INTERIM CUT SCORE SETTING FOR THE POSTSECONDARY EDUCATION READINESS TEST

This document explains the process used to set the interim cut scores for Florida's Postsecondary Education Readiness Test (PERT).

GOAL

The expressed goal for the interim cut scores was to match the current distribution of placements based on CPT results. To do this, the Division of Florida Colleges (Division) used data from 2006-07, 2007-08, and 2008-09 to determine the percentage of students placed into various developmental and introductory courses based on their CPT results. These distributions were then matched to the expected distributions of the PERT placement test to create interim cut scores that mirror the current placement rates.

METHODOLOGY

The process for establishing the CPT score distributions was:

1. Select all students coded as First-time in College (FTIC) in the student database. From this set, remove:
   a. Any student with a course record in the prior year
   b. Any student taking a dual enrollment course in the current year
2. Select all CPT scores by subject (Math, Reading, and Writing).
3. Match students to test scores and keep only students with a CPT score. This defines the cohort of FTIC students using a CPT score for placement.
4. Identify each student as "**College Ready**" and "**Not College Ready**" based on the minimum CPT scores identified in 6A-10.015, FAC.
5. Match all students to course records and select all reading, writing, and math courses.
6. Use the first course taken to determine actual placement within the "college ready" and "not college ready" groupings. The student's CPT test score places him/her into a classification of "ready" or "not ready" and the first course taken determines the student's placement within that category. For example, if a student scores "not ready" and the first math course was MAT 0012 then the student is considered to be in Lower Level Developmental Education for math. This is necessary because placement with developmental education and for College Algebra or higher is not standard across institutions. *If the student took a course that was outside that group or did not take any course in that subject area, the student was removed from the calculation of the distribution since the actual placement level was unknown.*

MATHEMATICS RESULTS

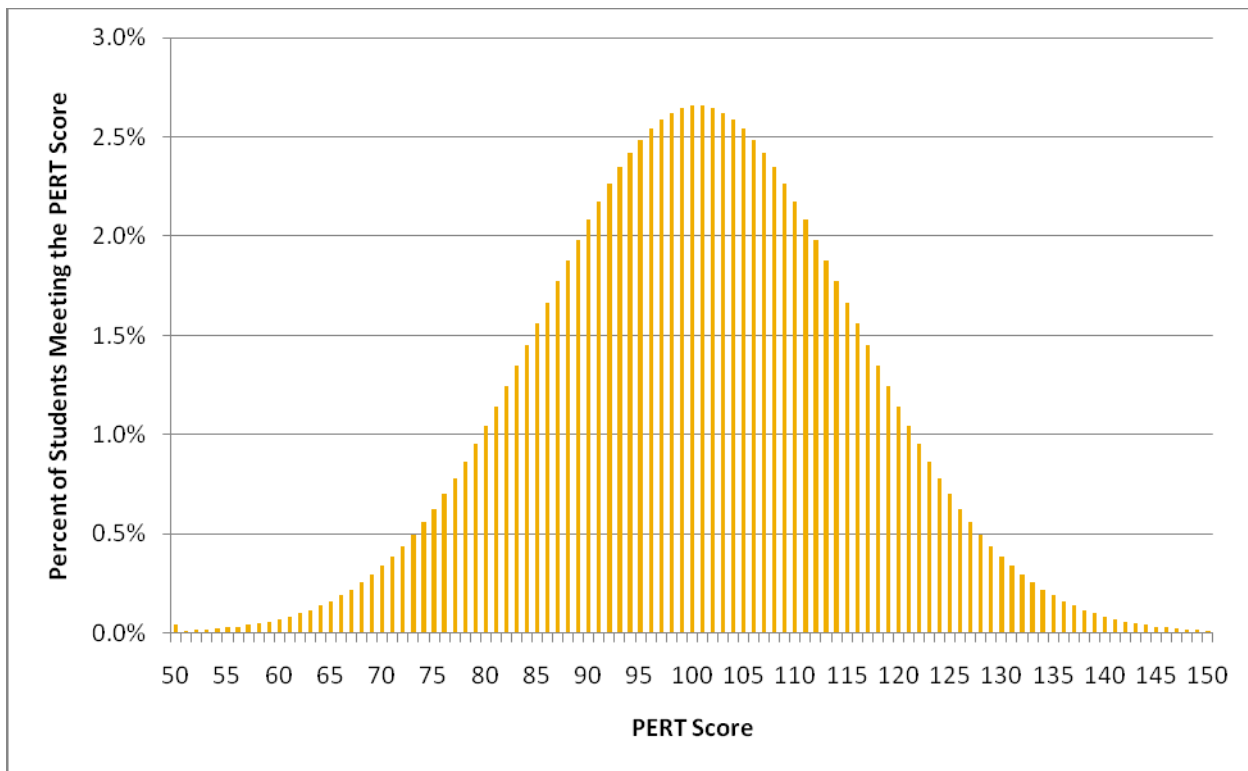The following courses were used to identify placement levels.

