



**SCIENCE ■ TECHNOLOGY ■ ENGINEERING ■ MATH**

**STEM**

Southeastern Massachusetts Network

**1. USING THE LIST OF STEM MAJORS:**

**Name at least one career opportunity open to graduates in the follow STEM Majors.**

- Agriculture & Natural Resources \_\_\_\_\_
- Architecture \_\_\_\_\_
- Biological & Biomedical Sciences \_\_\_\_\_
- Computer & Information Sciences \_\_\_\_\_
- Engineering & Engineering Technology/Technicians \_\_\_\_\_
- Health Professionals and Clinical Sciences \_\_\_\_\_
- Mathematics & Statistics \_\_\_\_\_
- Physical Sciences \_\_\_\_\_
- Other STEM Majors:
  - Precision production \_\_\_\_\_
  - Mechanic and repair technologies/technician \_\_\_\_\_
  - Military technology \_\_\_\_\_

**2. IDENTIFY A STEM MAJOR LINKED TO YOUR INTERESTS**

Identify at least one STEM Major that relates most to your interests. \_\_\_\_\_

**3. STEM CAREER EXPLORATION WEBSITE**

Explore jobs that reflect your interests and aptitudes via surveys, games and interactive tools.

Use the **Massachusetts Career Information System (MassCIS)** to engage in career exploration activities and develop career plans. **Go to**

<http://www.connectsemass.org/stem/workforce.html>.

## Majors included as STEM in the 2007-2008 SAT Registration Questions: College Majors

### AGRICULTURE & NATURAL RESOURCES

**Agriculture, agriculture operations, and related sciences:** agricultural business and management, agronomy and crop science, animal sciences, applied horticulture/horticultural business services, equestrian/equine studies, farm/farm and ranch management, food science and technology, soil sciences. **Natural resources and conservation:** environmental science, environmental studies, fishing and fisheries sciences and management, forestry, natural resources management and policy, wildlife and wild lands science and management.

### ARCHITECTURE

**Architecture and related services:** architecture, architectural technology/technician, city/urban, community, and regional planning, environmental design, landscape architecture.

### BIOLOGICAL & BIOMEDICAL SCIENCES

**Biological and biomedical sciences:** biology/biological sciences, biochemistry, biophysics, biotechnology botany/plant biology, cell/cellular biology and anatomical sciences, ecology, genetics, marine biology and biological oceanography, microbiological sciences and immunology, molecular biology, pharmacology and toxicology, physiology, pathology, and related sciences, radiation biology/radiobiology, zoology/animal biology.

### COMPUTER & INFORMATION SCIENCES

**Computer and information sciences and support services:** artificial intelligence and robotics, computer programming, computer science, computer software and media applications, computer systems analysis, computer systems networking and telecommunications, data processing, information sciences/studies.

### ENGINEERING & ENGINEERING TECHNOLOGY/TECHNICIANS

**Engineering:** aerospace, aeronautical, and astronautical engineering, agricultural/biological engineering and bioengineering, architectural engineering, biomedical/medical engineering, chemical engineering, civil engineering, computer engineering, construction engineering, electrical, electronics, and communications engineering, engineering mechanics, engineering physics, engineering science, environmental/environmental health engineering, geological/geophysical engineering, industrial engineering, materials engineering, mechanical engineering, mining and mineral engineering, naval architecture and marine engineering, nuclear engineering, ocean engineering, petroleum engineering, surveying engineering, materials science, polymer/plastics engineering.

**Engineering technologies/technicians:** computer engineering technology/technician, drafting/design engineering technologies/technicians, industrial technology/technician, instrumentation technology/technician, manufacturing technology/technician, mechanical engineering/mechanical technology/technician, nuclear engineering technology/technician, plastics engineering technology/technician, telecommunications technology/technician.

### HEALTH PROFESSIONALS AND CLINICAL SCIENCES

**Health professions and related clinical services:** allied health and medical assisting services, allied health diagnostic, intervention, and treatment professions, athletic training/trainer, chiropractic (DC), clinical/medical laboratory science and allied professions, communication disorders sciences and services, dental hygiene/hygienist, dental laboratory technology/technician, dental support services and allied professions, dietetics and clinical nutrition services, environmental health, health and medical administrative services, health services/allied health/health sciences, hospital and health care facilities administration/management, mental and social health services and allied professions, music therapy/therapist, nuclear medical technology/technologist, nurse anesthetist, nursing, occupational therapy/therapist, optometry (OD), osteopathic medicine/osteopathy (DO), pharmacy, pharmaceutical sciences, and administration, physical therapy/therapist, physician assistant, podiatric medicine/podiatry (DPM), pre-dentistry studies, premedicine/pre-medical studies, prepharmacy studies, preveterinary studies, public health, radiologic technology/science – radiographer, rehabilitation and therapeutic professions, respiratory care therapy/therapist, sports medicine, surgical technology/technologist, therapeutic recreation/recreational therapy.

### MATHEMATICS & STATISTICS

**Mathematics and statistics:** applied mathematics, mathematics, statistics.

### PHYSICAL SCIENCES

**Physical sciences:** analytical chemistry, astronomy, astrophysics, atmospheric sciences and meteorology, atomic/molecular physics, chemistry, geological and earth sciences/geosciences, nuclear physics, oceanography, chemical and physical, organic chemistry, paleontology, physical and theoretical chemistry, physics, planetary astronomy and science.

### OTHER STEM MAJORS:

**Precision production:** machine tool technology/machinist, precision metal working. **Mechanic and repair technologies/technician:** airframe mechanics and aircraft maintenance technology/technician, automobile/automotive mechanics technology/technician, electrical/electronics maintenance and repair technology, heating, air conditioning, ventilation, and refrigeration maintenance technology/technician (HAC, HACR, HVAC, HVACR). **Military technology.**