



Career Community:

Mathematics and Sciences



starkstate.edu/academics



Career Community:
Mathematics
and Sciences

Holland Code matches your interests to your ideal career and work environment.



Find out more. Make an appointment with Career Services to discover your code and what it means for your future.

call 330-966-5459
email careerservices@starkstate.edu
stop in main campus - M104
SSC Akron - Gateway Student Services

Do you enjoy complexity and problem solving?

Are you analytical, detailed and have a desire to continuously investigate and learn?

Do you enjoy working in a mixed setting offering independent and team environments?

These programs open opportunity to begin careers in biology, chemistry, mathematics, physics, pre-medical professional concentration and other math and science transfer programs.

Consider these and other careers

job title/description	Entry-level annual wage	Canton average annual wage	Akron average annual wage
actuary * analyze statistical data, such as mortality, accident, sickness, disability and retirement rates, and construct probability tables to forecast risk and liability; may ascertain insurance rates required and cash reserves necessary to ensure payment of future benefits	41,900	88,300	70,300
chemical technician * ⚡ conduct chemical and physical laboratory tests to assist scientists in making qualitative and quantitative analyses of solids, liquids, and gaseous materials for research and development of new products or processes, quality control, maintenance of environmental standards, and other work involving experimental, theoretical, or practical application of chemistry and related sciences	29,000	46,100	41,600
mathematician * conduct research in fundamental mathematics or in application of mathematical techniques to science, management and other fields; solve problems in various fields using mathematical methods	48,200	75,700	80,500
pharmacist * ⚡ dispense drugs prescribed by physicians and other health practitioners and provide information to patients about medications and their use; may advise physicians and other health practitioners on the selection, dosage, interactions, and side effects of medications	68,000	113,800	113,000
statistician * 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 bio-statistics or statistics in agriculture, business or economics; includes mathematical and survey statisticians	49,100	72,100	82,100

⚡ = high-demand, good-paying occupation: at least 1,000 job openings projected through 2028 in the Northeast Ohio region (10 counties in Akron, Canton and Cleveland MSAs); jobs pay \$15/hour or more

* may require further education; an advisor will help you determine your pathway

sources: high demand from 2018.2 QCEW employees; all other fields Bureau of Labor Statistics 2018 from JobsEQ

Critical skills and abilities

- active listening
- critical thinking
- deductive reasoning
- mathematical reasoning
- reading comprehension

Technical skills and knowledge

- analytical or scientific software
- computers and electronics
- data entry software
- mathematics
- object- or component-oriented software

Some local employers with jobs in this Career Community

American Financial Group
Bank of America
Davey Tree
Deloit
Diebold Nixdorf
Huntington National Bank
JP Morgan Chase
Mutual of Omaha Insurance
Prudential
Rubber companies
Summit County Public Health
The J.M. Smucker Company

Majors in this Career Community

EXPLORATORY MAJOR

If you know this career community is the right fit for you but you're unsure of your major, choose the **math and sciences exploratory major** to get started in the right direction. Your first 15 credit hours are applicable to all majors within this career community and you'll get the experience to know which major is right for you.

MATHEMATICS

MATHEMATICS

Mathematical, analytical and problem-solving abilities are always in demand by employers, from Wall Street to Hollywood and plenty of places in between. Plus, a recent national survey noted that the 15 top-paying careers in the U.S. all have one common factor: a strong background in mathematics. If your career choice requires further education, an associate degree in math can easily transfer to a four-year institution for a bachelor's degree and lead to a master's degree in mathematics or other areas.

Pre-actuarial mathematics

Actuarial math professions use mathematical and statistical methods to assess and manage financial risk for insurance companies and financial institutions. If you're interested in pursuing advanced degrees in mathematical or quantitative finance, Stark State's program builds strong problem-solving and analytical skills, business knowledge and a basic understanding of human behavior. Your courses will include statistics, economics and science.

SCIENCES

ASSOCIATE OF SCIENCE - GENERAL

The associate of science degree provides a solid but flexible background in math, natural sciences or technology. It can lead to career paths in almost any field. It is a great, affordable way to complete the first two years of a four-year degree in any STEM field.

BIOLOGY

Build a foundation for all the career bases: biological research, environmental science, science education or pre-med. You'll get courses in general biology, anatomy and physiology, principles of microbiology, general genetics, cell and molecular biology, physical geology and ecology. All the core biology courses include a laboratory, allowing you to apply scientific reasoning while developing your basic lab skills. You'll have a solid foundation for a seamless transfer to a bachelor's degree program in a variety of STEM fields.

CHEMISTRY

You can put this degree right to work in a job as a lab or plant technician in chemical, medical, petroleum and other related industries, or transfer to any public college or university in Ohio for a bachelor's degree. With high wages and low unemployment, chemists have their choice of a wide range of career paths in industries such as oil and gas, paints and coatings, synthetic rubber and polymers, soap and detergent and pharmaceuticals. Chemists also do research for industry, academia and government sectors, or they can find well-paying jobs in other fields – technical sales, patent law, technical writing and more.

PHYSICS

A physics degree can take you from NASA to Wall Street and a lot of other places. From art restoration to rubber, you'll find physicists in many areas of industry research, as well as in scientific research labs, academia, government, patent law, medical facilities, technical writing and a variety of other areas. An associate degree in physics will transfer into any STEM degree where you're likely to be among the 95% of physics graduates who find jobs right out of college and earn an above-average starting salary.

PRE-MEDICAL PROFESSIONAL CONCENTRATION

If you're interested in a career as a physician, pharmacist, dentist or veterinarian, our associate of science degree with a pre-medical professional concentration gives you the foundation for most pre-medical professional degrees. Our courses are taught by highly credentialed faculty in a small class-room setting and our laboratory facilities have been ranked centers of excellence. Best of all, most of our courses are TAG/OTM approved, which means they'll transfer to public universities in Ohio. Also, Stark State has a partnership with the Northeast Ohio Medical University (NEOMED) for those interested in becoming a pharmacist. Students can complete all required pre-requisite course work at Stark State and apply directly to NEOMED's College of Pharmacy. No bachelor's degree needed, and Stark State's program grads can be accepted directly into NEOMED's College of Pharmacy.



Stark State
COLLEGE

6200 Frank Ave NW
North Canton, OH 44720

Admissions

330-494-6170 ext. 4228 | 1-800-797-8275 | info@starkstate.edu

Career Services

330-966-5459 | careerservices@starkstate.edu

Some careers represented in this viewbook may require further education. The information provided is based on regional data and subject to change. Please see an SSC advisor to make sure you're on the path to success. / Accredited by the Higher Learning Commission / Stark State College is committed to non-discrimination. For the full policy: starkstate.edu/non-discrimination

