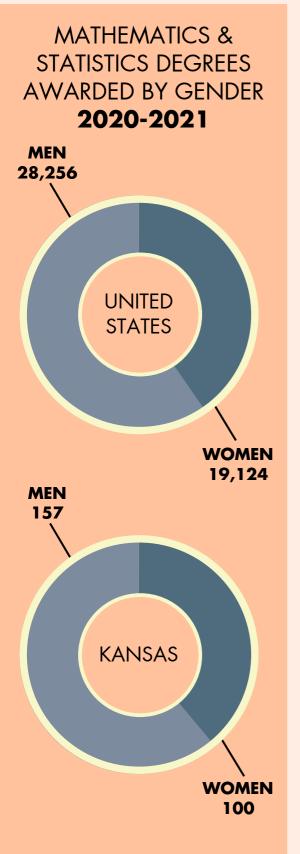
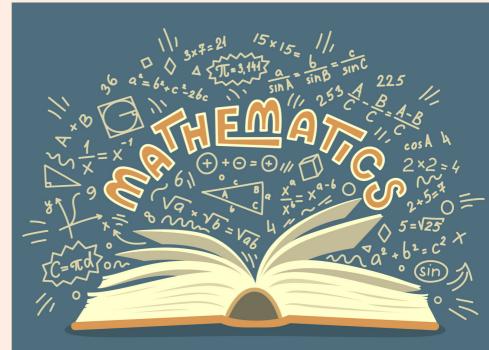
April 2023

Labor Market Information Services

MATHEMATICS & STATISTICS AWARENESS MONTH



Source: U.S. Department of Education, National Center for Education Statistics, Integrated Postsecondary Education Data System (IPEDS)



THE ORIGINS

"Mathematics Awareness Month began in 1986 as Mathematics Awareness Week with a proclamation by President Ronald Reagan. Activities concentrated on national-level events, such as opening an exhibit at the Smithsonian Institution on mathematics and hosting a Capitol Hill reception. In 1999, Mathematics Awareness Week became Mathematics Awareness Month, held each year in April. Since that time, the focus has shifted to activities at the local, state, and regional levels. Over the years, the general purpose has consistently been to increase the visibility of mathematics as a field of study and communicate the power and intrigue in mathematics to a larger audience. Its goal is to increase public understanding of and appreciation for mathematics. Starting in 2017, the month's theme is Mathematics and Statistics Awareness Month, to celebrate mathematics and statistics and the diverse researchers and students in these fields who are contributing so much to furthering discoveries, solving problems, and finding beauty in our world."

Visit <u>amstat.org/mathstatmonth</u> for more information.

15-2011.00

Actuaries Typically requires a Bachelor's Degree

Sample Job Titles: Actuarial Analyst, Actuarial Consultant, Consulting Actuary, Health Actuary, Pricing Analyst, Retirement Actuary

Analyze statistical data, such as mortality, accident, sickness, disability, and retirement rates and construct probability tables to forecast risk and liability for payment of future benefits. May ascertain insurance rates required and cash reserves necessary to ensure payment of future benefits.

\$65,360	\$99,860	\$126,180	340	33
Entry Level	Median Level	Experienced Level	Estimated	Projected Annual
Annual Wage	Annual Wage	Annual Wage	Employment	Openings

15-2031.00 **Operations Research Analysts** Typically requires a Bachelor's Degree

Sample Job Titles: Advanced Analytics Associate, Analytical Strategist, Decision Analyst, Optimization Analyst

Formulate and apply mathematical modeling and other optimizing methods to develop and interpret information that assists management with decision-making, policy formulation, or other managerial functions. May collect and analyze data and develop decision support software, services, or products. May develop and supply optimal time, cost, or logistics networks for program evaluation, review, or implementation.

