



## Chapter 12 Academic & Reputational Lists

The publication of university and college rankings has grown increasingly popular since *U.S. News & World Report* released the results of its first reputational survey of U.S. universities in 1983. While some rankings today remain a compilation of opinions, most rankings (*USN&WR* included) now blend survey results and quantitative data. The sponsor of each ranking sorts and organizes the data and opinions by whatever method it chooses and creates an ordered list of institutions.

This chapter provides results from several well-known rankings, some of which have been published for many years. But remember, rankings are not trustworthy indicators of whether a particular school is right for any given student.

There is no such thing as a single "No. 1" school for everyone, no matter what a student chooses to study. What matters most in choosing a school is the match between a student's particular interests, abilities, and ambitions with the specific programs, approaches and opportunities offered by a particular school. The underlying information that is often included with the publication of each ordered list probably has more value than the list itself because it permits the reader to examine specific characteristics of each institution.

★ *Chart updated since the February 2017 edition.*

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The U-M is one of the nation's leading public universities, according to the methodology used by *U.S. News & World Report* to produce its ordered list.

★ 12.1.1 *U.S. News & World Report* Rankings of National Undergraduate Universities, U-M and Peers<sup>1</sup>, 2012-16.

| University                            | 2012      | 2013      | 2014      | 2015      | 2016      |          |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|----------|
|                                       |           |           |           |           | All       | Public   |
| Harvard University                    | 1         | 2         | 2         | 2         | 2         | --       |
| Yale University                       | 3         | 3         | 3         | 3         | 3         | --       |
| University of Chicago                 | 4         | 5         | 4         | 4         | 3         | --       |
| Columbia University                   | 4         | 4         | 4         | 4         | 5         | --       |
| Stanford University                   | 6         | 5         | 4         | 4         | 5         | --       |
| Massachusetts Institute of Technology | 6         | 7         | 7         | 7         | 7         | --       |
| University of Pennsylvania            | 8         | 7         | 8         | 9         | 8         | --       |
| Johns Hopkins University              | 13        | 12        | 12        | 10        | 10        | --       |
| Northwestern University               | 12        | 12        | 13        | 12        | 12        | --       |
| Cornell University                    | 15        | 16        | 15        | 15        | 15        | --       |
| University of California-Berkeley     | 21        | 20        | 20        | 20        | 20        | 1        |
| University of Southern California     | 24        | 23        | 25        | 23        | 23        | --       |
| University of California-Los Angeles  | 24        | 23        | 23        | 23        | 24        | 2        |
| University of Virginia                | 24        | 23        | 23        | 26        | 24        | 2        |
| <b>MICHIGAN</b>                       | <b>29</b> | <b>28</b> | <b>29</b> | <b>29</b> | <b>27</b> | <b>4</b> |
| University of North Carolina          | 30        | 30        | 30        | 30        | 30        | 5        |
| New York University                   | 32        | 32        | 32        | 32        | 36        | --       |
| University of Illinois                | 46        | 41        | 42        | 41        | 44        | 9        |
| University of Wisconsin               | 41        | 41        | 47        | 41        | 44        | 9        |
| University of Washington              | 46        | 52        | 48        | 52        | 54        | 15       |
| Ohio State University                 | 56        | 52        | 54        | 52        | 54        | 15       |
| University of Texas                   | 46        | 52        | 53        | 52        | 56        | 17       |
| University of Maryland                | 58        | 62        | 62        | 57        | 60        | 19       |

SOURCE: *U.S. News & World Report*, America's Best Colleges (2013-2017 Editions).

The *U.S. News & World Report* (*USN&WR*) system for creating an ordered list of national universities (that is, universities that offer a full range of undergraduate majors, as well as master's and Ph.D. programs, and emphasize faculty research) is based on indicators chosen by *USN&WR* to reflect the academic quality of each institution.

The current indicators (and their contribution to the overall ranking) include: a survey of administrators at peer institutions (15%); a survey of counselors from top public high schools and colleges (7.5%); retention of students (22.5%); faculty resources (20%), comprised of class size, student-faculty ratio, average faculty pay, proportion of faculty who are full-time and hold the highest degree in their field; student selectivity (12.5%), based on SAT and ACT scores of enrolled students, rank in high school graduating

classes, and the university's acceptance rate; average spending per student on instruction, research and student services (10%); graduation rate performance (7.5%), which compares a predicted graduation rate to the actual rate; and alumni giving rate (5%). Additional detail on how these items are used to calculate the rankings can be found on the *USN&WR* web site or the annual rankings publication.

The U-M consistently appears in the top five of public universities according *USN&WR* methodology. Michigan receives high marks for freshman retention, graduation rate, the percentage of freshmen in the top 10 percent of their high school graduating classes, and its academic reputation.

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>1</sup> A list of the peers used for comparison on this page is published in Appendix A.

Of 123 U-M graduate programs scored by *U.S. News & World Report*, 97 are listed in the top ten. Only UC-Berkeley and Stanford have more top-ten listed graduate programs.

