



Underprepared Students in Kentucky

A First Look at the 2001 Mandatory Placement Policy

November, 2005

Heidi Hiemstra, Ph.D.
Senior Associate, Research and Policy Analysis

<http://cpe/ky/gov>



Underprepared Students in Kentucky: A First Look at the 2001 Mandatory Placement Policy

Kentucky Council on Postsecondary Education
November, 2005

Table of Contents	Page
Executive Summary	i
Full Report	
Kentucky's Mandatory Placement Policy	1
Data and Methodology	2
Underprepared and Prepared Students, College Entrants vs. Recent High School Graduates	2
Preparation Levels of Kentucky's First-year Students in 2002	3
Preparation Levels in Math, English and Reading	4
Depth of Remedial Needs	5
Preparation Levels by Demographic Characteristics	6
Preparation Levels of Recent Graduates of Kentucky High Schools	8
Maps of Preparation Levels by County of Origin	12
Placement Exams, Students Placing Out of Remediation and Students Pursuing Alternate Forms of Remediation	18
Were Underprepared Students Retained?	20
Did Underprepared Students Take Remedial Courses?	22
How Do Preparation Level and Remediation Affect Student Outcomes?	28
Campus Practices and Programs	29
Conclusions	30

Appendix 1: Institutional Tables

Appendix 2: Assessment Crosswalk

Underprepared Students in Kentucky: A First Look at the 2001 Mandatory Placement Policy

EXECUTIVE SUMMARY

Kentucky Council on Postsecondary Education
November, 2005

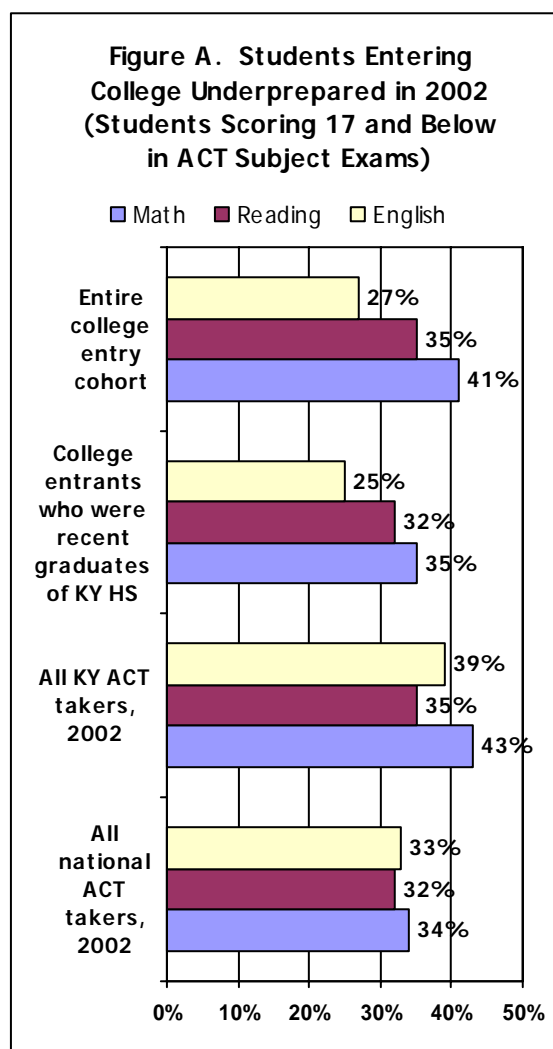
In fall 2001, Kentucky instituted a placement policy mandating that all students entering undergraduate programs at public institutions who receive a score of 17 or below on ACT subject exams in math, English or reading be placed in remedial coursework or receive supplemental help in those subjects. This study examines the incoming class from fall 2002 and follows them through their first two years of postsecondary study, examining their remedial needs, their remedial course-taking, and their retention to the second year.

The data used in this report are administrative data submitted as student-unit records by the public postsecondary institutions to the Council's Comprehensive Database during the 2002-03 and 2003-04 academic years. The report is based on descriptive statistics about the 26,646 students who entered Kentucky's public two and four-year institutions in the fall of 2002 as full or part-time students seeking degrees or other credentials, and for whom CPE received the ACT, SAT or on-campus placement exam scores needed to classify their preparation level.

How underprepared for postsecondary study was Kentucky's college entry cohort of 2002?

This question helps gauge the degree of remedial services that postsecondary institutions need to provide for their students. The number of entering students needing remediation is also seen as a measure of the quality of Kentucky's P-12 education system, although this is not quite true. An incoming college class includes students who graduated from high schools in other states,

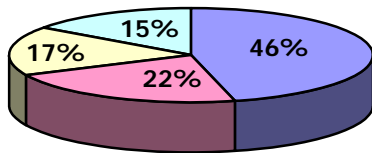
earned GEDs, or were adult students who graduated from Kentucky high schools before recent educational reforms. To help answer both of these important policy questions, Figure A below presents the preparation levels of the entire fall 2002 entry cohort and of the subset who graduated from high school in Kentucky in 2001 or 2002. These recent high school graduates make up 63% of the total entry cohort. National data is also presented for comparison.



Overall, a slim majority of 54% of students who entered certificate and degree programs at Kentucky's public institutions of higher education in fall 2002 were under-prepared for college-level study in at least one subject. Many of these under-prepared students were underprepared in more than one subject as can be seen below.

Figure B. Depth of Remedial Needs, Entire Public College Entry Cohort 2002

- Prepared
- Underprepared in one subject
- Underprepared in two subjects
- Underprepared in all three subjects



There was wide variation in preparation level among the institutions due to their differing missions and student selectivity, ranging from 15% at UK to 85% at KSU. Demographically, non-traditional students and students from some racial-ethnic minority groups were much less well prepared for college-level study than their peers (See table 4 in the full report for details).

How underprepared were recent graduates of Kentucky high schools?

Recent graduates of Kentucky high schools were slightly better prepared for college than the entire entry cohort in 2002. Overall, slightly less than half (48%) were underprepared in at least one subject, and 29% were underprepared in two or three subjects, compared to 32% in the college entry cohort as whole. Looking at Figure A,

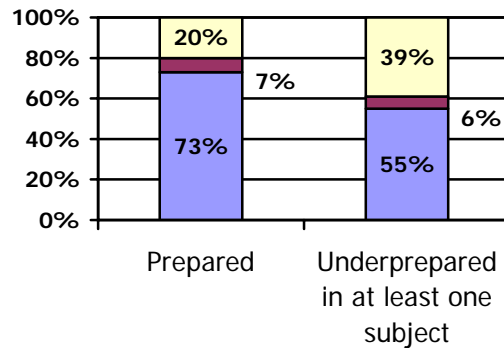
Kentucky's recent high school graduates compare favorably to ACT takers nationally, although ACT, Inc. counsels against making this kind of comparison given the wide demographic differences between states.

Were underprepared students retained?

Students who came to college underprepared were less likely to return for their second year. System-wide, nearly three-quarters of prepared students came back for a second year of study at the institution where they started, compared to slightly over half of those who were underprepared in at least one subject (Figure C). Also, underprepared students were twice as likely to drop out of college altogether as were those who were prepared: 39% compared to 20%.

Figure C. Student Retention by Level of Preparation

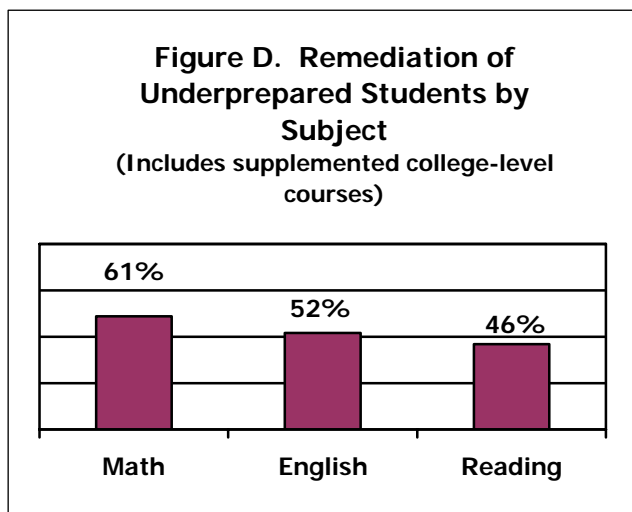
- Dropped out
- Retained elsewhere in system
- Retained at starting institution



Students who were underprepared in all three subjects were even less likely to be retained – only 50% returned for a second year of study.

Did underprepared students take remedial courses?

System-wide, only a slim majority of underprepared students were remediated in a given subject (Figure D). The leaders in remediation were Morehead State University, Kentucky State University and Eastern Kentucky University, who each remediated between 82%-95% of their underprepared students. Other schools had lower remediation rates, the lowest remediating only 40% of their retained, underprepared students in a given subject by the end of their second year. These numbers do not include students who received tutoring and



other forms of academic support not tracked in remedial course data. Supplemented college-level courses that meet the requirements of the Mandatory Placement Policy are included where that data was available.

While this remediation picture looks poor, it is important to note that these numbers undercount the actual remediation rates because this report does not include on-campus placement exam data from the four-year institutions. Students who enter with low ACT or SAT scores have an opportunity to place out of remediation by

passing on-campus placement exams, which would reclassify them as “prepared.” Institutions were not required to collect and submit the results of these exams in the 2002 reporting year. Consequently, this analysis does not reflect the reclassification of students who placed out of remediation by taking on-campus placement exams. Also, some schools did not report supplemented college-level courses in 2002, so these remedial efforts are not included here.

Despite the limitations of this data, Council staff believes it is necessary to highlight these remediation rates because they measure the crux of the Council’s mandatory placement policy; are underprepared students receiving the help they need to succeed? The Council is committed to pursuing excellence in the provision of services to academically at-risk students, and accountability is essential to this endeavor.

This report examines the college preparation level and remediation of the postsecondary entering class of fall 2002. Some institutions have made substantial changes in their remediation policies since the academic years covered in this report. Also, CPE has been working to improve its data collection concerning remediation and academic supplementation. We will continue to evaluate these remedial policies and programs, and hope to look in more depth at the outcomes of underprepared students in the future.

Underprepared Students in Kentucky: A First Look at the 2001 Mandatory Placement Policy

Kentucky Council on Postsecondary Education

Heidi Hiemstra, Ph.D.
November 2, 2005

In 2001, the Kentucky Council on Postsecondary Education instituted a placement policy that mandates that all students entering undergraduate programs at public institutions with low scores on math, English or reading college entrance exams be placed in remedial coursework or receive supplemented college-level courses in those subjects. This study examines the incoming class of 2002, following them through their first two years of postsecondary study and presenting information on their remedial needs, their remedial and supplemented course taking and their retention to the second year.

Kentucky's Mandatory Placement Policy

The 2001 Mandatory Placement Policy, which can be found in Section 6 of 13 KAR 2:020 on College Admissions, requires that institutions remediate all students scoring a 17 or lower on the ACT subject exams in math, English or reading. The SAT can be substituted for the ACT, and students can also take on-campus placement exams if they have not taken these exams or if they scored a 17 or lower and want to try to place out of remediation. On-campus placement exams include standardized exams such as Compass and Accuplacer or custom exams developed by institutions or departments. A crosswalk of standardized exam scores and cut-offs is provided in the appendix of this report.

It is important to note that this Mandatory Placement Policy, which was approved in 2001, is different from the Statewide Public Postsecondary Placement Policy in English and Mathematics that the Council approved in November of 2004. The latter policy establishes the skill levels at which students *can't* be required to take non-credit-bearing remedial courses by their institutions. This policy came about because the Council wanted to develop a clear and consistent statewide placement policy that would communicate to entering students what skill levels they would need to succeed in college-level English and math. The Council was also able to incorporate into this policy some of the standards developed by the American Diploma Project, a national initiative to align high school standards with postsecondary and workplace expectations.

These two remediation policies can be thought of as a floor and a ceiling for remediation. Below the floor, institutions must remediate students and above the ceiling, institutions can't require that students take non-credit-bearing remedial courses. In English, the floor and the ceiling correspond. Students with an ACT score in English of 17 or lower must be remediated, and students scoring 18 or higher must be placed in a credit-bearing class. In Math, ranges of ACT scores were established for entry into different levels of math, from "Mathematics for Liberal Arts Majors" to Calculus. This report only addresses the original Mandatory Placement Policy which is currently in its fifth year of implementation. The Statewide Public Postsecondary Placement Policy in

English and Mathematics, passed in 2004, is too new to include in this report but will be examined in the future.

