

Lumosity's Smartest Colleges 2013

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In 2012, Lumosity unveiled its first list of America's Smartest Colleges using game play data from its database of human cognitive performance - the largest of its kind in the world. Rankings were based on scores from over 60,000 college students who played Lumosity games that challenge five cognitive areas: memory, processing speed, flexibility, attention and problem solving. This was the first college ranking analysis to directly measure cognitive performance by looking at tasks that challenge the underlying core cognitive abilities of a student population. The findings were strongly correlated with both the school's median composite SAT and ACT scores, as well as the *U.S. News & World Report's* annual college rankings. This analysis aimed to provide college applicants another data point to determine what the right college fit might be for them. The complete 2012 Lumosity's Smartest Colleges white paper is available at:

<http://blog.lumosity.com/wp-content/uploads/2012/11/Lumositys-Smartest-Colleges.pdf>

This year's analysis of America's Smartest Colleges again drew from Lumosity's continuously growing database of over 50 million users - up from 30 million users in 2012. With this growth in the past year, we were able to improve our methodology by narrowing eligibility requirements, while still garnering a sample size of over 70,000 college students.

Methods and Analysis

The basic approach we took this year replicated the one we used in our 2012 list. As with our 2012 analysis, our dependent variables were a user's scores on the first game he or she played a game in each of the five Lumosity Brain Areas: Speed, Attention, Flexibility, Memory and Problem Solving. In order to be included in the analysis, a user must have played at least one game in each cognitive area and be between the ages of 17 and 24 at the time they played these games. Users were then mapped to universities based on either the IP address associated with their most recent login, or based on the domain of their reported email address. In the small number of cases where IP addresses and e-mail domain conflicted, we removed the user from our analysis. Once we identified an association with a particular university, we did not need to rely on the IP address or email address of the individual user. We report performance in the aggregate across users from that university.

For the 2013 analysis, we had additional inclusion criteria:

- We only included users who list their education level as having completed "high school" (possibly freshmen), "some college" (current students), or "bachelor's degree" (students who are about to or just recently graduated).
- We also included only users whose first five game plays occurred in the time period

between July 2012 to October 2013, in order to increase the probability that the game scores were generated by a *current student at the university*.

Game scores were normalized using an inverse rank normalization for each game. We controlled for the effects of gender, linear and quadratic effects of age, and the interactions of gender and both age variables by fitting linear regression models predicting the normalized score for each game. This approach was slightly altered from last year. Last year we controlled for demographic covariates at a Brain Area level. Because the effects of age can differ across games within the same cognitive area, we decided that adjusting within each game would better correct for aging effects. Games that were played fewer than 1000 times within this sample were removed prior to calculating norms, resulting in a candidate sample of 95,708 users. The resulting partialled scores were then added together and renormalized to create our Grand Index score.

We ranked institutions based on their median Grand Index score. The full list includes all institutions with at least 50 users who had complete score and demographic data. This cutoff was chosen in order to improve the reliability of our findings while still providing good coverage across a large number of schools. The cutoff resulted in a final total sample of 72,388 users (median age = 21.1 years, 49.6% female), who were affiliated with 456 distinct institutions. The top 50 schools on the Grand Index are shown below. The full list is available at the end of this document.

Top 50 Overall

2013 Rank	University	Median Grand Index	2012 Rank
1	Washington University in St Louis	115.34	6
2	Massachusetts Institute of Technology	114.50	1
3	Princeton University	114.11	39
4	Northwestern University	112.36	4
5	Carnegie Mellon University	111.99	17
6	University of Chicago	111.93	16
7	Rice University	111.22	46
8	Harvard University	111.15	2
9	Yale University	110.65	5
10	Dartmouth College	110.63	7
11	Tufts University	110.47	36
12	Stanford University	110.32	3
13	Georgetown University	110.10	122
13	University of Notre Dame	110.07	34
15	University of Virginia	109.54	44

