



# Major Field Tests

Listening. Learning. Leading.®

Major Field Test in Biology (form: 4BMF)  
 Individual Students Total Score Distribution  
 Data includes Seniors from Domestic Institutions -- August 2005 to June 2009

Total Score Range (120 - 200)	% at or below
176 - 200	95
175	
174	
173	90
172	
171	
170	
169	85
168	
167	
166	80
165	
164	
163	75
162	
161	
160	70
159	
158	
157	65
156	
155	60
154	
153	55
152	
151	50
150	
149	45
148	
147	40
146	
145	35
144	
143	30
142	
141	25
140	
139	20
138	
137	15
136	
135	10
134	
133	5
132	
120 - 131	1

Number of Examinees	30,854
Mean	153.4
Median	154
Standard Deviation	13.2

Total Scores are reported as *scaled scores*.  
 % at or below based on percent below the lower limit  
 of the score interval.

Major Field Test in Biology<sup>1</sup> (form: 4BMF)  
 Individual Students Subscore Distributions  
 Data includes Seniors from Domestic Institutions -- August 2005 to June 2009

Subscores <sup>2</sup> Range (20 - 100)	Subscore % at or below				Subscores <sup>2</sup> Range (20 - 100)
	1	2	3	4	
78-100		95			78-100
77	95		95	95	77
76		90			76
75			90	90	75
74	90				74
73		85			73
72			85	85	72
71	85				71
70		80			70
69			80	80	69
68	80				68
67		75			67
66			75	75	66
65	75				65
64		70			64
63			70	70	63
62	70				62
61		65			61
60			65	65	60
59	60				59
58		60			58
57			60	60	57
56	50				56
55		55			55
54			55	55	54
53	40				53
52		45			52
51			45	45	51
50	35				50
49		40			49
48			40	40	48
47	25				47
46		30			46
45			30	30	45
44	20				44
43		20			43
42			20	20	42
41	15				41
40		15			40
39			15	15	39
38	10				38
37		10			37
36			10	10	36
35	5				35
34		5			34
33			5	5	33
32	1				32
31		1			31
30			1	1	30
20-29					20-29

Number of Examinees	30,854	30,854	30,854	30,854
Mean	54.0	53.7	53.1	53.3
Median	54	54	54	55
Standard Deviation	13.2	13.1	13.5	13.3

<sup>1</sup>Subscores for this test cannot be compared to testing years prior to 2005 due to changes in the Biology Test that were introduced in 2005.

<sup>2</sup>Subscore 1: Cell Biology  
 Subscore 2: Molecular Biology and Genetics  
 Subscore 3: Organismal Biology  
 Subscore 4: Population Biology, Evolution, and Ecology

Subscores are reported as *scaled scores*.  
 % at or below based on percent below the lower limit  
 of the score interval.



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Major Field Test in Biology (form: 4BMF)  
 Institutional Means Total Score Distribution  
 Data includes Seniors from Domestic Institutions -- August 2005 to June 2009

Mean Total Score Range (120 - 200)	% at or below
165 - 200	95
164	
163	90
162	
161	85
160	
159	80
158	
157	75
156	
155	65
154	
153	60
152	
151	55
150	
149	45
148	
147	40
146	
145	35
144	
143	30
142	
141	25
140	
139	20
138	
120 - 137	15
	10
	5
	1

Number of Institutions	425
Mean	152.0
Median	153
Standard Deviation	8.0

Total Scores are reported as *scaled scores*.  
 % at or below based on percent below the lower limit  
 of the score interval.



# Major Field Tests

Listening. Learning. Leading.®

Major Field Test in Biology<sup>1</sup> (form: 4BMF)  
 Institutional Means Subscore Distributions  
 Data includes Seniors from Domestic Institutions -- August 2005 to June 2009

Subscores <sup>2</sup> Range (20 - 100)	Subscore % at or below				Subscores <sup>2</sup> Range (20 - 100)
	1	2	3	4	
65-100	95	95	95	95	65-100
64					64
63	90	90	90	90	63
62					62
61	85	85	85	85	61
60		80			60
59	80		80	80	59
58	75	75	75	75	58
57	65		70	70	57
56	60	70	60	65	56
55	55	60	55	60	55
54		55	50	50	54
53	45	50	45	45	53
52	35	40	40	40	52
51	30	35	35	35	51
50	25	30	30	30	50
49		25	25	25	49
48	20	20	20	20	48
47	15	15		15	47
46		10	15		46
45	10			10	45
44		5	10		44
43					43
42	5		5		42
41					41
40				5	40
39		1			39
38	1				38
37			1		37
36					36
20 - 35				1	20 - 35

