

# Course Placement Service Report



**SOUTHERN ARKANSAS UNIVERSITY (0142)**  
**Magnolia, AR**

**Placement Group:** IN-STATE

**Subject Area:** English

**Data Cohort:** 20142015

**Date of Report:** August 10, 2016

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# **Course Placement Report**

Information for Making Placement Decisions

**Placement Group: IN-STATE**

### Summary of Placement Variables

This table summarizes the placement variables used in requested analyses for each reference course. The table shows number of students, mean value, and standard deviation.

The descriptive statistics for course completers are based on students who receive A-F grades. However, if you chose to treat W grades as unsuccessful outcomes, the statistics will also include students with W grades.

Reference course	Placement variable	IN-STATE			Students who completed course		
		N	Mean	SD	N	Mean	SD
COMPOSITION I	ACT English Score	479	20.6	5.2	226	20.0	4.4
	High School English Grade Average	429	3.4	0.6	206	3.3	0.6
	ACT English Score and High School English Grade Average	429	20.9 3.4	5.1 0.6	206	20.2 3.3	4.3 0.6

### Summary of Course Outcomes

This table summarizes the course outcomes used in requested analyses for each reference course.

The table shows number of students, mean course grade, standard deviation, percent B or higher, percent C or higher, total of just W and I grades, and W grades not treated as successful.

		Grades used in analysis						
Reference course	Placement variable	N	Mean	SD	Percent B or higher	Percent C or higher	Total of W and I grades	W grades treated as not successful
COMPOSITION I	ACT English Score	226	2.6	1.2	69	85	6	Yes
	High School English Grade Average	206	2.7	1.1	70	86	4	Yes
	ACT English Score and High School English Grade Average	206	2.7	1.1	70	86	4	Yes

This table and graph report students' chances of achieving a B / C or higher in COMPOSITION I, given their ACT English Score. For example, the chance that a student with an ACT English Score of 19 would obtain a B or higher in COMPOSITION I is 68%.

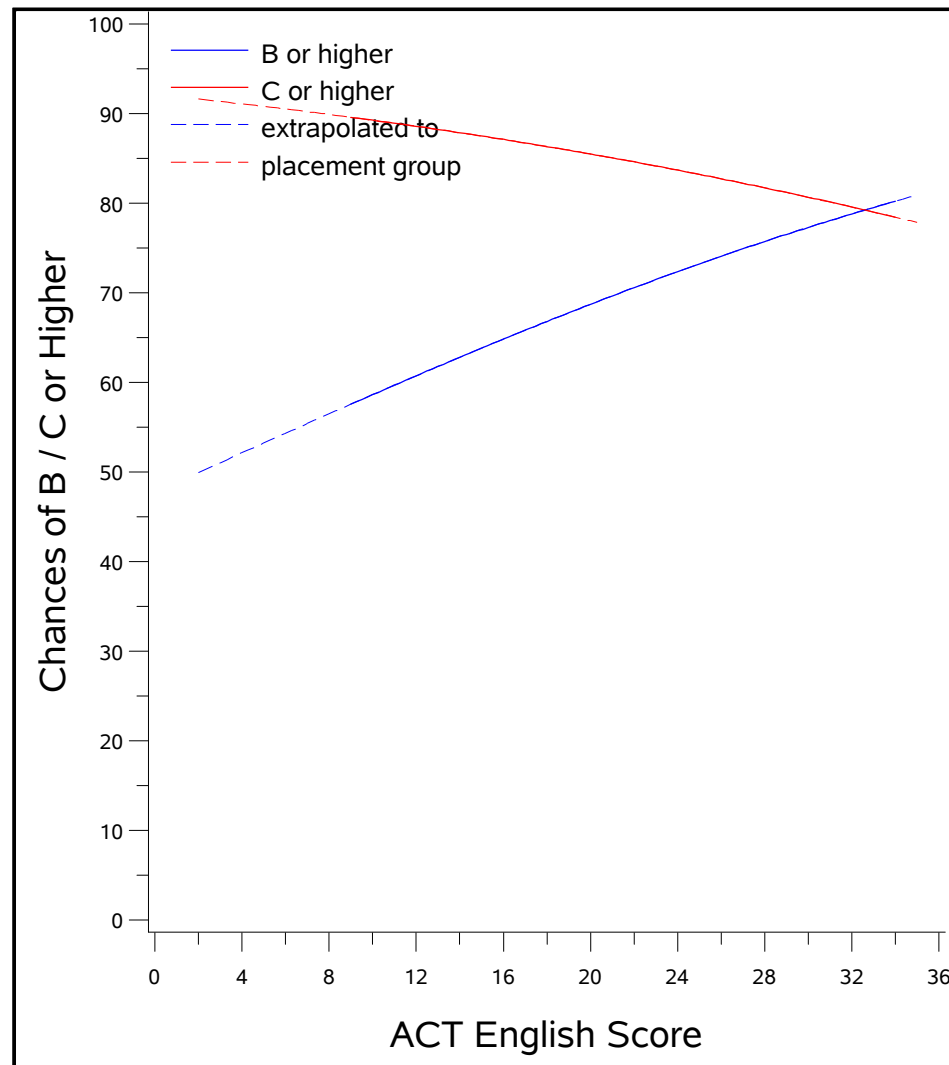
If present, the boldface scores labeled as Opt. B and Opt. C in the table show the cutoff scores that are associated with the maximum accuracy rate. The information in the table and graph can be used to advise students about their chances of success in COMPOSITION I.