16	Duke University	109.36	10
17	Bucknell University	108.83	37
17	Vanderbilt University	108.79	15
19	College of William and Mary	108.44	11
19	Boston College	108.43	25
21	Bowdoin College	108.34	40
22	Johns Hopkins University	108.19	47
23	Cornell University	108.14	52
23	University of California-San Diego	108.10	66
23	Georgia Institute of Technology	108.07	58
26	Columbia University in the City of New York	107.99	61
27	Worcester Polytechnic Institute	107.68	19
28	Boston University	107.48	26
29	Wheaton College (Ill.)	107.36	--
30	Case Western Reserve University	107.18	24
31	Trinity College	107.11	--
31	University of California-Berkeley	107.10	14
31	University of Southern California	107.09	115
34	University of Pennsylvania	107.04	12
34	Brown University	106.99	30
36	Washington and Lee University	106.70	--
36	Colorado School of Mines	106.67	83
38	Lafayette College	106.50	22
38	University of North Carolina at Chapel Hill	106.48	57
40	University of the Pacific	106.42	27
41	The College of New Jersey	106.33	50
41	Colgate University	106.31	45
43	University of Richmond	106.25	--
44	Brandeis University	106.14	109
44	University of Michigan-Ann Arbor	106.13	59
46	Bethel University (Minn.)	105.98	101
47	Villanova University	105.93	35
47	The University of Texas at Austin	105.91	93
49	Oberlin College	105.85	33
49	Lehigh University	105.84	32

Trends and additional analyses

Relationships to relevant institution-level variables

Last year we showed evidence that an institution's median SAT and ACT scores were highly correlated with that institution's score on our measure, and this remains the case this year as well ($r = .85$ and $.84$, respectively). Of course, the observed correlation is at the

institution-level, not at the level of the individual students, so the correlation between an individual's SAT score and their score on our metric might very well be lower. We also found that the relationship between SAT scores and the Grand Index is highest for Problem Solving and Flexibility, where the most common games users played rely on knowledge of particular content, like arithmetic and vocabulary. In the other areas, the correlations were lower. The table below provides the correlation between the estimated median SAT composite for each institution (based on the 25th and 75th percentiles for Math and Reading sections, provided by IPEDS) and the institution's score in that Brain Area.

Brain Area	Most played game	Correlation with SAT composite
Attention	Eagle Eye	.54
Flexibility	Word Bubbles Rising	.81
Memory	Memory Matrix	.65
Problem Solving	Raindrops	.85
Speed	Speed Match	.73

Relationship to other rankings

Our ranking included 175 of the institutions in the *U.S. News & World Report* Top 200. We found a strong rank order correlation between our rankings and the *U.S. News & World Report* Top 200 rankings for these institutions (Spearman's $\rho = .83$).

Brain Area competencies

We also observed some interesting differences in the rankings when we looked at the five different cognitive areas that were challenged by the Lumosity games. While all of the correlations between area scores within a school were moderate to strong (min $r = .54$ for Attention and Memory, max $r = .80$ for Problem Solving and Flexibility), the specific ordering of institutions differed by area. The top 25 schools are shown below in separate tables for each area.

Attention

Rank	Institution	Attention Score	2013 Rank Overall
1	Tufts University	108.46	11
2	Trinity College	107.37	31
3	University of Alabama in Huntsville	106.91	88
4	Carnegie Mellon University	106.76	5

5	Washington University in St Louis	106.16	1
6	Loyola University Maryland	105.94	71
7	Western Washington University	105.88	129
8	Stanford University	105.85	12
9	Princeton University	105.83	3
10	Shenandoah University	105.48	218
11	Dartmouth College	105.30	10
12	College of William and Mary	105.29	19
13	Wheaton College (Ill.)	105.18	29
14	Rice University	105.07	7
15	Bucknell University	105.02	17
16	The University of Texas at Austin	104.82	47
17	The College of New Jersey	104.79	41
18	University of New Haven	104.68	73
19	Bowdoin College	104.65	21
20	Massachusetts Institute of Technology	104.55	2
21	Clark University	104.52	99
22	University of New England	104.49	157
23	Northeastern University	104.38	54
24	University of Notre Dame	104.27	13
25	University of Nebraska at Kearney	104.26	194