Data and Methodology

The data used in this report are administrative data submitted as student-unit records by the public postsecondary institutions to the Council's Comprehensive Database during the 2002-03 and 2003-04 academic years. These records include enrollment and demographic information, as well as a file that was designed to track the implementation of the Mandatory Placement policy, the Student Feedback File. This file includes students' scores on entrance and on-campus placement exams, remedial course-taking information, GPAs and students' grades in a few courses, all through the end of their second year of study. Preliminary tables were sent to the institutions for review and comment in August, 2005, and institutions were given the opportunity to revise their data at that time.

During the 2002-03 and 2003-04 academic years included in this report, institutions were not required to submit the results of their on-campus placement exams to CPE. KCTCS provided these exam results voluntarily, but the four-year institutions did not. Consequently, for the four-year institutions, only those students who took an ACT or SAT exam are included in this report. This lack on-campus placement exam data significantly limits the results presented in this report. Underprepared students who placed out of remediation through on-campus placement exams should be reclassified as "prepared," but without on-campus placement exam results for students at the four-year schools, this reclassification cannot be done. The tables that are impacted the most by this data limitation are labeled throughout the report, and efforts are being made to collect this data for subsequent cohorts. Another limitation in the data is that some schools did not record or report supplemented college-level courses in 2002, so these course are undercounted at the system level.

The methodology of this report is straightforward. It includes descriptive statistics about the 26,646 first-time students at Kentucky's public two and four-year institutions in the fall of 2002 for whom CPE received ACT, SAT or on-campus placement exam scores. An additional 2,397 first time students in the fall of 2002 were excluded from the analysis because of missing exam data, most of whom attended KCTCS. No causal modeling and only limited little inferential statistics are used in this report.

Underprepared and Prepared Students, College Entrants vs. Recent High School Graduates

The first question addressed in this report is, how underprepared for postsecondary study were first-time freshmen in the fall of 2002? The answer to this question is important because it gauges the amount of remedial services that postsecondary institutions must provide for their students. The number of entering students needing remediation is also seen as a measure of the quality of Kentucky's P-12 education system, although this assumption is more problematic. An incoming college class includes students who graduated from high schools in other states, earned GEDs, or were adult students who graduated from Kentucky high schools before recent educational reforms. To answer both these important policy questions, I present two

separate analyses below, one including all the students who entered college in fall 2002 and another analysis of the subset of those students who graduated from high school in Kentucky in 2001 or 2002. Sixty-three percent of the total entry cohort fell into this group of recent graduates of Kentucky high schools. Data for the entering class as a whole is presented below, with the analysis of recent graduates of Kentucky high schools beginning on page 8 of this report.

Preparation Levels of Kentucky's First-year Students in 2002

Overall, a slight majority of 53.7% of all students entering certificate and degree programs at Kentucky's public postsecondary institutions in Fall 2002 were underprepared in at least one subject. Students entering the different institutions had differing preparation levels, levels that varied according to the institutions' student mix and level of selectivity. KCTCS had very high rates of underprepared entering students – 76% overall, compared to 39% of those entering four-year institutions. Among the four-year institutions, levels of underprepared students varied widely. The University of Kentucky had the lowest rate, 15%, while Kentucky State had the highest, at 85%.

Table 1. Underprepared Students by Institution and Sector: Incoming Class of 2002

		2002 credential-seeking cohort with placement data	Preparation level of students	
			Prepared	Under-prepared
Two-year public	KCTCS	10,545	24.0%	76.0%
	Sector Total	10,545	24.0%	76.0%
Four-year public	Eastern Kentucky University	2,163	52.1%	47.9%
	Kentucky State University	313	14.7%	85.3%
	Morehead State University	1,418	39.0%	61.0%
	Murray State University	1,434	61.2%	38.8%
	University of Kentucky	3,671	85.5%	14.5%
	University of Louisville	2,260	76.9%	23.1%
	Western Kentucky University	2,935	52.4%	47.6%
	Northern Kentucky University	1,907	40.9%	59.1%
	Sector Total	16,101	60.8%	39.2%
TOTAL		26,646	46.3%	53.7%

Preparation Levels in Math, English and Reading

Examining each of the three subjects individually, math was the subject in which the highest numbers of students were underprepared – 41% overall. Math was also the subject in which the most students were underprepared at each of the institutions, with the exception of Murray State, which had more students underprepared in reading than in math (Table 2).

Table 2. Underprepared Students by Subject, Institution and Sector

		2002 credential- seeking cohort with placement data	Percent under- prepared in math	Percent under- prepared in English	Percent under- prepared in reading
Two- year public	KCTCS	10,094	59.5%	39.2%	51.8%
Four- year public	Eastern Kentucky University	2,129	36.4%	20.1%	29.1%
	Kentucky State University	270	76.3%	60.7%	74.8%
	Morehead State University	1,357	47.3%	29.5%	39.5%
	Murray State University	1,429	21.0%	15.9%	27.9%
	University of Kentucky	3,359	8.0%	5.5%	6.0%
	University of Louisville	2,063	13.8%	7.6%	9.0%
	Western Kentucky University	2,808	36.4%	24.4%	28.4%
	Northern Kentucky University	1,695	44.8%	30.1%	40.1%
	Sector Total	15,110	28.2%	18.2%	24.0%
TOTAL	25,204	40.7%	26.6%	35.1%	

For comparison, the national and Kentucky rates of ACT takers scoring 17 or below in 2002 are as follows:

	All Entering KY PSE Students, 2002 (N = 25,204)	Subset who graduated high school in KY in 2001 or 2002 (N = 15,990)	All ACT takers in Kentucky, 2002¹ (N = 29,532)	All national ACT takers, 2002² (N = 1,116,082)
Math	41%	35%	43%	34%
Reading	35%	32%	35%	32%
English	27%	25%	39%	33%

These numbers suggest that while significant proportions of incoming students are not well prepared for college-level work, the rates for Kentucky's recent high school graduates who entered college are similar to or better than national rates. Kentucky's college entrants are substantially better prepared in English than are ACT takers nationally. However, when we look at all the ACT takers in Kentucky, not just those who entered college, the comparison to national percentages is more troubling, with Kentucky's high school students doing particularly poorly in math. It is important to note that ACT, Inc. cautions against this sort of comparison between state and national ACT results because they reflect differences in income and other demographic characteristics between states as much as differences in P-12 preparation.

Depth of Remedial Needs

Looking students who were underprepared in more than one subject, one-third (33%) of incoming students system-wide were underprepared in two or three subjects (Table 3, next page). One in five students were underprepared in just one subject (22%). The number of subjects in which a student is underprepared is important because multiple needs require a student to take multiple remedial courses and greatly increases that students' risk of dropping out of college altogether, as we shall see below.

KSU had the largest proportion of students needed remediation in two or three areas – 75%. The depth of remedial need at KSU is demonstrated by the fact that half of KSU's students were underprepared in all three subjects, with another quarter underprepared in two. KCTCS had the next largest proportion of students needing remediation in two or three subjects, at 50%.

¹ Kentucky figures are from Table 4, page 6 of ACT Inc.'s "ACT High School Profile Report, Graduating Class of 2002, State Composite for Kentucky."

² National figures are from Table 4, page 6 of ACT Inc.'s "ACT High School Profile Report, Graduating Class of 2002, National Report."

Table 3. Number of Subjects in which Students were Underprepared by Institution and Sector

		2002 credential- seeking cohort	Number of subjects in which students were underprepared			
			0	1	2	3
Two-year public	KCTCS	10,094	23.5%	26.3%	26.3%	23.9%
Four-year public	Eastern Kentucky University	2,129	51.7%	21.8%	15.6%	10.9%
	Kentucky State University	270	13.0%	12.2%	24.8%	50.0%
	Morehead State University	1,357	37.5%	26.7%	17.8%	18.0%
	Murray State University	1,429	61.1%	20.1%	11.8%	7.1%
	University of Kentucky	3,359	85.0%	11.0%	3.6%	0.5%
	University of Louisville	2,063	75.8%	18.8%	4.7%	0.7%
	Western Kentucky University	2,808	51.9%	21.0%	13.1%	14.0%
	Northern Kentucky University	1,695	39.2%	24.6%	18.2%	18.0%
	Sector Total	15,110	59.9%	19.3%	11.3%	9.5%
TOTAL		25,204	45.4%	22.1%	17.3%	15.3%

Preparation Levels by Demographic Characteristics

There was wide variation in student preparation by demographic characteristics. One of the most significant differences was between racial-ethnic groups. White, non-Hispanics were substantially better prepared for college-level study (51% underprepared) than were members of most racial-ethnic minority groups, with the exception of Asians and Pacific Islanders, 44% of whom were underprepared. African Americans were the largest minority group and also the least well prepared, with 78% needing remediation. Sixty-one percent of Hispanic students were underprepared. These differences follow the same achievement-gap patterns seen in other education statistics and reiterate the need for improved attention to the needs of racial-ethnic minority students at all levels of education.

Table 4. Preparation Level by Student Demographics, All Public Institutions

	Preparation level of students		
	Prepared	Underprepared	Total
GENDER			
Female	45.2%	54.8%	14,961
Male	48.3%	51.7%	11,278
FULL/PART TIME			
Full time	49.7%	50.3%	23,173
Part time	22.4%	77.6%	3,066
RACE			
Nonresident Alien	49.5%	50.5%	91
Black, Non-Hispanic	22.5%	77.5%	2,153
American Indian or Alaskan Native	30.8%	69.2%	65
Asian or Pacific Islander	56.3%	43.7%	279
Hispanic	39.2%	60.8%	237
White, Non-Hispanic	49.8%	50.2%	22,259
Unknown	26.8%	73.2%	1,155
RESIDENCY			
In-State	44.4%	55.6%	22,327
Out-of-State w/Tuition Reciprocity	49.1%	50.9%	697
Out-of-State w/o Tuition Rec.	60.2%	39.8%	3,197
Out-of-State, SREB or UK/UF	77.8%	22.2%	18
AGE			
17-24	49.8%	50.2%	23,355
25+	19.7%	80.3%	2,884
HIGH SCHOOL			
GED	19.6%	80.4%	1,802
Kentucky	47.2%	52.8%	19,571
Out-of-state	53.7%	46.3%	4,866
Total	46.5%	53.5%	26,239

The other large demographic difference in preparation level was between traditional and non-traditional students, with non-traditional students being much less prepared for college-level study. This can be seen along three dimensions, comparing part-time and full-time students, traditional college-age and adult students, and GED holders to high school graduates. Part-time, adult and GED-holding students each made up small a minority of entering, degree-seeking students, but each category required remediation at rates near 80%, compared to rates near 50% for the more traditional students. This finding reaffirms the need to target non-traditional students for academic assistance on campus and through adult education.

Slightly more male students were prepared for college-level work than were female students, and graduates of Kentucky high schools were slightly less well prepared than were graduates of out-of-state high schools. Interestingly, out-of-state residents with tuition reciprocity were more likely to need remediation than were Kentucky residents, while out-of-state residents who were not receiving tuition reciprocity were better prepared for college study than Kentucky resident students.

The breakout of student demographics and preparation by institution is given in the appendix under Table 4. The same demographic patterns seen at the aggregate level persist across all nine institutions. KCTCS and KSU both have high rates of underprepared students across the board, so there is less variation by demographic characteristic at these institutions. Similarly, UK and the University of Louisville (U of L) are the most selective institutions, have the lowest rates of students needing remediation in general, and have less variation in preparation level by student characteristic.

Preparation Levels of Recent Graduates of Kentucky High Schools

What about recent graduates of Kentucky high schools? Tables 5 - 8 present the same information given in tables 1-4, but for the subset of students who graduated from Kentucky high schools in 2001 or 2002. These tables show that first-time students who were recent products of Kentucky's P-12 system were better prepared than first-time students as a whole. Slightly fewer were underprepared in at least one subject, 48% compared to 54%, and fewer were underprepared in more than one subject. The comparison of preparation level for each subject is given on page 5 of this report and shows that substantially fewer recent high school graduates were underprepared in math and reading than their fellow first-year students, while English proportions were about the same. Looking at demographic differences in Table 8 below, the percent underprepared was lower across the board among recent high school graduates than in the entry cohort as a whole, with the same types of differences between racial-ethnic groups, gender and full and part-time status as seen in the entire entry cohort.

While recent graduates of Kentucky high schools compare favorably to all first-time students, it is important to note that between one-quarter and one-third of recent graduates from Kentucky high schools were not prepared for college-level work in a given subject. Fully half were entering with an educational handicap in at least one subject.