★ 12.1.2 *U.S. News & World Report* Rankings of U-M Top Ten Graduate Programs, 2017.

| GRADUATE PROFESSIONAL PROGRAMS |   |                       |   |  |  |          |
|--------------------------------|---|-----------------------|---|--|--|----------|
| <b>Business</b>                |   | <b>Medicine</b>       |   | <b>Law</b>   |  | <b>8</b> |
| Accounting                     | 5 | Primary Care          | 5 | Clinical Training                                    |  | 9        |
| Entrepreneurship               | 6 | Research              | 9 | International Law                                    |  | 6        |
| Executive M.B.A.               | 6 | Family Medicine       | 4 | <b>Nursing</b>                                       |  |          |
| Finance                        | 9 | Geriatrics            | 8 | Nursing Administration                               |  | 5        |
| International                  | 7 | Internal Medicine     | 6 | Nursing Informatics                                  |  | 10       |
| Management                     | 5 | Women's Health        | 6 | Nursing-Midwifery                                    |  | 1        |
| Marketing                      | 5 | Public Health         | 4 | Nurse Practice – Adult/<br>Gerontology, Primary Care |  | 10       |
| Nonprofit                      | 7 | Healthcare Management | 1 |  |  |          |
| Part-time M.B.A.               | 6 | Social Work           | 1 |  |  |          |
| Production/Operations          | 3 | Pharmacy              | 3 |  |  |          |
| Supply Chain/Logistics         | 4 |                       |   |  |  |          |

| GRADUATE PROGRAMS in Science, Engineering, Information, Education, Public Policy |    |                          |    |                             |  |   |
|--|----|--------------------------|----|-----------------------------|--|---|
| <b>Engineering</b>   |    | <b>Science</b>           |    | <b>Education</b>            |  |   |
| Aerospace Engineering  | 5  | Analytical Chemistry     | 7  | Curriculum & Instruction    |  | 6 |
| Biomedical Engineering   | 10 | Organic Chemistry        | 9  | Education Policy            |  | 5 |
| Civil Engineering  | 9  | Earth Sciences           | 8  | Educational Psychology      |  | 2 |
| Computer Engineering   | 6  | Geochemistry             | 5  | Elem. Teacher Education     |  | 2 |
| Electrical Engineering   | 7  | Geology                  | 2  | Higher Education Admin.     |  | 1 |
| Environmental Engineering  | 4  | Paleontology             | 3  | Secondary Teacher Education |  | 2 |
| Industrial Engineering   | 2  | Mathematics              | 9  | Public Policy               |  | 8 |
| Materials Engineering  | 9  | Algebra/Number Theory    | 8  | Environ. Policy & Mgmt.     |  | 5 |
| Mechanical Engineering   | 6  | Analysis                 | 10 | Health Policy & Management  |  | 5 |
| Nuclear Engineering  | 1  | Applied Mathematics      | 10 | Information & Tech. Mgmt.   |  | 9 |
| Library & Info. Studies  | 5  | Discr. Math/Combinations | 5  | Public Policy Analysis      |  | 3 |
| Archives & Preservation  | 1  | Atomic Physics           | 10 | Social Policy               |  | 1 |
| Digital Librarianship  | 8  | Computer Science-Systems | 10 |                             |  |   |
| Health Librarianship   | 4  |                          |    |                             |  |   |
| Information Systems  | 1  |                          |    |                             |  |   |

SOURCE: *U.S. News & World Report*, America's Best Grad Schools (2018 Edition).

*U.S. News & World Report* publishes rankings of more than 1,200 graduate programs offered by U.S. universities. Programs in business, education, engineering, law, and medicine are evaluated and scored each year based on surveys of administrators, academics and professionals as well as data that reflect the quality of a program's faculty, students and research.

Rankings of programs in the sciences, social sciences, other health fields, the humanities and the arts are conducted periodically; in 2017, *USN&WR* updated public affairs and social science, humanities, and library and information studies. All other programs listed on this and the following page were ranked prior to 2017 and republished here and on the next page.

★12.1.2 U.S. News & World Report Rankings of U-M Top-Ten Graduate Programs, 2017 (continued).

| GRADUATE PROGRAMS in the Social Sciences and Humanities |   |                              |
|---|---|------------------------------|
| <b>Economics</b>  |   |                              |
| International Economics                                 | 8 |                              |
| Labor Economics   | 6 |                              |
| Public Finance  | 4 |                              |
| Political Science                                       | 4 |                              |
| American Politics                                       | 5 |                              |
| Comparative Politics                                    | 6 |                              |
| International Politics                                  | 5 |                              |
| Political Methodology                                   | 5 |                              |
| Political Theory  | 7 |                              |
|   |   | <b>Sociology</b> 1           |
|   |   | Economic Sociology 6         |
|   |   | Historical Sociology 3       |
|   |   | Sex & Gender 7               |
|   |   | Social Stratification 4      |
|   |   | Sociology of Population 4    |
|   |   | English 8                    |
|   |   | Medieval/Renaissance Lit. 10 |
|   |   | <b>History</b> 6             |
|   |   | Asian History 5              |
|   |   | European History 6           |
|   |   | Latin American History 5     |
|   |   | Modern U.S. History 5        |
|   |   | Psychology 3                 |
|   |   | Behavioral Neuroscience 1    |
|   |   | Cognitive Psychology 8       |
|   |   | Developmental Psychology 2   |
|   |   | Experimental Psychology 1    |
|   |   | Social Psychology 2          |

SOURCE: U.S. News & World Report, America's Best Grad Schools (2017 Edition).

The University is a top-20 institution globally according to a relatively new ordered list of global universities published by *U.S. News & World Report*. The U-M's position on this global list is consistently higher than where it appears on the USN&WR list limited to U.S. universities.