**Chance of Success in COMPOSITION I,  
Given ACT English Score**

ACT English Score		Chance of success (B or higher)	Chance of success (C or higher)
	35	81	78
	34	80	78
	33	80	79
	32	79	80
	31	78	80
	30	77	81
	29	77	81
	28	76	82
	27	75	82
	26	74	83
	25	73	83
	24	72	84
	23	71	84
	22	71	85
	21	70	85
	20	69	85
	19	68	86
	18	67	86
	17	66	87
	16	65	87
	15	64	88
	14	63	88
	13	62	88
	12	61	89
	11	60	89
	10	59	89
	9	58	90
	7	55	90
Opt. B	<b>2</b>	50	92

Note: The chances of success for one or both criteria are all above or below 50%. No optimal cutoff score exists.

**Chance of Success in COMPOSITION I,  
Given ACT English Score**



Note: One or both of the statistical relationships are negative.  
Placement statistics will not be reported.

### Placement Information for COMPOSITION I Using ACT English Score

This table shows the effects of using different ACT English Score cutoffs in COMPOSITION I. For example, if you were to require students to have an ACT English Score of at least 19 to be placed into COMPOSITION I, then you would expect:

- about 35% of your students would be placed in a lower-level course
- about 59% of your placement decisions would be correct
- about 72% of those placed in COMPOSITION I would obtain a B or higher

ACT English Score			B or higher		C or higher	
		Percent placed in lower-level course	Accuracy rate	Success rate	Accuracy rate	Success rate
	35	99	31	81	Note: Statistics are not reported for negative relationships.	
	34	99	32	80		
	33	98	32	80		
	32	97	33	80		
	31	95	34	79		
	30	95	34	79		
	29	93	35	78		
	28	91	36	78		
	27	89	37	77		
	26	84	39	76		
	25	80	41	76		
	24	73	45	75		
	23	67	47	74		
	22	59	50	73		
	21	49	54	73		
	20	41	57	72		
	19	35	59	72		
	18	28	62	71		
	17	24	63	71		
	16	19	65	71		
	15	11	67	70		
	14	8	68	70		
	13	6	68	70		
	12	3	68	69		
	11	3	69	69		
	10	1	69	69		
	9	0	69	69		
	7	0	69	69		
Opt. B	2		69	69		

If present, the shaded rows highlight the optimal cutoff scores (i.e., those that lead to the highest percentage of correct placement decisions).