Speed

Rank	Institution	Speed score	2013 Rank Overall
1	Dartmouth College	111.26	10
2	Washington University in St Louis	109.58	1
3	Massachusetts Institute of Technology	108.72	2
4	Duke University	108.61	16
5	Princeton University	107.77	3
6	Colorado School of Mines	107.09	36
7	Worcester Polytechnic Institute	106.98	27
8	Case Western Reserve University	106.69	30
9	Tufts University	106.67	11
10	Yale University	106.38	9
11	Rose-Hulman Institute of Technology	106.19	80
12	Northwestern University	105.98	4
13	University of Chicago	105.94	6

14	Trinity College	105.71	31
15	Hamilton College	105.60	151
16	University of the Pacific	105.59	40
17	University of Notre Dame	105.57	13
18	Stanford University	105.52	12
19	Clarkson University	105.46	80
20	University of Pennsylvania	105.35	34
21	Harvard University	105.31	8
22	Tarleton State University	105.25	180
23	Lafayette College	105.20	38
24	Oberlin College	105.18	49
25	Pepperdine University	105.13	151

Memory

Rank	Institution	Memory score	2013 Rank Overall
1	Massachusetts Institute of Technology	109.25	2
2	Rose-Hulman Institute of Technology	108.84	80
3	University of Chicago	108.28	6
4	Washington University in St Louis	107.77	1
5	Colorado School of Mines	107.68	36
6	Harvard University	107.28	8
7	Carnegie Mellon University	106.99	5
8	Rice University	106.89	7
9	Worcester Polytechnic Institute	106.37	27
10	University of California-San Diego	106.34	23
11	Yale University	106.31	9
12	Stanford University	106.08	12
13	Georgetown University	106.05	13
14	University of Notre Dame	105.85	13
15	Northwestern University	105.82	4
16	University of South Dakota	105.58	160
17	Oberlin College	105.34	49
18	Trinity University	105.28	51
19	Lehigh University	105.09	49
20	College of William and Mary	105.05	19
21	The College of New Jersey	104.98	41
22	University of Washington	104.94	68

23	Princeton University	104.89	3
24	Duke University	104.86	16
25	Gonzaga University	104.68	54

Problem-solving

Rank	Institution	Problem-solving score	2013 Rank Overall
1	Massachusetts Institute of Technology	116.51	2
2	Rice University	115.14	7
3	Washington University in St Louis	114.95	1
4	Northwestern University	113.31	4
5	Carnegie Mellon University	113.20	5
6	Princeton University	112.70	3
7	Stanford University	112.30	12
8	Vanderbilt University	111.75	17
9	University of Notre Dame	111.61	13
10	Dartmouth College	111.38	10
11	University of Chicago	111.38	6
12	Yale University	110.79	9
13	Columbia University in the City of New York	110.50	26
14	University of California-Berkeley	110.48	31
15	Georgetown University	109.84	13
16	Duke University	109.73	16
17	University of North Carolina at Chapel Hill	109.61	38
18	Brown University	109.44	34
19	Tufts University	109.42	11
20	University of California-San Diego	109.32	23
21	Georgia Institute of Technology	109.23	23
22	Bowdoin College	109.16	21
23	University of California-Los Angeles	109.09	61
24	Trinity College	108.89	31
25	Boston College	108.78	19

Flexibility

Rank	Institution	Flexibility score	2013 Rank Overall
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1	Yale University	111.33	9
2	Wesleyan University	111.17	56
3	Duke University	111.16	16
4	Princeton University	110.58	3
5	Washington University in St Louis	110.20	1
6	Vanderbilt University	110.02	17
7	Harvard University	109.88	8
8	Georgetown University	109.81	13
9	Northwestern University	109.76	4
10	Tufts University	109.36	11
11	Stanford University	109.15	12
12	Carnegie Mellon University	109.13	5
13	Massachusetts Institute of Technology	109.09	2
14	Rice University	107.95	7
15	Lehigh University	107.56	49
16	University of Chicago	107.31	6
17	Boston College	107.30	19
18	Oberlin College	107.22	49
19	University of Notre Dame	106.88	13
20	Bucknell University	106.86	17
21	Cornell University	106.69	23
22	Worcester Polytechnic Institute	106.57	27
23	University of Pennsylvania	106.42	34
24	Johns Hopkins University	106.42	22
25	Washington and Lee University	106.25	36