✦ 12.1.3 *U.S. News & World Report* Rankings of Best Global Universities, U-M and Peers<sup>1</sup>, 2014-16.

| University                            | 2014 | 2015 | 2016 |
|---------------------------------------|------|------|------|
| Harvard University                    | 1    | 1    | 1    |
| Massachusetts Institute of Technology | 2    | 2    | 2    |
| Stanford University                   | 4    | 4    | 3    |
| University of California-Berkeley     | 3    | 3    | 4    |
| Columbia University                   | 10   | 9    | 9    |
| University of California-Los Angeles  | 8    | 8    | 10   |
| University of Washington              | 14   | 11   | 11   |
| Johns Hopkins University              | 11   | 12   | 11   |
| University of Chicago                 | 9    | 10   | 13   |
| Yale University                       | 17   | 14   | 14   |
| University of Michigan                | 14   | 17   | 17   |
| University of Pennsylvania            | 19   | 14   | 17   |
| Cornell University                    | 23   | 21   | 22   |
| Northwestern University               | 25   | 25   | 25   |
| New York University                   | 36   | 34   | 27   |
| University of Wisconsin               | 27   | 26   | 29   |
| University of Texas                   | 30   | 30   | 30   |
| University of North Carolina          | 32   | 27   | 32   |
| University of Maryland                | 51   | 41   | 40   |
| Ohio State University                 | 34   | 34   | 43   |
| University of Illinois                | 35   | 43   | 47   |
| University of Southern California     | 50   | 44   | 53   |
| University of Virginia                | 102  | 94   | 99   |

SOURCE: *U.S. News & World Report*, 2016 report.

*U.S. News & World Report* recently added a global university comparison to its stable of rankings. The new list concentrates “specifically on schools' academic research and reputation overall and not on their separate undergraduate or graduate programs,” according to the publisher.

For the global ranking, U.S. News starts with data from the Thomson Reuters InCites™ database, such as reputation survey results, which represent 25% of a school's ranking score. Other items in the formula include adjusted counts of published scholarly papers, books and conference proceedings (15%); several different counts of citations of published materials (50%); and counts of international collaborations (10%).

Note that the list order above differs from from the order of USN&WR “Best Universities,” as shown in Figure 12.1.1. Why this order makes sense for a global list even as it contradicts other USN&WR lists is not explained by the publisher.

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>3</sup> A list of the peers used for comparison on this page is published in Appendix A.

The University is a top-25 institution globally according to the Times Higher Education ordered list.

✦ 12.2.1 Times Higher Education (London) World University Rankings, U-M and Peers<sup>3</sup>, 2012-16.

| University                            | 2012 | 2013 | 2014 | 2015 | 2016 |
|---------------------------------------|------|------|------|------|------|
| Stanford University                   | 2    | 4    | 4    | 3    | 3    |
| Massachusetts Institute of Technology | 5    | 5    | 6    | 5    | 5    |
| Harvard University                    | 4    | 2    | 2    | 6    | 6    |
| University of Chicago                 | 10   | 9    | 11   | 10   | 10   |
| University of California-Berkeley     | 9    | 8    | 8    | 13   | 10   |
| Yale University                       | 11   | 11   | 9    | 12   | 12   |
| University of Pennsylvania            | 15   | 16   | 16   | 17   | 13   |
| University of California-Los Angeles  | 13   | 12   | 12   | 16   | 14   |
| Columbia University                   | 14   | 13   | 14   | 15   | 16   |
| Johns Hopkins University              | 16   | 15   | 15   | 11   | 17   |
| Cornell University                    | 18   | 19   | 19   | 18   | 19   |
| Northwestern University               | 19   | 22   | 21   | 25   | 20   |
| University of Michigan                | 20   | 18   | 17   | 21   | 21   |
| University of Washington              | 24   | 25   | 26   | 32   | 25   |
| New York University                   | 41   | 40   | 38   | 30   | 32   |
| University of Illinois                | 33   | 29   | 29   | 36   | 36   |
| University of Wisconsin               | 31   | 30   | 29   | 50   | 45   |
| University of Texas                   | 25   | 27   | 28   | 46   | 50   |
| University of North Carolina          | 42   | 47   | 46   | 63   | 56   |
| University of Southern California     | 56   | 70   | 75   | 68   | 60   |
| University of Maryland                | 97   | 108  | 132  | 117  | 67   |
| Ohio State University                 | 53   | 59   | 68   | 90   | 72   |
| University of Virginia                | 118  | 112  | 130  | 147  | 121  |

SOURCE: Times Higher Education.

Times Higher Education publishes two separate ordered lists based on two different methodologies. The World University Rankings (above) judges institutions on their research, teaching, knowledge transfer and international activity. The World Reputation Rankings (see chart 12.2.2) is based on the results of an international, invitation-only survey sent to tens of thousands of experienced academics from around the world.

The World University Rankings shown on this page employ 13 performance indicators in five groups: Teaching (worth 30% of the overall ranking score); Research (30%); Citations (30%); Industry income (2.5%); and International outlook (7.5%).

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>3</sup> A list of the peers used for comparison on this page is published in Appendix A.

The U-M is listed 14th in the world according to the most recent Times Higher Education list based on academic reputation.

✦ 12.2.2 Times Higher Education (London) World Reputation Rankings, U-M and Peers<sup>4</sup>, 2013-17.

| University                            | 2013   | 2014  | 2015   | 2016  | 2017  |
|---------------------------------------|--------|-------|--------|-------|-------|
| Harvard University                    | 1      | 1     | 1      | 1     | 1     |
| Massachusetts Institute of Technology | 2      | 2     | 4      | 2     | 2     |
| Stanford University                   | 6      | 3     | 5      | 3     | 3     |
| University of California-Berkeley     | 5      | 6     | 6      | 6     | 6     |
| Yale University                       | 10     | 8     | 8      | 8     | 8     |
| Columbia University                   | 13     | 12    | 10     | 9     | 9     |
| University of Chicago                 | 14     | 14    | 11     | 11    | 12    |
| University of California-Los Angeles  | 8      | 10    | 13     | 13    | 13    |
| University of Michigan                | 12     | 15    | 19     | 14    | 15    |
| University of Pennsylvania            | 18     | 22    | 23     | 16    | 19    |
| Cornell University                    | 17     | 17    | 20     | 17    | 21    |
| Johns Hopkins University              | 19     | 18    | 18     | 22    | 23    |
| New York University                   | 29     | 27    | 20     | 25    | 25    |
| Northwestern University               | 37     | 37    | 47     | 30    | 31    |
| University of Texas                   | 27     | 33    | 46     | 34    | 32    |
| University of Wisconsin               | --     | --    | --     | --    | 32    |
| University of Washington              | 27     | 31    | 33     | 29    | 34    |
| University of Illinois                | 24     | 23    | 30     | 30    | 36    |
| University of North Carolina          | 51-60  | 61-70 | 61-70  | 51-60 | 50    |
| Ohio State University                 | 51-60  | 51-60 | 81-90  | 51-60 | 61-70 |
| University of Maryland                | 91-100 | 81-90 | 91-100 | 51-60 | 71-80 |
| University of Southern California     | 61-70  | 61-70 | 61-70  | 61-70 | 71-80 |
| University of Virginia                | --     | --    | --     | --    | --    |