Table 5. Kentucky's Recent High School Graduates: Underprepared Students by Institution and Sector, Incoming Class of 2002

		Graduates of Kentucky High Schools in 2001 and 2002 who Entered College in Fall 2002	Preparation level of students	
			Prepared	Underprepared
Two-year public	KCTCS	5,050	26.4%	73.6%
	Sector Total	5,050	26.4%	73.6%
Four-year public	Eastern Kentucky University	1,351	52.6%	47.4%
	Kentucky State University	106	14.2%	85.8%
	Morehead State University	905	37.2%	62.8%
	Murray State University	854	59.5%	40.5%
	University of Kentucky	2,877	85.6%	14.4%
	University of Louisville	1,901	77.5%	22.5%
	Western Kentucky University	2,043	53.9%	46.1%
	Northern Kentucky University	1,258	42.0%	58.0%
	Sector Total	11,295	63.2%	36.8%
TOTAL	16,345	51.8%	48.2%	

Table 6. Kentucky's Recent High School Graduates: Underprepared Students by Subject, Institution and Sector

		Graduates of Kentucky High Schools in 2001 and 2002 Who Entered College in Fall 2002	Percent under- prepared in math	Percent under- prepared in English	Percent under- prepared in reading
Two-year public	KCTCS	4,874	56.0%	41.5%	52.7%
	Sector Total	4,874	56.0%	41.5%	52.7%
Four-year public	Eastern Kentucky University	1,346	35.1%	20.7%	29.5%
	Kentucky State University	95	70.5%	63.2%	83.2%
	Morehead State University	904	48.6%	31.4%	42.7%
	Murray State University	854	22.4%	16.5%	28.0%
	University of Kentucky	2,804	7.7%	5.0%	5.8%
	University of Louisville	1,868	12.6%	7.1%	8.7%
	Western Kentucky University	2,036	33.8%	24.4%	28.9%
	Northern Kentucky University	1,209	41.9%	30.3%	40.2%
	Sector Total	11,116	25.4%	17.1%	22.5%
	TOTAL	15,990	34.7%	24.5%	31.7%

Table 7. Kentucky's Recent High School Graduates: Number of Subjects in which Students were Underprepared by Institution and Sector

		Graduates of Kentucky High Schools in 2001 and 2002 Who Entered College in Fall 2002	Number of subjects in which students were underprepared			
			0	1	2	3
Two-year public	KCTCS	4,874	26.0%	23.8%	24.1%	26.1%
	<hr/>					
Four-year public	Eastern Kentucky University	1,346	52.5%	21.0%	15.1%	11.4%
	Kentucky State University	95	10.5%	12.6%	26.3%	50.5%
	Morehead State University	904	37.2%	23.9%	18.0%	20.9%
	Murray State University	854	59.5%	21.3%	12.1%	7.1%
	University of Kentucky	2,804	85.3%	11.2%	3.1%	0.4%
	University of Louisville	1,868	77.1%	17.9%	4.3%	0.6%
	Western Kentucky University	2,036	53.8%	19.3%	12.7%	14.1%
	Northern Kentucky University	1,209	41.0%	23.0%	18.5%	17.5%
	Sector Total	11,116	62.9%	18.1%	10.3%	8.8%
<hr/>						
TOTAL		15,990	51.6%	19.8%	14.5%	14.0%

Table 8. Recent Graduates of Kentucky High Schools: Preparation Level by Student Demographics

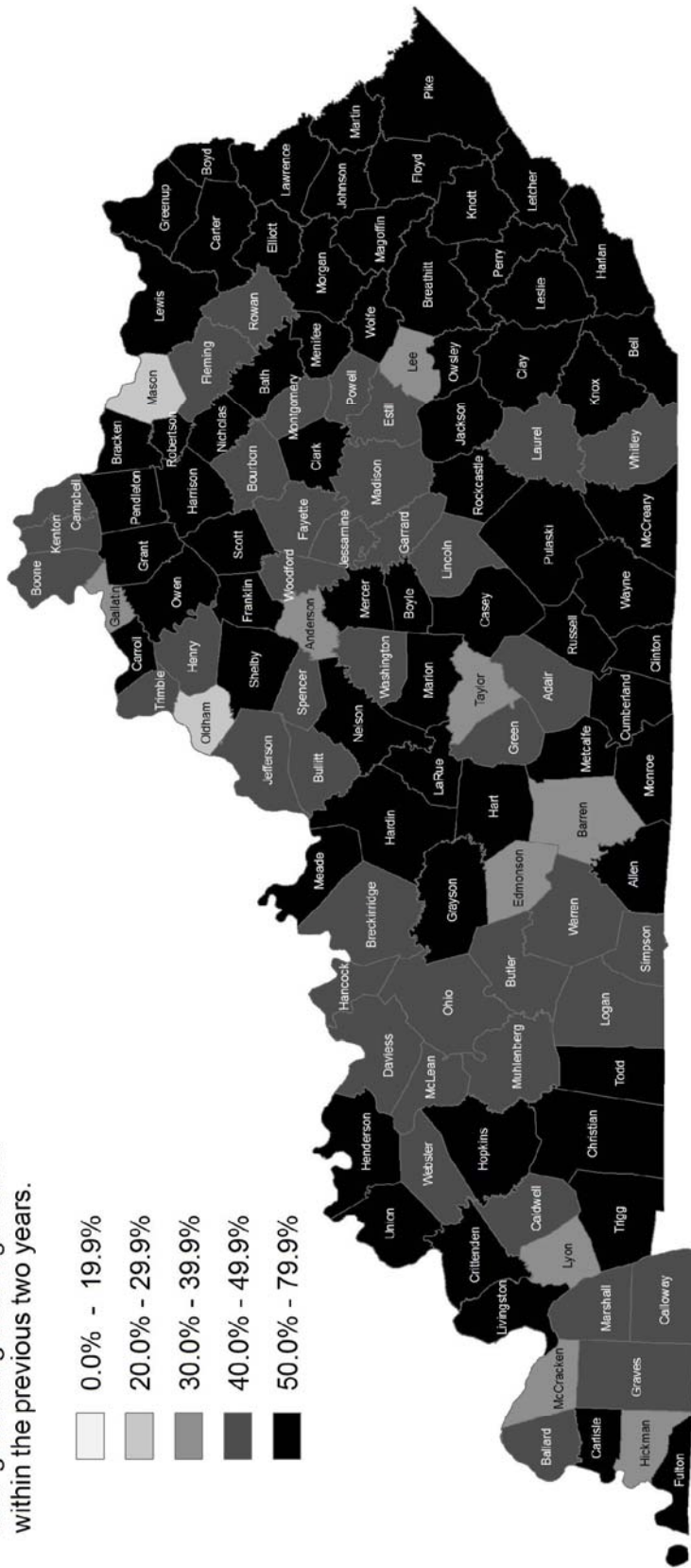
Preparation level of Graduates of Kentucky High Schools in 2001 and 2002 Who Entered College in Fall 2002			
	Prepared	Underprepared	Total
GENDER			
Female	50.7%	49.3%	9,009
Male	53.2%	46.8%	7,327
FULL/PART TIME			
Full time	53.4%	46.6%	15,430
Part time	24.5%	75.5%	906
RACE			
Nonresident Alien	.	.	7
Black, Non-Hispanic	27.9%	72.1%	1,149
American Indian or Alaskan Native	40.0%	60.0%	25
Asian or Pacific Islander	63.6%	36.4%	184
Hispanic	48.3%	51.7%	118
White, Non-Hispanic	54.5%	45.5%	14,234
Unknown	31.2%	68.8%	619
All	51.8%	48.2%	16,336

Maps of Preparation Levels by County of Origin

Figures 1 - 5 provide maps that display the county of origin of recent high school graduates who were underprepared for college study. Students who were underprepared in one or more subjects were fairly evenly distributed across the state, with the heaviest concentrations in eastern and southern Kentucky (Figure 1). The greatest proportions of students underprepared in all three subjects also originate from eastern and southern Kentucky (Figure 2). The maps displaying preparation levels for each of the three subjects, math, English and reading, show similar geographic distributions. In math and English, counties from eastern Kentucky sent the highest proportion of underprepared students to college, with a smattering of counties in southern and western parts of the state doing so as well (Figures 3 and 4). Reading was the subject in which students were best prepared, and counties sending large proportions of students underprepared in this subject to college were concentrated in eastern and, to a lesser extent, southern Kentucky.

Figure 1: Percent of Recent HS Graduates Entering College Underprepared in One or More Subjects, 2002

Students scoring less than 18 on one or more of the ACT exams in mathematics, English, and reading as a percentage of all students taking such exams and entering public postsecondary institutions in the Fall of 2002 after graduating from high school within the previous two years.



Source: Council on Postsecondary Education Comprehensive Database

Figure 3: Percent of Recent HS Graduates Entering College Underprepared in Mathematics, 2002

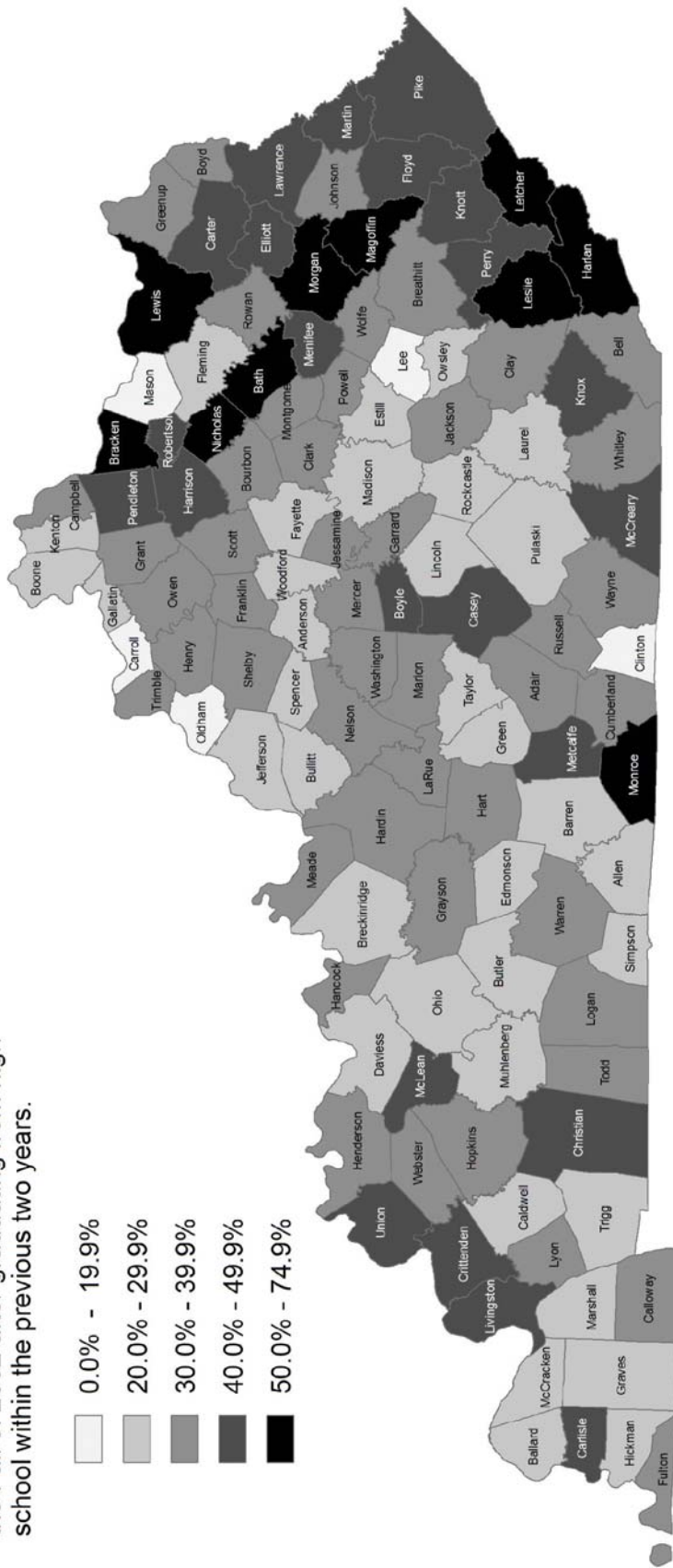
Students scoring less than 18 on the ACT mathematics exam (or the equivalent on the SAT or on-campus placement exams) as a percentage of all students taking such exams and entering public postsecondary institutions in the Fall of 2002 after graduating from high school within the previous two years.



Source: Council on Postsecondary Education Comprehensive Database

Figure 4: Percent of Recent HS Graduates Entering College Underprepared in English, 2002

Students scoring less than 18 on the ACT English exam (or the equivalent on the SAT or on-campus placement exams) as a percentage of all students taking such exams and entering public postsecondary institutions in the Fall of 2002 after graduating from high school within the previous two years.



Source: Council on Postsecondary Education Comprehensive Database

Placement Exams, Students Placing Out of Remediation and Students Pursuing Alternate Forms of Remediation

These tables present information about placement exams and remedial placements. Table 9 gives the number and percent of students taking entrance exams at the four-year schools, showing the proportion of students excluded from this study because they did not take the ACT or the SAT. Except for KSU, the vast majority of students at four-year institutions took one of these entrance exams, all but 2%.

