

Course Placement Service Report



SOUTHERN ARKANSAS UNIVERSITY (0142)
Magnolia, AR

Placement Group: First-time Students

Subject Area: Science

Data Cohort: 20152016

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Course Placement Report

Information for Making Placement Decisions

Placement Group: First-time Students

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.

		First-time Students			Students who completed course		
Reference course	Placement variable	N	Mean	SD	N	Mean	SD
BIO/PHYS SCI & LAB	ACT Science Score	724	20.5	4.1	125	22.3	3.2
	High School Natural Science Grade Avg	635	3.2	0.7	115	3.5	0.5
	ACT Science Score and High School Natural Science Grade Avg	635	20.8 3.2	4.0 0.7	115	22.3 3.5	3.1 0.5

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
BIO/PHYS SCI & LAB	ACT Science Score	125	2.2	1.3	45	76	4	Yes
	High School Natural Science Grade Avg	115	2.3	1.2	45	78	4	Yes
	ACT Science Score and High School Natural Science Grade Avg	115	2.3	1.2	45	78	4	Yes

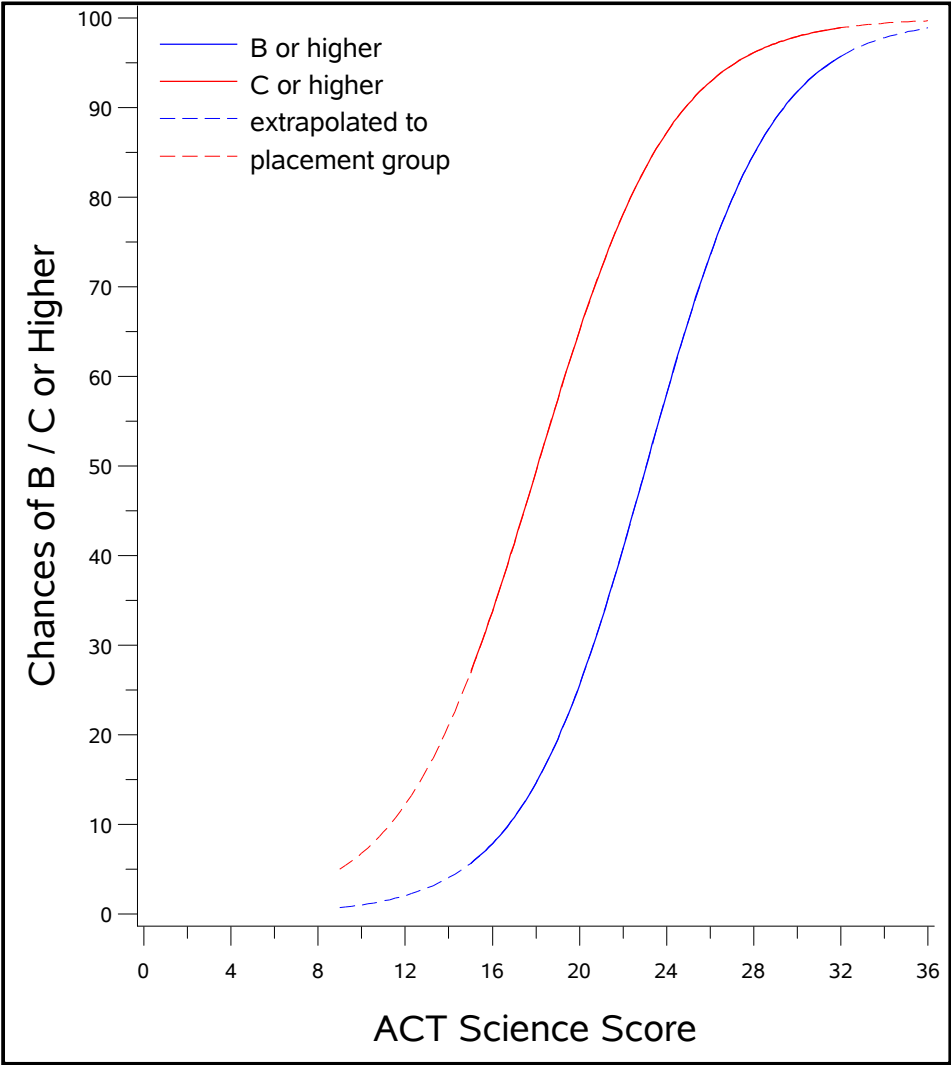
This table and graph report students' chances of achieving a B / C or higher in BIO/PHYS SCI & LAB, given their ACT Science Score. For example, the chance that a student with an ACT Science Score of 23 would obtain a B or higher in BIO/PHYS SCI & LAB is 49%.