SOURCE: Times Higher Education.

The World Reputation Rankings (above) are based on subjective judgments collected from an invitation-only survey returned by more than 10,000 academics from around the world for the 2017 edition, distributed to reflect the demographics of world scholarship.

Data for public universities are shaded in yellow; private university data are shaded in blue.

The survey asks each respondent to name no more than 10 universities that he or she considers to be the “best.” The rankings are assembled based on the frequency that each institution is included on the respondent’s lists of best institutions in their fields.

<sup>4</sup> A list of the peers used for comparison on this page is published in Appendix A.



Michigan regularly scores highly based on the QS methodology, which attributes 80 percent of the score to academic reputation, citation frequency of faculty publications, and the student-faculty ratio.

✦ 12.3 QS (Quacquarelli Symonds) World University Rankings, U-M and Peers<sup>5</sup>, 2013-17.

| University                            | 2013      | 2014      | 2015      | 2016      | 2017      |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Massachusetts Institute of Technology | 1         | 1         | 1         | 1         | 1         |
| Stanford University                   | 7         | 7         | 3         | 2         | 2         |
| Harvard University                    | 2         | 4         | 2         | 3         | 3         |
| University of Chicago                 | 9         | 11        | 10        | 10        | 9         |
| Cornell University                    | 15        | 19        | 17        | 16        | 14        |
| Yale University                       | 8         | 10        | 15        | 15        | 16        |
| Johns Hopkins University              | 16        | 14        | 16        | 17        | 17        |
| Columbia University                   | 14        | 14        | 22        | 20        | 18        |
| University of Pennsylvania            | 13        | 13        | 18        | 18        | 19        |
| <b>MICHIGAN</b>                       | <b>22</b> | <b>23</b> | <b>30</b> | <b>23</b> | <b>21</b> |
| University of California-Berkeley     | 25        | 27        | 26        | 28        | 27        |
| Northwestern University               | 29        | 34        | 32        | 26        | 28        |
| University of California-Los Angeles  | 40        | 37        | 27        | 31        | 33        |
| New York University                   | 44        | 41        | 53        | 46        | 52        |
| University of Wisconsin               | 37        | 41        | 54        | 54        | 55        |
| University of Washington              | 59        | 65        | 65        | 59        | 61        |
| University of Texas                   | 71        | 79        | 77        | 67        | 67        |
| University of Illinois                | 56        | 63        | 59        | 66        | 69        |
| University of North Carolina          | 54        | 62        | 79        | 78        | 80        |
| Ohio State University                 | 113       | 109       | 99        | 88        | 86        |
| University of Maryland                | 116       | 122       | 126       | 131       | 129       |
| University of Southern California     | 125       | 131       | 130       | 136       | 132       |
| University of Virginia                | 132       | 141       | 172       | 172       | 173       |

SOURCE: QS Intelligence Unit.

The QS World University Rankings® (also now published by *U.S. News & World Report*) evaluates more than 800 universities in the world, ranking the top 400. A school's rank is based on an amalgamation of six indicators obtained through a global survey and data collected about each institution. The six components and the weight provided to the overall score are: Academic reputation based on the survey (40% of score); Employer reputation based on the survey (10%); Citations per faculty member according to the SciVerse Scopus database (20%); Student-Faculty ratio (20%); Proportion of international students (5%); and Proportion of international scholars and scientists on the faculty. U-M is the highest ranked U.S. public university, according to QS.

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>5</sup> A list of the peers used for comparison on this page is published in Appendix A.

The U-M consistently scores in the top 25 of universities worldwide and in the top 20 of U.S. universities according to the ordered list published by Shanghai Jiao Tong University.

★ 12.4 Academic Ranking of World Universities, U-M and Peers<sup>6</sup>, 2012-16.

| University                            | 2012      | 2013      | 2014      | 2015      | 2016      |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Harvard University                    | 1         | 1         | 1         | 1         | 1         |
| Stanford University                   | 2         | 2         | 2         | 2         | 2         |
| University of California-Berkeley     | 4         | 4         | 4         | 4         | 3         |
| Massachusetts Institute of Technology | 3         | 4         | 3         | 3         | 5         |
| Columbia University                   | 8         | 8         | 8         | 8         | 9         |
| University of Chicago                 | 9         | 9         | 9         | 9         | 10        |
| Yale University                       | 11        | 11        | 11        | 11        | 11        |
| University of California-Los Angeles  | 12        | 12        | 12        | 14        | 12        |
| Cornell University                    | 13        | 12        | 13        | 13        | 13        |
| University of Washington              | 16        | 16        | 15        | 15        | 15        |
| Johns Hopkins University              | 17        | 17        | 17        | 16        | 16        |
| University of Pennsylvania            | 14        | 15        | 16        | 17        | 18        |
| <b>MICHIGAN</b>                       | <b>22</b> | <b>23</b> | <b>22</b> | <b>22</b> | <b>23</b> |
| Northwestern University               | 30        | 30        | 28        | 27        | 26        |
| University of Wisconsin               | 19        | 19        | 24        | 24        | 28        |
| New York University                   | 27        | 27        | 27        | 27        | 29        |
| University of Illinois                | 25        | 25        | 28        | 29        | 30        |
| University of North Carolina          | 41        | 43        | 36        | 39        | 35        |
| University of Texas                   | 35        | 36        | 39        | 37        | 44        |
| University of Southern California     | 46        | 47        | 51        | 49        | 49        |
| University of Maryland                | 38        | 38        | 43        | 43        | 52        |
| Ohio State University                 | 65        | 65        | 64        | 67        | 79        |
| University of Virginia                | 101-150   | 101-150   | 101-150   | 101-150   | 151-200   |

SOURCE: Center for World-Class Universities, Shanghai Jiao Tong University.