Table 9. Students at Four-year Schools: Placement Exams Taken and Remediation at KCTCS

	2002 credential- seeking cohort	Entrance exams taken				Took remedial course at KCTCS
		ACT only	SAT only	Both ACT and SAT	Neither	
Eastern Kentucky University	2,165	90.6%	1.6%	7.7%	0.1%	50
Kentucky State University	376	62.5%	11.4%	9.3%	16.8%	1
Morehead State University	1,428	95.2%	4.1%	.	0.7%	32
Murray State University	1,450	98.7%	0.2%	.	1.1%	18
University of Kentucky	3,684	84.4%	8.5%	6.7%	0.4%	21
University of Louisville	2,260	91.3%	8.7%	.	.	19
Western Kentucky University	3,074	84.3%	4.0%	7.2%	4.5%	55
Northern Kentucky University	1,977	85.7%	10.7%	.	3.5%	19
Total	16,414	88.0%	6.0%	4.1%	1.9%	215

Table 9 also lists the number of students who were enrolled in degree programs at four-year institutions and who took a remedial course at KCTCS during the 2002-03 and 2003-04 academic years. Some four-year schools encourage students to take remedial courses at KCTCS, as the tuition is lower and KCTCS offers a wider selection of remedial coursework in some cases. Eastern and Western sent the most students to KCTCS for remediation during this time period. Remedial courses taken at KCTCS by students from four-year schools are included in this report as remediation at the student's home four-year institution.

As would be expected at an open enrollment institution, students enrolling in certificate, diploma or degree programs at KCTCS were much less likely to have taken the ACT or SAT than were students enrolling at four-year schools (Table 10, below). Sixty percent of KCTCS' students did not take a college entrance exam, but most of these students (73%) took on-campus placement exams. The on-campus placement exams reported here are all standardized exams offered through national testing services, such as Compass and Accuplacer. Of the students who took both college entrance exams and on-campus placement exams, 42% successfully placed out of remedial study.

Table 10. Placement Exams and Students Placing Out of Remediation: KCTCS Only

			Took on-campus placement exam		Placed out of remedial courses with on-campus exam	
	Number	Percent	Number	Percent of entrance exam takers	Number	Percent of placement exam takers
Entrance exam						
ACT only	5,049	40.1%	1,045	20.7%	440	42.1%
SAT only	33	0.3%	20	60.6%	.	
Both ACT and SAT	6	0.0%	4	66.7%	3	75.0%
Neither	7,488	59.5%	5,469	73.0%	.	
Total	12,576	100.0%	6,538		443	6.8%

Were Underprepared Students Retained?

A student's preparation level coming into college is strongly associated with retention. System-wide, 73% of prepared students were retained at their native institution, while only 55% of those who were underprepared were retained. The college drop out rate can be seen below as those students who are not retained at their native institution or elsewhere in the system. Underprepared students were twice as likely to drop out of college altogether as were those who were better prepared: 39% compared to 20%.

Table 11. Retention by Preparation Level of Public Postsecondary Students

Retention in Fall 2003 of First-time Freshmen entering in Fall 2002			Underprepared in one or more subjects		
			Prepared	Under-prepared	Total
Not retained in KY PSE system	Not retained at native institution	Number	2,384	5,460	7,844
		Percent retained	19.5%	38.8%	30%
Retained at any KY PSE institution	Not retained at native institution	Number	862	849	1,711
		Percent retained	7.1%	6.0%	7%
	Retained at native institution	Number	8,969	7,760	16,729
		Percent retained	73.4%	55.2%	64%
Total		Number	12,215	14,069	26,284
			46.5%	53.5%	100%

Note: System-level retention includes students who enrolled at any independent or public postsecondary institution in Kentucky for their second year.

Retention rates for underprepared students by institution are presented in the appendix in Table 11. Retention rates for underprepared students at the four-year institutions ranged fairly narrowly between 57% and 67%, while KCTCS retained 50% of their underprepared students.

Retention rates are also associated with the number of subjects in which students are underprepared. Sixty percent of students who were underprepared in only one subject were retained, compared to 50% of those who were underprepared in all three subjects, English, math and reading. Drop-out rates increased to 45% for this high-need group.

Table 12. Retention by Number of Subjects Underprepared of Public Postsecondary Students

Retention in Fall 2003 of First-time Freshmen entering in Fall 2002			Number of subjects in which students were underprepared				Total
			0	1	2	3	
Not retained in KY PSE system	Not retained at native institution	Number	2,132	1,810	1,713	1,715	7,370
		Percent retained	18.8%	33.1%	39.9%	45.3%	30%
Retained at any KY PSE institution	Not retained at native institution	Number	838	383	273	174	1,668
		Percent retained	7.4%	7.0%	6.4%	4.6%	7%
	Retained at native institution	Number	8,354	3,271	2,304	1,897	15,826
		Percent retained	73.8%	59.9%	53.7%	50.1%	64%
Total		Number	11,324	5,464	4,290	3,786	24,864
			45.5%	22.0%	17.3%	15.2%	100%

Note: System-level retention includes students who enrolled at any independent or public postsecondary institution in Kentucky for their second year.

Differences between the institutions in the retention of students underprepared in all three subjects were large, ranging from 46% at Eastern to 87% at U of L, although U of L's total number of these students was very low. At KCTCS, 47% of students who were underprepared in all three subjects were retained.

Another measure of a school's efforts to retain underprepared students is the size of the "retention gap" between the retention of prepared students and the retention of underprepared students. This retention gap ranged from 10% at KCTCS (which has lower retention rates across the board) to 19% at Eastern. Among the comprehensive and research universities, Morehead stands out with a low retention gap of 11% between underprepared and prepared students.

Did Underprepared Students Take Remedial Courses?

These tables present the remedial course-taking of underprepared students in a few different ways. Tables 13 and 14 give a summary overview of remediation by institution, and Tables 15-17 provide a detailed analysis of underprepared students' course-taking at each institution, including remedial and college level courses.

The overview of remediation in Table 13 shows that most students who are in need of remediation have had some contact with remedial programs at their schools. These results provide a very rough introduction to remediation, as it includes students who may have been remediated in only one of several subjects in which they needed help (Tables 15-17 give the results by subject). What this overview does measure is the extent to which underprepared students had any exposure to remedial education, and how many fell through the cracks and receive any remediation.

Table 13. Underprepared Students' Remediation in at Least One Subject

		Students Underprepared in One or More Subjects	Underprepared	
			Percent remediated in at least one subject	
			No	Yes
Two-year public	KCTCS	8,012	44.2%	55.8%
Four-year public	Eastern Kentucky University	1,035	14.9%	85.1%
	Kentucky State University	267	11.2%	88.8%
	Morehead State University	865	14.1%	85.9%
	Murray State University	557	20.3%	79.7%
	University of Kentucky	534	58.8%	41.2%
	University of Louisville	523	38.4%	61.6%
	Western Kentucky University	1,398	30.5%	69.5%
	Northern Kentucky University	1,127	33.7%	66.3%
	Sector Total	6,306	27.6%	72.4%
TOTAL		14,318	36.9%	63.1%

Eastern, KSU and Morehead had 85-90% of their underprepared students take some form of remediation (these remediation percentages include students who took college-level courses with supplemental help). UK had the lowest percent of underprepared students receiving remediation at 41%, because UK only offers remedial coursework in math. According to a representative of UK, "Students who are underprepared in writing are instructed to use the writing center as a resource, while students who have difficulties with reading may seek out tutoring." The result for KCTCS does not show a particularly strong engagement with remedial education among their underprepared students, as only 56% took any remediation in their first two years.

Table 14 represents the proportion of students with remedial needs in math, English and reading who were remediated in at least one of these subjects, reflecting and institution's outreach efforts to these high-need students. These percentages are higher, showing that students who are underprepared in all three subjects are indeed getting special attention and being directed toward remedial education. All schools remediated between 85-95% of their neediest students, except for KCTCS and UK. Both UK and U of L had a very small number of students needing remediation in all three subjects.

Table 14. Remediation of Students with the Greatest Needs

		Students underprepared in all three subjects	Percent remediated in at least one subject	
			No	Yes
Two-year public	KCTCS	2,350	36.4%	63.6%
Four-year public	Eastern Kentucky University	231	5.6%	94.4%
	Kentucky State University	132	9.8%	90.2%
	Morehead State University	244	7.4%	92.6%
	Murray State University	101	12.9%	87.1%
	University of Kentucky	16	43.8%	56.3%
	University of Louisville	15	13.3%	86.7%
	Western Kentucky University	392	14.3%	85.7%
	Northern Kentucky University	305	14.1%	85.9%
	Sector Total	1,436	11.5%	88.5%
TOTAL	3,786	27.0%	73.0%	

Tables 15 – 17 give the best, most detailed information on underprepared students' remediation and other course-taking. Each table includes only those students who were underprepared in one of the three core subjects and presents students' course-taking in that subject during their first two years of study. All students who are underprepared in a subject fall into one of four possible categories. In their first two years they either, 1) took a remedial course in that subject, 2) took a college-level course with supplemental help in that subject, 3) took a college level course in that subject without first being remediated, and 4) did not take a course in that subject, either remedial or college-level.

These tables help us answer three important questions. Are retained students taking remedial coursework? Are students who don't take remedial courses taking college-level work instead, putting them at greater risk of failure? Are students who don't take remedial courses avoiding taking any courses in the subject? The answers to these questions show how well institutions enforced the mandatory placement policy by

ensuring that their underprepared students took remedial courses or college-level courses with supplemental help. It also tells us if students are avoiding taking courses in these subjects altogether, handicapping themselves by not catching up on the fundamental reading, writing and math skills that are needed in any college-level course.

In assessing these numbers, it is important to note that the lack of on-campus placement exam data from the four-year institutions inflates the numbers of underprepared students who took a college level course without first being remediated. This is because some of the students classified as underprepared in this report based on their ACT or SAT score may have placed out of remediation through an on-campus placement exam, and would actually have been exempt from the mandatory placement policy. Placement exam data has been requested from the four-year institutions for future iterations of this report to correct this problem.

Underprepared students' course-taking is presented by retention at the institutional and system-wide level. These results are broken out by retention because retained students have had the longest time in which to take courses, making the remediation of these students the best standard by which to measure an institution's remediation program. If a student has not been remediated by the end of their second year, they will have lost a good deal of ground in their progress toward a degree.

It is also important to factor in retention because there is a circular cause-and-effect relationship between retention and remediation. It is likely that students who are remediated are more likely to be retained. But it is also likely that students who are retained are more likely to be remediated simply because they have had more semesters in school in which to take remedial courses. The dataset constructed for this report does not permit the teasing out of these effects, although attempts may be made to do so in future reports. For now, all remediation results are shown by retention status to preserve the differences between students who attended college for one year or less and those who attended for two.

Looking first at Table 15, system-wide, only 67% of underprepared students in math who were retained were remediated in math. Twelve percent took college-level math without being remediated (and may have actually placed out of remediation), and 21% did not take any math courses during their first two years. This analysis is presented for each institution in the appendix under Table 15. There are considerable differences in math remediation by institution, ranging from 95% to 69% among the four-year institutions, and dropping to 54% at KCTCS. Eastern and Morehead had the best remediation results with a 95% math remediation rate among retained students. U of L's rate is close behind at 89%. Both Northern and KSU had remediation rates in the low 80% range, with most of their non-remediated students not taking math at all. UK, Murray and Western remediated 69-70% of these students, with the bulk of those who were not remediated taking college level math anyway. Looking at math avoidance, Morehead, KSU, UK, Western and Northern had between 10-15% of their underprepared students in math not taking any math courses. At KCTCS, almost one-third of retained students who were underprepared in math avoided taking a math course during their first two years. This may be due in part to the high proportion of part-time students at KCTCS, as part-time students may take longer to enroll in the remedial courses they need.

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

All KY Public Institutions		Under-prepared in math	%	
Not retained in KY PSE system	Not retained at native institution	Did not take subject	1,838	44.1%
		Took at college level without remediation*	198	4.8%
		Took at college level with supplemental help	4	0.1%
		Took remedial course	2,125	51.0%
		Subtotal	4,165	100.0%
Retained at any KY PSE institution	Not retained at native institution	Did not take subject	130	22.4%
		Took at college level without remediation*	25	4.3%
		Took remedial course	425	73.3%
		Subtotal	580	100.0%
Retained at native institution	Retained at native institution	Did not take subject	1,187	21.1%
		Took at college level without remediation*	660	11.7%
		Took at college level with supplemental help	14	0.2%
		Took remedial course	3,769	66.9%
		Subtotal	5,630	100.0%
Total students underprepared in math		Did not take subject	3,155	30.4%
		Took at college level without remediation*	883	8.5%
		Took at college level with supplemental help	18	0.2%
		Took remedial course	6,319	60.9%
		Total	10,375	100.0%

* This category includes an unknown number of students who placed out of remediation after taking an on-campus placement exam.