- **Advanced Math =** MAC1114, MAC1140, MAC1147, MAC2233, MAC2311, and MAC2312
- **College Algebra or Equiv =** MAC1105, MGF1106, and STA2023
- **Intermediate Algebra =** MAT1033
- **College Ready (No Course Data) =** CPT score >71 and no math course MAT1033 or higher
- **Upper Level Dev Ed =** MAT0020 and MAT0024
- **Lower Level Dev Ed =** MAT0002 and MAT0012
- **Not College Ready (No Course Data) =** CPT score < 72 and no math course below MAT1033

Students who did not have course data were included in determining the overall percentage considered college ready and not college ready, but were excluded when determining the placement within those groupings.

This process yielded the following distribution of placements.

Math Placement Level	3-Year Average Percent of Students
Advanced Math	0.5%
College Algebra or Equiv	6.1%
Intermediate Algebra	13.9%
Upper Level Dev Ed	40.6%
Lower Level Dev Ed	38.9%

These distributions were then matched by McCann to the expected distribution of scores for the PERT. For each test, the scale was set to range from 50 – 150 with a mean of 100 and a standard deviation of 15. This means that <u>all three tests have the same expected distribution of scores</u> and that the distribution will conform to a normal bell shaped curve, as shown below.

By using the test's distribution, the Division and McCann selected the cut point that most closely corresponded to the cumulative percent of students placed into a given course level. When the three-year average fell between two cut points, the Division chose to use the lower of the two scores. Given the small percentage of students placed above college algebra using the CPT, the Division decided not to set a cut score at that level.

Math Placement Level	3-Year Average Percent of Students	Cut Score Range	Expected Percent at Placement
Advanced Math	0.5%	NA	-
College Algebra or Equiv	6.1%	123-150	7.1%
Intermediate Algebra	13.9%	113-122	14.1%
Upper Level Dev Ed	40.6%	96-112	41.9%
Lower Level Dev Ed	38.9%	50-95	36.9%

The complete score distribution and placement levels can be found in the Appendix.

READING RESULTS

The following courses were used to identify placement levels.

- **College Ready =** CPT > 82 (did not check for course enrollments since ENC 1101 is the primary entry level course)
- **Upper Level Dev Ed =** REA002, REA003, REA004, REA004, REA006, REA008, REA0010
- **Lower Level Dev Ed =** REA001
- **Not College Ready (No Course Data) =** CPT < 83 and no course below ENC1101

Students who did not have course data were included in determining the overall percentage considered college ready and not college ready, but were excluded when determining the placement within those groupings.

This process yielded the following distribution of placements.

Reading Placement Level	3-Year Average Percent of Students
College Ready (ENC 1101)	40.5%
Upper Level Dev Ed	46.3%
Lower Level Dev Ed	13.2%

These distributions were then matched by McCann to the expected distribution of scores for the PERT. For each test, the scale was set to range from 50 – 150 with a mean of 100 and a standard deviation of 15. This means that all three tests have the same distribution of scores and that the distribution will conform to a normal bell shaped curve as shown above.

By using the test's distribution, the Division and McCann selected the cut point that most closely corresponded to the cumulative percent of students placed into a given course level. When the three-year average fell between two cut points, the Division chose to use the lower of the two scores.

Reading Placement Level	3-Year Average Percent of Students	Cut Score Range	Expected Percent at Placement
College Ready (ENC 1101)	40.5%	104-150	42.0%
Upper Level Dev Ed	46.3%	84-103	45.1%
Lower Level Dev Ed	13.2%	50-83	12.9%

The complete score distribution and placement levels can be found in the Appendix.

