

2019 ShanghaiRanking's Global Ranking of Academic Subjects

Summary

On June 26, 2019, ShanghaiRanking Consultancy, the company that publishes the Academic Ranking of World Universities (ARWU, aka the Shanghai Ranking), released the 2019 Global Ranking of Academic Subjects (GRAS). Overall, more than 4,000 universities were evaluated and of those, more than 1,700 universities from 86 countries were ranked and published across 54 subjects in five broad discipline areas. The University of Saskatchewan (USask) was ranked in 27 of these subject areas, including five placements within the top 100 – 19 in Water Resources, 47 in Veterinary Sciences, 51-75 in Environmental Science & Engineering and 76-100 in each of Agricultural Sciences and Public Administration.

Ranking Methodology

For an institution to be included in any subject ranking, it needed to meet a threshold in terms of research publications during the period 2013-2017. It is noted that the threshold may be different for different subject areas. The rankings were then produced based on five weighted indicators: Publications (PUB), Category Normalized Citation Impact (CNCI), International Collaboration (IC), Papers published in top journals (TOP), and Faculty awards (AWARD). Different weights were allocated to the indicators for different subjects. For example, Publications accounted for 23.8 percent in Mathematics, Physics and a number of other subject areas, but 48.4 percent in Finance, Public Administration, Sociology, and Library and Information Science. Depending on the subject area, between 50 and 500 universities were ranked.

Area	Indicator	Weight	Source
Publications (PUB)	The number of papers authored by an institution in an Academic Subject.	23.8% - 48.4% ¹	InCites
Category Normalized Citation Impact (CNCI)	Category Normalized Citation Impact from InCites database to measure average impact of papers authored by an institution in an Academic Subject.	12.2% - 31.3%	InCites
International Collaboration (IC)	The percentage of internationally collaborated papers authored by an institution in an Academic Subject.	2.4% - 6.3%	InCites
Papers published in top journals (TOP)	The number of papers published in top journals in an Academic Subject.	23.8% - 32.3%	The journals were identified through ShanghaiRanking's Academic Excellence Survey ² or Web of Science's Journal Citation Report (JCR)
Faculty awards (AWARD)	The total number of the staff of an institution winning a significant award in an Academic Subject.	0% - 24.4%	The awards were identified through ShanghaiRanking's Academic Excellence Survey

Notes:

1. Different weights were allocated to the indicators for different subjects.
2. The Academic Excellence Survey is a survey of deans, chairs, and department heads of the Top 100 universities. The survey asks respondents to identify top journals and awards in their subject areas.

For more information about GRAS methodology, please go to: <http://www.shanghairanking.com/Shanghairanking-Subject-Rankings/Methodology-for-ShanghaiRanking-Global-Ranking-of-Academic-Subjects-2019.html>

Rankings of the University of Saskatchewan

This year USask was ranked in exactly 50% of the subject areas (27 of 54), an increase over last year. The overall ranking continued strong in Water Resources (19 internationally and 1 in Canada), Veterinary Sciences (47 internationally and 3 in Canada), Environmental Science & Engineering (51-75 internationally and 4 in Canada), and Agricultural Sciences (76-100 internationally and tied for 4 in Canada), while a significant increase was observed in Public Administration (76-100

internationally and tied for 2 in Canada). USask also fared well nationally in the areas of Biotechnology (201-300 internationally and tied for 5 in Canada), Energy Science & Engineering (151-200 internationally and tied for 5 in Canada), Food Science & Technology (101-150 internationally and tied for 6 in Canada), and Materials Science & Engineering (301-400 internationally and tied for 6 in Canada).

There were no changes in subjects included in this year's ranking exercise.

U of S Rankings in 2019 Global Ranking of Academic Subjects (GRAS)

Subject Area	World	Canada	U15	Subject Area	World	Canada	U15
Engineering				Medical Sciences			
Aerospace Engineering	50+	3+	2+	Clinical Medicine	401-500	16*	14*
Automation & Control	200+	9+	6+	Dentistry & Oral Sciences	300+	9+	9+
Biomedical Engineering	300+	11+	11+	Medical Technology	201-300	12*	11*
Biotechnology	201-300	5*	5*	Nursing	201-300	14*	13
Chemical Engineering	151-200	7*	7*	Pharmacy & Pharmaceutical Sciences	201-300	9*	9*
Civil Engineering	300+	17+	13+	Public Health	401-500	19*	15
Computer Science & Engineering	301-400	17*	12*	Natural Sciences			
Electrical & Electronic Engineering	401-500	19*	12*	Atmospheric Science	201-300	8*	6*
Energy Science & Engineering	151-200	5*	5*	Chemistry	401-500	14*	14
Environmental Science & Engineering	51-75	4	4	Earth Sciences	201-300	11*	9*
Food Science & Technology	101-150	6*	5*	Ecology	201-300	13*	9*
Instruments Science & Technology	300+	8+	8+	Geography	300+	16+	11+
Marine/Ocean Engineering	50+	1+	0+	Mathematics	500+	18+	12+
Materials Science & Engineering	301-400	6*	6*	Oceanography	200+	7+	5+
Mechanical Engineering	400+	18+	11+	Physics	500+	14+	9+
Metallurgical Engineering	200+	6+	6+	Social Sciences			
Mining & Mineral Engineering	100+	7+	6+	Business Administration	400+	22+	15
Nanoscience & Nanotechnology	301-400	7*	7*	Communication	300+	11+	7+
Remote Sensing	100+	4+	4+	Economics	500+	21+	13+
Telecommunication Engineering	300+	19+	12+	Education	401-500	19*	12*
Transportation Science & Technology	200+	14+	9+	Finance	200+	9+	7+
Water Resources	19	1	1	Hospitality & Tourism Management	201-300	14*	9*
Life Sciences				Law	151-200	10*	7*
Biological Sciences	500+	15+	13+	Library & Information Science	100+	7+	6+
Human Biological Sciences	500+	15+	13+	Management	500+	24+	15
Agricultural Sciences	76-100	4*	3*	Political Sciences	301-400	17*	11*
Veterinary Sciences	47	3	2	Psychology	401-500	25*	15
				Public Administration	76-100	2*	2
				Sociology	200+	13+	9+
				Statistics	200+	9+	8+

Notes:

1. Depending on the subject area, between 50 and 500 universities were ranked.
2. Grey fonts indicate that the U of S 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