Table 16 presents the English courses taken by students who were underprepared in English. System-wide, 56% of these students who were retained were also remediated. One-quarter took a college-level course without remediation (and may have actually placed out of remediation) and only 15% did not take any English course. Summarizing the institutional tables in the appendix, institutional variation in this measure is large. Morehead has the highest remediation rate with 94% and Eastern, Western and KSU are also doing well at 80-84% (including supplemented courses). Both Northern and KCTCS remediated a majority of their underprepared students in English, with remediation rates of 61% and 54% respectively. Murray had the lowest remediation rate in English at 39%, with the majority of their retained, underprepared students taking college-level English without remediation, although it is likely that many of these students placed out of remediation. Neither UK nor U of L offer remedial courses in English. UK refers these students to their writing center, and U of L provides college-level courses with supplemental help rather than remedial courses. Unfortunately, U of L's supplemented courses are not distinguishable from regular college courses in the data used for this report, but this problem will be fixed in later reports.

Comparing math and English overall, it appears that remediation rates in English are lower than in math, both institutionally and statewide. And despite the fact that math remediation is offered at all of Kentucky's public institutions so state-wide rates would be expected to be higher, students who were underprepared in math were more likely to avoid taking math classes than were underprepared students in English to avoid English classes. Students who were underprepared in English either took remedial courses or took college-level courses without remediation; very few of them avoided taking English.

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

All KY Public Institutions		Under-prepared in English	%	
Not retained in KY PSE system	Not retained at native institution	Did not take subject	1,447	38.9%
		Took at college level without remediation*	483	13.0%
		Took at college level with supplemental help	40	1.1%
		Took remedial course	1,748	47.0%
		Subtotal	3,718	100.0%
Retained at any KY PSE institution	Not retained at native institution	Did not take subject	106	20.7%
		Took at college level without remediation*	142	27.8%
		Took at college level with supplemental help	13	2.5%
		Took remedial course	250	48.9%
		Subtotal	511	100.0%
	Retained at native institution	Did not take subject	738	15.4%
		Took at college level without remediation*	1,208	25.2%
		Took at college level with supplemental help	149	3.1%
		Took remedial course	2,704	56.3%
		Subtotal	4,799	100.0%
Total students underprepared in English		Did not take subject	2,291	25.4%
		Took at college level without remediation*	1,833	20.3%
		Took at college level with supplemental help	202	2.2%
		Took remedial course	4,702	52.1%
		Total	9,028	100.0%

* This category includes an unknown number of students who placed out of remediation after taking an on-campus placement exam.

As there are no college-level courses in reading, per se, Table 17 only presents information on remedial course-taking by students who were underprepared in reading. Overall, a little over half (52%) of retained, underprepared students took remedial reading courses. The highest remediation rates were at Morehead (96%), Western (83%), Eastern (82%) and Northern (74%). KSU and Murray were in the middle, having remediated 58-61% of their retained students who were underprepared in reading. KCTCS and U of L both had low remediation rates of 36% and 32% respectively. UK does not offer remedial courses in reading. Their underprepared students in reading are encouraged to work with reading tutors.

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

All KY Public Institutions			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	No remedial course	1,706	61.0%
		Took remedial course	1,090	39.0%
		Subtotal	2,796	100.0%
Retained at any KY PSE institution	Not retained at native institution	No remedial course	201	52.3%
		Took remedial course	183	47.7%
		Subtotal	384	100.0%
	Retained at native institution	No remedial course	1,691	48.1%
		Took remedial course	1,823	51.9%
		Subtotal	3,514	100.0%
Total students underprepared in reading		No remedial course	3,598	53.7%
		Took remedial course	3,096	46.3%
		Total	6,694	100.0%

How Do Preparation Level and Remediation Affect Student Outcomes?

When planning this study, CPE staff had hoped to include two additional student outcome measures, GPA at the end of the second year and grades in college-level courses in math and English. Unfortunately, the lack of on-campus placement exam data prevents this analysis at this time, as is detailed below. CPE is working with the institutions to correct this data problem, and hopes to conduct this analysis in the future.

Without complete, accurate data on students' on-campus placement tests, we cannot completely determine which students need remediation. In the data available for this report, if students take on-campus placement exams and place out of remediation, they would be wrongly categorized as being underprepared but not remediated. But

how do we know if this has happened? If some of these underprepared students had actually placed out of remediation, one would expect these students to have been “less underprepared” and to have higher ACT scores than those who didn’t place out of remediation with on-campus exams. So, if underprepared students who were *not* remediated had higher ACT scores than underprepared students who *were* remediated, it is more plausible that many of the non-remediated students actually did place out of remediation

This hypothesis was tested by examining differences in ACT scores between underprepared students who were remediated and those who were not remediated. Looking at the correlation between ACT score and remediation among underprepared students, I found slight to moderate, statistically significant correlations at some schools and in some subjects (correlation results available upon request). These correlations show that at these institutions, students are less likely to be remediated as their ACT score increases from 10 to 17. Other schools and subjects did not have statistically significant correlations and there were no correlations that would contradict this hypothesis. In summary, it appears likely that a substantial number of underprepared, un-remediated students had actually placed out of remediation, conflating these two categories and preventing the analysis of the affect of remediation on student outcomes at this time.

Campus Practices and Programs

A quantitative report can give only a partial view of institutions’ efforts to meet the developmental needs of their underprepared students. Some institutions submitted additional information about their remedial education programs to include in this report, information which is included here and which provides some important context to the numbers reported above.

A representative of Northern Kentucky University describes how their applicants are screened for additional academic attention. “At NKU, for example, every applicant is initially screened by admissions staff for pre-college curriculum qualifications and ACT scores. Records for students who are not clearly qualified for full “regular” admission are referred to the Academic Advising and Resource Center.”

The University of Louisville has changed their remediation program in recent years to emphasize college-level courses with supplemental help. They write, “UofL has “enhanced” or supplemented classes whereby students who would normally be enrolled in remedial courses may register into an entry level general education course that meets more frequently and has mandatory attendance requirements...UofL enforces our supplemented study program by a thorough review of the academic registration of all students who are reported as underprepared in the supplemented areas. We contact those who have mis-registered in their first term, and we make administrative changes to insure their registration in the appropriate supplemented course. We are attempting to extend this supplement by connecting these courses with additional support through learning communities with associated academic orientation classes (GEN101) and with other resources to assist these students in their successful transition to college.”

Institutions also described some of the difficulties inherent in providing remedial education. Students who require remediation are often surprised that they were not

adequately prepared for college level course work in high school and resent this fact. Also, some students may avoid taking remedial courses because this coursework is not credit bearing. Underprepared students can spend a considerable amount of time in remediation, especially if they are underprepared in more than one subject, time that significantly delays their academic progress.

Conclusions

In summary, substantial numbers of students who entered Kentucky's public postsecondary system in 2002 entered with remedial needs. Between one-quarter and two-fifths of entering students required remediation in math, English or reading, and fully half required remediation in at least one of these subjects. Rates were lower for recent graduates of Kentucky's high schools, but still ranged between one-quarter and one-third. Also, this report suggests that being underprepared for college level work is associated with not being retained to the second year. These numbers underscore the need for strong remedial and supplemental programs at the postsecondary level to help all students achieve their education goals. These numbers also argue for improved college preparation at the P-12 level and in adult education.

How well are these students being remediated at the postsecondary level? This study suggests that only a small majority of students who entered college in 2002 needing to be remediated actually were remediated during their first two years. Some of the students who weren't remediated dropped out of college and others avoided taking any courses in the subjects in which they needed remediation. Because of limitations in the data, we know that this report overestimates the size of this problem, yet remediation rates are low enough at some schools to suggest that there is room for improvement from these 2002 rates.

It is important to note that this report encompasses students who started college in fall 2002, and that some institutions have made substantial changes in their remediation policies since that time. Also, CPE has been working to improve its data collection concerning remediation and other forms of academic supplementation and will continue to do so. It is our intent to continue to move forward with the evaluation of remedial policies and programs, and to look in more depth at the outcomes of remediation and other forms of academic support. The Council is committed to pursuing excellence in the provision of services to academically at-risk students and accountability is essential to this endeavor.

**Underprepared Students in Kentucky:
A First Look at the 2001 Mandatory Placement Policy**

Kentucky Council on Postsecondary Education
November, 2005

Appendix 1: Institutional Tables

Table of Contents	Page
Table 4. Preparation Level by Demographics	1
Table 11. Retention by Preparation Level	10
Table 12. Retention by Number of Subjects Underprepared	19
Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status	28
Table 16. Students Underprepared in English: English Courses Taken by Retention Status	37
Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status	46

Table 4. Preparation Level by Demographics

Eastern Kentucky University			
	Preparation level of students		Total
	Prepared	Under-prepared	
GENDER			
Female	53.7%	46.3%	1,296
Male	50.0%	50.0%	864
FULL/PART TIME			
Full time	52.2%	47.8%	2,160
RACE			
Nonresident Alien	.	.	.
Black, Non-Hispanic	14.9%	85.1%	87
American Indian or Alaskan Native	.	.	.
Asian or Pacific Islander	63.6%	36.4%	22
Hispanic	23.1%	76.9%	13
White, Non-Hispanic	54.5%	45.5%	1,971
Unknown	36.4%	63.6%	55
RESIDENCY			
In-State	48.3%	51.7%	1,799
Out-of-State w/o Tuition Rec.	71.7%	28.3%	361
AGE			
17-24	53.8%	46.2%	2,085
25+	9.3%	90.7%	75
HIGH SCHOOL			
GED	9.3%	90.7%	75
Kentucky	50.1%	49.9%	1,695
Out-of-state	69.5%	30.5%	390
All	52.2%	47.8%	2,160

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 4. Preparation Level by Demographics

Kentucky State University			
	Preparation level of students		
	Prepared	Under-prepared	Total
GENDER			
Female	14.9%	85.1%	175
Male	14.5%	85.5%	138
FULL/PART TIME			
Full time	15.0%	85.0%	300
Part time	7.7%	92.3%	13
RACE			
Black, Non-Hispanic	15.9%	84.1%	251
Asian or Pacific Islander	.	.	.
Hispanic	.	.	.
White, Non-Hispanic	9.8%	90.2%	51
Unknown	.	.	.
RESIDENCY			
In-State	14.0%	86.0%	136
Out-of-State w/o Tuition Rec.	15.3%	84.7%	177
AGE			
17-24	14.6%	85.4%	294
25+	15.8%	84.2%	19
HIGH SCHOOL			
GED	25.0%	75.0%	12
Kentucky	13.0%	87.0%	115
Out-of-state	15.1%	84.9%	186
All	14.7%	85.3%	313

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 4. Preparation Level by Demographics

Morehead State University			
	Preparation level of students		
	Prepared	Under-prepared	Total
GENDER			
Female	39.5%	60.5%	777
Male	38.9%	61.1%	633
FULL/PART TIME			
Full time	40.1%	59.9%	1,373
Part time	5.4%	94.6%	37
RACE			
Nonresident Alien	.	.	.
Black, Non-Hispanic	15.4%	84.6%	65
American Indian or Alaskan Native	.	.	.
Asian or Pacific Islander	.	.	.
Hispanic	30.8%	69.2%	13
White, Non-Hispanic	40.3%	59.7%	1,323
RESIDENCY			
In-State	34.9%	65.1%	1,048
Out-of-State w/o Tuition Rec.	51.7%	48.3%	362
AGE			
17-24	40.3%	59.7%	1,360
25+	10.0%	90.0%	50
HIGH SCHOOL			
GED	13.0%	87.0%	46
Kentucky	35.8%	64.2%	987
Out-of-state	51.5%	48.5%	377
All	39.2%	60.8%	1,410

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading. Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 4. Preparation Level by Demographics

Murray State University			
	Preparation level of students		
	Prepared	Under-prepared	Total
GENDER			
Female	62.6%	37.4%	851
Male	58.9%	41.1%	574
FULL/PART TIME			
Full time	62.1%	37.9%	1,395
Part time	16.7%	83.3%	30
RACE			
Nonresident Alien	20.0%	80.0%	10
Black, Non-Hispanic	26.9%	73.1%	93
American Indian or Alaskan Native	.	.	.
Asian or Pacific Islander	.	.	.
Hispanic	.	.	.
White, Non-Hispanic	64.0%	36.0%	1,294
Unknown	.	.	.
RESIDENCY			
In-State	56.5%	43.5%	931
Out-of-State w/Tuition Reciprocity	46.8%	53.2%	94
Out-of-State w/o Tuition Rec.	75.3%	24.8%	400
AGE			
17-24	62.5%	37.5%	1,383
25+	14.3%	85.7%	42
HIGH SCHOOL			
GED	12.5%	87.5%	24
Kentucky	58.0%	42.0%	893
Out-of-state	68.9%	31.1%	508
All	61.1%	38.9%	1,425