WRITING RESULTS

The following courses were used to identify placement levels.

- **College Ready =** CPT > 82 (did not need to check for course enrollments)
- **Upper Level Dev Ed =** ENC0020, ENC0021, ENC0030, and ENC0080
- **Lower Level Dev Ed =** ENC0001, ENC0002, ENC0004, ENC0010, ENC0011, and ENC0012
- **Not College Ready (No Course Data) =** CPT < 83 and no course below ENC1101

Students who did not have course data were included in determining the overall percentage considered college ready and not college ready but were excluding when determining the placement within those categories.

This process yielded the following distribution of placements.

Writing Placement Level	3-Year Average Percent of Students
College Ready (ENC 1101)	54.9%
Upper Level Dev Ed	20.4%
Lower Level Dev Ed	24.7%

These distributions were then matched by McCann to the expected distribution of scores for the PERT. For each test, the scale was set to range from 50 – 150 with a mean of 100 and a standard deviation of 15. This means that all three tests have the same distribution of scores and that the distribution will conform to a normal bell shaped curve as shown above.

By using the test's distribution, the Division and McCann selected the cut point that most closely corresponded to the cumulative percent of students placed into a given course level. When the three-year average fell between two cut points, the Division chose to use the lower of the two scores.

Writing Placement Level	3-Year Average Percent of Students	Cut Score Range	Expected Percent at Placement
College Ready (ENC 1101)	54.9%	99-150	55.3%
Upper Level Dev Ed	20.4%	90-98	21.5%
Lower Level Dev Ed	24.7%	50-89	23.2%

The complete score distribution and placement levels can be found in the Appendix.

FOR MORE INFORMATION

For more information please contact:

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Appendix - PERT Math Placement Distribution

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
50	0.0429%	0.0429%	Lower Level Dev Ed		
51	0.0544%	0.0115%	Lower Level Dev Ed		
52	0.0687%	0.0143%	Lower Level Dev Ed		
53	0.0864%	0.0177%	Lower Level Dev Ed		
54	0.1082%	0.0218%	Lower Level Dev Ed		
55	0.1350%	0.0268%	Lower Level Dev Ed		
56	0.1677%	0.0327%	Lower Level Dev Ed		
57	0.2074%	0.0397%	Lower Level Dev Ed		
58	0.2555%	0.0481%	Lower Level Dev Ed		
59	0.3135%	0.0580%	Lower Level Dev Ed		
60	0.3830%	0.0696%	Lower Level Dev Ed		
61	0.4661%	0.0831%	Lower Level Dev Ed		
62	0.5649%	0.0988%	Lower Level Dev Ed		
63	0.6819%	0.1170%	Lower Level Dev Ed		
64	0.8198%	0.1379%	Lower Level Dev Ed		
65	0.9815%	0.1618%	Lower Level Dev Ed		
66	1.1705%	0.1890%	Lower Level Dev Ed		
67	1.3903%	0.2198%	Lower Level Dev Ed		
68	1.6449%	0.2545%	Lower Level Dev Ed		
69	1.9383%	0.2934%	Lower Level Dev Ed		
70	2.2750%	0.3367%	Lower Level Dev Ed		
71	2.6598%	0.3847%	Lower Level Dev Ed		
72	3.0974%	0.4377%	Lower Level Dev Ed		
73	3.5930%	0.4956%	Lower Level Dev Ed		
74	4.1518%	0.5588%	Lower Level Dev Ed		
75	4.7790%	0.6272%	Lower Level Dev Ed		
76	5.4799%	0.7009%	Lower Level Dev Ed		
77	6.2597%	0.7798%	Lower Level Dev Ed		
78	7.1233%	0.8637%	Lower Level Dev Ed		
79	8.0757%	0.9523%	Lower Level Dev Ed		
80	9.1211%	1.0455%	Lower Level Dev Ed		
81	10.2637%	1.1426%	Lower Level Dev Ed		
82	11.5070%	1.2432%	Lower Level Dev Ed		
83	12.8537%	1.3467%	Lower Level Dev Ed		
84	14.3061%	1.4524%	Lower Level Dev Ed		
85	15.8655%	1.5594%	Lower Level Dev Ed		

