Dr. Michael Rappa, Founding Director

MASTER OF SCIENCE IN ANALYTICS

2018 BENCHMARK REPORT

Each year the Master of Science in Analytics (MSA) is benchmarked against leading MBA programs with comparably-sized enrollment on two-dozen metrics using publicly available data. Why MBA programs? Because too few analytics and data science programs publicly disclose student outcomes with the thoroughness and consistency needed to accurately benchmark. Also, the variation in cohort enrollment size and program formats make comparisons difficult.

MBA programs have a long history of reporting enrollment and outcomes data as a part of the annual ranking process conducted by organizations such as *U.S. News*. The data are reported under clear and consistent guidelines that make fair and accurate benchmarking possible. The Institute follows these guidelines in reporting results for the MSA program. Other analytics and data science programs are encouraged to do the same.

The rank order (and cohort size) of the top MBA programs and the requisite range for benchmark comparisons in 2018 (highlighted) are shown below.

- 1. Harvard / 928
- 1. Chicago (Booth) / 582
- 3. Pennsylvania (Wharton) / 863
- 4. Stanford / 418
- 5. MIT (Sloan) / 404
- 6. Northwestern (Kellogg) / 478
- 7. Berkeley (Haas) / 282
- 7. Michigan (Ross) / 422
- 9. Columbia / 549
- 10. Dartmouth (Tuck) / 293
- 11. Duke (Fugua) / 433
- 11. Yale / 348
- 13. New York (Stern) / 399
- 13. Virginia (Darden) / 326
- 15. Cornell (Johnson) / 277
- 16. UCLA (Anderson) / 363

- 17. UT-Austin (McCombs) / 265
- 17. Carnegie Mellon (Tepper) / 220
- 19. UNC (Kenan-Flagler) / 291
- 20. Emory (Goizueta) / 172
- 20. Southern California (Marshall) / 225
- 22. Washington (Foster) / 90
- 23. Rice (Jones) / 118
- 23. Washington St. Louis (Olin) / 145
- 25. Georgetown (McDonough) / 276
- 26. Vanderbilt (Owen) / 172
- 27. Indiana (Kelley) / 204
- 28. Georgia Tech (Scheller) / 81
- 29. Arizona State (Carey) / 109
- 29. Minnesota (Carlson) / 88
- 31. Ohio State (Fisher) / 91
- 31. Notre Dame (Mendoza) / 131

The highest ranked MBA programs with similar cohort sizes to the MSA fall between 21st and 29th in the ranking. (The highest ranked MBA programs, 20th or above, have larger full-time cohorts in the range of 180-900 students.) Selected for comparison are the top-5 highest-ranked MBA programs with similar cohort sizes to the MSA program, enrolling between 80 and 120 students:

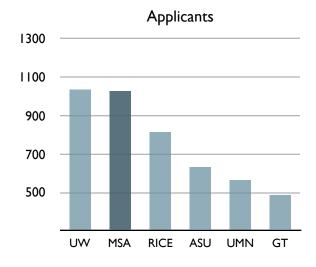
- 22. University of Washington (UW)
- 23. Rice University (RICE)
- 28. Georgia Tech (GT)
- 29. Arizona State University (ASU)
- 29. University of Minnesota (UMN)

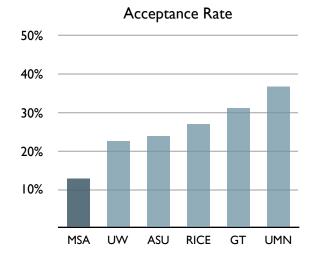
The benchmark study is updated each year (in March/April) with the latest data from *U.S. News*. The schools used in this study may change from year to year based on the changes in the annual ranking or cohort sizes.

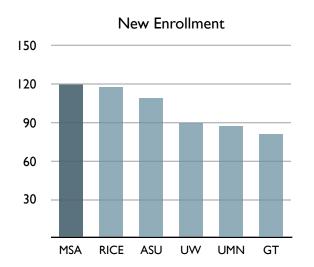
For more information on the U.S. News ranking of business schools, see: https://www.usnews.com/best-graduate-schools/top-business-schools

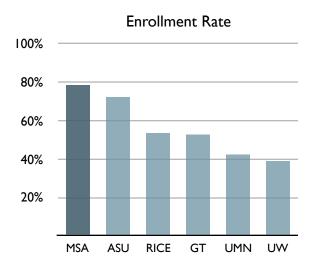
Based on the available data, the following metrics are used to benchmark the MSA against the top-5 comparably-sized MBA programs:

