



Report to the LPC Basic Skills Committee Office of Institutional Research and Planning Amber Machamer and Nicole Holthuis November 11, 2009







- 1. Placement Trends over Time (1998 2008)
- 2. Placement Trends with Demographics
- 3. "Time to Take": Enrollment and Success Rates
- 4. Who are the "Technically Un-assessed"
- 5. Potential vs Actual Enrollment

* Please see last slides for wrap up of dialogue that followed and next Steps









Math Placement Trends Over Time: Highlights

Methodology: Focused on placement of selfreported "new" students at LPC from 1998 to 2008 who assessed between the expected window of March to August prior to their Fall enrollment.

- From 1998 to 2008, placement into Math 107 declined from 20% to 5%
- Placement into Math 55 has increased from 15% to 21%
- Percentage of students placed into Math 65 has not significantly changed over the 10 year period
- This shift is most dramatic starting in 2005

Math Placement Trends Over Time







English Placement Trends Over Time: Highlights

- Percentage of students placed into English 100/104 has increased over time from 38% to 46% (in contrast to math, where placement in Math 107 decreased over time)
- Percentage of students placed into English 1A has decreased from 27% to 19% (also in contrast to math)
- Again, a significant shift occurred in 2005









Math Placement Demographics 98 - 08: Highlights Methodology: Analysis of the same 98 to 08 placement

data of new students by gender and race. No significant changes over time in placement by gender and race so the 10 years were collapsed.

- Gender: Enrollment at LPC is essentially 50:50 males to females. However, we see significant gender differences in placement into:
 - college level and math 55; males higher than expected
 - math 107; females higher than expected

Ethnicity:

- Hispanics are "under-placed" into college level math while whites and Asians are "over-placed."
- Hispanic students are more likely to not assess
- African-Americans and Hispanics are "over-placed" in math 107.



Math Placement by Gender



Math Placement by Race/Ethnicity

English Placement Demographics 98 - 08: Highlights

- Gender
 - Eng placement is roughly proportional by gender except for ESL where females are "over-placed"
- Ethnicity
 - White students are "over-placed" into 1A.
 - African-American students "over-placed" into Learning Skills
 - Placement into 100A/104 is roughly equitable
 - Majority of ESL students are Asian and Hispanic
 - As with Math, Hispanic students are less likely to get assessed.

English Placement by Gender

English Pacement by Gender

English Placement by Ethnicity

Math: "Time to Take" Enrollments Highlights

Methodology: Followed 4 cohorts of students (F03 to F08), their placement, and subsequent math enrollment/success in said course

•The vast majority of students who are placed take the recommended course within 2 semesters

This is true for all levels

•If they did not take the first year they are highly unlikely to take it

•This is NOT true for those who did not assess in the expected pattern

Math: "Time to Take" Success Rates Highlights

- There is little relationship between how soon they took the course and success
- Partly due to lack of variability in time to take
- Variations in success rates in the later 4 semesters are due to very small numbers in those semesters (outliers)

Math: "Time to Take" Enrollment

Math: "Time to Take" Success

English "Time to Take": Highlights

- Eng time to take shows the same pattern as math
- Most take the recommended course in 1st semester, although 2nd and 3rd semesters slightly higher than math
- Basic skills seems to have a slightly longer "time to take," with 20% taking it in the 2nd semester
- Possible concerns over availability of 100A/104
- Those who did not assess in expected pattern show poor rates of course taking

English "Time to Take": Highlights

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English: "Time to Take" Enrollment

English: "Time to Take" Success

A

Math: How many never take?

		TOTAL	N	%
	College Level: Trig or above	1046	101	10%
ssessed	55/55A Intermediate Algebra	918	101	11%
	65/65A Elementary Algebra	1191	183	15%
	106/107	851	207	24%
	Total	4005	592	15%
ot Placed/Assessed		2069	1381	67%

•Students who place in lower levels of math are more likely to never take a math course even when assessed

•Students who do not assess in expected pattern are unlikely to ever take a math course

English: How many never take?

		TOTAL	N	%
Assessed into	Eng 1A	1589	173	11%
	Eng 100A/104	2407	618	26%
	Total	3996	791	20%
Not Placed/Assessed		1888	1385	73%

•Students who place in lower levels of Eng are more likely to never take an Eng course even when assessed

•Students who do not assess in expected pattern are unlikely to even take an Eng course

Unpacking the Un-assessed

- If Assessment becomes mandatory, capacity would need to increase.
- But by how much?
- Who would we "catch"?
- Would assessment add to their educational outcomes?