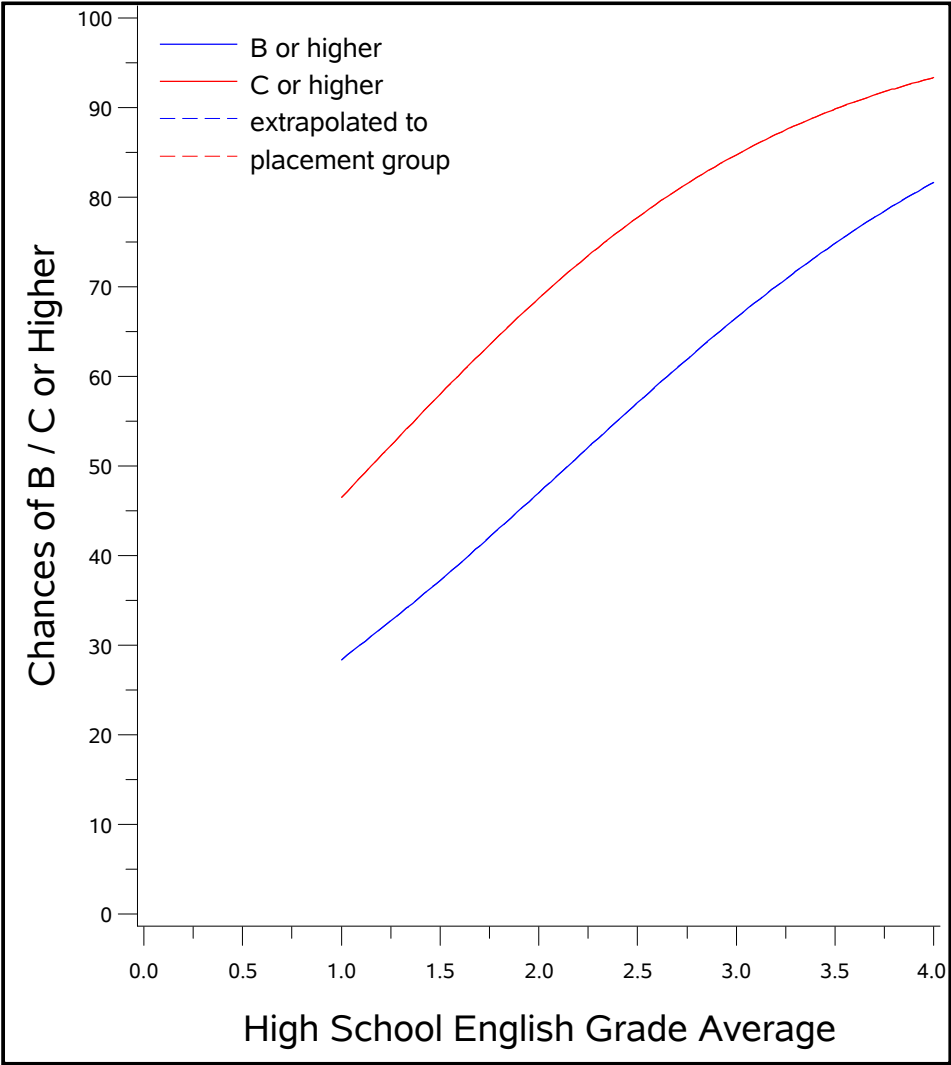
This table and graph report students' chances of achieving a B / C or higher in COMPOSITION I, given their High School English Grade Average. For example, the chance that a student with a High School English Grade Average of 2.5 would obtain a B or higher in COMPOSITION I is 57%.

If present, the boldface scores labeled as Opt. B and Opt. C in the table show the cutoff scores that are associated with the maximum accuracy rate. The information in the table and graph can be used to advise students about their chances of success in COMPOSITION I.