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 BIO/PHYS SCI & LAB.

Chance of Success in BIO/PHYS SCI & LAB,
Given ACT Science Score

ACT Science Score		Chance of success (B or higher)	Chance of success (C or higher)
Opt. B	36	99	99
	34	98	99
	33	97	99
	32	96	99
	31	94	99
	30	92	98
	29	89	97
	28	85	96
	27	80	95
	26	74	93
	25	66	90
	24	58	87
	23	49	83
	22	41	78
Opt. C	21	33	72
	20	26	65
	19	20	57
	18	15	49
	17	11	41
	16	8	34
	15	6	27
	14	4	21
	13	3	16
	12	2	12
	11	1	9
	10	1	7
	9	1	5

Chance of Success in BIO/PHYS SCI & LAB,
Given ACT Science Score



Placement Information for BIO/PHYS SCI & LAB Using ACT Science Score

This table shows the effects of using different ACT Science Score cutoffs in BIO/PHYS SCI & LAB. For example, if you were to require students to have an ACT Science Score of at least 23 to be placed into BIO/PHYS SCI & LAB, then you would expect:

- about 71% of your students would be placed in a lower-level course
- about 75% of your placement decisions would be correct
- about 65% of those placed in BIO/PHYS SCI & LAB would obtain a B or higher

ACT Science Score			B or higher		C or higher	
		Percent placed in lower-level course	Accuracy rate	Success rate	Accuracy rate	Success rate
	36	99	66	99	36	100
	34	99	67	98	36	99
	33	99	67	98	36	99
	32	99	67	97	37	99
	31	98	68	96	37	99
	30	98	68	95	38	99
	29	96	69	93	39	98
	28	95	70	91	40	98
	27	94	70	89	41	97
	26	90	72	83	44	95
	25	85	74	77	48	94
Opt. B	24	80	75	72	52	92
	23	71	75	65	58	89
	22	61	73	59	64	86
	21	50	69	53	69	83
	20	38	64	48	72	80
Opt. C	19	29	58	44	74	77
	18	20	52	41	74	74
	17	17	49	40	73	72
	16	12	45	38	71	70
	15	6	39	36	69	68
	14	4	38	35	67	67
	13	2	36	35	66	66
	12	1	35	34	66	65
	11	0	34	34	65	65
	10	0	34	34	65	65
	9		34	34	65	65