Limitations

One of the criticisms of last year's rankings was that the Grand Index measure was not validated, unlike the SAT. Given that our metric is highly correlated with the SAT at the institution-level, we are less concerned about this. In addition, while SATs have been shown to be strongly correlated with fluid intelligence, they rely on a great deal of crystallized knowledge related to mathematics and vocabulary. As we described earlier, tasks that rely less on crystallized knowledge, such our Attention and Memory games, show less of a relationship with SAT scores. This findings suggests that these tasks may be capturing information about the cognitive abilities of these students that are less well captured by standardized tests used in the college admissions process.

Some have also expressed concern that some prominent schools such as Caltech were missing from our analysis. We have chosen to set a minimum cutoff of at least 50 users for all universities included in the survey. As a school with fewer than 1,000 undergraduates, it is not surprising that Caltech was unable to reach our threshold. For the same reason, many liberal arts colleges are not able to be included on the list. We would of course prefer to have more data from these institutions so we could include them in our rankings.

In addition, the general limitations with this type of analysis that we noted last year still hold:

- Our approach to identifying users as university students based on their email domain, IP address and age is imperfect. Some of these users may in fact be university-age staff or graduate students. In addition, a particular university domain is not necessarily an indicator of a lasting affiliation with a university, but it was useful in allowing us to augment the number of users available for a number of schools.
- Some large public university systems rely on a single second-level domain name (e.g., *uminn* for the University of Minnesota system) for all schools in the system. In these cases, these schools have been collapsed into one, representing the flagship school, and the external data for the flagship school has been applied in our comparison to standardized test scores and *U.S. News* rankings
- We may not have complete coverage across cognitive abilities, since our data is limited to performance on the games currently included as part of the Lumosity training system. It is also possible that some abilities are over-weighted in our overall metric.
- We may be sampling from different segments of the student population at different universities. We controlled for demographic factors as an attempt to deal with this possibility, but there may be important variables that we cannot observe in the data available to us. At the same time, without a hypothesis about *why* different kinds of students are more likely to use our product at one university compared to another, we are not particularly concerned about this issue.

Complete Rankings

Rank	Institution	Median Grand Index
1	Washington University in St Louis	115.34
2	Massachusetts Institute of Technology	114.50
3	Princeton University	114.11
4	Northwestern University	112.36
5	Carnegie Mellon University	111.99

6	University of Chicago	111.93
7	Rice University	111.22
8	Harvard University	111.15
9	Yale University	110.65
10	Dartmouth College	110.63
11	Tufts University	110.47
12	Stanford University	110.32
13	Georgetown University	110.10
13	University of Notre Dame	110.07
15	University of Virginia	109.54
16	Duke University	109.36
17	Bucknell University	108.83
17	Vanderbilt University	108.79
19	College of William and Mary	108.44
19	Boston College	108.43
21	Bowdoin College	108.34
22	Johns Hopkins University	108.19
23	Cornell University	108.14
23	University of California-San Diego	108.10
23	Georgia Institute of Technology	108.07
26	Columbia University in the City of New York	107.99
27	Worcester Polytechnic Institute	107.68
28	Boston University	107.48
29	Wheaton College	107.36
30	Case Western Reserve University	107.18
31	Trinity College	107.11
31	University of California-Berkeley	107.10
31	University of Southern California	107.09
34	University of Pennsylvania	107.04