\$55,920 Entry Level Annual Wage

\$77,040 Median Level **Annual Wage**

\$98,130 Experienced Level Annual Wage

Estimated Employment

530

67 **Projected Annual** Openings

15-2041.00 Statisticians Typically requires a Master's Degree

Sample Job Titles: Demographer, Mathematical Statistician, Quantitative Methodologist, Statistical Analyst, Statistical Consultant

Develop or apply mathematical or statistical theory and methods to collect, organize, interpret, and summarize numerical data to provide usable information. May specialize in fields such as biostatistics, agricultural statistics, business statistics, or economic statistics.

\$72,220

Entry Level **Annual Wage** \$101,620 Median Level Annual Wage

\$125,770 Experienced Level Annual Wage

90 Estimated Employment

19 **Projected Annual** Openings

15-2051.00 Data Scientists Typically requires a Bachelor's Degree

Sample Job Titles: No other suggested titles

Develop and implement a set of techniques or analytics applications to transform raw data into meaningful information using data-oriented programming languages and visualization software. Apply data mining, data modeling, natural language processing, and machine learning to extract and analyze information from large structured and unstructured datasets. Visualize, interpret, and report data findings. May create dynamic data reports.

\$63,240

\$91,500

\$107,840 **Experienced Level**

Annual Wage

190

Estimated Employment **Projected Annual** Openings

* * *

Entry Level Annual Wage

Median Level Annual Wage

*** Information not available or confidential

19-1041.00 Epidemiologists Typically requires a Master's Degree

Sample Job Titles: Chronic Disease Epidemiologist, Epidemiology Investigator, Infection Control Practitioner, Research Epidemiologist

Investigate and describe the determinants and distribution of disease, disability, or health outcomes. May develop the means for prevention and control.

	\$52,460	\$63,750	\$74 <i>,</i> 390	50	* * *
	Entry Level Annual Wage	Median Level Annual Wage	Experienced Level Annual Wage	Estimated Employment	Projected Annual Openings
_					

19-2021.00

Atmospheric and Space Scientists Typically requires a Bachelor's Degree

Sample Job Titles: Broadcast Meteorologist, Forecaster, Forensic Meteorologist, Meteorologist, Research Meteorologist

Investigate atmospheric phenomena and interpret meteorological data, gathered by surface and air stations, satellites, and radar to prepare reports and forecasts for public and other uses. Includes weather analysts and forecasters whose functions require the detailed knowledge of meteorology.

\$42,270

Entry Level Annual Wage \$65,290 Median Level Annual Wage

\$94,040 Experienced Level Annual Wage

140 Estimated Employment

37 **Projected Annual** Openings

19-2031.00 **Chemists** Typically requires a Bachelor's Degree

Sample Job Titles: Air Quality Chemist, Analytical Chemist, Chemical Laboratory Scientist, Forensic Chemist, Quality Control Chemist

Conduct qualitative and quantitative chemical analyses or experiments in laboratories for quality or process control or to develop new products or knowledge.

\$44,260 Entry Level Annual Wage

\$74,180 Median Level **Annual Wage**

\$89,210 Experienced Level Annual Wage

1,080 Estimated Employment

80 Projected Annual Openings

19-3022.00 Survey Researchers Typically requires a Master's Degree

Sample Job Titles: Data Analyst, Field Interviewer, Methodologist, Public Opinion Analyst, Survey Research Consultant

Plan, develop, or conduct surveys. May analyze and interpret the meaning of survey data, determine survey objectives, or suggest or test question wording. Includes social scientists who primarily design questionnaires or supervise survey teams.

\$68,980 13 \$44,280 \$49,480 170 Projected Annual Entry Level Median Level **Experienced Level** Estimated Openings **Annual Wage** Annual Wage Annual Wage Employment

Source: KDOL, Labor Market Information Services, 2022 Kansas Wage Survey and Employment Projections *** Information not available or confidential



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* Estimates are for Kansas

Interested in more labor market data?

Email us at KDOL.Laborstats@ks.gov or visit our website at www.klic.dol.ks.gov