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

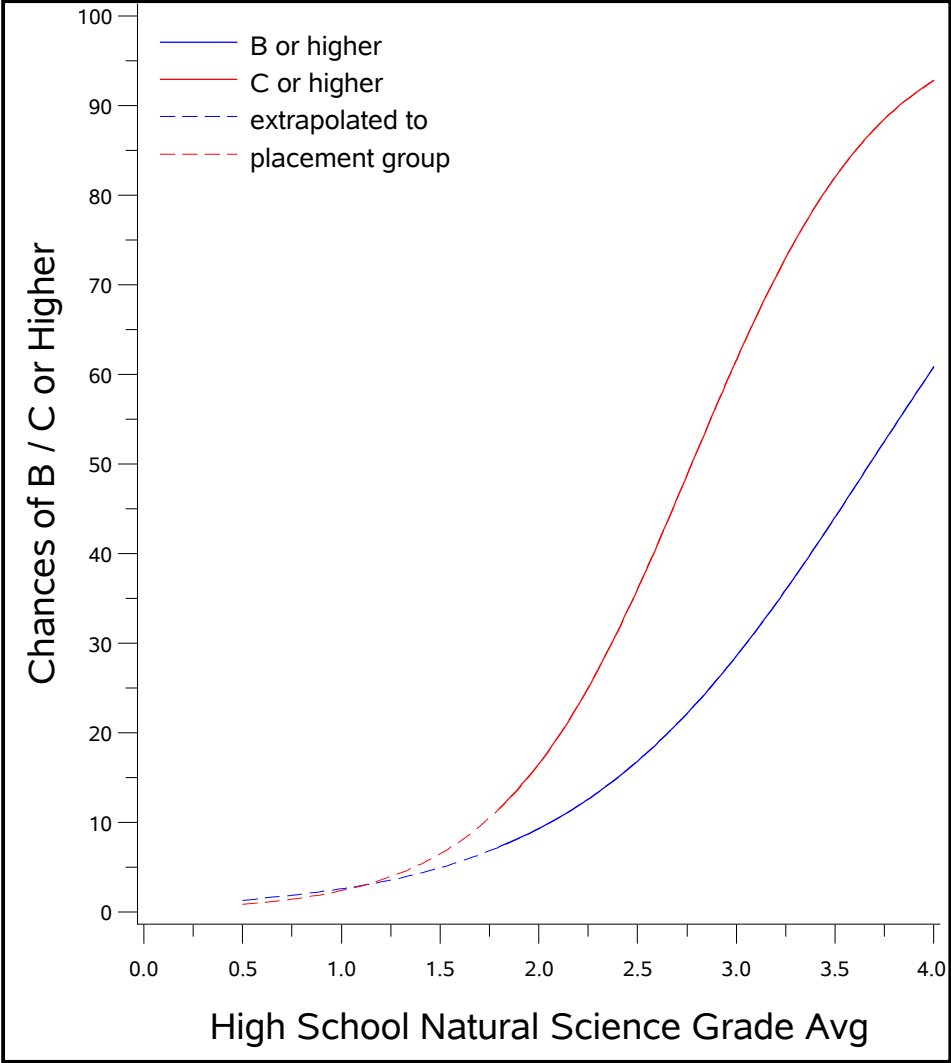
This table and graph report students' chances of achieving a B / C or higher in BIO/PHYS SCI & LAB, given their High School Natural Science Grade Avg. For example, the chance that a student with a High School Natural Science Grade Avg of 2.3 would obtain a B or higher in BIO/PHYS SCI & LAB is 13%.

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 BIO/PHYS SCI & LAB.

Chance of Success in BIO/PHYS SCI & LAB,
Given High School Natural Science Grade Avg

High School Natural Science Grade Avg		Chance of success (B or higher)	Chance of success (C or higher)
Opt. B	4.0	61	93
	3.8	54	90
	3.7	51	87
	3.5	44	82
	3.3	38	75
Opt. C	3.0	29	62
	2.8	23	51
	2.7	21	46
	2.5	17	36
	2.3	13	27
	2.0	9	17
	1.8	7	12
	1.7	6	10
	1.5	5	7
	1.3	4	4
	0.5	1	1

Chance of Success in BIO/PHYS SCI & LAB,
Given High School Natural Science Grade Avg



Placement Information for BIO/PHYS SCI & LAB Using High School Natural Science Grade Avg

This table shows the effects of using different High School Natural Science Grade Avg cutoffs in BIO/PHYS SCI & LAB. For example, if you were to require students to have a High School Natural Science Grade Avg of at least 2.3 to be placed into BIO/PHYS SCI & LAB, then you would expect:

- about 8% of your students would be placed in a lower-level course
- about 45% of your placement decisions would be correct
- about 41% of those placed in BIO/PHYS SCI & LAB would obtain a B or higher

High School Natural Science Grade Avg			B or higher		C or higher	
		Percent placed in lower-level course	Accuracy rate	Success rate	Accuracy rate	Success rate
Opt. B	4.0	76	67	61	53	93
	3.8	72	67	60	56	92
	3.7	62	68	58	63	91
	3.5	55	67	55	68	90
	3.3	42	63	51	74	86
Opt. C	3.0	25	56	46	78	81
	2.8	25	56	46	78	81
	2.7	18	52	44	78	78
	2.5	14	50	43	77	76
	2.3	8	45	41	74	73
	2.0	3	41	39	71	70
	1.8	3	41	39	71	70
	1.7	2	40	39	70	69
	1.5	1	40	39	69	69
	1.3	0	38	38	68	68
	0.5		38	38	68	68

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

Chance of a B or Higher in BIO/PHYS SCI & LAB, Given ACT Science Score and High School Natural Science Grade Avg

The matrix reports students' chances of achieving a B or higher in BIO/PHYS SCI & LAB, given their ACT Science Score and High School Natural Science Grade Avg. For example, the chance that a student with an ACT Science Score of 17 and a High School Natural Science Grade Avg of 2.2 would obtain a B or higher in BIO/PHYS SCI & LAB is 2%.