34	Brown University	106.99
36	Washington and Lee University	106.70
36	Colorado School of Mines	106.67
38	Lafayette College	106.50
38	University of North Carolina at Chapel Hill	106.48
40	University of the Pacific	106.42
41	The College of New Jersey	106.33
41	Colgate University	106.31
43	University of Richmond	106.25
44	Brandeis University	106.14
44	University of Michigan-Ann Arbor	106.13
46	Bethel University (Minn.)	105.98
47	Villanova University	105.93
47	The University of Texas at Austin	105.91
49	Oberlin College	105.85
49	Lehigh University	105.84
51	Trinity University	105.63
51	University of Pittsburgh	105.62
51	Colby College	105.57
54	Northeastern University	105.55
54	Gonzaga University	105.53
56	Wesleyan University	105.44
57	California Polytechnic State University-San Luis Obispo	105.35
58	New York University	105.22
58	Vassar College	105.17
58	Tulane University of Louisiana	105.17
61	University of California-Irvine	105.14
61	University of California-Los Angeles	105.10
61	University of Wisconsin-Madison	105.09

61	University of Kansas	105.06
65	University of Connecticut	104.92
65	SUNY at Binghamton	104.90
67	University of Illinois at Urbana-Champaign	104.82
68	SUNY College at Geneseo	104.75
68	University of California-Santa Barbara	104.71
68	University of Washington	104.67
71	Loyola University Maryland	104.63
71	University of Minnesota-Twin Cities	104.58
73	Virginia Polytechnic Institute and State University	104.52
73	University of New Haven	104.49
75	Bentley University	104.39
75	Butler University	104.37
77	University of California-Davis	104.34
78	Baylor University	104.18
79	Elon University	104.09
80	Allegheny College	104.04
80	Rose-Hulman Institute of Technology	104.03
80	University of Central Florida	104.01
80	Ohio Northern University	104.01
80	Clarkson University	103.98
80	University of Florida	103.95
86	Rochester Institute of Technology	103.93
86	Albion College	103.90
88	Gettysburg College	103.82
88	Carthage College	103.79
88	Bryant University	103.78
88	University of Alabama in Huntsville	103.77
92	George Washington University	103.72

92	Southern Methodist University	103.68
92	Missouri University of Science and Technology	103.68
92	St Olaf College	103.67
96	Texas A & M University-College Station	103.62
96	North Carolina State University at Raleigh	103.59
96	Concordia College at Moorhead	103.58
99	Truman State University	103.53
99	Connecticut College	103.52
99	University of Georgia	103.50
99	Clark University	103.48
103	Wake Forest University	103.42
103	Ramapo College of New Jersey	103.38
105	Occidental College	103.27
106	Oregon State University	103.24
106	University of Rochester	103.24
106	Augustana College	103.20
106	University of Wisconsin-Eau Claire	103.18
106	Ohio State University	103.17
106	Wellesley College	103.16
112	Eastern Connecticut State University	103.14
112	Miami University-Oxford	103.12
112	Luther College	103.10
112	Stony Brook University	103.10
116	University of Portland	103.02
116	Ohio Wesleyan University	102.97
118	University of Wisconsin-Green Bay	102.92
118	University of Delaware	102.89
118	Cedarville University	102.86
118	California State University-Long Beach	102.86

122	Loyola University Chicago	102.85
122	University of Nebraska-Lincoln	102.84
122	Smith College	102.84
122	Purdue University	102.82
122	Baldwin Wallace University	102.81
122	University at Buffalo	102.77
122	University of Iowa	102.75
129	Western Washington University	102.68
129	University of San Francisco	102.67
129	Christopher Newport University	102.66
129	The Richard Stockton College of New Jersey	102.66
133	Clemson University	102.64
133	Drexel University	102.58
135	St Mary's College of Maryland	102.53
135	University of Miami	102.49
135	Miami University-Hamilton	102.46
138	University of Houston	102.39
138	Denison University	102.37
140	Michigan State University	102.31
141	Bradley University	102.22
141	University of San Diego	102.21
141	James Madison University	102.19
141	Fordham University	102.16
141	Robert Morris University	102.16
146	Lipscomb University	102.12
146	University of Southern Indiana	102.11
146	Calvin College	102.09
146	Pennsylvania State University	102.06
146	University of Massachusetts Amherst	102.05