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading. Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 4. Preparation Level by Demographics

University of Kentucky			
	Preparation level of students		
	Prepared	Under-prepared	Total
GENDER			
Female	84.9%	15.1%	1,979
Male	86.1%	13.9%	1,686
FULL/PART TIME			
Full time	85.5%	14.5%	3,639
Part time	84.6%	15.4%	26
RACE			
Nonresident Alien	66.7%	33.3%	21
Black, Non-Hispanic	51.6%	48.4%	159
American Indian or Alaskan Native	.	.	.
Asian or Pacific Islander	72.4%	27.6%	58
Hispanic	83.3%	16.7%	30
White, Non-Hispanic	87.4%	12.6%	3,330
Unknown	85.9%	14.1%	64
RESIDENCY			
In-State	85.6%	14.4%	2,983
Out-of-State w/o Tuition Rec.	85.2%	14.8%	669
Out-of-State, SREB or UK/UF	76.9%	23.1%	13
AGE			
17-24	85.5%	14.5%	3,662
25+	.	.	.
HIGH SCHOOL			
GED	.	.	.
Kentucky	85.6%	14.4%	2,896
Out-of-state	84.9%	15.1%	767
All	85.5%	14.5%	3,665

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading. Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 4. Preparation Level by Demographics

University of Louisville			
	Preparation level of students		
	Prepared	Under-prepared	Total
GENDER			
Female	74.3%	25.7%	1,159
Male	79.5%	20.5%	1,097
FULL/PART TIME			
Full time	77.2%	22.8%	2,165
Part time	67.0%	33.0%	91
RACE			
Nonresident Alien	75.0%	25.0%	20
Black, Non-Hispanic	58.0%	42.0%	295
American Indian or Alaskan Native	.	.	.
Asian or Pacific Islander	75.0%	25.0%	68
Hispanic	76.7%	23.3%	30
White, Non-Hispanic	80.1%	19.9%	1,836
Unknown	.	.	.
RESIDENCY			
In-State	77.0%	23.0%	1,983
Out-of-State w/Tuition Reciprocity	84.9%	15.1%	166
Out-of-State w/o Tuition Rec.	60.4%	39.6%	106
Out-of-State, SREB or UK/UF	.	.	.
AGE			
17-24	76.9%	23.1%	2,239
25+	64.7%	35.3%	17
HIGH SCHOOL			
GED	52.9%	47.1%	17
Kentucky	77.2%	22.8%	1,934
Out-of-state	75.7%	24.3%	305
All	76.8%	23.2%	2,256

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading. Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 4. Preparation Level by Demographics

Western Kentucky University			
	Preparation level of students		
	Prepared	Under-prepared	Total
GENDER			
Female	54.7%	45.3%	1,681
Male	49.2%	50.8%	1,254
FULL/PART TIME			
Full time	53.4%	46.6%	2,840
Part time	21.1%	78.9%	95
RACE			
Nonresident Alien	41.7%	58.3%	12
Black, Non-Hispanic	16.8%	83.2%	298
American Indian or Alaskan Native	.	.	.
Asian or Pacific Islander	65.5%	34.5%	29
Hispanic	29.6%	70.4%	27
White, Non-Hispanic	56.7%	43.3%	2,528
Unknown	54.3%	45.7%	35
RESIDENCY			
In-State	51.4%	48.6%	2,253
Out-of-State w/Tuition Reciprocity	54.3%	45.7%	164
Out-of-State w/o Tuition Rec.	55.8%	44.2%	514
Out-of-State, SREB or UK/UF	.	.	.
AGE			
17-24	53.1%	46.9%	2,872
25+	17.5%	82.5%	63
HIGH SCHOOL			
GED	31.3%	68.8%	64
Kentucky	52.3%	47.7%	2,152
Out-of-state	54.4%	45.6%	719
All	52.4%	47.6%	2,935

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading. Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 4. Preparation Level by Demographics

Northern Kentucky University			
	Preparation level of students		
	Prepared	Under-prepared	Total
GENDER			
Female	38.3%	61.7%	1,089
Male	44.4%	55.6%	818
FULL/PART TIME			
Full time	42.9%	57.1%	1,745
Part time	19.1%	80.9%	162
RACE			
Nonresident Alien	.	.	.
Black, Non-Hispanic	20.5%	79.5%	127
American Indian or Alaskan Native	.	.	.
Asian or Pacific Islander	41.2%	58.8%	17
Hispanic	25.0%	75.0%	12
White, Non-Hispanic	42.5%	57.5%	1,738
RESIDENCY			
In-State	39.5%	60.5%	1,487
Out-of-State w/Tuition Reciprocity	33.3%	66.7%	75
Out-of-State w/o Tuition Rec.	48.4%	51.6%	345
AGE			
17-24	41.6%	58.4%	1,840
25+	22.4%	77.6%	67
HIGH SCHOOL			
GED	18.2%	81.8%	33
Kentucky	40.0%	60.0%	1,370
Out-of-state	44.8%	55.2%	504
All	40.9%	59.1%	1,907

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading. Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 4. Preparation Level by Demographics

KCTCS	Preparation level of students		
	Prepared	Under-prepared	Total
GENDER			
Female	22.1%	77.9%	5,954
Male	26.2%	73.8%	4,214
FULL/PART TIME			
Full time	24.9%	75.1%	7,556
Part time	20.8%	79.2%	2,612
RACE			
Nonresident Alien	20.0%	80.0%	15
Black, Non-Hispanic	8.6%	91.4%	778
American Indian or Alaskan Native	23.3%	76.7%	30
Asian or Pacific Islander	18.3%	81.7%	71
Hispanic	21.0%	79.0%	100
White, Non-Hispanic	25.7%	74.3%	8,188
Unknown	21.5%	78.5%	986
RESIDENCY			
In-State	23.9%	76.1%	9,707
Out-of-State w/Tuition Reciprocity	21.7%	78.3%	198
Out-of-State w/o Tuition Rec.	23.6%	76.4%	263
AGE			
17-24	25.2%	74.8%	7,620
25+	19.9%	80.1%	2,548
HIGH SCHOOL			
GED	19.5%	80.5%	1,529
Kentucky	24.6%	75.4%	7,529
Out-of-state	24.4%	75.6%	1,110
All	23.8%	76.2%	10,168

Note: Underprepared students were underprepared in one or more of the following subjects: math, English or reading. Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 11. Retention by Preparation Level

			Underprepared in one or more subjects		Total
			Prepared	Underprepared	
Not retained in KY PSE system	Not retained at native institution	Number	210	349	559
		Percent retained	18.7%	33.8%	26%
Retained at any KY PSE institution	Not retained at native institution	Number	77	102	179
		Percent retained	6.9%	9.9%	8%
	Retained at native institution	Number	836	582	1,418
		Percent retained	74.4%	56.3%	66%
Total		Number	1,123	1,033	2,156
			52.1%	47.9%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 11. Retention by Preparation Level

Kentucky State University

		Underprepared in one or more subjects			
		Prepared	Underprepared	Total	
Not retained in KY PSE system	Not retained at native institution	Number	13	89	102
		Percent retained	28.3%	34.0%	33%
Retained at any KY PSE institution	Not retained at native institution	Number	1	10	11
		Percent retained	2.2%	3.8%	4%
	Retained at native institution	Number	32	163	195
		Percent retained	69.6%	62.2%	63%
Total	Number		46	262	308
			14.9%	85.1%	100%

Table 11. Retention by Preparation Level

Morehead State University

		Underprepared in one or more subjects			
		Prepared	Underprepared	Total	
Not retained in KY PSE system	Not retained at native institution	Number	106	256	362
		Percent retained	19.2%	29.6%	26%
Retained at any KY PSE institution	Not retained at native institution	Number	38	66	104
		Percent retained	6.9%	7.6%	7%
	Retained at native institution	Number	407	543	950
		Percent retained	73.9%	62.8%	67%
Total	Number		551	865	1,416
			38.9%	61.1%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 11. Retention by Preparation Level

Murray State University

		Underprepared in one or more subjects			
		Prepared	Underprepared	Total	
Not retained in KY PSE system	Not retained at native institution	Number	188	182	370
		Percent retained	21.5%	32.9%	26%
Retained at any KY PSE institution	Not retained at native institution	Number	54	47	101
		Percent retained	6.2%	8.5%	7%
	Retained at native institution	Number	634	325	959
		Percent retained	72.4%	58.7%	67%
Total	Number		876	554	1,430
			61.3%	38.7%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 11. Retention by Preparation Level

University of Kentucky

		Underprepared in one or more subjects			
		Prepared	Underprepared	Total	
Not retained in KY PSE system	Not retained at native institution	Number	386	103	489
		Percent retained	12.3%	19.3%	13%
Retained at any KY PSE institution	Not retained at native institution	Number	277	82	359
		Percent retained	8.8%	15.4%	10%
	Retained at native institution	Number	2,470	349	2,819
		Percent retained	78.8%	65.4%	77%
Total	Number		3,133	534	3,667
			85.4%	14.6%	100

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 11. Retention by Preparation Level

University of Louisville

			Underprepared in one or more subjects		
			Prepared	Underprepared	Total
Not retained in KY PSE system	Not retained at native institution	Number	249	127	376
		Percent retained	14.3%	24.3%	17%
Retained at any KY PSE institution	Not retained at native institution	Number	118	46	164
		Percent retained	6.8%	8.8%	7%
	Retained at native institution	Number	1,370	350	1,720
		Percent retained	78.9%	66.9%	76%
Total	Number		1,737	523	2,260
			76.9%	23.1%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 11. Retention by Preparation Level

Western Kentucky University

		Underprepared in one or more subjects			
		Prepared	Underprepared	Total	
Not retained in KY PSE system	Not retained at native institution	Number	231	386	617
		Percent retained	15.0%	27.7%	21%
Retained at any KY PSE institution	Not retained at native institution	Number	111	111	222
		Percent retained	7.2%	8.0%	8%
	Retained at native institution	Number	1,194	899	2,093
		Percent retained	77.7%	64.4%	71%
Total	Number		1,536	1,396	2,932
			52.4%	47.6%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 11. Retention by Preparation Level

Northern Kentucky University

			Underprepared in one or more subjects		
			Prepared	Underprepared	Total
Not retained in KY PSE system	Not retained at native institution	Number	179	428	607
		Percent retained	22.9%	38.0%	32%
Retained at any KY PSE institution	Not retained at native institution	Number	33	57	90
		Percent retained	4.2%	5.1%	5%
	Retained at native institution	Number	568	642	1,210
		Percent retained	72.8%	57.0%	63%
Total	Number		780	1,127	1,907
			40.9%	59.1%	100

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 11. Retention by Preparation Level

KCTCS

			Underprepared in one or more subjects		
			Prepared	Underprepared	Total
Not retained in KY PSE system	Not retained at native institution	Number	822	3,540	4,362
		Percent retained	33.8%	45.5%	43
Retained at any KY PSE institution	Not retained at native institution	Number	153	328	481
		Percent retained	6.3%	4.2%	5
	Retained at native institution	Number	1,458	3,907	5,365
		Percent retained	59.9%	50.3%	53
Total		Number	2,433	7,775	10,208
			23.8%	76.2%	100

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

Eastern Kentucky University

			Number of subjects in which students were underprepared				
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	197	120	123	104	544
		Percent retained	18.0%	25.9%	37.2%	45.0%	26%
Retained at any KY PSE institution	Not retained at native institution	Number	76	52	30	20	178
		Percent retained	6.9%	11.2%	9.1%	8.7%	8%
	Retained at native institution	Number	823	292	178	107	1,400
		Percent retained	75.1%	62.9%	53.8%	46.3%	66%
Total	Number		1,096	464	331	231	2,122
			51.6%	21.9%	15.6%	10.9%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

Kentucky State University

			Number of subjects in which students were underprepared				
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	12	12	25	45	94
		Percent retained	34.3%	36.4%	37.9%	34.1%	35%
Retained at any KY PSE institution	Not retained at native institution	Number	1	2	4	4	11
		Percent retained	2.9%	6.1%	6.1%	3.0%	4%
	Retained at native institution	Number	22	19	37	83	161
		Percent retained	62.9%	57.6%	56.1%	62.9%	61%
Total	Number		35	33	66	132	266
			13.2%	12.4%	24.8%	49.6%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

