

# Current Course Descriptions

---

## EMERGENCY MEDICAL SERVICES

### **EMED 1112 Emergency Medical Technician, 9 credit**

Course content includes materials included in the most current Emergency Medical Services (EMS) Educational Standards appropriate for the Emergency Medical Technician (EMT) and utilizes more current principles as needed. The EMT course is an assessment-based education utilizing cognitive knowledge attained applied to real-life situations. The EMT course provides preparation in prehospital assessment and care for patients of all ages with a variety of medical conditions and traumatic injuries. Major topic areas covered include introduction to EMS, roles and responsibilities of an EMS provider, medical and trauma assessment, anatomy and physiology, pathophysiology of disease, and special populations. Upon successful completion of this course, students will be eligible to sit for the National Registry of Emergency Medical Technicians (NREMT) psychomotor and cognitive exams at the EMT level. (Prerequisites: None)

### **EMED 1076 BLS for the Health Care Provider, 1 credit**

This course includes First Aid and Cardiopulmonary Resuscitation (CPR) for the Adult, Child, and Infant. This course is taught with National Safety Council and current American Heart Association guidelines. Alternative CPR delivery models will be covered. This course fulfills the requirements for health care programs including Practical Nursing, Medical Assistant, as well as students in various other programs. Upon successful completion, participants will receive an American Heart Association Basic Life Support (BLS) for the HealthCare Provider card. (Prerequisites: None)

## HEALTH

### **HLTH 1103 Nursing Assistant/Home Health Aide, 5 credits**

This course introduces concepts of basic human needs, basic nursing and personal care skills, mental health and social needs, restorative services, residents' rights, and home health. The skills are performed in a supervised laboratory and long term care clinical setting. The course is the MnSCU approved curriculum and meets the requirements of the Minnesota Department of Health. Upon completion of the competency evaluation, students can be employed in either a long term care facility, hospital, or assisted living facility. Minnesota Department of Health: Reimbursable Expenses Nursing assistants who pay for the cost of their training and testing prior to employment are eligible for reimbursement. The nursing assistant has 1 year from completion of the test to turn in receipts requesting reimbursement. The facility has 90 days to reimburse the nursing assistant. If the nursing assistant does not remain employed as a nursing assistant for 90 days, the nursing home is under no obligation to reimburse the nursing assistant. The first nursing home the nursing assistant stays at for at least 90 days would then be responsible to reimburse the nursing assistant if it has been 1 year or less since completion of the test. Only

certified nursing homes or boarding care homes are required to reimburse a nursing assistant.  
(Prerequisites: None)

## **MACHINE TRADES**

### **MACH 1132 Blueprint Reading I/CAD, 3 credits**

This course includes the basic interpreting and drawing of 2D Engineering drawing principles. Topics include one-, two- and three-view drawings, dimensioning, tolerance, symbols, sketching, incline surfaces, circular features, sectional views, surface texture, and auxiliary views.  
(Prerequisites: None)

### **MACH 1140 CAD I, 1 credits**

This course includes the basic use and operation of 2D CAD (Computer Aided Design) software. This course covers the construction and manipulation of drawings, using software to draw and dimension parts. (Prerequisites: None)

### **MACH 1170 Math for Machinists I, 3 credits**

This course covers common fraction, decimal and percentage calculation applications to manufacturing standards. Linear measurements and metric to English conversions will be covered as well as fundamentals of algebra and geometry as they apply to machine trades.  
(Prerequisites: None)

## **WELDING**

### **WELD 1002 Math for Welders, 1 credit**

Math skills are essential for welders that read prints, layout, fit-up, fabricate or design welded structures. This course will review the basic math concepts required to be a successful welder. Topics covered will include addition, subtraction, multiplication and division of whole numbers, fractions, and decimals. Also included are direct measurements, using both English and System International units, computed measurement, and stretch outs. (Prerequisites: None)

### **WELD 1004 Oxy-Fuel Applications, 1 credit**

This course focuses on the hand skills, safety and knowledge needed to be proficient with oxy-fuel brazing and oxy-fuel cutting processes. Also covered are: Oxy- fuel track cutting, carbon arc gouging, plasma cutting and gouging. (Prerequisites: None)

### **WELD 1006 Oxy-Fuel Processes, 1 credit**

This course focuses on Oxy-Fuel safety and background knowledge needed to be proficient with oxy-fuel brazing and oxy-fuel cutting processes. (Prerequisites: None)

### **WELD 1008 Blueprint Reading I, 2 credits**

This course covers basic lines, basic views, title block information, dimensions, structural shapes, auxiliary views, section views, detail prints, welding symbols and other various blueprint information. (Prerequisites: None)