If present, the dark gold area shows the combinations of ACT Science Score and High School Natural Science Grade Avg 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 Natural Science Grade Avg	ACT Science Score																																					
	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		
	4.0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	14	19	26	34	44	54	63	72	79	85	89	92	95	96	98	98	99	99	99	99	
	3.9	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	24	32	41	51	60	69	77	83	88	92	94	96	97	98	99	99	99	99	99
	3.8	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	11	16	22	30	38	48	58	67	75	82	87	91	94	96	97	98	99	99	99	99	99
	3.7	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	15	20	27	36	45	55	64	73	80	85	90	93	95	97	98	98	99	99	99	99
	3.6	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	25	33	42	52	62	71	78	84	89	92	94	96	97	98	99	99	99	99
	3.5	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	12	17	23	31	40	49	59	68	76	82	87	91	94	96	97	98	99	99	99	99
	3.4	0	0	0	0	0	0	0	0	0	1	1	1	2	2	4	5	8	11	15	21	28	37	47	56	66	74	81	86	90	93	95	97	98	99	99	99	99
	3.3	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	14	19	26	34	44	54	63	72	79	85	89	92	95	96	98	98	99	99	99
	3.2	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	24	32	41	51	60	69	77	83	88	92	94	96	97	98	99	99	99
	3.1	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	11	16	22	30	38	48	58	67	75	82	87	91	94	96	97	98	99	99	99
	3.0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	15	20	27	36	45	55	64	73	80	85	90	93	95	97	98	98	99	99
	2.9	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	25	33	42	52	62	71	78	84	89	92	94	96	97	98	99	99
	2.8	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	12	17	23	31	40	49	59	68	76	82	87	91	94	96	97	98	99	99
	2.7	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	4	5	8	11	15	21	28	37	47	56	66	74	81	86	90	93	95	97	98	99	99
	2.6	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	14	19	26	34	44	54	63	72	79	85	89	92	95	96	98	98	98
	2.5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	24	32	41	51	60	69	77	83	88	92	94	96	97	98	98
	2.4	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	11	16	22	30	38	48	58	67	75	82	87	91	94	96	97	98	98
	2.3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	15	20	27	36	45	55	64	73	80	85	90	93	95	97	98	98
	2.2	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	25	33	42	52	62	71	78	84	89	92	94	96	97	97
	2.1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	12	17	23	31	40	49	59	68	76	82	87	91	94	96	97	97
	2.0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	4	5	8	11	15	21	28	37	47	56	66	74	81	86	90	93	95	97	97
	1.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	14	19	26	34	44	54	63	72	79	85	89	92	95	96	96
	1.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	24	32	41	51	60	69	77	83	88	92	94	96	96
	1.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	11	16	22	30	38	48	58	67	75	82	87	91	94	96	96
	1.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	15	20	27	36	45	55	64	73	80	85	90	93	95	95
	1.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	25	33	42	52	62	71	78	84	89	92	94	94
	1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	12	17	23	31	40	49	59	68	76	82	87	91	94	94
	1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	4	5	8	11	15	21	28	37	47	56	66	74	81	86	90	93	93
	1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	14	19	26	34	44	54	63	72	79	85	89	92	92	
	1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	24	32	41	51	60	69	77	83	88	92	92	
	1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	11	16	22	30	38	48	58	67	75	82	87	91	91	
	0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	15	20	27	36	45	55	64	73	80	85	90	90		
	0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	9	13	18	25	33	42	52	62	71	78	84	89	89		
	0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	6	8	12	17	23	31	40	49	59	68	76	82	87	87		
0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	4	5	8	11	15	21	28	37	47	56	66	74	81	86	86			
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	2	2	3	5	7	10	14	19	26	34	44	54	63	72	79	85	85				
	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		

Chance of a C or Higher in BIO/PHYS SCI & LAB, Given ACT Science Score and High School Natural Science Grade Avg

The matrix reports students' chances of achieving a C or higher in BIO/PHYS SCI & LAB, given their ACT Science Score and High School Natural Science Grade Avg. For example, the chance that a student with an ACT Science Score of 17 and a High School Natural Science Grade Avg of 2.2 would obtain a C or higher in BIO/PHYS SCI & LAB is 8%.

