# 2023 QS World University Rankings by Subject

## Summary

On March 22, Quacquarelli Symonds (QS), a company that specializes in providing study abroad services, released the 2023 QS World University Rankings by Subject. Overall, 1,594 institutions were ranked across 54 subjects in five broad subject areas. The University of Saskatchewan (USask) ranked 51-70 in Veterinary Science, tied for 80 in Agriculture & Forestry, 101-150 in Environmental Sciences, 151-200 in Pharmacy & Pharmacology, 201-230 in each of Earth & Marine Sciences, Geology, and Geophysics, 301-350 in each of Biological Sciences and Education & Training, 401-450 in Medicine, 451-500 in Computer Science & Information Systems, and 501-550 in Chemistry. *Besides ranking in 12 individual subjects, overall, USask received rankings in three of the five broader subject areas: tied for 325 in Life Sciences & Medicine, tied for 379 in Natural Sciences, and 451-500 in Engineering & Technology.*

## What were the rankings based on?

The QS individual subject rankings were produced based on as many as five weighted indicators: Academic Reputation, Employer Reputation, Citations per Paper, H-index, and International Research Network (IRN). Weights of all five factors can vary depending on the subject area. Due to the degree of availability of publication and citation data across the subject disciplines, the weightings for the various subjects will vary, and may even be zero for some indicators. For example, Citations per Paper carried 30 percent of the weight in each of Dentistry and Nursing, 10 percent weight in subjects such as Archaeology and Philosophy, but is not even utilized for Art & Design.

For each of the five broad subject area rankings, all five indicators carry some weight, however the formulas are different depending on the area.

| Indicator | Indicator Description | Weight* | Source |
|---|---|---|---|
| **Academic Reputation** | The QS Academic Reputation Survey draws on responses from over 151,000 academics worldwide, received between 2018-2022. Each academic counted has given their opinion on domestic and international universities in their fields of expertise. | 30-90% | Previous respondents / World Scientific academic publishers/ Mardev-DM2 database/ academic signup/ institution supplied lists |
| **Employer Reputation** | The QS Employer Reputation Survey draws on responses from over 99,000 graduate employers worldwide, received between 2018-2022. Each employer identifies institutions which are excellent for recruitment, as well as preferred disciplines of recruitment. | 5-50% | Previous respondents/ QS databases/ QS partners / institution supplied lists |
| **Citations per Paper** | This ratio measures the average number of citations obtained per publication, and is an estimate of the impact and quality of the scientific work done by universities. | 0-30% | Scopus |
| **H-index** | The h-index is an index that attempts to measure the stability of impact and quality of the work published by the institutions' scientists and scholars. The index is based on the set of the institution's most cited papers and the number of citations that they have received in other publications. | 0-30% | Scopus |
| **IRN** | The International Research Network index reflects the ability of institutions to diversify the geography of their international research network by establishing sustainable research partnerships with other higher education institutions. | 0-10% | Scopus |

Three new subject areas were included in this year's ranking and these were Data Science & Artificial Intelligence, History of Art, and Marketing.

Depending on the subject area, between 20 and 680 universities were ranked. For more information about QS subject rankings methodology, please go to: https://www.topuniversities.com/subject-rankings/methodology

## Rankings of the University of Saskatchewan

In the broad subject category of Life Sciences & Medicine, USask was ranked in a tie for 325 globally and again placed 15 in Canada (14 within the U15). USask moved up compared to prior year in Natural Sciences and was tied for 379 globally, while placing 16 in Canada (14 within the U15). Additionally, in Engineering & Technology, USask placed 451-500 globally after not being ranked in the prior year (tied at 18 in Canada and tied for 14 within U15). In the two other broad subject areas – Arts & Humanities and Social Sciences & Management, USask was once again not ranked.

USask was ranked in 12 of the 54 specific subject areas, previously being ranked in 14 of 51. USask was no longer ranked in either Chemical Engineering or Materials Sciences.

Overall, we were among the best in Veterinary Science, ranked 51-70 in the world and tied for 4 in Canada (tied for 3 in U15), and in Agriculture & Forestry, ranking in a tie for 80 in the world and placing 5 in Canada (4 in U15). The next strongest placement remained Environmental Sciences where we dropped into a lower tier at 101-150, while being positioned 5 in each of Canada and the U15.