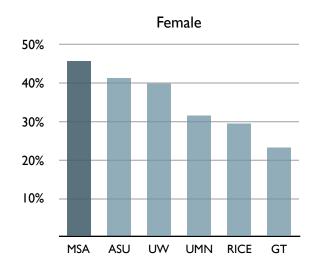
Number of Applicants	Average Base Salary		
Acceptance Rate	% Reporting Salary Data		
Enrollment	% Employed at Graduation		
Enrollment Rate	% Employed 3-Months After Graduation		
% Female Students	Signing Bonus		
% International Students	% Receiving Signing Bonus		
Length of Work Experience	Tuition and Fees		
% Work Experience	Tuition and Fees – Residents		
Age	Average Indebtedness		
Undergraduate GPA	% Students with Debt		
% Seeking Employment	ROI Payback Period		
Number Seeking Employment	ROI Payback Period – Residents		

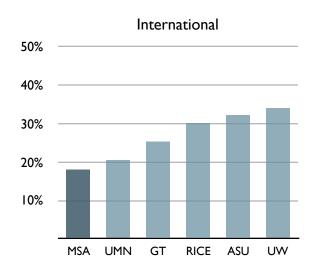


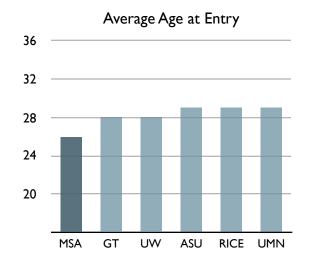


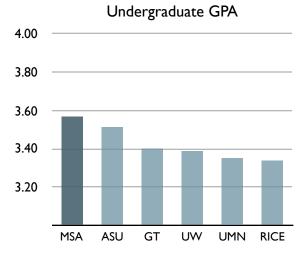


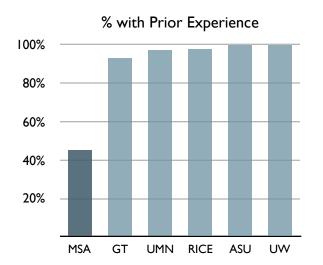


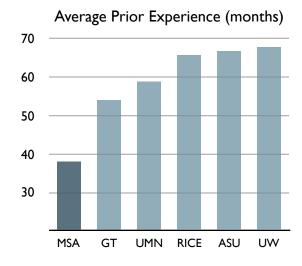


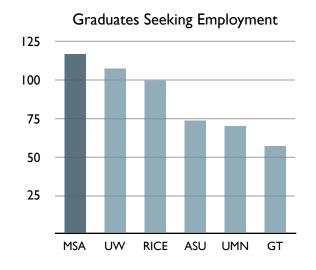


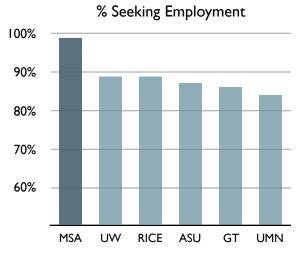


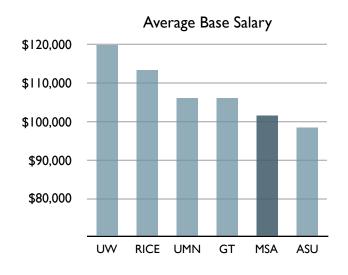


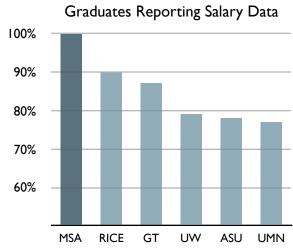


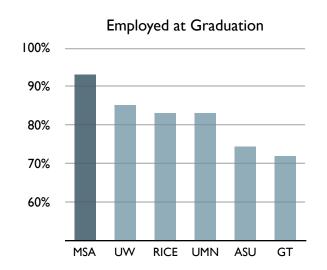


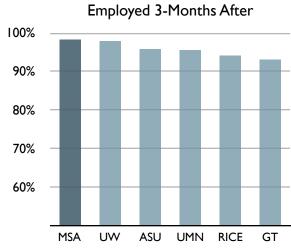


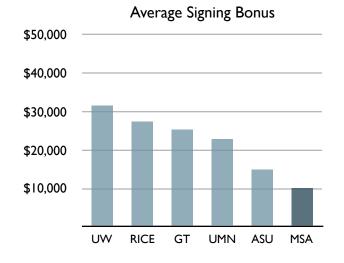


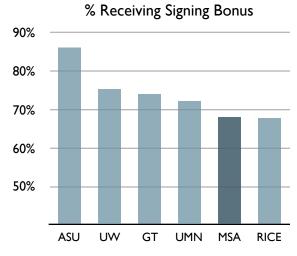


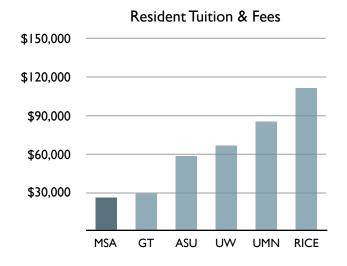


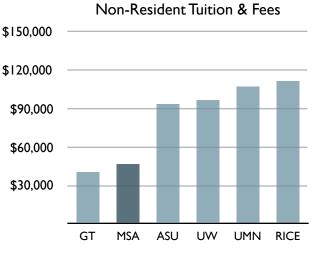


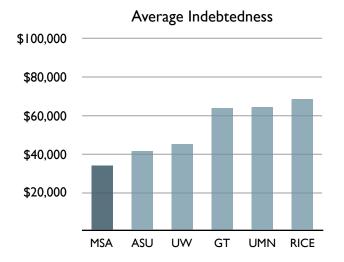


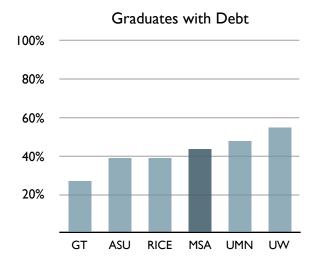


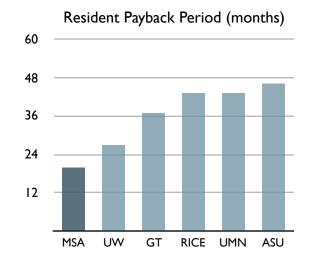


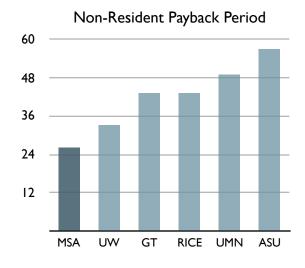












		MBA PROGRAMS						
	MSA	AVG.	UW	RICE	GT	ASU	UMN	
US News Rank (March 2018)	-	-	22	23	28	29	29	
Number of Applicants	1032	708	1038	813	489	634	565	
Acceptance Rate	14%	28%	22%	27%	31%	24%	37%	
Enrollment	115	97	90	118	81	109	88	
Enrollment Rate	78%	52%	39%	53%	53%	72%	42%	
% Female Students	46%	33%	40%	29%	23%	41%	32%	
% International Students	18%	28%	34%	30%	25%	32%	21%	
Average Age	25	29	28	29	28	29	29	
Undergraduate GPA	3.57	3.40	3.39	3.34	3.40	3.51	3.35	
Prior Work Experience (mo.)	38	63	68	66	54	67	59	
% Work Experience	45%	98%	100%	98%	93%	100%	97%	
% Seeking New Employment	99%	87%	89%	89%	86%	87%	84%	
Average Base Salary (\$000)	102	109	120	113	106	99	106	
Reporting Salary Data	100%	82%	79%	90%	87%	78%	77%	
Employed at Graduation	93%	79%	85%	83%	72%	74%	83%	
Employed 3-mo. After	98%	95%	98%	94%	93%	96%	96%	
Signing Bonus (\$000)	10	24	32	27	25	15	23	
% Receiving Signing Bonus	68%	75%	75%	68%	74%	86%	72%	
Tuition and Fees (\$000)	47	94	97	112	40	112	107	