Morehead State University

			Number of subjects in which students were underprepared				
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	90	98	67	81	336
		Percent retained	17.8%	27.1%	27.7%	33.2%	25%
Retained at any KY PSE institution	Not retained at native institution	Number	38	20	26	19	103
		Percent retained	7.5%	5.5%	10.7%	7.8%	8%
	Retained at native institution	Number	379	244	149	144	916
		Percent retained	74.8%	67.4%	61.6%	59.0%	68%
Total	Number		507	362	242	244	1,355
			37.4%	26.7%	17.9%	18.0%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

Murray State University

			Number of subjects in which students were underprepared				
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	186	85	59	37	367
		Percent retained	21.3%	29.6%	35.8%	36.6%	26%
Retained at any KY PSE institution	Not retained at native institution	Number	54	21	14	12	101
		Percent retained	6.2%	7.3%	8.5%	11.9%	7%
	Retained at native institution	Number	632	181	92	52	957
		Percent retained	72.5%	63.1%	55.8%	51.5%	67%
Total	Number		872	287	165	101	1,425
			61.2%	20.1%	11.6%	7.1%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

University of Kentucky

			Number of subjects in which students were underprepared				
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	332	62	25	4	423
		Percent retained	11.6%	16.8%	20.8%	25.0%	13%
Retained at any KY PSE institution	Not retained at native institution	Number	266	60	18	4	348
		Percent retained	9.3%	16.3%	15.0%	25.0%	10%
	Retained at native institution	Number	2,253	246	77	8	2,584
		Percent retained	79.0%	66.8%	64.2%	50.0%	77%
Total	Number		2,851	368	120	16	3,355
	Percent retained		85.0%	11.0%	3.6%	0.5%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

University of Louisville

			Number of subjects in which students were underprepared				
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	208	92	27	1	328
		Percent retained	13.3%	23.7%	27.8%	6.7%	16%
Retained at any KY PSE institution	Not retained at native institution	Number	117	36	8	1	162
		Percent retained	7.5%	9.3%	8.2%	6.7%	8%
	Retained at native institution	Number	1,238	260	62	13	1,573
		Percent retained	79.2%	67.0%	63.9%	86.7%	76%
Total	Number		1,563	388	97	15	2,063
			75.8%	18.8%	4.7%	0.7%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

Western Kentucky University

			Number of subjects in which students were underprepared				
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	206	148	103	123	580
		Percent retained	14.1%	25.1%	28.0%	31.4%	21%
Retained at any KY PSE institution	Not retained at native institution	Number	109	49	29	30	217
		Percent retained	7.5%	8.3%	7.9%	7.7%	8%
	Retained at native institution	Number	1,141	393	236	239	2,009
		Percent retained	78.4%	66.6%	64.1%	61.0%	72%
Total	Number		1,456	590	368	392	2,806
			51.9%	21.0%	13.1%	14.0%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

Northern Kentucky University			Number of subjects in which students were underprepared				
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	151	138	117	142	548
		Percent retained	22.7%	33.1%	37.9%	46.6%	32%
Retained at any KY PSE institution	Not retained at native institution	Number	30	25	20	11	86
		Percent retained	4.5%	6.0%	6.5%	3.6%	5%
	Retained at native institution	Number	483	254	172	152	1,061
		Percent retained	72.7%	60.9%	55.7%	49.8%	63%
Total		Number	664	417	309	305	1,695
			39.2%	24.6%	18.2%	18.0%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 12. Retention by Number of Subjects Underprepared

KCTCS

		Number of subjects in which students were underprepared					
			0	1	2	3	Total
Not retained in KY PSE system	Not retained at native institution	Number	750	1,055	1,167	1,178	4,150
		Percent retained	32.9%	41.3%	45.0%	50.1%	42%
Retained at any KY PSE institution	Not retained at native institution	Number	147	118	124	73	462
		Percent retained	6.4%	4.6%	4.8%	3.1%	5%
	Retained at native institution	Number	1,383	1,382	1,301	1,099	5,165
		Percent retained	60.7%	54.1%	50.2%	46.8%	53%
Total		Number	2,280	2,555	2,592	2,350	9,777
			23.3%	26.1%	26.5%	24.0%	100%

Note: Students who transfer to independent colleges and universities are included in the system-level transfer numbers.
Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

Eastern Kentucky University

			Underprepared in math	%
Not retained in KY PSE system				
Not retained at native institution				
Math Course				
Did not take subject			36	13.0%
Took at college level without remediation			2	0.7%
Took remedial course			238	86.2%
Subtotal			276	100.0%
Retained at any KY PSE institution				
Not retained at native institution				
Math Course				
Did not take subject			7	9.3%
Took at college level without remediation			1	1.3%
Took remedial course			67	89.3%
Subtotal			75	100.0%
Retained at native institution				
Math Course				
Did not take subject			7	1.6%
Took at college level without remediation			13	3.0%
Took remedial course			407	95.3%
Subtotal			427	100.0%
Total students underprepared in math				
Math Course				
Did not take subject			50	6.4%
Took at college level without remediation			16	2.1%
Took remedial course			712	91.5%
Total			778	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

Kentucky State University

			Underprepared in math	%
Not retained in KY PSE system	Not retained at native institution	Math Course		
		Did not take subject	12	16.2%
		Took at college level without remediation	2	2.7%
		Took remedial course	60	81.1%
		Subtotal	74	100.0%
Retained at any KY PSE institution	Not retained at native institution	Math Course		
		Took at college level without remediation	1	20.0%
		Took remedial course	4	80.0%
		Subtotal	5	100.0%
	Retained at native institution	Math Course		
	Did not take subject	17	11.3%	
	Took at college level without remediation	7	4.6%	
	Took remedial course	127	84.1%	
	Subtotal	151	100.0%	
Total students underprepared in math		Math Course		
		Did not take subject	29	12.6%
		Took at college level without remediation	10	4.3%
		Took remedial course	191	83.0%
		Total	230	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

Morehead State University

			Underprepared in math	%
Not retained in KY PSE system	Not retained at native institution	Math Course		
		Did not take subject	71	36.8%
		Took remedial course	122	63.2%
		Subtotal	193	100.0%
Retained at any KY PSE institution	Not retained at native institution	Math Course		
		Did not take subject	6	13.0%
		Took remedial course	40	87.0%
		Subtotal	46	100.0%
	Retained at native institution	Math Course		
		Did not take subject	18	4.4%
		Took at college level without remediation	3	0.7%
		Took remedial course	388	94.9%
		Subtotal	409	100.0%
Total students underprepared in math		Math Course		
		Did not take subject	95	14.7%
		Took at college level without remediation	3	0.5%
		Took remedial course	550	84.9%
		Total	648	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

Murray State University

			Underprepared in math	%
		Math Course		
Not retained in KY PSE system	Not retained at native institution	Did not take subject	33	33.7%
		Took at college level without remediation	11	11.2%
		Took remedial course	54	55.1%
		Subtotal	98	100.0%
		Math Course		
Retained at any KY PSE institution	Not retained at native institution	Did not take subject	3	10.7%
		Took at college level without remediation	1	3.6%
		Took remedial course	24	85.7%
		Subtotal	28	100.0%
		Math Course		
	Retained at native institution	Did not take subject	14	8.1%
		Took at college level without remediation	40	23.3%
		Took remedial course	118	68.6%
		Subtotal	172	100.0%
		Math Course		
Total students underprepared in math		Did not take subject	50	16.8%
		Took at college level without remediation	52	17.4%
		Took remedial course	196	65.8%
		Total	298	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

University of Kentucky

			Underprepared in math	%
Not retained in KY PSE system	Not retained at native institution	Math Course		
		Did not take subject	21	39.6%
		Took at college level without remediation	6	11.3%
		Took remedial course	26	49.1%
		Subtotal	53	100.0%
Retained at any KY PSE institution	Not retained at native institution	Math Course		
		Did not take subject	6	15.0%
		Took at college level without remediation	5	12.5%
		Took remedial course	29	72.5%
		Subtotal	40	100.0%
	Retained at native institution	Math Course		
Did not take subject		19	10.4%	
Took at college level without remediation		35	19.2%	
Took remedial course		128	70.3%	
Subtotal		182	100.0%	
Total students underprepared in math		Math Course		
		Did not take subject	46	16.7%
		Took at college level without remediation	46	16.7%
		Took remedial course	183	66.5%
		Total	275	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

University of Louisville

			Underprepared in math	%
Not retained in KY PSE system	Not retained at native institution	Math Course		30.3%
		Did not take subject	23	
		Took at college level without remediation	5	6.6%
		Took remedial course	48	63.2%
		Subtotal	76	100.0%
Retained at any KY PSE institution	Not retained at native institution	Math Course		14.8%
		Did not take subject	4	
		Took at college level without remediation	1	3.7%
		Took remedial course	22	81.5%
		Subtotal	27	100.0%
	Retained at native institution	Math Course		
		Did not take subject	14	7.4%
		Took at college level without remediation	7	3.7%
		Took remedial course	167	88.8%
		Subtotal	188	100.0%
Total students underprepared in math		Math Course		14.1%
		Did not take subject	41	
		Took at college level without remediation	13	4.5%
		Took remedial course	237	81.4%
		Total	291	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

Western Kentucky University

			Underprepared in math	%
Not retained in KY PSE system	Not retained at native institution	Math Course		
		Did not take subject	127	41.1%
		Took at college level without remediation	30	9.7%
		Took at college level with supplemental help	4	1.3%
		Took remedial course	148	47.9%
Subtotal			309	100.0%
Retained at any KY PSE institution	Not retained at native institution	Math Course		
		Did not take subject	11	13.6%
		Took at college level without remediation	5	6.2%
		Took remedial course	65	80.2%
		Subtotal	81	100.0%
	Retained at native institution	Math Course		
		Did not take subject	76	11.6%
		Took at college level without remediation	111	16.9%
		Took at college level with supplemental help	14	2.1%
		Took remedial course	455	69.4%
Subtotal			656	100.0%
Total students underprepared in math		Math Course		
		Did not take subject	214	20.5%
		Took at college level without remediation	146	14.0%
		Took at college level with supplemental help	18	1.7%
		Took remedial course	668	63.9%
	Total			1,046

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

Northern Kentucky University

			Underprepared in math	%
		Math Course		
Not retained in KY PSE system	Not retained at native institution	Did not take subject	127	37.4%
		Took at college level without remediation	11	3.2%
		Took remedial course	202	59.4%
		Subtotal	340	100.0%
		Math Course		
Retained at any KY PSE institution	Not retained at native institution	Did not take subject	9	25.7%
		Took remedial course	26	74.3%
		Subtotal	35	100.0%
		Math Course		
	Retained at native institution	Did not take subject	61	13.7%
		Took at college level without remediation	24	5.4%
		Took remedial course	359	80.9%
		Subtotal	444	100.0%
Total students underprepared in math		Math Course		
		Did not take subject	197	24.1%
		Took at college level without remediation	35	4.3%
		Took remedial course	587	71.7%
		Total	819	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 15. Students Underprepared in Math: Math Courses Taken by Retention Status

KCTCS			Underprepared in math	%
		Math Course		
Not retained in KY PSE system	Not retained at native institution	Did not take subject	1,388	50.5%
		Took at college level without remediation	131	4.8%
		Took remedial course	1,227	44.7%
		Subtotal	2,746	100.0%
Retained at any KY PSE institution	Not retained at native institution	Math Course		
		Did not take subject	84	34.6%
		Took at college level without remediation	11	4.5%
		Took remedial course	148	60.9%
		Subtotal	243	100.0%
	Retained at native institution	Math Course		
		Did not take subject	961	32.0%
		Took at college level without remediation	420	14.0%
		Took remedial course	1,620	54.0%
		Subtotal	3,001	100.0%
Total students underprepared in math		Math Course		
		Did not take subject	2,433	40.6%
		Took at college level without remediation	562	9.4%
		Took remedial course	2,995	50.0%
		Total	5,990	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

Eastern Kentucky University

			Underprepared in English	%
		English Course		
Not retained in KY PSE system	Not retained at native institution	Did not take subject	32	13.3%
		Took at college level without remediation	16	6.6%
		Took remedial course	193	80.1%
		Subtotal	241	100.0%
		English Course		
Retained at any KY PSE institution	Not retained at native institution	Did not take subject	8	13.8%
		Took at college level without remediation	8	13.8%
		Took remedial course	42	72.4%
		Subtotal	58	100.0%
		English Course		
	Retained at native institution	Did not take subject	6	1.9%
		Took at college level without remediation	47	14.6%
		Took remedial course	269	83.5%
		Subtotal	322	100.0%
Total students underprepared in English		English Course		
		Did not take subject	46	7.4%
		Took at college level without remediation	71	11.4%
		Took remedial course	504	81.2%
		Total	621	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