The Academic Ranking of World Universities (ARWU) is based on six numerical elements (listed with the percent weight of the element in parentheses): the number of alumni winning Nobel Prizes and Fields Medals (10%), number of faculty winning Nobel Prizes and Fields Medals (20%), number of highly cited researchers in 21 broad subject categories according to Thomson Scientific (20%), number of articles published in journals of *Nature* and *Science* over the most recent five-year period (20%), number of articles indexed in Science Citation Index-Expanded and Social Sciences Citation Index (20%), and per capita academic

performance of an institution (10%), determined by adding the weighted scores of all of the other indicators and dividing the sum by the number of full-time equivalent academic staff. More than 1,000 universities are ranked by ARWU every year and the best 500 are published on the web.

The University of Michigan ranking in particular reflects high scores on the elements that measure citations of articles by U-M faculty across all disciplines.

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>6</sup> A list of the peers used for comparison on this page is published in Appendix A.

## A large proportion of University of Michigan graduate programs received high marks from the National Research Council assessment.

### 12.5 National Research Council Graduate Program Assessment, U-M and Selected Peers, 2005-06.

| University                           | Number of Programs Ranked | Percent of Programs where best S (survey) Ranking was in |              | Percent of Programs where best R (Direct) Ranking was in |              |
|--------------------------------------|---------------------------|--|--------------|--|--------------|
|                                      |                           | Top half   | Top quartile | Top half   | Top quartile |
| University of Wisconsin              | 78                        | 90%  | 77%          | 95%  | 74%          |
| University of Minnesota              | 69                        | 77%  | 51%          | 80%  | 55%          |
| <b>MICHIGAN</b>                      | <b>65</b>                 | <b>98%</b>   | <b>82%</b>   | <b>100%</b>  | <b>92%</b>   |
| Cornell University                   | 61                        | 90%  | 69%          | 95%  | 80%          |
| University of California-Los Angeles | 59                        | 93%  | 76%          | 93%  | 85%          |
| University of Washington             | 59                        | 93%  | 76%          | 95%  | 75%          |
| University of Illinois               | 58                        | 91%  | 62%          | 91%  | 79%          |
| Harvard University                   | 52                        | 100%   | 100%         | 100%   | 100%         |
| University of California-Berkeley    | 52                        | 100%   | 94%          | 100%   | 98%          |
| University of North Carolina         | 51                        | 86%  | 67%          | 100%   | 76%          |
| Yale University                      | 49                        | 100%   | 80%          | 100%   | 82%          |
| Columbia University                  | 47                        | 94%  | 81%          | 96%  | 74%          |
| Stanford University                  | 47                        | 100%   | 94%          | 100%   | 91%          |
| Indiana University                   | 44                        | 80%  | 48%          | 91%  | 57%          |
| Average of All AAU Institutions      | 42                        | 86%  | 61%          | 89%  | 64%          |
| University of Pennsylvania           | 41                        | 100%   | 90%          | 100%   | 85%          |
| University of Virginia               | 38                        | 76%  | 42%          | 95%  | 55%          |
| University of Chicago                | 37                        | 95%  | 78%          | 95%  | 86%          |
| Northwestern University              | 31                        | 97%  | 84%          | 97%  | 90%          |

SOURCE: National Research Council.

The National Research Council (NRC) Assessment of U.S. Research-Doctorate Programs was undertaken to provide universities with benchmarking data that they could use to improve program quality, and to provide prospective students and the public with information about the nation's doctoral programs.

The data used for the assessment was collected from 5,004 doctoral programs at 212 universities for the academic year 2005-2006. The data include characteristics of the faculty, such as their publications, citations, grants, and diversity; characteristics of the students, such as their GRE scores, financial support, publications, and diversity; and characteristics of the programs, such as number of Ph.D. degrees granted over five years, time to degree completion, percentage of students who complete graduate programs, and placement of students after graduation.

The methodology to arrive at a program's rank is complex and elicited criticism from the higher education community when first made public. Following revisions to the original 2010 report, a final version was released in 2011.

The S-ranking is based on a national survey of faculty members who were asked to weigh programs on measures such as number of faculty, number of publications, citations, and other quantifiable measures.

Using another approach, the R-ranking is based on asking randomly selected faculty members in each discipline to rate programs from a sample provided. A regression analysis of these ratings provided different program rankings.

All of the programs at each school were counted as "in" or "out" of the top half or the top quartile of the rankings. The percent of each school's programs to satisfy these two indicators is reported in the table. Furthermore, when the percentage of programs was at least one standard deviation better than the average of all AAU institutions, the percentage is displayed in a green rectangle.

Data for public universities are shaded in yellow; private university data are shaded in blue.

The scope of U-M's research program and high number of Ph.D. degree recipients contribute most to the University's position in the *Washington Monthly* ordered list, which focuses on universities' contributions to society.

