MATHEMATICS & STATISTICS AWARENESS MONTH

MATHEMATICS & STATISTICS DEGREES AWARDED BY GENDER
2020-2021

**MEN
28,256**

UNITED STATES

**WOMEN
19,124**

**MEN
157**

KANSAS

**WOMEN
100**

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 amstat.org/mathstatmonth for more information.

MATHEMATICS & STATISTICS DRIVE CAREERS!

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 Annual Wage	Median Level Annual Wage	Experienced Level Annual Wage	Estimated Employment	Projected Annual 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	$77,040	$98,130	530	67
Entry Level Annual Wage	Median Level Annual Wage	Experienced Level Annual Wage	Estimated Employment	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	$101,620	$125,770	90	19
Entry Level Annual Wage	Median Level Annual Wage	Experienced Level Annual Wage	Estimated Employment	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	190	***
Entry Level Annual Wage	Median Level Annual Wage	Experienced Level Annual Wage	Estimated Employment	Projected Annual Openings

*** Information not available or confidential

MATHEMATICS & STATISTICS DRIVE CAREERS!

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	$74,390	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	$65,290	$94,040	140	37
Entry Level Annual Wage	Median Level Annual Wage	Experienced Level Annual Wage	Estimated Employment	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	$74,180	$89,210	1,080	80
Entry Level Annual Wage	Median Level Annual Wage	Experienced Level Annual Wage	Estimated Employment	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.

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

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