

MANCHESTER SCHOOL OF TECHNOLOGY

CAREER CLUSTERS AND PROGRAMS

BUSINESS AND MARKETING

- **Applied Business Management**
- **Academy of Finance**
- **Marketing Education**
- **Sports Marketing and Entertainment**

COMMUNICATIONS

- **Design Communication(DesCom)**
- **Graphics/Printing**
- **Video Production**

CONSTRUCTION

- **Landscape/Horticulture**
- **Residential Carpentry**
- **Electrical Technology**
- **Residential Plumbing**

MECHANICAL/ENGINEERING

- **Architecture and Civil Engineering**
- **Automotive Technology**
- **Collision Repair/Refinish Technology**

SERVICES

- **Cosmetology**
- **Culinary Arts**
- **Early Childhood Education**
- **Health Science Technology Education**
- **Public Safety**

PROPOSED PROGRAMS TO BE ADDED OR SIGNIFICANT RENOVATION

Pre-engineering expansion – TO BE ADDED

MST currently has 1(one) pre-engineering course offered in Architecture and Civil Engineering. We would like to add the capstone courses of CIM (Computer Integrated Manufacturing and EDD (Engineering Design and Development). We need to quantify the cost/benefit ratio for adding Biotechnology. Would the course draw enough students? Would the cost be prohibitive for the students that it may serve? These are questions the Regional Advisory Board needs to answer. We would also like to have our Manufacturing Technology Program flow into application with the CIM course so students would be able to have access to all aspects and levels of manufacturing.

Manufacturing Technology-TO BE ADDED

Despite the decline in manufacturing jobs in New Hampshire, there still is a great need in the community and directly outside of Manchester for manufacturing positions. One example alone is BAE Systems, the largest manufacturer and employer in New Hampshire. They employ 5000 workers, of which only 1000 are engineers. In the next 5 years 25% of their workforce will retire. There are many skills learned in manufacturing, from machining to welding. These skills will make a person highly employable at good entry level wages. Companies in the area willing to create partnerships: BAE Systems, Jewell Electronics, EPE Corporation, Ironworkers and Sheet Metal Workers Unions, Intellitek. They are willing to offer equipment, internship and apprenticeship opportunities, and personnel support.

Future Educators Academy- TO BE ADDED

We would like to implement this program as a means of training future Manchester area/New Hampshire teachers. This program is not costly to initiate. There is a purchase requirement of texts-about \$3000 and the need for a classroom(s) and computer lab. This would complement the existing Early Childhood Education program. Students can be placed in the existing schools in the Manchester School District and area for senior year internships.

Expansion of the Health Science Technology Program-TO BE ADDED

The Health Science program is extremely competitive, resulting in a wait list each year. This program is comprehensive and trains students to enter any of the many health science fields. There is a severe shortage of health care workers in the Manchester area. The cost to expand this program would be primarily from the room/technology needed to expand for another classroom and teacher.

Automotive Technology/Collision Repair-SIGNIFICANT RENOVATION

The Automotive program needs to have reconfiguration of significant space and updating of equipment. Our program needs to meet NATEF certification requirements to meet industry standards. Considerable time is being spent on bringing our teachers to NATEF certification and should be complete for application by the fall of 2006. The

classroom area needs to be placed near the work area instead of the current space on the other side of the school. Equipment and tools need to be added to comply with NATEF certification requirements. Students need to learn more about the technology component of the automobile (diagnostics) to remain competitive. NATEF curriculum needs to be compiled and organized.

Cosmetology-SIGNIFICANT RENOVATION

The cosmetology program has grown significantly to three teachers and continues to be one of the highest demand programs. The program enables students to save significant time and money when they enter cosmetology school after high school. Our classrooms and fixtures are completely outdated. Only one of three rooms is actually outfitted with equipment for cosmetology, where the other two rooms were never planned for this program and lack space, sinks, and most equipment needed. We also need to open a school salon for practical application of skills, and the current branches of esthetics in high demand today: massage and spa treatments.

Culinary Arts-SIGNIFICANT RENOVATION

Also a high demand program, the kitchen equipment is becoming outdated, and lacking the most up-to-date appliances needed for new food preparation techniques (i.e. steaming) The dining room is only available for operation on days where students are not needing classroom space since the dining room doubles as the classroom. To attract the public, the dining room and its furniture needed to be updated. At least 2 classrooms need to be built or reconfigured nearby.