Math: Unpacking the Un-assessed

Methodology: Zoom in on 2005 cohort of "new" students who didn't assess in the expected pattern (i.e., between 3/05 and 8/05).

Assessed prior to 3/05	102	18%
Assessed after 8/05	103	18%
Really never assessed	370	64%
Total	575	

Math: Unpacking the Un-assessed: Who are the students who took the test before our expected test dates?

- Majority have an ed goal of BA or AA
- Many were previously enrolled as concurrent students (then became "new")
- More females (58%) than males (42%) took the test *before* the expected window.
- 80% took a math class at some point at LPC
- 83% were stilled enrolled at LPC in the Fall of 2006 or beyond

Math: Unpacking the Un-assessed: Who are the students who took the test after our expected test dates?

- Majority have an ed goal of BA or AA
- More males (58%) than females (42%) took the test after the expected window.
- Of the students who took test after the expected window, 70% took a math class at some point at LPC
- 83% were still enrolled at LPC in Fall 2006 or beyond

Math: Unpacking the Unassessed: Who are the students who never took the test (are truly unassessed)?

- A mixed bag of ed goals: career/job, personal growth, certificates, and a few BA/AAs.
- Slightly more females (53%) than males (47%) were never placed
- 85% never take a math class
- 42% were not enrolled at LPC after Fall 2005
- 58% were not enrolled at LPC after Spring 06
- 25% were enrolled solely or primarily in ESL and/or PE courses

Math: Unpacking the Un-assessed: Who are the students who never took the test (are truly un-assessed)?

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English: Unpacking the Un-assessed

Zoom in on 2005 cohort of "new" students who didn't assess in the expected pattern (i.e., between 3/05 and 8/05)

Assessed prior to 3/05	95	18%
Assessed after 8/05	96	18%
Really never assessed	340	64%
Total	531	

English: Unpacking the Un-assessed: Who are the students who took the test before our expected test dates?

- Majority have an ed goal of BA or AA
- Many were previously enrolled as concurrent students (then became "new")
- As with math, more females (56%) than males (44%) took the test *before* the expected window.
- 82% took an English class at some point at LPC
- 80% were stilled enrolled at LPC in Fall 2006 or beyond

English: Unpacking the Un-assessed: Who are the students who took the test after our expected test dates?

- Majority have an ed goal of BA or AA
- As with math, more males (54%) than females (46%) took the test *after* the expected window.
- 65% took an English class at some point at LPC
- 85% were still enrolled at LPC in Fall 2006 or beyond

English: Unpacking the Un-assessed: Who are the students who never took the test (the truly un-assessed)?

- A more mixed bag of ed goals than assessed students but majority are undecided/unknown or BA/AAs.
- Slightly more females (53%) than males (47%) were never placed
- 86% never take an English class
- 41% were not enrolled at LPC after Fall 2005
- 54% were not enrolled at LPC after Spring 2006
- 22% were enrolled solely or primarily in ESL and/or PE courses

Unpacking the Un-assessed: Who are the students who never took the test (the truly un-assessed)?

- A good portion would likely be exempted from mandatory assessment (Personal development, non –degree seeking)
- A good portion are ESL
- As a group they have lower enrollment and persistence (chicken and egg)
- Would the act of assessment cause these students to enroll and persist? Would other or additional interventions be needed?

Math: Potential vs Actual Enrollment

New and continuing students in Fall 2008 who potentially could enroll (i.e., took pre-reqs or were placed) in 107, 65 or 55 versus actual enrollment numbers.

•							
I	How many students "need" or c take Math 106/107?		need" or could How many students "need" /107? could take Math 65?		d" or	r How many students "need" or could take Math 55?	
l	New	Assessed into 106/107 Basic	87	Assessed into 65 (Beg Algebra)	416	Assessed into 55 (Int. Algebra)	384
l	Students	Not assessed, degree-seeking	432				
		Assessed into 107 Basic Math AND haven't successfully		Assessed into 65 AND haven't successfully		Assessed into 55 AND haven't successfully	
L	Continuing	completed any Math 107	217	completed any Math 65	377	completed any Math 55	278
	Students	Not assessed, degree-seeking		Assessed into 106/107 Basic Math AND have		Assessed into 106/107 or 65 AND have successfully completed	
L		at LPC	901	105/106/107 at LPC	123	65, 65B, or 65Y at LPC	340
				Not assessed, degree- seeking AND have successfully completed 105/106/107 at LPC	19	Not assessed, degree- seeking AND have successfully completed 65, 65B, or 65Y at LPC	44
		TOTAL	1637		935		1046
		ACTUAL ENROLMENT	211*		671		750
		Math 107 Fill Rate	82%				

