



Career Community:

Mathematics and Sciences



starkstate.edu/academics



Career Community: Mathematics and Sciences

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	Canton/Akron entry-level annual earnings	Canton/Akron average annual earnings
data scientist 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	46,077	87,134
food scientist and technologist use chemistry, microbiology, engineering and other sciences to study the principles underlying the processing and deterioration of foods; analyze food content to determine levels of vitamins, fat, sugar and protein; discover new food sources; research ways to make processed foods safe, palatable and healthful; apply food science knowledge to determine best ways to process, package, preserve, store and distribute food	46,327	91,792
forest and conservation worker provide front-line services to visitors, including protective and assistance services; enforce the park and forest rules; provide educational programming and activities for visitors through seasonal naturalist programs and several other initiatives	19,344	48,364
materials scientist plan and interpret inspection procedures to detect defects in solid materials; apply methods, such as X-ray and isotope inspection, ultrasonic testing and magnetic particle inspection, to verify the integrity and safety of materials, components and structures without causing damage; manage technical orders and manuals, and interpret indications of applied test methods	68,758	101,321
nuclear engineer conduct and design research and experiments, and develop technologies related to nuclear power generation; apply concepts of nuclear science to design and develop industrial and medical technologies that utilize nuclear energy and radiation	93,865	117,656
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	40,208	120,118

Top hiring industries

- administrative management and general management consulting services
- colleges, universities and professional schools
- home health care services
- management consulting services
- medical laboratories
- paint and coating manufacturing
- pharmacies and drug retailers
- veterinary services



Schedule an appointment with a career specialist to explore opportunities in these industries.

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

source: Team NEO (Lightcast Data 2024)

Critical skills and abilities

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

Specialized skills and knowledge

- analytical or scientific software
- computers and electronics
- data entry software
- mathematics
- object- or component-oriented software
- Microsoft 365

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

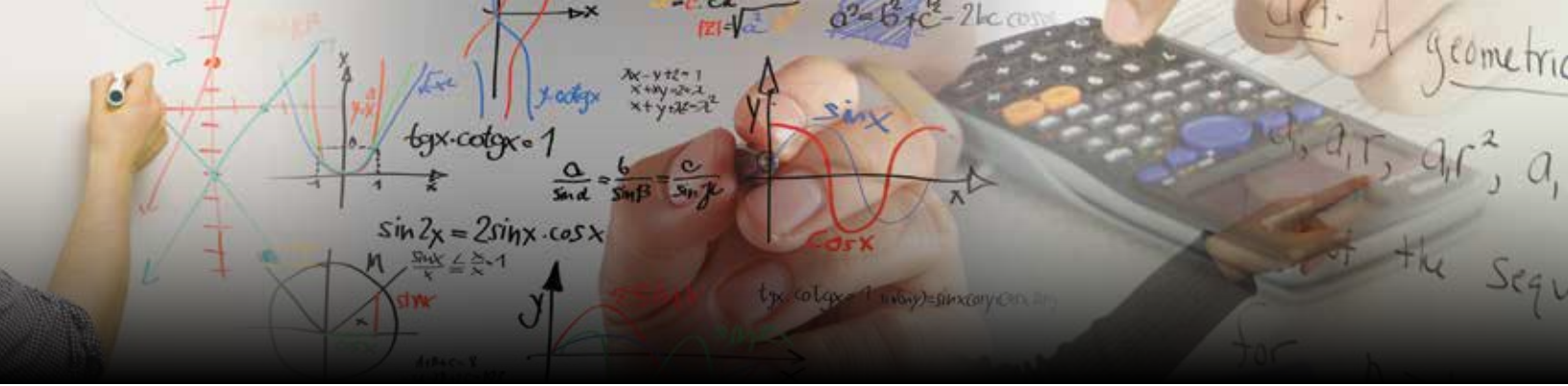
You can put this degree right to work in a job as a lab or plant technician in chemical, medical, petroleum and other related industries, or transfer to any public college or university in Ohio for a bachelor's degree. With high wages and low unemployment, chemists have their choice of a wide range of 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 Northeast Ohio Medical University (NEOMED) for those interested in becoming a pharmacist. Students can complete all required pre-requisite coursework 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.



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Admissions

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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