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
86	17.5324%	1.6669%	Lower Level Dev Ed		
87	19.3062%	1.7738%	Lower Level Dev Ed		
88	21.1855%	1.8793%	Lower Level Dev Ed		
89	23.1678%	1.9822%	Lower Level Dev Ed		
90	25.2493%	2.0815%	Lower Level Dev Ed		
91	27.4253%	2.1761%	Lower Level Dev Ed		
92	29.6901%	2.2648%	Lower Level Dev Ed		
93	32.0369%	2.3468%	Lower Level Dev Ed		
94	34.4578%	2.4209%	Lower Level Dev Ed		
95	36.9441%	2.4863%	Lower Level Dev Ed	38.90%	36.9441%
96	39.4863%	2.5422%	Upper Level Dev Ed		
97	42.0740%	2.5877%	Upper Level Dev Ed		
98	44.6965%	2.6225%	Upper Level Dev Ed		
99	47.3424%	2.6459%	Upper Level Dev Ed		
100	50.0000%	2.6576%	Upper Level Dev Ed		
101	52.6576%	2.6576%	Upper Level Dev Ed		
102	55.3035%	2.6459%	Upper Level Dev Ed		
103	57.9260%	2.6225%	Upper Level Dev Ed		
104	60.5137%	2.5877%	Upper Level Dev Ed		
105	63.0559%	2.5422%	Upper Level Dev Ed		
106	65.5422%	2.4863%	Upper Level Dev Ed		
107	67.9631%	2.4209%	Upper Level Dev Ed		
108	70.3099%	2.3468%	Upper Level Dev Ed		
109	72.5747%	2.2648%	Upper Level Dev Ed		
110	74.7507%	2.1761%	Upper Level Dev Ed		
111	76.8322%	2.0815%	Upper Level Dev Ed		
112	78.8145%	1.9822%	Upper Level Dev Ed	40.60%	41.8703%
113	80.6938%	1.8793%	MAT 1033		
114	82.4676%	1.7738%	MAT 1033		
115	84.1345%	1.6669%	MAT 1033		
116	85.6939%	1.5594%	MAT 1033		
117	87.1463%	1.4524%	MAT 1033		
118	88.4930%	1.3467%	MAT 1033		
119	89.7363%	1.2432%	MAT 1033		
120	90.8789%	1.1426%	MAT 1033		
121	91.9243%	1.0455%	MAT 1033		
122	92.8767%	0.9523%	MAT 1033	13.90%	14.0622%

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
123	93.7403%	0.8637%	MAC 1105 or Higher		
124	94.5201%	0.7798%	MAC 1105 or Higher		
125	95.2210%	0.7009%	MAC 1105 or Higher		
126	95.8482%	0.6272%	MAC 1105 or Higher		
127	96.4070%	0.5588%	MAC 1105 or Higher		
128	96.9026%	0.4956%	MAC 1105 or Higher		
129	97.3402%	0.4377%	MAC 1105 or Higher		
130	97.7250%	0.3847%	MAC 1105 or Higher		
131	98.0617%	0.3367%	MAC 1105 or Higher		
132	98.3551%	0.2934%	MAC 1105 or Higher		
133	98.6097%	0.2545%	MAC 1105 or Higher		
134	98.8295%	0.2198%	MAC 1105 or Higher		
135	99.0185%	0.1890%	MAC 1105 or Higher		
136	99.1802%	0.1618%	MAC 1105 or Higher		
137	99.3181%	0.1379%	MAC 1105 or Higher		
138	99.4351%	0.1170%	MAC 1105 or Higher		
139	99.5339%	0.0988%	MAC 1105 or Higher		
140	99.6170%	0.0831%	MAC 1105 or Higher		
141	99.6865%	0.0696%	MAC 1105 or Higher		
142	99.7445%	0.0580%	MAC 1105 or Higher		
143	99.7926%	0.0481%	MAC 1105 or Higher		
144	99.8323%	0.0397%	MAC 1105 or Higher		
145	99.8650%	0.0327%	MAC 1105 or Higher		
146	99.8918%	0.0268%	MAC 1105 or Higher		
147	99.9136%	0.0218%	MAC 1105 or Higher		
148	99.9313%	0.0177%	MAC 1105 or Higher		
149	99.9456%	0.0143%	MAC 1105 or Higher		
150	99.9571%	0.0115%	MAC 1105 or Higher	6.60%	7.0804%

