



Career Community:

Mathematics and Sciences



starkstate.edu/academics



Career Community:
**Mathematics
 and Sciences**

Find out more.
 Identify and explore your
 unique Holland code.



Schedule a career exploration appointment
 with a Stark State career specialist.

call 330-966-5459

email careerservices@starkstate.edu

stop in main campus - M104

SSC Akron - Gateway
 Student Services

or hover your camera over
 this QR code and tap the link



Do you have a desire to continuously investigate and learn while 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 for payment of future benefits. May ascertain insurance rates required and cash reserves necessary to ensure payment of future benefits	40,650	81,500	87,000
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	37,000	54,600	49,500
pharmacist * * work with physicians and other members of the healthcare team to ensure the safety and efficacy of medications prescribed to patients. They often make recommendations to prescribers and in some situations may directly prescribe medications to patients. There are more than 100 unique career paths available for pharmacists, including veterinary pharmacy, critical care pharmacy, solid organ transplant pharmacy and medical cannabis, to name a few.	75,550	126,200	105,400
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, agricultural statistics, business statistics, or economic statistics. Includes mathematical and survey statisticians	51,600	73,000	83,300

* = high-demand, good-paying occupation: at least 1,000 job openings projected over 10-years (2022-2032) in the northeast Ohio region (9 counties in Akron, Canton and Cleveland MSA's) and jobs pay at least \$15/hour

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

source: *JobsEQ® 2020*

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 Electric Power
Bank of America
Davey Tree
Deloit
Diebold Nixdorf
Dollar Bank
Goodyear
Huntington Bank
J.M. Smucker Company
Summit County Public Health

Stark State math and science courses are taught by highly qualified instructors in exceptional lab facilities with small class sizes. Most courses are transferable to all Ohio public and many private colleges and universities.

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 and natural sciences. 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. All required courses in the degree are transferable.

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 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

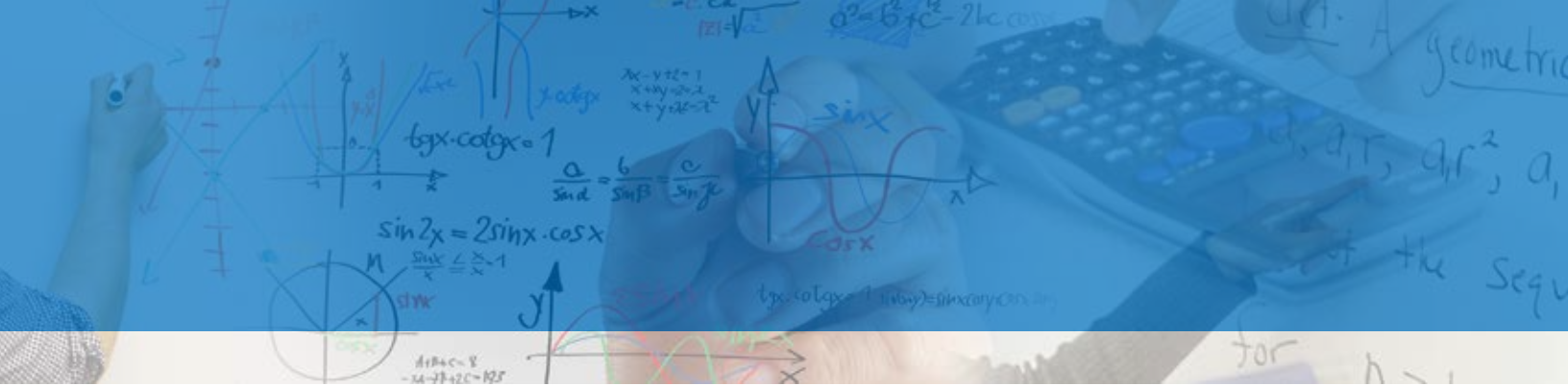
You can put this degree right to work in a job as a lab or plant technician in chemical, medical, petroleum and other related industries, or transfer to any public college or university in Ohio for a bachelor's degree. With high wages and low unemployment, chemists have their choice of a wide range of 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, the associate of science degree with a pre-medical professional concentration gives you the foundation for most pre-medical professional degrees. Courses are taught by highly credentialed faculty in a small classroom setting and our laboratory facilities have been ranked centers of excellence. Courses are transferable 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, no bachelor's degree needed. Program grads can be accepted directly into NEOMED's College of Pharmacy.



Stark State
COLLEGE

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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

