

# “Why Do I Need This Science Class?”

Strong **SCIENCE** skills are required for the following jobs:



Agricultural Management Advisor ■ Agricultural Scientist ■ Agriculture and Natural Resources Teacher ■ Animal Caretaker ■ Forester ■ Microbiologist ■ Plant Geneticist ■ Plant Pathologist ■ Soil and Water Conservationist ■ Veterinarian ■ Food Scientist/Technologist ■ Zoologist



Boilermaker ■ Civil Engineer ■ Electrical and Power Transmission Installer ■ Elevator Installer ■ Environmental Engineering Technician ■ Hazardous Materials Remover ■ Iron/Metalworker ■ Pipe Fitter ■ Millwright ■ Restoration Technician ■ Surveying and Mapping Technician



Audio and Video Equipment Technician ■ Technical Computer Support Technician ■ Graphics and Printing Equipment Operator ■ Graphic Designer ■ Photographer ■ Commercial Artist ■ Cinematographer ■ Film/Video Editor ■ State Manager ■ Radio/TV Announcer



Administrative Service Manager ■ Business and Development Manager ■ Industrial Relations Director ■ Labor and Personnel Relations Specialists ■ Operations Manager



Middle School Science Teacher ■ Chemistry, Biology, Earth Science, or Physics Teacher ■ College or Community College Professor ■ Elementary Teacher ■ Technical Writer ■ Corporate Training Specialist ■ Preschool Teacher ■ Homebound Teacher ■ Textbook Editor



Auditor ■ Compliance Officer ■ Insurance Appraiser ■ Risk Manager ■ Sales Agent ■ Securities and Commodities ■ Underwriter



National Security Advisor ■ Nuclear Weapons Specialist ■ Missile and Space Systems ■ Inspector ■ Aviation Safety Officer ■ Foundation Executive Director ■ Global Imaging Systems Specialist



Anesthesiologist/Assistant ■ Registered Nurse ■ Chiropractor ■ Dental Hygienist/Assistant ■ Dentist ■ Paramedic ■ Physician ■ Physician's Assistant ■ Pharmacist ■ Surgical Technologist ■ Veterinarian/Assistant ■ Cardiovascular Technologist ■ Phlebotomist ■ Biochemist ■ EEG Technologist ■ Forensic Scientist ■ Microbiologist ■ Mortician ■ Nuclear Medicine Technologist



Chief Engineer ■ Executive Chef ■ Food and Beverage Manager ■ Nature Tourism Coordinator ■ Parks and Gardens Director



Barber ■ Cosmetologist ■ Nail Technician/Manicurist ■ Esthetician ■ Personal Aide/Companion ■ Personal Trainer ■ Mortician ■ Spa Attendant ■ Clinical Psychologist ■ Leisure Activities Coordinator ■ Consumer Researcher



Applications Computer Engineer ■ Network Engineer ■ Systems Engineer ■ Systems Test Engineer ■ Technical Support Engineer



Security Systems Designer ■ Private/Corporate Investigator ■ Loss Prevention Specialist ■ Certified Security Officer ■ Transportation Security Technician ■ Port Security Specialist ■ Emergency Medical Technician ■ Fire Fighter ■ Fire Inspector and Investigator ■ Criminal Investigator ■ Bomb Technician ■ Police Detective ■ Evidence Technician ■ Customs Inspector



Automated Manufacturing Technician ■ Biomedical Equipment Technician ■ Boilermaker ■ Computer Maintenance Technician ■ Electrical Equipment Installer/Repairer ■ Inspector ■ Laser Systems Technician ■ Medical Appliance Maker ■ Process Control Technician ■ Quality Engineer



International Merchandising Manager ■ Market Researcher ■ Purchasing Manager ■ Sales Representative ■ Wholesale Distribution Manager



Electrical/Electronics and Communications Engineer ■ Environmental Scientist ■ Geoscientist ■ Hazardous Waste Engineer ■ Marine Scientist ■ Meteorologist ■ Nuclear Chemists ■ Renewable Energy Project Manager ■ Sound Technician ■ Toxicologist ■ Wind Energy Engineer



Aviation Inspector ■ Electronic Equipment Installer ■ Environmental Science and Protection Technician ■ International Logistics Specialist ■ Locomotive Engineer ■ Medium/Heavy Truck Technician ■ Motor Boat Mechanic ■ Public Transportation Inspectors ■ Small Engine Repair Technician



Learning that works  
for Michigan

The 16 career clusters are occupational categories with industry-validated knowledge and skills statements that define what students need to know and be able to do in order to realize success in a chosen field.

Within each of the clusters, programs of study (also called “career pathways”) have been developed which outline sequences of academic, career, and technical courses and training that begin as early as ninth grade and lead to progressively higher levels of education and higher-skilled positions in specific industries or occupations.

It is envisioned that all students will achieve challenging academic and technical standards and be prepared for high-skill, high-wage, or high-demand occupations in current or emerging professions in the 21<sup>st</sup> century global economy.

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