Appendix - PERT Reading Placement Distribution

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
50	0.0429%	0.0429%	Lower Level Dev Ed		
51	0.0544%	0.0115%	Lower Level Dev Ed		
52	0.0687%	0.0143%	Lower Level Dev Ed		
53	0.0864%	0.0177%	Lower Level Dev Ed		
54	0.1082%	0.0218%	Lower Level Dev Ed		
55	0.1350%	0.0268%	Lower Level Dev Ed		
56	0.1677%	0.0327%	Lower Level Dev Ed		
57	0.2074%	0.0397%	Lower Level Dev Ed		
58	0.2555%	0.0481%	Lower Level Dev Ed		
59	0.3135%	0.0580%	Lower Level Dev Ed		
60	0.3830%	0.0696%	Lower Level Dev Ed		
61	0.4661%	0.0831%	Lower Level Dev Ed		
62	0.5649%	0.0988%	Lower Level Dev Ed		
63	0.6819%	0.1170%	Lower Level Dev Ed		
64	0.8198%	0.1379%	Lower Level Dev Ed		
65	0.9815%	0.1618%	Lower Level Dev Ed		
66	1.1705%	0.1890%	Lower Level Dev Ed		
67	1.3903%	0.2198%	Lower Level Dev Ed		
68	1.6449%	0.2545%	Lower Level Dev Ed		
69	1.9383%	0.2934%	Lower Level Dev Ed		
70	2.2750%	0.3367%	Lower Level Dev Ed		
71	2.6598%	0.3847%	Lower Level Dev Ed		
72	3.0974%	0.4377%	Lower Level Dev Ed		
73	3.5930%	0.4956%	Lower Level Dev Ed		
74	4.1518%	0.5588%	Lower Level Dev Ed		
75	4.7790%	0.6272%	Lower Level Dev Ed		
76	5.4799%	0.7009%	Lower Level Dev Ed		
77	6.2597%	0.7798%	Lower Level Dev Ed		
78	7.1233%	0.8637%	Lower Level Dev Ed		
79	8.0757%	0.9523%	Lower Level Dev Ed		
80	9.1211%	1.0455%	Lower Level Dev Ed		
81	10.2637%	1.1426%	Lower Level Dev Ed		
82	11.5070%	1.2432%	Lower Level Dev Ed		
83	12.8537%	1.3467%	Lower Level Dev Ed	**13.20%**	**12.8537%**
84	14.3061%	1.4524%	Upper Level Dev Ed		

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
85	15.8655%	1.5594%	Upper Level Dev Ed		
86	17.5324%	1.6669%	Upper Level Dev Ed		
87	19.3062%	1.7738%	Upper Level Dev Ed		
88	21.1855%	1.8793%	Upper Level Dev Ed		
89	23.1678%	1.9822%	Upper Level Dev Ed		
90	25.2493%	2.0815%	Upper Level Dev Ed		
91	27.4253%	2.1761%	Upper Level Dev Ed		
92	29.6901%	2.2648%	Upper Level Dev Ed		
93	32.0369%	2.3468%	Upper Level Dev Ed		
94	34.4578%	2.4209%	Upper Level Dev Ed		
95	36.9441%	2.4863%	Upper Level Dev Ed		
96	39.4863%	2.5422%	Upper Level Dev Ed		
97	42.0740%	2.5877%	Upper Level Dev Ed		
98	44.6965%	2.6225%	Upper Level Dev Ed		
99	47.3424%	2.6459%	Upper Level Dev Ed		
100	50.0000%	2.6576%	Upper Level Dev Ed		
101	52.6576%	2.6576%	Upper Level Dev Ed		
102	55.3035%	2.6459%	Upper Level Dev Ed		
103	57.9260%	2.6225%	Upper Level Dev Ed	**46.30%**	**45.0723%**
104	60.5137%	2.5877%	ENC 1101		
105	63.0559%	2.5422%	ENC 1101		
106	65.5422%	2.4863%	ENC 1101		
107	67.9631%	2.4209%	ENC 1101		
108	70.3099%	2.3468%	ENC 1101		
109	72.5747%	2.2648%	ENC 1101		
110	74.7507%	2.1761%	ENC 1101		
111	76.8322%	2.0815%	ENC 1101		
112	78.8145%	1.9822%	ENC 1101		
113	80.6938%	1.8793%	ENC 1101		
114	82.4676%	1.7738%	ENC 1101		
115	84.1345%	1.6669%	ENC 1101		
116	85.6939%	1.5594%	ENC 1101		
117	87.1463%	1.4524%	ENC 1101		
118	88.4930%	1.3467%	ENC 1101		
119	89.7363%	1.2432%	ENC 1101		
120	90.8789%	1.1426%	ENC 1101		
121	91.9243%	1.0455%	ENC 1101		
122	92.8767%	0.9523%	ENC 1101		