Chance of Success in COMPOSITION I,  
Given High School English Grade Average

High School English Grade Average		Chance of success (B or higher)	Chance of success (C or higher)
Opt. B	4.0	82	93
	3.8	79	92
	3.7	78	91
	3.6	76	91
	3.5	75	90
	3.4	73	89
	3.3	72	88
	3.2	70	87
	3.0	67	85
	2.8	63	82
	2.7	61	81
	2.5	57	78
	<b>2.3</b>	53	74
Opt. C	2.0	47	69
	1.8	43	65
	1.7	41	62
	<b>1.5</b>	37	58
	1.0	28	46

Chance of Success in COMPOSITION I,  
Given High School English Grade Average





### Placement Information for COMPOSITION I Using High School English Grade Average

This table shows the effects of using different High School English Grade Average cutoffs in COMPOSITION I. For example, if you were to require students to have a High School English Grade Average of at least 2.5 to be placed into COMPOSITION I, then you would expect:

- about 10% of your students would be placed in a lower-level course
- about 72% of your placement decisions would be correct
- about 74% of those placed in COMPOSITION I would obtain a B or higher

High School English Grade Average			B or higher		C or higher	
		Percent placed in lower-level course	Accuracy rate	Success rate	Accuracy rate	Success rate
	4.0	68	48	82	40	93
	3.8	64	51	81	44	93
	3.7	57	55	81	50	93
	3.6	56	55	81	50	93
	3.5	49	59	80	56	92
	3.4	48	59	80	56	92
	3.3	35	65	78	67	91
	3.2	34	65	78	67	91
	3.0	19	70	76	78	90
	2.8	17	71	76	79	90
Opt. B	2.7	12	72	75	82	89
	2.5	10	72	74	84	89
	2.3	5	72	73	86	88
	2.0	2	72	72	87	88
Opt. C	1.8	2	72	72	87	88
	1.7	0	72	72	87	87
	1.5	0	72	72	87	87
	1.0		72	72	87	87

If present, the shaded rows highlight the optimal cutoff scores (i.e., those that lead to the highest percentage of correct placement decisions).

The matrix reports students' chances of achieving a B or higher in COMPOSITION I, given their ACT English Score and High School English Grade Average. For example, the chance that a student with an ACT English Score of 17 and a High School English Grade Average of 2.2 would obtain a B or higher in COMPOSITION I is 51%.

If present, the dark gold area shows the combinations of ACT English Score and High School English Grade Average values that are at or near a 50% chance level. The combinations that maximize the percentage of correct placement decisions (accuracy rate) always correspond to a chance of 50%.

Note: One or both of the statistical tests may be significant at the 5% level. ACT English Score

### Chance of a C or Higher in COMPOSITION I, Given ACT English Score and High School English Grade Average

The matrix reports students' chances of achieving a C or higher in COMPOSITION I, given their ACT English Score and High School English Grade Average. For example, the chance that a student with an ACT English Score of 17 and a High School English Grade Average of 2.2 would obtain a C or higher in COMPOSITION I is 76%.

If present, the dark gold area shows the combinations of ACT English Score and High School English Grade Average values that are at or near a 50% chance level. The combinations that maximize the percentage of correct placement decisions (accuracy rate) always correspond to a chance of 50%.