✦ 12.6 *Washington Monthly* National University Rankings, U-M and Peers<sup>7</sup>, 2012-2016.

| University                            | 2012      | 2013      | 2014      | 2015      | 2016      |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Stanford University                   | 3         | 6         | 6         | 5         | 1         |
| Harvard University                    | 11        | 8         | 10        | 8         | 2         |
| Massachusetts Institute of Technology | 15        | 11        | 14        | 15        | 2         |
| University of Pennsylvania            | 27        | 21        | 41        | 37        | 5         |
| University of California-Berkeley     | 5         | 5         | 3         | 4         | 7         |
| University of California-Los Angeles  | 6         | 10        | 5         | 6         | 8         |
| Yale University                       | 41        | 54        | 57        | 44        | 13        |
| University of Washington              | 8         | 13        | 7         | 7         | 14        |
| University of North Carolina          | 4         | 14        | 12        | 11        | 20        |
| <b>MICHIGAN</b>                       | <b>13</b> | <b>12</b> | <b>13</b> | <b>13</b> | <b>21</b> |
| Columbia University                   | 36        | 32        | 51        | 49        | 23        |
| Cornell University                    | 19        | 43        | 39        | 36        | 27        |
| University of Wisconsin               | 18        | 15        | 17        | 19        | 28        |
| University of Illinois                | 22        | 19        | 26        | 27        | 33        |
| University of Southern California     | 50        | 67        | 72        | 65        | 46        |
| Johns Hopkins University              | 46        | 34        | 48        | 48        | 47        |
| University of Virginia                | 48        | 51        | 60        | 63        | 54        |
| University of Maryland                | --        | 50        | 58        | 60        | 56        |
| Ohio State University                 | 37        | 28        | 18        | 18        | 69        |
| University of Chicago                 | 29        | 46        | 53        | 55        | 92        |
| Northwestern University               | 75        | 58        | 101       | 106       | 99        |
| New York University                   | 77        | 79        | 96        | 97        | 174       |

SOURCE: *Washington Monthly*.

*Washington Monthly* lists schools based on their contributions to the public good in three broad categories: Social Mobility, Research, and Service, each providing one-third of a school's score.

The Social Mobility component attempts to measure an institution's success at recruiting and graduating low-income students. It looks at the percentage of students receiving Pell Grants and predicts the likelihood that these students will graduate based on SAT scores and graduation rates of past Pell Grant recipients.

The Research component attempts to measure the eventual contribution of a school's graduates to cutting-edge scholarship by combining a school's total research expenditures with the number of bachelor's degree recipients who continue their education and earn Ph.D degrees.

The Service component weighs a school's success at encouraging its students to give something back to the country. Service is based on factors such as the rate by which students and alumni serve in the Peace Corps, ROTC, and work study-funded community service projects, the rate of staff members involved in community service and the number of academic courses that incorporate a service feature.

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>7</sup> A list of the peers used for comparison on this page is published in Appendix A.

Michigan performs well according to the “return on investment” metrics that are the focus of *Forbes’* America’s Top Colleges list.

✦ 12.7 America’s Top Colleges (*Forbes*), U-M and Peers<sup>8</sup>, 2013-2017.

| University                            | 2013      | 2014      | 2015      | 2016      | 2017      |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Harvard University                    | 8         | 7         | 6         | 4         | 1         |
| Stanford University                   | 1         | 2         | 3         | 1         | 2         |
| Yale University                       | 4         | 6         | 5         | 6         | 5         |
| Massachusetts Institute of Technology | 10        | 5         | 10        | 5         | 5         |
| University of Pennsylvania            | 11        | 12        | 12        | 11        | 7         |
| Columbia University                   | 5         | 20        | 15        | 16        | 14        |
| Cornell University                    | 19        | 31        | 25        | 29        | 15        |
| University of Chicago                 | 14        | 24        | 20        | 20        | 16        |
| Northwestern University               | 17        | 19        | 16        | 15        | 28        |
| University of California-Berkeley     | 22        | 37        | 35        | 40        | 29        |
| Johns Hopkins University              | 46        | 67        | 62        | 66        | 30        |
| <b>MICHIGAN</b>                       | <b>30</b> | <b>45</b> | <b>41</b> | <b>44</b> | <b>38</b> |
| University of Virginia                | 29        | 40        | 36        | 36        | 40        |
| University of Southern California     | 63        | 78        | 71        | 65        | 44        |
| University of California-Los Angeles  | 34        | 44        | 45        | 46        | 48        |
| New York University                   | 56        | 72        | 77        | 77        | 52        |
| University of North Carolina          | 38        | 50        | 49        | 47        | 68        |
| University of Illinois                | 53        | 68        | 68        | 72        | 69        |
| University of Maryland                | 73        | 82        | 93        | 82        | 72        |
| University of Washington              | 55        | 73        | 76        | 75        | 79        |
| University of Wisconsin               | 68        | 70        | 69        | 69        | 87        |
| University of Texas                   | 66        | 76        | 82        | 93        | 91        |
| Ohio State University                 | 138       | 155       | 155       | 160       | 131       |

SOURCE: *Forbes*.

America’s Top Colleges is a ranking of 650 colleges and universities (in 2017) that *Forbes* and the Washington, D.C.-based Center for College Affordability and Productivity (CCAP) have produced since 2008. The distinction that *Forbes* make about its list is the focus on how well colleges and universities succeed at yielding successful graduates. Put bluntly, America’s Top Colleges attempts to rank institutions by the return on investment of time and money to attend a school.

The components of the rankings can vary somewhat from year-to-year. The breakdown described here applies only to the 2016 rankings, which includes indicators of post-graduate success (35%), student debt (20%), the student experience (20%), graduation rates (20%), and academic success (12.5%).

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>8</sup> A list of the peers used for comparison on this page is published in Appendix A.

