing an excellent job of thoroughly exploring opportunities to reinvigorate this program.