151	University of Oklahoma Norman Campus	102.02
151	University of Kentucky	102.02
151	University of Denver	101.99
151	Hamilton College	101.98
151	Pepperdine University	101.97
151	Franklin and Marshall College	101.97
157	Saint Louis University	101.92
157	University of New England	101.91
157	Kansas State University	101.86
160	George Mason University	101.85
160	Messiah College	101.82
160	Lee University	101.80
160	University of South Dakota	101.80
160	Drake University	101.78
160	Michigan Technological University	101.76
166	University of Maryland-College Park	101.74
166	Arizona State University	101.73
168	Auburn University	101.59
168	Chapman University	101.57
170	Marquette University	101.55
170	University of Northern Iowa	101.50
170	Texas Christian University	101.50
170	Sewanee-The University of the South	101.47
174	Florida State University	101.37
175	Iowa State University	101.32
175	New Jersey Institute of Technology	101.31
175	Canisius College	101.30
178	Indiana University-Bloomington	101.23
178	University of Toledo	101.21

180	University of Arizona	101.14
180	Winona State University	101.09
180	Tarleton State University	101.06
183	University of Wisconsin-La Crosse	101.04
183	Harding University	101.03
183	University of Dayton	100.98
183	Rowan University	100.96
187	Hope College	100.94
187	College of the Holy Cross	100.91
187	Temple University	100.89
187	University of South Florida	100.89
187	Valparaiso University	100.89
187	Northwest Missouri State University	100.87
187	University of North Dakota	100.85
194	University of Tulsa	100.82
194	University of Louisville	100.81
194	Saint Norbert College	100.79
194	Duquesne University	100.79
194	University of Nebraska at Kearney	100.75
199	Xavier University	100.74
199	Syracuse University	100.67
201	Longwood University	100.64
201	Washington State University	100.61
201	Rutgers University-New Brunswick	100.58
201	University of Hawaii at Manoa	100.56
205	Loyola Marymount University	100.55
205	University of Illinois at Chicago	100.52
205	University of Vermont	100.49
205	University of Colorado Boulder	100.49

205	University of Maryland-Baltimore County	100.46
210	Wright State University	100.41
210	Abilene Christian University	100.40
210	University of West Alabama	100.37
210	University of Oregon	100.37
214	The University of Tennessee	100.34
214	College of Charleston	100.33
214	John Carroll University	100.31
214	Central Connecticut State University	100.29
218	Berklee College of Music	100.21
218	Boise State University	100.19
218	University of South Carolina-Columbia	100.18
218	Shenandoah University	100.17
218	California State University-Fullerton	100.15
223	University of Alabama at Birmingham	100.12
223	North Dakota State University	100.09
223	SUNY at Fredonia	100.07
223	High Point University	100.06
223	Lock Haven University	100.06
228	Bloomsburg University of Pennsylvania	100.03
228	University of Utah	100.00
228	West Virginia University	99.97
228	Florida Gulf Coast University	99.95
232	DePaul University	99.92
232	Hofstra University	99.87
232	Florida Atlantic University	99.85
235	Salisbury University	99.84
235	Appalachian State University	99.82
235	University of Missouri-Kansas City	99.81

238	Central Michigan University	99.71
238	Utah State University	99.69
238	University of Arkansas	99.67
241	Murray State University	99.59
242	Angelo State University	99.54
242	Illinois State University	99.52
242	University of North Carolina Wilmington	99.50
242	University of California-Santa Cruz	99.47
242	University of California-Riverside	99.46
247	Grand Valley State University	99.35
248	Creighton University	99.33
248	San Diego State University	99.30
248	University of Missouri-Columbia	99.29
248	University of Wisconsin-Whitewater	99.28
248	DePauw University	99.25
253	University of Wisconsin-Stevens Point	99.22
253	Quinnipiac University	99.19
253	The College of Saint Scholastica	99.16
256	University of Central Oklahoma	99.07
257	Southeast Missouri State University	99.04
257	Louisiana State University and Agricultural & Mechanical College	99.00
257	California State University-San Marcos	98.98
257	University of Wisconsin-Oshkosh	98.97
261	University of St Thomas	98.94
261	Adrian College	98.93
261	College of Saint Benedict	98.93
261	Montana State University	98.92
261	Pacific Lutheran University	98.91
261	University of Alaska Anchorage	98.90