Number of Institutions	425	425	425	425
Mean	52.7	52.6	52.2	51.8
Median	54	52	53	53
Standard Deviation	7.1	6.6	7.6	7.9

<sup>1</sup>Subscores for this test cannot be compared to testing years prior to 2005 due to changes in the Biology Test that were introduced in 2005.

<sup>2</sup>Subscore 1: Cell Biology  
 Subscore 2: Molecular Biology and Genetics  
 Subscore 3: Organismal Biology  
 Subscore 4: Population Biology, Evolution, and Ecology

Subscores are reported as *scaled scores*.  
 % at or below based on percent below the lower limit of the score interval.

Major Field Test in Biology <sup>1</sup> (form: 4BMF)  
 Institutional Assessment Indicator Mean Score Distributions  
 Data includes Seniors from Domestic Institutions -- August 2005 to June 2009

Mean Percent Correct	Assessment Indicators <sup>2</sup>									Mean Percent Correct
	% at or below									
	AI 1	AI 2	AI 3	AI 4	AI 5	AI 6	AI 7	AI 8	AI 9	
71 - 100					95		95	95		71 - 100
70		95			90		95	95		70
69					85			90	95	69
68					80			90		68
67		90	95	95	75	95		85		67
66					70			80		66
65					65			75		65
64		85			60			80	90	64
63					55			75		63
62				90	50			70	85	62
61			90		40			65	80	61
60					35			60	75	60
59				85	30			55	70	59
58					25	90		50	65	58
57			85	80	20			45	60	57
56				75	15			40	55	56
55	90			70	10	85		35	50	55
54		35	80	65	5			30	45	54
53		30	75	60	5	80		25	40	53
52		25		55	5			20	35	52
51	80		70	50	5	75		15	30	51
50		20	65	45	5			10	25	50
49				40	5	65		5	20	49
48		15	60	35	5			5	15	48
47			55	30	5	60		5	10	47
46		10	50	25	5	50		5	10	46
45			45	20	5	45		5	10	45
44			40	15	5	40		5	10	44
43			35	10	5	35		5	10	43
42			30	5	5	30		5	10	42
41		5	25	5	5	25		5	10	41
40			20	5	5	20		5	10	40
39			15	5	5	15		5	10	39
38			10	5	5	10		5	10	38
37			5	5	5	5		5	10	37
36			5	5	5	5		5	10	36
35			5	5	5	5		5	10	35
34			5	5	5	5		5	10	34
33		1	5	5	5	5		5	10	33
32			5	5	5	5		5	10	32
31			5	5	5	5		5	10	31
30			5	5	5	5		5	10	30
0 - 29	1		1	1	1	1		1	1	0 - 29

Number of Institutions	425	425	425	425	425	425	425	425	425
Mean	43.0	55.0	45.7	48.4	58.5	44.4	53.2	55.9	52.4
Median	43	56	45	49	59	45	54	57	53
Standard Deviation	8.1	8.9	8.8	9.6	8.0	8.5	9.3	9.1	8.3

<sup>1</sup>Assessment Indicators for this test cannot be compared to testing years prior to 2005 due to changes in the Biology Test that were introduced in 2005.

<sup>2</sup>Assessment Indicator 1: Biochemistry and Cell Energetics  
 Assessment Indicator 2: Cellular Structure, Organization, Function  
 Assessment Indicator 3: Molecular Biology and Molecular Genetics  
 Assessment Indicator 4: Diversity of Organisms

Assessment Indicator 5: Organismal - Animals  
 Assessment Indicator 6: Organismal - Plants  
 Assessment Indicator 7: Population Genetics and Evolution  
 Assessment Indicator 8: Ecology  
 Assessment Indicator 9: Analytical Skills

Assessment Indicators are reported as *percent correct*.  
 % at or below based on percent below the lower limit of the score interval.