

**HI24** HERO  
**1.0 Cr.**  
**HI25** HERO LAB  
**2.0 Cr.** HI256 & HI257 2 LABS (6<sup>th</sup> & 7<sup>th</sup>)

**FE, VE** Prerequisites: Building Trade 1-2, Construction Technology 1-2  
**1 Year** Homework: Average  
**VE** Degree of Difficulty: Average  
 Grade Level: 10,11,12  
**1 Year** Course fee of \$30 is required

The HERO (Home Economics Related Occupations) program is a three-credit course for seniors that consists of a daily schedule of one period of classroom instruction (HI24) plus a two period lab for work experience (HI25). The class includes learning to balance work and personal life, examining the world of work, learning to be successful on the job, practical economic concepts and participation in the HERO club. Students may experience applications supporting the Arizona Academic Math Standards. On the job, students are employed in the areas of fashion, hospitality and food service, interior design, childcare, facility services, and health related fields. The teacher-coordinator and the employer supervise the work experience. HERO students work a minimum of 15 hours per week and earn wages as well as receive Economics and Vocational Education requirements needed for graduation. (This course meets state economic standards and the TUHSD economics credit requirement.) [Board Adopted 2000] [Board Revised 2007]  
 Prerequisite: Teacher approval, job interest related to the field of study.  
 Homework: Minimal  
 Degree of Difficulty: Average  
 Grade Level: 12  
 Course fee of \$40 is required

**HI36** Building Trades 5-6 **VE**  
**1.0 Cr.** **1 Year**

An advanced course of study designed for the student with a strong desire to pursue one or more of the Building Trades professions or occupations. Students further their knowledge of job and work place safety. Student can self-direct their individualized study to include: construction management, construction safety engineering, framing/structural design and fabrication, electrical, plumbing, masonry, concrete, cabinet design and construction, and finishing. This course can be taken concurrently with I.C.E. (Industrial Cooperative Education) to give the student on site job training in his/her area of specialty. Students signing up for this course will meet with the instructor to determine the path of study they want to pursue. Looking toward the future the student will investigate the availability of apprenticeship programs, trade schools, technical schools, universities and scholarship offering his/her choices of career and occupations. [Board Adopted 2002] [Board Revised 2004]  
 Prerequisites: Building Trade 1-2, Construction Technology 1-2, 3-4  
 Homework: Average  
 Degree of Difficulty: Average  
 Grade Level: 11,12  
 Course fee of \$30 is required

**TECHNOLOGICAL STUDIES**  
**Construction Technology 1-2**

**HI31** **VE**  
**1.0 Cr.** **1 Year**

An introductory course for students to explore woodworking and construction technology. Students will explore skills, materials, methods, and processes that will provide them with career awareness. The student will obtain basic working knowledge of woodworking skills and construction trade skills through hands on experience in a lab setting, with emphasis on safe use of hand tools, portable power tools, and stationary power equipment. The student will develop work place skills through career and job exploration, leadership style and techniques, construction economy, organization, oral/written communications, and mathematics related to the industry. [Board Adopted 1998][Board Revised 2004]  
 Prerequisites: None  
 Homework: Minimal  
 Degree of Difficulty: Average  
 Grade Level: 9,10,11,12  
 Course fee of \$30 is required

**HI63** Introduction to Engineering **VE**  
**1.0 Cr.** **1 Year**

This class gives the student a broad exposure to engineering technologies that include robotics, alternative energies, computer programming, electronics, scientific laws and principles, design, and problem solving. The student will acquire knowledge and skills related to these concepts through project based learning. The course will prepare students for the CISCO and Mechanical Engineering courses in the Engineering Program. [Board Adopted 2009]  
 Prerequisites: None  
 Homework: Average  
 Degree of Difficulty: Average  
 Grade Level: 10, 11, 12  
 Course fee of \$30 is require

**HI32** Building Trades 1-2 **VE**  
**1.0 Cr.** **1 Year**

An intermediate course for students with a greater interest in building trades profession. This course will include a safe hands-on and applied study of wood frame construction, masonry, concrete, tile, drywall, plumbing, water distribution and electrical. Students will perform record and management duties, demonstrate oral and written communication skills as well as apply mathematic concepts related to construction. The program will include career and job exploration, entrepreneurship, management and leadership skills. [Board Adopted 2002][Board Revised 2004]  
 Prerequisites: Construction Technology 1-2 teacher recommendation  
 Homework: Minimal  
 Degree of Difficulty: Average  
 Grade Level: 10,11,12  
 Course fee of \$30 is required

**HI65** Industrial Cooperative Education **FE, VE**  
**1.0 Cr.** **1 Year**  
**HI66 I** (ICE) **VE**  
**2.0 Cr.** **1 Year** **CE Lab**

ICE is a training program for seniors who have demonstrated an interest in a career in Industry. The student should have sufficient skill development from previous Industrial Arts courses for initial employment. Students chosen for this program will have one period of classroom instruction plus a two-period lab for work experience. ICE students will work a minimum of 15 hours a week and will be paid while in this training and learning situation. This program is a cooperative effort between the school and the community; the student is supervised by the teacher-coordinator as well as by the employer. Students must apply and be selected before registration. The selection will be based on the student's interest in an industrial career, mechanical skills and knowledge, school attendance, and availability of a training situation for which the teacher-coordinator feels the student is adequately prepared. (This course meets state economic standards and the TUHSD free enterprise credit requirement.) [Board Revised 2003] [Board Revised 2007]  
 Prerequisites: None  
 Homework: Average  
 Degree of Difficulty: Average  
 Grade Level: 12  
 Course fee of \$30 is required

**HI35** Building Trades 3-4 **VE**  
**1.0 Cr.** **1 Year**

An intermediate course specifically detailing the areas of machine and power tool operations, safety and maintenance. This course will give the student a strong working and applied understanding of finish carpentry, cabinet design and production, blue print reading, cabinet and door construction and installation, interior and exterior finishing, as well as keeping accurate performance and management records. Through the use of model construction the student will begin to develop an understanding of floor, frame and roof construction. The student will further develop work place skills by means of written and oral communications, job and career exploration, work place safety, mathematics related to the industry, and leadership techniques. [Board Adopted 2002] [Board Revised 2004]