If present, the dark gold area shows the combinations of ACT Science Score and High School Natural Science Grade Avg 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 Natural Science Grade Avg	ACT Science Score																																						
	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			
4.0	1	2	3	4	5	7	9	12	16	21	27	34	42	50	58	66	73	79	84	88	91	93	95	96	97	98	99	99	99	99	99	99	99	99	99	99	99		
3.9	1	2	2	3	4	6	8	10	14	18	23	30	37	45	53	61	69	75	81	85	89	92	94	96	97	98	98	99	99	99	99	99	99	99	99	99	99	99	99
3.8	1	1	2	2	3	5	6	9	12	15	20	26	33	40	48	57	64	72	78	83	87	90	93	95	96	97	98	99	99	99	99	99	99	99	99	99	99	99	99
3.7	1	1	1	2	3	4	5	7	10	13	17	23	29	36	44	52	60	68	74	80	85	89	91	94	95	97	98	98	99	99	99	99	99	99	99	99	99	99	99
3.6	1	1	1	2	2	3	4	6	8	11	15	19	25	32	39	47	55	63	70	77	82	86	90	92	94	96	97	98	98	99	99	99	99	99	99	99	99	99	99
3.5	1	1	1	1	2	3	4	5	7	9	12	17	22	28	35	42	51	59	66	73	79	84	88	91	93	95	96	97	98	99	99	99	99	99	99	99	99	99	99
3.4	0	1	1	1	2	2	3	4	6	8	11	14	19	24	30	38	46	54	62	69	76	81	86	89	92	94	96	97	98	98	99	99	99	99	99	99	99	99	99
3.3	0	1	1	1	1	2	3	4	5	7	9	12	16	21	27	33	41	49	57	65	72	78	83	87	91	93	95	96	97	98	99	99	99	99	99	99	99	99	99
3.2	0	0	1	1	1	2	2	3	4	5	7	10	13	18	23	29	37	44	53	61	68	75	81	85	89	92	94	96	97	98	98	99	99	99	99	99	99	99	99
3.1	0	0	0	1	1	1	2	2	3	5	6	8	11	15	20	26	32	40	48	56	64	71	77	83	87	90	93	95	96	97	98	98	99	99	99	99	99	99	99
3.0	0	0	0	1	1	1	1	2	3	4	5	7	10	13	17	22	28	35	43	51	59	67	74	80	84	88	91	94	95	97	97	98	99	99	99	99	99	99	
2.9	0	0	0	0	1	1	1	2	2	3	4	6	8	11	14	19	25	31	39	47	55	63	70	76	82	86	90	92	94	96	97	98	98	99	99	99	99	99	99
2.8	0	0	0	0	1	1	1	1	2	3	4	5	7	9	12	16	21	27	34	42	50	58	66	73	79	84	88	91	93	95	96	97	98	99	99	99	99	99	99
2.7	0	0	0	0	0	1	1	1	2	2	3	4	6	8	10	14	18	24	30	37	45	53	61	69	75	81	86	89	92	94	96	97	98	98	99	99	99	99	99
2.6	0	0	0	0	0	0	1	1	1	2	2	3	5	6	9	12	15	20	26	33	40	49	57	65	72	78	83	87	90	93	95	96	97	98	99	99	99	99	99
2.5	0	0	0	0	0	0	1	1	1	1	2	3	4	5	7	10	13	17	23	29	36	44	52	60	68	74	80	85	89	92	94	95	97	98	98	99	99	99	99
2.4	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	8	11	15	19	25	32	39	47	55	63	71	77	82	87	90	93	94	96	97	98	98	99	99	99
2.3	0	0	0	0	0	0	0	1	1	1	1	2	3	4	5	7	9	13	17	22	28	35	43	51	59	66	73	79	84	88	91	93	95	96	97	98	98	99	99
2.2	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	8	11	14	19	24	31	38	46	54	62	69	76	81	86	89	92	94	96	97	98	98	99	99
2.1	0	0	0	0	0	0	0	0	1	1	1	1	2	3	4	5	7	9	12	16	21	27	34	41	49	57	65	72	78	83	87	91	93	95	96	97	97	99	99
2.0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	7	10	13	18	23	29	37	45	53	61	68	75	81	85	89	92	94	96	97	97	99	99
1.9	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	5	6	8	11	15	20	26	32	40	48	56	64	71	77	83	87	90	93	95	96	96	99	99
1.8	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	3	4	5	7	10	13	17	22	28	35	43	51	59	67	74	80	85	88	91	94	95	95	99	99
1.7	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	8	11	14	19	25	31	39	47	55	63	70	76	82	86	90	92	94	94	99	99
1.6	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	3	4	5	7	9	12	16	21	27	34	42	50	58	66	73	79	84	88	91	93	93	99	99
1.5	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	8	10	14	18	24	30	37	45	53	61	69	75	81	86	89	92	92	99	99
1.4	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	3	5	6	9	12	16	20	26	33	41	49	57	65	72	78	83	87	90	90	99	99
1.3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	5	7	10	13	17	23	29	36	44	52	60	68	74	80	85	89	89	99
1.2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	8	11	15	19	25	32	39	47	56	63	71	77	82	87	87	99
1.1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	5	7	9	13	17	22	28	35	43	51	59	67	73	79	84	84	99	
1.0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	8	11	14	19	24	31	38	46	54	62	70	76	81	86	91
0.9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	5	7	9	12	16	21	27	34	41	49	58	65	72	78	83	88	93
0.8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	8	10	14	18	23	30	37	45	53	61	68	75	81	86
0.7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	5	6	9	11	15	20	26	32	40	48	56	64	71	78	84
0.6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	3	4	5	7	10	13	17	22	28	36	43	52	60	67	74	81	88
0.5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	2	2	3	4	6	8	11	15	19	25	31	39	47	55	63	71	79
	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	36	36	