261	Youngstown State University	98.89
261	Slippery Rock University of Pennsylvania	98.88
261	Oklahoma State University	98.86
261	University of Mary Washington	98.85
271	Bard College	98.81
271	University of Wisconsin-Milwaukee	98.81
271	Seattle Pacific University	98.77
271	Marist College	98.76
275	University of Akron	98.69
275	University of Rhode Island	98.68
275	Ithaca College	98.66
278	Southern Illinois University Edwardsville	98.64
278	University of Wisconsin-Platteville	98.61
280	Providence College	98.53
280	Oakland University	98.50
280	Saint Joseph's University	98.48
283	SUNY at Albany	98.45
283	Missouri State University-Springfield	98.44
283	Old Dominion University	98.44
283	Indiana University-Purdue University-Indianapolis	98.42
283	Le Moyne College	98.41
283	The College of Wooster	98.41
283	Plymouth State University	98.41
283	The University of West Florida	98.40
283	Roger Williams University	98.40
283	The University of Texas at Arlington	98.39
283	Texas Tech University	98.38
294	Ball State University	98.35
294	Portland State University	98.27

294	American University	98.25
297	Georgia College & State University	98.22
297	University of Scranton	98.21
297	University of Nebraska at Omaha	98.20
297	Arkansas State University	98.19
297	St. John's University-New York	98.17
297	SUNY College at Potsdam	98.16
297	University of Arkansas at Little Rock	98.16
304	Susquehanna University	98.12
304	Mississippi State University	98.11
304	St Lawrence University	98.10
304	York College Pennsylvania	98.08
308	Towson University	98.03
308	Tennessee Technological University	98.01
308	Rider University	97.99
308	South Dakota State University	97.98
308	Wentworth Institute of Technology	97.97
308	The University of Alabama	97.97
308	University of Cincinnati	97.96
315	Wichita State University	97.93
315	Ohio University	97.93
315	Catholic University of America	97.92
315	SUNY College at Oneonta	97.89
315	Bridgewater State University	97.88
315	University of North Carolina at Charlotte	97.86
321	University of Massachusetts-Dartmouth	97.84
321	Florida Institute of Technology	97.83
321	Western Kentucky University	97.82
321	University of Northern Colorado	97.82

321	Worcester State University	97.81
326	University of Massachusetts-Lowell	97.74
326	Mount Holyoke College	97.71
326	Kent State University at Kent	97.69
326	Georgia State University	97.67
330	University of North Florida	97.64
330	California State University-Chico	97.59
332	Virginia Commonwealth University	97.53
332	University of California-Merced	97.51
332	University of North Texas	97.50
332	University of Wyoming	97.49
332	Colorado State University-Fort Collins	97.48
332	West Chester University of Pennsylvania	97.45
332	Azusa Pacific University	97.45
339	Sacred Heart University	97.45
339	Montclair State University	97.43
339	Liberty University	97.40
339	Western Michigan University	97.37
343	Biola University	97.32
343	California State Polytechnic University-Pomona	97.31
343	Kennesaw State University	97.30
346	Ashland University	97.24
346	SUNY College at Oswego	97.24
346	Stetson University	97.23
346	University of North Carolina at Asheville	97.21
350	The University of Montana	97.14
350	Westfield State University	97.13
350	Shippensburg University of Pennsylvania	97.10
350	University of Wisconsin-River Falls	97.07