High School English Grade Average

4.0	99	99	99	99	99	99	98	98	98	98	98	97	97	97	97	96	96	96	95	95	94	93	93	92	91	91	90	89	88	87	85	84	83	81	80	78
3.9	99	99	99	99	99	98	98	98	98	98	97	97	97	97	96	96	95	95	95	94	93	93	92	91	90	90	89	88	86	85	84	83	81	80	78	76
3.8	99	99	99	99	98	98	98	98	98	97	97	97	97	96	96	95	95	94	94	93	93	92	91	90	89	88	87	86	85	84	82	81	79	78	76	74
3.7	99	99	99	98	98	98	98	98	97	97	97	97	96	96	95	95	94	94	93	93	92	91	90	89	88	87	86	85	84	82	81	79	77	76	74	72
3.6	99	99	98	98	98	98	98	97	97	97	96	96	96	95	95	94	94	93	93	92	91	90	89	88	87	86	85	83	82	81	79	77	75	73	72	69
3.5	99	98	98	98	98	98	97	97	97	96	96	96	95	95	94	94	93	92	92	91	90	89	88	87	86	85	83	82	80	79	77	75	73	71	69	67
3.4	98	98	98	98	98	97	97	97	96	96	96	95	95	94	94	93	92	92	91	90	89	88	87	86	84	83	82	80	78	77	75	73	71	69	67	64
3.3	98	98	98	98	97	97	97	96	96	96	95	95	94	94	93	92	92	91	90	89	88	87	86	84	83	81	80	78	77	75	73	71	69	66	64	62
3.2	98	98	97	97	97	97	96	96	96	95	95	94	93	93	92	91	91	90	89	88	87	85	84	83	81	80	78	76	74	73	70	68	66	64	62	59
3.1	98	97	97	97	97	96	96	95	95	95	94	93	93	92	91	90	90	89	88	86	85	84	83	81	80	78	76	74	72	70	68	66	64	61	59	56
3.0	97	97	97	97	96	96	95	95	94	94	93	93	92	91	90	89	88	87	86	85	84	82	81	79	78	76	74	72	70	68	66	63	61	59	56	54
2.9	97	97	97	96	96	95	95	94	94	93	93	92	91	90	89	88	87	86	85	83	82	81	79	77	76	74	72	70	68	65	63	61	58	56	53	51
2.8	97	96	96	96	95	95	94	94	93	93	92	91	90	89	88	87	86	85	83	82	80	79	77	75	73	72	69	67	65	63	60	58	56	53	51	48
2.7	96	96	96	95	95	94	94	93	92	92	91	90	89	88	87	86	85	83	82	80	79	77	75	73	71	69	67	65	62	60	58	55	53	50	48	45
2.6	96	96	95	95	94	94	93	92	92	91	90	89	88	87	86	84	83	82	80	78	77	75	73	71	69	67	64	62	60	57	55	52	50	47	45	43
2.5	96	95	95	94	94	93	92	92	91	90	89	88	87	86	84	83	81	80	78	77	75	73	71	69	66	64	62	59	57	55	52	50	47	45	42	40
2.4	95	95	94	93	93	92	91	91	90	89	88	87	85	84	83	81	80	78	76	74	73	70	68	66	64	62	59	57	54	52	49	47	44	42	40	37
2.3	95	94	93	93	92	91	90	90	89	88	86	85	84	83	81	80	78	76	74	72	70	68	66	64	61	59	56	54	52	49	47	44	42	39	37	35
2.2	94	93	93	92	91	90	89	88	87	86	85	84	82	81	79	78	76	74	72	70	68	66	63	61	59	56	54	51	49	46	44	41	39	37	34	32
2.1	93	93	92	91	90	89	88	87	86	85	84	82	81	79	77	76	74	72	70	68	65	63	61	58	56	53	51	48	46	43	41	39	36	34	32	30
2.0	93	92	91	90	89	88	87	86	85	83	82	80	79	77	75	73	71	69	67	65	63	60	58	56	53	51	48	46	43	41	38	36	34	32	29	27
1.9	92	91	90	89	88	87	86	85	83	82	80	79	77	75	73	71	69	67	65	62	60	58	55	53	50	48	45	43	40	38	36	33	31	29	27	25
1.8	91	90	89	88	87	86	84	83	82	80	78	77	75	73	71	69	67	64	62	60	57	55	52	50	47	45	43	40	38	35	33	31	29	27	25	23
1.7	90	89	88	87	86	84	83	81	80	78	77	75	73	71	69	66	64	62	59	57	54	52	49	47	45	42	40	37	35	33	31	29	27	25	23	21
1.6	89	88	87	85	84	83	81	80	78	76	74	73	70	68	66	64	62	59	57	54	52	49	47	44	42	40	37	35	33	30	28	26	25	23	21	19
1.5	88	86	85	84	83	81	80	78	76	74	72	70	68	66	64	61	59	56	54	52	49	47	44	42	39	37	35	32	30	28	26	24	23	21	19	18
1.4	86	85	84	82	81	79	78	76	74	72	70	68	66	63	61	59	56	54	51	49	46	44	41	39	37	34	32	30	28	26	24	22	21	19	18	16
1.3	85	84	82	81	79	77	76	74	72	70	68	65	63	61	58	56	53	51	48	46	43	41	39	36	34	32	30	28	26	24	22	20	19	17	16	15
1.2	83	82	80	79	77	75	73	71	69	67	65	63	60	58	56	53	51	48	46	43	41	38	36	34	32	29	27	25	24	22	20	19	17	16	15	13
1.1	82	80	79	77	75	73	71	69	67	65	62	60	58	55	53	50	48	45	43	40	38	36	33	31	29	27	25	23	22	20	18	17	16	14	13	12
1.0	80	78	77	75	73	71	69	67	64	62	60	57	55	52	50	47	45	43	40	38	35	33	31	29	27	25	23	21	20	18	17	16	14	13	12	11
0.9	78	77	75	73	71	69	66	64	62	59	57	55	52	50	47	45	42	40	37	35	33	31	29	27	25	23	21	20	18	17	15	14	13	12	11	10
0.8	76	74	73	70	68	66	64	62	59	57	54	52	49	47	44	42	40	37	35	33	30	28	26	25	23	21	19	18	17	15	14	13	12	11	10	9
0.7	74	72	70	68	66	64	61	59	56	54	52	49	47	44	42	39	37	35	32	30	28	26	24	23	21	19	18	16	15	14	13	12	11	10	9	8
0.6	72	70	68	66	63	61	59	56	54	51	49	46	44	41	39	37	34	32	30	28	26	24	22	21	19	18	16	15	14	13	11	10	9	8	7	
0.5	70	68	65	63	61	58	56	53	51	48	46	43	41	39	36	34	32	30	28	26	24	22	20	19	17	16	15	14	12	11	10	9	8	7	7	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36