In terms of specific indicators, USask's best score in Academic Reputation was 69.2 in Veterinary Science (as per the prior year), while its best score in Employer Reputation was 68.1 in Agriculture & Forestry. The subject area of Environmental Sciences continued to have the best institutional scores for both Citations per Paper (93.4) and H-index (86.2). With IRN being measured for some individual subjects this year, the highest rating was also in Environmental Sciences at 63.7.

## USask Rankings in 2023 QS World University Rankings by Subject

| Subject Area | World | Canada | U15 | Subject Area | World | Canada | U15 |
|---|---|---|---|---|---|---|---|
| **Arts & Humanities** | **520+** | **21+** | **15** | **Natural Sciences** | **379*** | **16** | **14** |
| Archaeology | 240+ | 10+ | 9+ | Chemistry | **501-550** | **16*** | **14*** |
| Architecture & Built Environment | 240+ | 7+ | 6+ | Earth & Marine Sciences | **201-230** | **10** | **9** |
| Art & Design | 240+ | 8+ | 2+ | Environmental Sciences | **101-150** | **5*** | **5*** |
| Classics & Ancient History | 90+ | 2+ | 2+ | Geography | 210+ | 15+ | 11+ |
| English Language & Literature | 330+ | 18+ | 11+ | Geology | **201-230** | **10*** | **9*** |
| History | 230+ | 11+ | 9+ | Geophysics | **201-230** | **11*** | **10*** |
| History of Art | 20+ | 0+ | 0+ | Materials Sciences | 420+ | 13+ | 13+ |
| Linguistics | 320+ | 17+ | 11+ | Mathematics | 530+ | 21+ | 15 |
| Modern Languages | 340+ | 11+ | 8+ | Physics & Astronomy | 620+ | 20+ | 15 |
| Performing Arts | 120+ | 5+ | 4+ | **Social Sciences & Management** | **530+** | **21+** | **15** |
| Philosophy | 210+ | 9+ | 7+ | Accounting & Finance | 330+ | 15+ | 12+ |
| Theology, Divinity & Religious Studies | 140+ | 6+ | 6+ | Anthropology | 150+ | 6+ | 4+ |
| **Engineering & Technology** | **451-500** | **18*** | **14*** | Business & Management Studies | 580+ | 21+ | 12+ |
| Chemical Engineering | 420+ | 14+ | 12+ | Communication & Media Studies | 250+ | 14+ | 8+ |
| Civil & Structural Engineering | 230+ | 12+ | 11+ | Development Studies | 120+ | 5+ | 4+ |
| Computer Science & Information Systems | **451-500** | **21*** | **14*** | Economics & Econometrics | 530+ | 19+ | 15 |
| Data Science and Artificial Intelligence | 20+ | 2+ | 2+ | Education & Training | **301-350** | **14*** | **11*** |
| Electrical & Electronic Engineering | 520+ | 23+ | 15 | Hospitality & Leisure Management | 160+ | 9+ | 4+ |
| Mechanical, Aeronautical & Manufacturing Engineering | 520+ | 21+ | 15 | Law & Legal Studies | 350+ | 13+ | 10+ |
| Mineral & Mining Engineering | 70+ | 6+ | 6+ | Library & Information Management | 70+ | 7+ | 5+ |
| Petroleum Engineering | 160+ | 4+ | 3+ | Marketing | 20+ | 2+ | 2+ |
| **Life Sciences & Medicine** | **325*** | **15** | **14** | Politics | 230+ | 10+ | 8+ |
| Agriculture & Forestry | **80*** | **5** | **4** | Social Policy & Administration | 130+ | 5+ | 4+ |
| Anatomy & Physiology | 150+ | 13+ | 12+ | Sociology | 340+ | 16+ | 11+ |
| Biological Sciences | **301-350** | **14*** | **14** | Sports-Related Subjects | 140+ | 15+ | 12+ |
| Dentistry | 80+ | 4+ | 4+ | Statistics & Operational Research | 240+ | 13+ | 10+ |
| Medicine | **401-450** | **14** | **14** | | | | |
| Nursing | 180+ | 13+ | 13+ | | | | |
| Pharmacy & Pharmacology | **151-200** | **6*** | **6*** | | | | |
| Psychology | 330+ | 18+ | 13+ | | | | |
| Veterinary Science | **51-70** | **4*** | **3*** | | | | |

**Notes:**
1. Depending on the subject area, between 20 and 680 universities were ranked.
2. Grey fonts indicate that the USask was not ranked in the subject area, while XXX+ universities were ranked.
3. An asterisk (*) indicates a tie.

For more information, visit: **www.usask.ca/ipa**