Placement Information for BIO/PHYS SCI & LAB Using ACT Science Score and High School Natural Science Grade Avg

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

- about 72% of your students would be placed in a lower-level course
- about 79% of your placement decisions would be correct
- about 70% of those placed in BIO/PHYS SCI & LAB 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	98	70	98	91	47	98
85 - 90	95	73	94	68	66	94
82 - 84	93	74	92	62	71	93
79 - 81	92	74	90	58	74	92
76 - 78	90	76	88	55	75	91
73 - 75	90	76	88	53	77	90
70 - 72	87	77	84	50	78	89
67 - 69	86	77	83	48	78	88
64 - 66	85	78	82	46	79	87
61 - 63	81	79	78	43	80	86
58 - 60	80	79	77	40	80	85
55 - 57	79	79	76	39	81	84
52 - 54	74	79	72	38	81	84
49 - 51	72	79	70	34	81	82
46 - 48	72	79	70	31	81	81
43 - 45	68	79	67	31	81	81
40 - 42	64	78	64	29	80	79
37 - 39	64	78	64	27	80	78
34 - 36	60	77	62	25	79	77
31 - 33	57	76	59	24	79	76
28 - 30	56	76	59	22	78	76
25 - 27	52	74	57	21	78	75
22 - 24	49	73	54	19	76	73
19 - 21	46	71	53	17	75	72
16 - 18	42	68	50	14	74	71
10 - 15	33	62	46	11	71	68
1 - 9	12	44	36	4	65	64

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
BIO/PHYS SCI & LAB	Intercept	-8.03		-5.86		
	ACT Science Score	0.35	<.0001	0.32	0.0002	0.48
	Intercept	-4.99		-5.80		
	High School Natural Science Grade Avg	1.36	0.0025	2.09	<.0001	0.43
	Intercept	-13.01		-12.24		
	ACT Science Score and High School Natural Science Grade Avg	0.39 1.12	<.0001 0.0223	0.33 1.91	0.0011 0.0005	0.60