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
123	93.7403%	0.8637%	ENC 1101		
124	94.5201%	0.7798%	ENC 1101		
125	95.2210%	0.7009%	ENC 1101		
126	95.8482%	0.6272%	ENC 1101		
127	96.4070%	0.5588%	ENC 1101		
128	96.9026%	0.4956%	ENC 1101		
129	97.3402%	0.4377%	ENC 1101		
130	97.7250%	0.3847%	ENC 1101		
131	98.0617%	0.3367%	ENC 1101		
132	98.3551%	0.2934%	ENC 1101		
133	98.6097%	0.2545%	ENC 1101		
134	98.8295%	0.2198%	ENC 1101		
135	99.0185%	0.1890%	ENC 1101		
136	99.1802%	0.1618%	ENC 1101		
137	99.3181%	0.1379%	ENC 1101		
138	99.4351%	0.1170%	ENC 1101		
139	99.5339%	0.0988%	ENC 1101		
140	99.6170%	0.0831%	ENC 1101		
141	99.6865%	0.0696%	ENC 1101		
142	99.7445%	0.0580%	ENC 1101		
143	99.7926%	0.0481%	ENC 1101		
144	99.8323%	0.0397%	ENC 1101		
145	99.8650%	0.0327%	ENC 1101		
146	99.8918%	0.0268%	ENC 1101		
147	99.9136%	0.0218%	ENC 1101		
148	99.9313%	0.0177%	ENC 1101		
149	99.9456%	0.0143%	ENC 1101		
150	99.9571%	0.0115%	ENC 1101	40.50%	42.0311%

Appendix - PERT Writing Placement Distribution

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
50	0.0429%	0.0429%	Lower Level Dev Ed		
51	0.0544%	0.0115%	Lower Level Dev Ed		
52	0.0687%	0.0143%	Lower Level Dev Ed		
53	0.0864%	0.0177%	Lower Level Dev Ed		
54	0.1082%	0.0218%	Lower Level Dev Ed		
55	0.1350%	0.0268%	Lower Level Dev Ed		
56	0.1677%	0.0327%	Lower Level Dev Ed		
57	0.2074%	0.0397%	Lower Level Dev Ed		
58	0.2555%	0.0481%	Lower Level Dev Ed		
59	0.3135%	0.0580%	Lower Level Dev Ed		
60	0.3830%	0.0696%	Lower Level Dev Ed		
61	0.4661%	0.0831%	Lower Level Dev Ed		
62	0.5649%	0.0988%	Lower Level Dev Ed		
63	0.6819%	0.1170%	Lower Level Dev Ed		
64	0.8198%	0.1379%	Lower Level Dev Ed		
65	0.9815%	0.1618%	Lower Level Dev Ed		
66	1.1705%	0.1890%	Lower Level Dev Ed		
67	1.3903%	0.2198%	Lower Level Dev Ed		
68	1.6449%	0.2545%	Lower Level Dev Ed		
69	1.9383%	0.2934%	Lower Level Dev Ed		
70	2.2750%	0.3367%	Lower Level Dev Ed		
71	2.6598%	0.3847%	Lower Level Dev Ed		
72	3.0974%	0.4377%	Lower Level Dev Ed		
73	3.5930%	0.4956%	Lower Level Dev Ed		
74	4.1518%	0.5588%	Lower Level Dev Ed		
75	4.7790%	0.6272%	Lower Level Dev Ed		
76	5.4799%	0.7009%	Lower Level Dev Ed		
77	6.2597%	0.7798%	Lower Level Dev Ed		
78	7.1233%	0.8637%	Lower Level Dev Ed		
79	8.0757%	0.9523%	Lower Level Dev Ed		
80	9.1211%	1.0455%	Lower Level Dev Ed		
81	10.2637%	1.1426%	Lower Level Dev Ed		
82	11.5070%	1.2432%	Lower Level Dev Ed		
83	12.8537%	1.3467%	Lower Level Dev Ed		
84	14.3061%	1.4524%	Lower Level Dev Ed		
85	15.8655%	1.5594%	Lower Level Dev Ed		