Kentucky State University

			Underprepared in English	%
Not retained in KY PSE system	Not retained at native institution	English Course		
		Did not take subject	4	5.3%
		Took at college level without remediation	13	17.3%
		Took remedial course	58	77.3%
		Subtotal	75	100.0%
Retained at any KY PSE institution	Not retained at native institution	English Course		
		Took remedial course	9	100.0%
		Subtotal	9	100.0%
	Retained at native institution	English Course		
		Did not take subject	7	5.1%
		Took at college level without remediation	20	14.5%
		Took remedial course	111	80.4%
		Subtotal	138	100.0%
Total students underprepared in English		English Course		
		Did not take subject	11	5.0%
		Took at college level without remediation	33	14.9%
		Took remedial course	178	80.2%
		Total	222	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

Morehead State University

			Underprepared in English	%
		English Course		
Not retained in KY PSE system	Not retained at native institution	Did not take subject	24	14.0%
		Took at college level without remediation	10	5.8%
		Took remedial course	137	80.1%
		Subtotal	171	100.0%
		English Course		
Retained at any KY PSE institution	Not retained at native institution	Did not take subject	8	17.8%
		Took at college level without remediation	2	4.4%
		Took remedial course	35	77.8%
		Subtotal	45	100.0%
		English Course		
	Retained at native institution	Did not take subject	7	2.1%
		Took at college level without remediation	13	3.9%
		Took remedial course	314	94.0%
		Subtotal	334	100.0%
Total students underprepared in English		English Course		
		Did not take subject	39	7.1%
		Took at college level without remediation	25	4.5%
		Took remedial course	486	88.4%
		Total	550	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

Murray State University

			Underprepared in English	%
Not retained in KY PSE system	Not retained at native institution	English Course		
		Did not take subject	35	24.5%
		Took at college level without remediation	58	40.6%
		Took remedial course	50	35.0%
		Subtotal	143	100.0%
Retained at any KY PSE institution	Not retained at native institution	English Course		
		Did not take subject	1	2.9%
		Took at college level without remediation	13	37.1%
		Took remedial course	21	60.0%
		Subtotal	35	100.0%
	Retained at native institution	English Course		
		Did not take subject	8	3.6%
		Took at college level without remediation	126	57.3%
		Took remedial course	86	39.1%
		Subtotal	220	100.0%
Total students underprepared in English		English Course		
		Did not take subject	44	11.1%
		Took at college level without remediation	197	49.5%
		Took remedial course	157	39.4%
		Total	398	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

University of Kentucky

			Underprepared in English	%
Not retained in KY PSE system	Not retained at native institution	English Course		
		Did not take subject	4	6.8%
		Took at college level without remediation	55	93.2%
		Subtotal	59	100.0%
Retained at any KY PSE institution	Not retained at native institution	English Course		
		Took at college level without remediation	31	96.9%
		Took remedial course	1	3.1%
		Subtotal	32	100.0%
	Retained at native institution	English Course		
		Did not take subject	3	2.2%
		Took at college level without remediation	133	97.8%
		Subtotal	136	100.0%
Total students underprepared in English		English Course		
		Did not take subject	7	3.1%
		Took at college level without remediation	219	96.5%
		Took remedial course	1	0.4%
		Total	227	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

University of Louisville

			Underprepared in English	%
Not retained in KY PSE system	Not retained at native institution	English Course		
		Did not take subject	15	34.9%
		Took at college level without remediation	28	65.1%
		Subtotal	43	100.0%
Retained at any KY PSE institution	Not retained at native institution	English Course		
		Did not take subject	2	13.3%
		Took at college level without remediation	13	86.7%
		Subtotal	15	100.0%
	Retained at native institution	English Course		
		Did not take subject	6	4.1%
		Took at college level without remediation	141	95.9%
		Subtotal	147	100.0%
Total students underprepared in English		English Course		
		Did not take subject	23	11.2%
		Took at college level without remediation	182	88.8%
		Total	205	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

Western Kentucky University

			Underprepared in English	%
Not retained in KY PSE system	Not retained at native institution	English Course		
		Did not take subject	70	29.9%
		Took at college level without remediation	14	6.0%
		Took at college level with supplemental help	40	17.1%
		Took remedial course	110	47.0%
		Subtotal	234	100.0%
Retained at any KY PSE institution	Not retained at native institution	English Course		
		Did not take subject	18	26.5%
		Took at college level without remediation	4	5.9%
		Took at college level with supplemental help	13	19.1%
		Took remedial course	33	48.5%
		Subtotal	68	100.0%
	Retained at native institution	English Course		
		Did not take subject	29	5.5%
		Took at college level without remediation	54	10.2%
		Took at college level with supplemental help	149	28.2%
		Took remedial course	297	56.1%
		Subtotal	529	100.0%
Total students underprepared in English		English Course		
		Did not take subject	117	14.1%
		Took at college level without remediation	72	8.7%
		Took at college level with supplemental help	202	24.3%
		Took remedial course	440	52.9%
		Total	831	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

Northern Kentucky University

			Underprepared in English	%
Not retained in KY PSE system	Not retained at native institution	English Course		
		Did not take subject	84	27.5%
		Took at college level without remediation	47	15.4%
		Took remedial course	174	57.0%
		Subtotal	305	100.0%
Retained at any KY PSE institution	Not retained at native institution	English Course		
		Did not take subject	5	13.9%
		Took at college level without remediation	7	19.4%
		Took remedial course	24	66.7%
		Subtotal	36	100.0%
	Retained at native institution	English Course		
		Did not take subject	30	7.1%
		Took at college level without remediation	133	31.6%
		Took remedial course	258	61.3%
		Subtotal	421	100.0%
Total students underprepared in English		English Course		
		Did not take subject	119	15.6%
		Took at college level without remediation	187	24.5%
		Took remedial course	456	59.8%
		Total	762	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 16. Students Underprepared in English: English Courses Taken by Retention Status

KCTCS			Underprepared in English	%
Not retained in KY PSE system	Not retained at native institution	English Course		
		Did not take subject	1,179	48.2%
		Took at college level without remediation	242	9.9%
		Took remedial course	1,026	41.9%
		Subtotal	2,447	100.0%
Retained at any KY PSE institution	Not retained at native institution	English Course		
		Did not take subject	64	30.0%
		Took at college level without remediation	64	30.0%
		Took remedial course	85	39.9%
		Subtotal	213	100.0%
	Retained at native institution	English Course		
		Did not take subject	642	25.2%
		Took at college level without remediation	541	21.2%
		Took remedial course	1,369	53.6%
		Subtotal	2,552	100.0%
Total students underprepared in English		English Course		
		Did not take subject	1,885	36.2%
		Took at college level without remediation	847	16.3%
		Took remedial course	2,480	47.6%
		Total	5,212	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

Eastern Kentucky University

			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	46	28.2%
		Took remedial course	117	71.8%
		Subtotal	163	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	7	17.9%
		Took remedial course	32	82.1%
		Subtotal	39	100.0%
	Retained at native institution	Reading Course		
		No remedial course	40	17.8%
		Took remedial course	185	82.2%
		Subtotal	225	100.0%
Total students underprepared in reading		Reading Course		
		No remedial course	93	21.8%
		Took remedial course	334	78.2%
		Total	427	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

Kentucky State University

			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	34	57.6%
		Took remedial course	25	42.4%
		Subtotal	59	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	3	37.5%
		Took remedial course	5	62.5%
		Subtotal	8	100.0%
	Retained at native institution	Reading Course		
		No remedial course	37	39.4%
		Took remedial course	57	60.6%
		Subtotal	94	100.0%
Total students underprepared in reading		Reading Course		
		No remedial course	74	46.0%
		Took remedial course	87	54.0%
		Total	161	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

Morehead State University

			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	28	22.8%
		Took remedial course	95	77.2%
		Subtotal	123	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	2	5.0%
		Took remedial course	38	95.0%
		Subtotal	40	100.0%
	Retained at native institution	Reading Course		
		No remedial course	9	3.8%
		Took remedial course	228	96.2%
		Subtotal	237	100.0%
Total students underprepared in reading		Reading Course		
		No remedial course	39	9.8%
		Took remedial course	361	90.3%
		Total	400	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

Murray State University

			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	42	56.8%
		Took remedial course	32	43.2%
		Subtotal	74	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	11	50.0%
		Took remedial course	11	50.0%
		Subtotal	22	100.0%
	Retained at native institution	Reading Course		
		No remedial course	54	41.9%
		Took remedial course	75	58.1%
		Subtotal	129	100.0%
Total students underprepared in reading		Reading Course		47.6%
		No remedial course	107	
		Took remedial course	118	52.4%
		Total	225	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status**University of Kentucky**

			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	24	100.0%
		Subtotal	24	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	36	100.0%
		Subtotal	36	100.0%
	Retained at native institution	Reading Course		
		No remedial course	125	100.0%
		Subtotal	125	100.0%
Total students underprepared in reading		Reading Course		
		No remedial course	185	100.0%
		Total	185	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

University of Louisville

			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	25	65.8%
		Took remedial course	13	34.2%
		Subtotal	38	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	9	64.3%
		Took remedial course	5	35.7%
		Subtotal	14	100.0%
	Retained at native institution	Reading Course		
No remedial course		71	67.6%	
Took remedial course		34	32.4%	
Subtotal		105	100.0%	
Total students underprepared in reading		Reading Course		
		No remedial course	105	66.9%
		Took remedial course	52	33.1%
		Total	157	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

Western Kentucky University

			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	73	37.6%
		Took remedial course	121	62.4%
		Subtotal	194	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	13	24.5%
		Took remedial course	40	75.5%
		Subtotal	53	100.0%
	Retained at native institution	Reading Course		
		No remedial course	75	17.2%
		Took remedial course	362	82.8%
		Subtotal	437	100.0%
Total students underprepared in reading		Reading Course		
		No remedial course	161	23.5%
		Took remedial course	523	76.5%
		Total	684	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

Northern Kentucky University

			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	84	41.0%
		Took remedial course	121	59.0%
		Subtotal	205	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	12	42.9%
		Took remedial course	16	57.1%
		Subtotal	28	100.0%
	Retained at native institution	Reading Course		
		No remedial course	73	26.3%
		Took remedial course	205	73.7%
		Subtotal	278	100.0%
Total students underprepared in reading		Reading Course		
		No remedial course	169	33.1%
		Took remedial course	342	66.9%
		Total	511	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Table 17. Students Underprepared in Reading: Remedial Reading Courses Taken by Retention Status

KCTCS			Underprepared in reading	%
Not retained in KY PSE system	Not retained at native institution	Reading Course		
		No remedial course	1,350	70.5%
		Took remedial course	566	29.5%
		Subtotal	1,916	100.0%
Retained at any KY PSE institution	Not retained at native institution	Reading Course		
		No remedial course	108	75.0%
		Took remedial course	36	25.0%
		Subtotal	144	100.0%
	Retained at native institution	Reading Course		
		No remedial course	1,207	64.1%
		Took remedial course	677	35.9%
		Subtotal	1,884	100.0%
Total students underprepared in reading		Reading Course		
		No remedial course	2,665	67.6%
		Took remedial course	1,279	32.4%
		Total	3,944	100.0%

Note: Categories reflect courses taken as of a student's last semester of enrollment within their first two years. 'Took college level' categories do not include students who withdrew. Remedial courses taken at KCTCS included in remedial course total.

Note: On-campus placement exam results for students placing out of remediation were not collected from the four-year sector, so this table may overestimate the number of students who were underprepared and not remediated at four-year institutions.

Council on Postsecondary Education, Mandatory Placement Report, November 2, 2005

Appendix 2. Assessment Crosswalk for Mandatory Placement Policy

Mathematics Assessment

ACT	SAT (1)	Asset Elementary Algebra (2)	Asset Intermediate Algebra (2)	Asset Numerical Skills (2)	Compass Algebra (2)	Compass Pre-Algebra (2)	Compass College Algebra (no information available)	Compass Trigonometry (no information available)	Accuplacer Elementary Algebra
20 or higher	480 or higher	45-55	40-55		48-100				
19	460-470	43-44	39		41-47				
18	430-450	41-42	38		35-40				
Below 18	420 and below	39-40	36-37		30-34				50 or below
		23-38	23-35		16-29				
Developmental Placement				42-55		41-100			
				29-41		17-40			
				23-28					

Reading Assessment

ACT	SAT (1)	Asset Reading	Compass Reading	Accuplacer Reading
18 or above		42-55	81-100	61 or above
Below 18	none	38-41	70-80	
Developmental Placement	none	34-37	51-69	
	none	23-33	44-50	

Writing Assessment

ACT	SAT (1)	Asset Writing Skills (2)	Compass (2)	Accuplacer Sentence Skills
18 or Above	450 and above	41-54	70-100	62 or above
Below 18	440 and below	35-40	38-69	51-61
Developmental Placement		23-34	21-37	
			14-20	

(1) From ACT, Inc.

(2) From KCTCS Assessment and Placement Policy.

(3) From WKU Assessment and Placement Policy.