The U-M appears in the top twenty of an international list of leading universities that is based on several measures of faculty and alumni achievements.

✦ 12.8 Center for World University Rankings, U-M and Peers<sup>9</sup>, 2012-2016.

| University                            | 2012      | 2013      | 2014      | 2015      | 2016      |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|
| Harvard University                    | 1         | 1         | 1         | 1         | 1         |
| Stanford University                   | 2         | 2         | 2         | 2         | 2         |
| Massachusetts Institute of Technology | 2         | 4         | 3         | 3         | 3         |
| Columbia University                   | 9         | 6         | 6         | 6         | 6         |
| University of California-Berkeley     | 10        | 7         | 7         | 7         | 7         |
| University of Chicago                 | 11        | 9         | 8         | 8         | 8         |
| Yale University                       | 8         | 10        | 10        | 11        | 10        |
| Cornell University                    | 12        | 13        | 11        | 10        | 12        |
| University of Pennsylvania            | 13        | 12        | 14        | 14        | 14        |
| Johns Hopkins University              | 15        | 17        | 19        | 16        | 16        |
| University of California-Los Angeles  | 19        | 16        | 15        | 15        | 15        |
| <b>MICHIGAN</b>                       | <b>34</b> | <b>32</b> | <b>21</b> | <b>19</b> | <b>19</b> |
| Northwestern University               | 33        | 28        | 23        | 22        | 21        |
| New York University                   | 23        | 19        | 17        | 18        | 22        |
| University of Wisconsin               | 25        | 23        | 25        | 25        | 25        |
| University of Washington              | 39        | 31        | 32        | 31        | 27        |
| University of Texas                   | 30        | 26        | 29        | 30        | 32        |
| University of Illinois                | 26        | 24        | 28        | 33        | 34        |
| University of North Carolina          | 36        | 34        | 45        | 40        | 38        |
| University of Virginia                | 84        | 71        | 41        | 41        | 40        |
| University of Southern California     | 44        | 39        | 51        | 51        | 44        |
| Ohio State University                 | 52        | 52        | 47        | 49        | 46        |
| University of Maryland                | 68        | 59        | 76        | 72        | 68        |

SOURCE: Center for World University Rankings.

The Center for World University Rankings (CWUR) uses a methodology that it believes is resistant to manipulation on the part of the universities being evaluated. CWUR foregoes any opinion surveys, relying on data about quality of education, alumni employment, faculty awards and publications, among other factors.

The education quality measure is based on a weighted measure of alumni who have won major international awards, prizes, and medals. Alumni employment is a weighted count of alumni who have held CEO positions at the world's top companies.

The faculty quality factor is based on a weighted count of prestigious awards received by an institution's faculty

members, from Nobel Prizes to the many other less well-known, but still significant international awards (e.g. Draper Prize, Kyoto Prize, Fields Medal).

Other factors that go into the ranking calculation include a count of research publication in major journals, the frequency that papers are cited by others, and a count of international patent filings.

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>9</sup> A list of the peers used for comparison on this page is published in Appendix A.

## The U-M is listed fifth among U.S. public universities and colleges as a good value for students.

### ✦ 12.9 Kiplinger's Best Value Public Colleges, U-M, Public Peer<sup>10</sup> and Public Big Ten Universities, 2013-2017.

| University                             | 2013      | 2014     | 2015     | 2016     | 2017     |
|--|-----------|----------|----------|----------|----------|
| University of North Carolina †         | 1         | 1        | 1        | 1        | 1        |
| University of Virginia †               | 2         | 2        | 2        | 3        | 2        |
| University of California-Berkeley †    | 8         | 9        | 4        | 4        | 3        |
| <b>MICHIGAN *</b>                      | <b>11</b> | <b>6</b> | <b>6</b> | <b>5</b> | <b>5</b> |
| University of California-Los Angeles † | 6         | 5        | 5        | 6        | 6        |
| University of Maryland †*              | 5         | 7        | 9        | 11       | 8        |
| University of Wisconsin †*             | 13        | 8        | 8        | 8        | 11       |
| University of Washington †             | 17        | 13       | 11       | 9        | 12       |
| University of Texas †                  | 27        | 21       | 14       | 13       | 13       |
| University of Illinois †*              | 43        | 38       | 36       | 26       | 16       |
| Ohio State University †*               | 37        | 26       | 15       | 17       | 22       |
| University of Minnesota *              | 45        | 44       | 32       | 25       | 20       |
| Rutgers University *                   | 50        | 47       | 43       | 47       | 33       |
| Purdue University *                    | 51        | 40       | 27       | 19       | 34       |
| Michigan State University *            | 46        | 41       | 50       | 40       | 38       |
| Pennsylvania State University *        | 48        | 53       | 56       | 49       | 44       |
| Indiana University *                   | 39        | 37       | 40       | 44       | 55       |
| University of Iowa *                   | 49        | 56       | 86       | 57       | 79       |
| University of Nebraska *               | 75        | 83       | 68       | 75       | 81       |

SOURCE: *Kiplinger's Personal Finance*.

The “best value” rankings published by *Kiplinger's Personal Finance* starts with a pool of about 1,200 public and private four-year universities and colleges that it obtains from Peterson's, an educational data company and guide publisher. Criteria that indicate a school's “academic quality” and cost to students is used to rank schools, with 55 percent of the ranking on “quality criteria” and the remainder on “cost criteria.” In the end, Kiplinger's provides a list of the top 300 public and private schools, as well as three separate lists of the top 50 private universities, top 50 liberal arts colleges, and top 100 public universities.

Academic quality indicators include the admission rate (percentage of applicants offered admission) and “yield” (percentage of those admitted who enroll) for each school, SAT and ACT scores of enrolled students, four-year graduate rate, freshman retention rate, and student-to-faculty ratio.