Tuition and Fees – Residents	27	60	67	-	29	58	86	
Average Indebtedness (\$000)	34	57	45	69	64	41	65	
Students with Debt	44%	42%	55%	39%	27%	39%	48%	
Payback Period (months)	26	45	33	43	43	57	49	
Payback Period – Residents	20	38	27	-	37	46	43	

About the Data

Data in this report are compiled primarily from two sources: (1) Institute records on admissions and employment published annually; and (2) publicly available information from each of the universities chosen for comparison and compiled by U.S. News in its annual ranking of business schools. Business schools comply with certain accepted guidelines in compiling admissions and employment data, and the Institute abides by those guidelines, as closely as possible, in its own reporting.

Please make note of the following:

- (1) The MSA is 10-months in duration (running from late June to early May each year. By comparison, Full-time MBA program are typically 21 months (or four semesters over two academic years.
- (2) The length of the MBA program adds to the overall cost of degree, in terms of tuition, and lost wages while in school. The cost can be mitigated by summer internships between the first and second year.
- (3) About half of MSA candidates enter the program without prior professional work experience (i.e., directly out of their undergraduate degree program). By contrast, in the benchmark, almost all MBA candidates have prior work experience averaging more than 5 years. For this reason, data for MSA candidates with prior work experience is used in the benchmark comparison on starting salaries. Although it reduces the size of the population for comparison, it's important to note that MSA salary reporting is 99% compares to 81% on average for the MBA programs in the benchmark.
- (4) The benchmark report is updated annually. Universities used in the comparison may change due to changing in the ranking, as well as changes in the cohort sizes.
- (5) The Return on Investment (ROI) payback period does not taken into account scholarship money that may have been received by a student. It is calculated as follows:

	((Pre-Salary + Tuition) x Duration) – (Signing Bonus + Summer Salary)	
Payback period (months) =		x 12
	(Post-Salary – Pre-Salary)	

Source URL: http://analytics.ncsu.edu/reports/benchmark/2018.pdf

http://analytics.ncsu.edu

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