354	Sam Houston State University	97.04
354	Bowling Green State University	96.97
356	Southern Adventist University	96.93
356	Campbell University	96.88
358	Eastern Michigan University	96.83
358	The University of Tennessee at Chattanooga	96.79
358	University of Maine	96.76
361	University of Central Missouri	96.74
361	University of New Mexico	96.71
361	Eckerd College	96.71
361	Louisiana Tech University	96.69
361	Saginaw Valley State University	96.67
366	Morehead State University	96.57
366	Millersville University of Pennsylvania	96.55
368	Northern Arizona University	96.52
368	Florida International University	96.46
370	California University of Pennsylvania	96.44
370	Indiana University of Pennsylvania	96.43
370	Minnesota State University-Mankato	96.40
370	Buffalo State SUNY	96.39
374	Marshall University	96.34
374	Armstrong Atlantic State University	96.32
374	SUNY College at Cortland	96.31
374	Eastern Kentucky University	96.31
378	East Tennessee State University	96.23
378	William Paterson University of New Jersey	96.22
378	University of New Hampshire	96.20
378	Kutztown University of Pennsylvania	96.18
378	California State University-Monterey Bay	96.16

378	Merrimack College	96.15
384	SUNY College at Brockport	96.11
384	University of Idaho	96.11
384	Wayne State University	96.10
387	Northern Kentucky University	96.05
387	University of Memphis	95.99
387	University of Hartford	95.96
387	Central Washington University	95.95
391	Grand Canyon University	95.88
391	University of West Georgia	95.87
391	University of Wisconsin-Stout	95.86
394	University of New Orleans	95.77
394	Middle Tennessee State University	95.75
396	Coastal Carolina University	95.73
396	Kean University	95.69
396	SUNY College at Plattsburgh	95.65
399	University of Southern Mississippi	95.58
400	Southern Illinois University Carbondale	95.50
400	California State University-Fresno	95.49
400	Ferris State University	95.48
400	Suffolk University	95.48
404	Brigham Young University-Idaho	95.32
405	Southeastern Louisiana University	95.24
405	University of Mississippi	95.22
407	The University of Tennessee-Martin	95.12
407	Saint Cloud State University	95.07
407	Keene State College	95.06
407	University of North Carolina at Greensboro	95.06
407	East Carolina University	95.05

412	The University of Tampa	95.04
412	East Stroudsburg University of Pennsylvania	95.02
412	Valdosta State University	95.00
412	Pace University-New York	94.98
412	Indiana State University	94.96
417	New Mexico State University	94.95
417	Texas State University-San Marcos	94.90
417	Georgia Southern University	94.88
417	Salem State University	94.86
421	California State University-Northridge	94.83
421	Radford University	94.81
421	Clarion University of Pennsylvania	94.78
424	Idaho State University	94.67
425	Eastern Illinois University	94.63
425	San Francisco State University	94.63
425	California State University-Sacramento	94.58
425	Columbia College-Chicago	94.57
429	Manhattan College	94.51
430	State University of New York at New Paltz	94.45
430	Northeastern State University	94.44
430	Rhode Island College	94.44
430	Winthrop University	94.42
430	Northern Michigan University	94.38
435	Eastern Washington University	94.29
436	Sonoma State University	94.21
436	Stephen F Austin State University	94.16
438	University of North Alabama	94.07
438	University of Massachusetts-Boston	94.06
440	The University of Texas at El Paso	93.99

441	Northern Illinois University	93.84
442	Humboldt State University	93.73
443	Western Illinois University	93.56
444	Citadel Military College of South Carolina	93.23
445	Nova Southeastern University	92.97
446	University of Louisiana at Lafayette	92.79
447	Indiana University-Purdue University-Fort Wayne	92.63
447	University of Central Arkansas	92.59
449	North Carolina A & T State University	92.32
450	La Salle University	92.23
451	California State University-San Bernardino	92.02
452	Western Carolina University	91.86
453	Fairleigh Dickinson University	91.73
454	The University of Texas-Pan American	91.38
455	University of North Carolina at Pembroke	89.09
456	Jacksonville State University	87.36