Math: Potential vs Actual Enrollment

This analysis has many limitations

•While the difference between "need" and "seats" is high for Math 107, given the fill rate and the fact that un-assessed do not take math, it's not likely that more math 107 seats are needed

•With Math 55/65 the "need to seats" ration is smaller the high fills rates suggest more courses could be offered

 Knowing what we know about the "un-assessed" what affect would mandatory assessment have on math demand?

English: Potential vs Actual Enrollment

New and continuing students in Fall 2008 who potentially could enroll (i.e., took pre-reqs or were placed into it) 100/104 or 1A versus actual enrollment numbers.

1 All	How many students "need" or co English 100/104	ould take	How many students "need" of take English 1A?	"need" or could h 1A?		
New Students	Assessed into 100/104 Basic	814				
	Not assessed, degree-seeking	405	Assessed into 1A	344		
	Assessed into 100/104 Basic Skills AND haven't successfully completed either.	666	Assessed into 1A and haven't successfully completed 1A	370		
Continuing Students	Not assessed, degree-seeking AND haven't taken prior English at LPC	961	Assessed into 100/104 or below AND have successfully completed 100B or 104 at LPC	359		
			Not assessed, degree-seeking AND have taken100B or 104 at LPC	19		
	TOTAL	2846		1092		
East	ACTUAL ENROLMENT	694		724		
	Fill Rate	93%		100%		

English: Potential vs Actual Enrollment

- This analysis has many limitations
- Data suggests that current "need" is beyond our capacity to accommodate
- Knowing what we know about the "un-assessed" what affect would mandatory assessment have on Eng demand?

Can we accommodate any increased demand?

- What surprised you?
- What did you already know?
- What more would you need to know?
- What operational and logistic considerations do we need to examine?
- What concerns do you have?

At least 14 people attended this meeting (faculty, classified and administrators)

- **Data Needs:**
 - On the "who could take" analysis
 - Make sure we included 107x/y in actual enrollments
 - Double check to see if enrollments are total enrollments or just degree seeking
 - Does this include W/F's? If not please add
 - *Slides 34 and 36 now contain these changes

- **Data Needs:**
 - Would like to see analysis on Repeaters and their success in Eng and Math
 - Need to add in Fall 2009 placement data when 09 file is ready
 - Need to run data on Orientation. # who take it and # of new students who do not. Then compare it to our capacity. Need to do some more fact finding about orientation to complete impact report

- Other data the group would like to see at some point but is not front burner
 - Math/Eng course sequencing data
 - Repeater Analysis
 - Success Rates
 - Course Combo data (Eng and Math with GE courses)

Results of Dialogue

- Data shows that we are doing a good job at placing most students
- Mandated assessment does not appear that it would increase demand or strain capacity of the assessment center
- Data shows that most students do attempt Eng/Math in first one or two semesters

Results of Dialogue

- The additional students we would "catch" with mandatory assessment would likely start at the bottom of the sequences
- The academic progress of these students is not likely to be improved with mandatory placement.

If we did place more students and push to have them take Eng/Math sooner we would increase our capacity issues for those courses. Math and Eng basic skills courses have very high fill rates.

 Efficacy of the test and Placement was a major area of concern

- **Efficacy of the test and Placement**
 - Transparency to students
 - Students don't understand what they are doing when they assess
 - We could do a better job at prepping students for their assessment tests.
 - Ideas to improve transparency include: an assessment website with an explanation of the test, it's importance, sample questions, FAQ's

Efficacy of the test and Placement

Does the test really place for our curriculum?

- There was dialogue about the Accuplacer test and out curriculum as well as lack of alignment of high school curriculum and college curriculum (mainly in Eng)
- We have a reading test but the curriculum is writing
- It was also noted that some students who would be better placed into ESL are sometimes placed into ENG 100A/104 (Generation 1.5)

ESL and LRNS (Learning Skills)

- Dialogue focused on the efficacy of placement for students who are recommended to take the ESL or LRNS tests
- The test might not identify these students.
- If assessment is made mandatory these are likely the additional students we would "catch".
- If we have more of these students do we have the capacity and curriculum, programs, services for them?