Note: One or both of the statistica

ACT English Score

Placement Information for COMPOSITION I Using ACT English Score and High School English Grade Average

This table shows the impact of using different combinations of ACT English Scores and High School English Grade Averages as cutoff scores in COMPOSITION I. For example, if you were to require students to have at least a 50% chance of a B or higher based on their ACT English Scores and High School English Grade Averages to be placed into COMPOSITION I (see page 9), then you would expect:

- about 3% of your students would be placed in a lower-level course
- about 72% of your placement decisions would be correct
- about 73% of those placed in COMPOSITION I would obtain a B or higher

	B or higher			C or higher		
Chance range	Percent below	Accuracy rate	Success rate	Percent below	Accuracy rate	Success rate
91 - 99						
85 - 90						
82 - 84						
79 - 81						
76 - 78						
73 - 75						
70 - 72						
67 - 69						
64 - 66						
61 - 63						
58 - 60						
55 - 57						
52 - 54						
49 - 51						
46 - 48						
43 - 45						
40 - 42						
37 - 39						
34 - 36						
31 - 33						
28 - 30						
25 - 27						
22 - 24						
19 - 21						
16 - 18						
10 - 15						
1 - 9						

If present, the shaded rows highlight the optimal cutoff combinations (i.e., those that lead to the highest percentage of correct placement decisions).

### Logistic Regression Weights and Correlations

This table contains the estimated logistic regression weights used to calculate the chances of success in each course. The weights associated with each set of placement variables are shown with the corresponding significance level (p-value). This information can be used to calculate the chances of success for a given student.

A p-value is an estimate of the probability that a regression weight of magnitude equal to that reported in the table would occur by chance if the true regression weight were 0; the smaller the p-value, the more highly "statistically significant" the regression weight is. The correlation between the placement variables and course grades also is listed.

		B or higher		C or higher		
Course	Placement variable(s)	Logistic regression weight	P-value	Logistic regression weight	P-value	Correlation
COMPOSITION I	Intercept	-0.09		2.46		
	ACT English Score	0.04	0.1925	-0.03	0.4145	0.09
	Intercept	-1.73		-1.07		
	High School English Grade Average	0.81	0.0012	0.93	0.0029	0.30
	Intercept	-1.63		0.37		
	ACT English Score and High School English Grade Average	-0.01 0.82	0.8578 0.0016	-0.10 1.12	0.0445 0.0007	0.30