Cost indicators include the total cost of attendance (tuition, fees, room and board, books), the amounts of need-based grants, non-need-based aid, the percentage of students who borrow to finance their educations, and the average student debt at graduation.

The public university rankings above, is based on Kiplinger's calculations for in-state students. Kiplinger's also publishes rankings for out-of-state students attending public universities (to offer a way to compare to private universities); those rankings are not included here.

† indicates a U-M peer university

\* indicates a Big Ten university

<sup>10</sup> A list of the peers used for comparison on this page is published in Appendix A.

**MONEY Magazine latest ordered list places the U-M second among U.S. public universities and colleges, and third overall.**

✦ **12.10 MONEY's Best Colleges, U-M and Peer<sup>11</sup> Universities, 2014-17.**

| University                            | 2014 | 2015 | 2016 | 2017 |
|---------------------------------------|------|------|------|------|
| University of Michigan                | 22   | 18   | 2    | 3    |
| University of California-Berkeley     | 13   | 9    | 5    | 4    |
| University of California-Los Angeles  | 31   | 26   | 20   | 5    |
| Stanford University                   | 5    | 1    | 10   | 5    |
| Harvard University                    | 6    | 6    | 3    | 10   |
| Massachusetts Institute of Technology | 3    | 3    | 11   | 8    |
| University of Virginia                | 16   | 17   | 9    | 11   |
| University of Washington              | 47   | 56   | 30   | 13   |
| Yale University                       | 15   | 21   | 12   | 14   |
| University of Maryland                | 68   | 54   | 19   | 20   |
| Columbia University                   | 22   | 28   | 52   | 21   |
| University of Illinois                | 76   | 75   | 22   | 22   |
| University of Pennsylvania            | 11   | 12   | 26   | 27   |
| University of Texas                   | n/a  | 82   | 50   | 31   |
| University of Wisconsin               | 99   | 116  | 63   | 45   |
| University of Chicago                 | 101  | 127  | 83   | 54   |
| Cornell University                    | 24   | 34   | 64   | 59   |
| University of North Carolina          | 40   | 46   | 45   | 60   |
| Ohio State University                 | 144  | 134  | 130  | 102  |
| Northwestern University               | 129  | 89   | 70   | 103  |
| University of Southern California     | n/a  | n/a  | 155  | 116  |
| Johns Hopkins University              | n/a  | 85   | 81   | 131  |
| New York University                   | n/a  | n/a  | 306  | 210  |

SOURCE: MONEY Magazine.

MONEY Magazine made major changes to its methodology for the 2016 ordered list, which contributed to the large changes to the placement of many schools. A few more changes went into the formula used to produce the 2017 list, such as a factor flagging schools experiencing financial troubles, a small boost to scores for schools with the lowest net price for students from low-income families, and the introduction of a "social mobility" factor tied to incomes of low-income students six years after graduation.

Overall, Money's methodology uses 17 factors across three categories: quality of education (such as graduation rate, academic preparation of the student body, and student-

faculty ratio); affordability (such as net price of a degree, student and parent debt at graduation, risk of loan default, and net price to low-income families); and outcomes (such as PayScale.com earnings reports of alumni, career services offered and a "market" valuation of alumni skills).

Data for public universities are shaded in yellow; private university data are shaded in blue.

*Note: Several new universities were added to the list for this edition of the Almanac. However, historical data for some of these schools is not available and are shown as n/a.*

<sup>11</sup> A list of the peers used for comparison on this page is published in Appendix A.



**U-M ranked first among public universities in a new ranking of U.S. universities.**

**★ 12.11 *Wall Street Journal*/Times Higher Education U.S. College Rankings, U-M and Peer<sup>12</sup> Universities, 2016.**

| University                            | 2016      |
|---------------------------------------|-----------|
| Stanford University                   | 1         |
| Harvard University                    | 2         |
| Massachusetts Institute of Technology | 3         |
| University of Pennsylvania            | 4         |
| Columbia University                   | 5         |
| Yale University                       | 6         |
| Cornell University                    | 8         |
| Northwestern University               | 10        |
| Johns Hopkins University              | 13        |
| University of Chicago                 | 14        |
| University of Southern California     | 17        |
| <b>University of Michigan</b>         | <b>22</b> |
| University of California-Los Angeles  | 28        |
| New York University                   | 26        |
| University of North Carolina          | 30        |
| University of California-Berkeley     | 35        |
| University of Illinois                | 45        |
| University of Virginia                | 50        |
| University of Texas                   | 52        |
| University of Wisconsin               | 63        |
| Ohio State University                 | 68        |
| University of Washington              | 75        |
| University of Maryland                | 96        |

SOURCE: *MONEY Magazine*.

In September of 2016, the *Wall Street Journal (WSJ)* and Times Higher Education (THE) released a new ranking of U.S. universities. This new list is the first U.S.-only ranking for Times Higher Education, and a return to college ranking for the *Wall Street Journal* after an absence of many years.

Data used for creating this ordered list comes from two surveys conducted by THE – one of students and one of academic leaders and professors. Other inputs come from U.S. Department of Education datasets, the federal College Scorecard, Bureau of Economic Analysis data, and academic citations data provided by Elsevier.

A school's placement on the list is weighted according to the following factors: Budget resources per student (11%), the number of faculty per student (11%), the count of research paper published per student (8%), interpretations of student responses to survey questions about engagement, interactions with teachers and students, and other topics (20%), graduation rates (11%), the school's academic reputation (10%), a mystery calculation related to salary after graduation and loan repayment success (19%), and campus demographics (10%).

Data for public universities are shaded in yellow; private university data are shaded in blue.

<sup>12</sup> A list of the peers used for comparison on this page is published in Appendix A.