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
86	17.5324%	1.6669%	Lower Level Dev Ed		
87	19.3062%	1.7738%	Lower Level Dev Ed		
88	21.1855%	1.8793%	Lower Level Dev Ed		
89	23.1678%	1.9822%	Lower Level Dev Ed	**24.70%**	**23.1678%**
90	25.2493%	2.0815%	Upper Level Dev Ed		
91	27.4253%	2.1761%	Upper Level Dev Ed		
92	29.6901%	2.2648%	Upper Level Dev Ed		
93	32.0369%	2.3468%	Upper Level Dev Ed		
94	34.4578%	2.4209%	Upper Level Dev Ed		
95	36.9441%	2.4863%	Upper Level Dev Ed		
96	39.4863%	2.5422%	Upper Level Dev Ed		
97	42.0740%	2.5877%	Upper Level Dev Ed		
98	44.6965%	2.6225%	Upper Level Dev Ed	**20.40%**	**21.5287%**
99	47.3424%	2.6459%	ENC 1101		
100	50.0000%	2.6576%	ENC 1101		
101	52.6576%	2.6576%	ENC 1101		
102	55.3035%	2.6459%	ENC 1101		
103	57.9260%	2.6225%	ENC 1101		
104	60.5137%	2.5877%	ENC 1101		
105	63.0559%	2.5422%	ENC 1101		
106	65.5422%	2.4863%	ENC 1101		
107	67.9631%	2.4209%	ENC 1101		
108	70.3099%	2.3468%	ENC 1101		
109	72.5747%	2.2648%	ENC 1101		
110	74.7507%	2.1761%	ENC 1101		
111	76.8322%	2.0815%	ENC 1101		
112	78.8145%	1.9822%	ENC 1101		
113	80.6938%	1.8793%	ENC 1101		
114	82.4676%	1.7738%	ENC 1101		
115	84.1345%	1.6669%	ENC 1101		
116	85.6939%	1.5594%	ENC 1101		
117	87.1463%	1.4524%	ENC 1101		
118	88.4930%	1.3467%	ENC 1101		
119	89.7363%	1.2432%	ENC 1101		
120	90.8789%	1.1426%	ENC 1101		
121	91.9243%	1.0455%	ENC 1101		
122	92.8767%	0.9523%	ENC 1101		
123	93.7403%	0.8637%	ENC 1101		

PERT Score	Cumulative Percent	Predicted Percent at Score	Placement	Target Placement Percent	Predicted Percent at Placement
124	94.5201%	0.7798%	ENC 1101		
125	95.2210%	0.7009%	ENC 1101		
126	95.8482%	0.6272%	ENC 1101		
127	96.4070%	0.5588%	ENC 1101		
128	96.9026%	0.4956%	ENC 1101		
129	97.3402%	0.4377%	ENC 1101		
130	97.7250%	0.3847%	ENC 1101		
131	98.0617%	0.3367%	ENC 1101		
132	98.3551%	0.2934%	ENC 1101		
133	98.6097%	0.2545%	ENC 1101		
134	98.8295%	0.2198%	ENC 1101		
135	99.0185%	0.1890%	ENC 1101		
136	99.1802%	0.1618%	ENC 1101		
137	99.3181%	0.1379%	ENC 1101		
138	99.4351%	0.1170%	ENC 1101		
139	99.5339%	0.0988%	ENC 1101		
140	99.6170%	0.0831%	ENC 1101		
141	99.6865%	0.0696%	ENC 1101		
142	99.7445%	0.0580%	ENC 1101		
143	99.7926%	0.0481%	ENC 1101		
144	99.8323%	0.0397%	ENC 1101		
145	99.8650%	0.0327%	ENC 1101		
146	99.8918%	0.0268%	ENC 1101		
147	99.9136%	0.0218%	ENC 1101		
148	99.9313%	0.0177%	ENC 1101		
149	99.9456%	0.0143%	ENC 1101		
150	99.9571%	0.0115%	ENC 1101	54.90%	55.2606%