

Agriculture and Natural Resources

Biotechnology (THBA/THBB)

2 - Hour Class

Location: ROP Center - 12:45 pm - 2:45 pm

Credit: 20 units per year

This course introduces students to the basic concepts of the science and business of biotechnology. The course includes overviews of biotechnology product development cycle, bioethics and relevant laws and regulations. Students will learn laboratory procedures including basic laboratory math and statistics, experiment design and laboratory safety procedures. This course explores biotechnology techniques involving recombinant DNA, DNA replication, protein synthesis, transcription, translation, PCR, cloning and chromatography. Students will prepare for career opportunities such as labeling operators, packaging specialists, bio-process technicians, instrumentation analysis, media prep technicians and related positions in pharmaceutical manufacturing. Students are expected to complete an internship with a Biotech company as a component of this course.

Students receive BIOT 105 credit at Ohlone College.

Landscape Design and Maintenance (TFAB)

2 - Hour Class

Location: ROP Center - 12:45 pm - 2:45 pm

Credit: 20 units per year

Students will perform tasks related to production, processing, installation, layout, and maintenance of foliage, plants, flowers, and shrubs. The course includes the study of botanical classification; plant identification, growth, development, propagation, health, and management. The program offers current information and practices in safe pesticide use, sprinkler systems, landscape design, and plant selection. Hands-on laboratory and/or community classroom experiences are available. Instruction includes planning and designing landscapes using computerized tools such as AutoCAD and actual construction of landscapes.

Veterinary Assistant (THVB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm

Credit: 20 units per year

This course provides training for students interested in animal related careers, particularly veterinary medicine and veterinary technology. By the end of the course, students will have the skills necessary for employment in veterinary clinics, and/or pet shops, grooming facilities, animal shelters, and kennels. The first semester is spent in the classroom and laboratory learning terminology, anatomy and physiology, pharmacology, laboratory techniques, animal restraint, veterinary nursing, grooming, front office skills and basic work skills. On-the-job training is available during second semester in an animal care facility. (Students must provide their own transportation for on-the-job training.) It is strongly recommended that enrolling students have successfully completed courses in Biology and Algebra I. ***Advanced placement is available in Foothill College's Veterinary Technician Program.***

Arts, Media and Entertainment Technology

Beginning Video Production (TAMA)

Advanced Video Production 1, 2 (TAME)

1 - Class Period

Location: Kennedy HS

Credit: 10 units per year

Gain an understanding and practical experience in the creation of video productions using EFP (electronics field production), and television studio techniques. Students will develop basic skills in camera techniques, audio production, directing, non-linear editing, script writing, lighting, set design and a variety of other skills required to create a finished video production. The course includes the history of video production through changes in equipment and production techniques. Students will work in a variety of production positions over the course of the year on group projects. Interested students may also create a video project to enter in festivals.

Computer Animation (TANB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 10:15 am - 12:15 pm; 12:45 pm - 2:45 pm

Credit: 20 units per year

Students will create video, web and television/film animation in 2D and 3D. Adobe After Effects, Macromedia Flash and Autodesk's Maya are all employed emphasizing timelines, key frames, layers and interactivity. Class projects include the creation of virtual video backgrounds and titling banners, animated elements and special effects for video, e-cards, web animations and 3D movies.

Computer Graphic Design 1 (TAGB)

Computer Graphic Design 2 (TAGF)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 10:15 am - 12:15 pm; 12:45 pm - 2:45 pm

Credit: 20 units per year

Learn how to layout newsletters, articles, mailers and posters with Adobe InDesign. Retouch photographs and create original artwork for print, web, animation and video using Illustrator and Photoshop. Design animated presentations with Flash. Create portraits, paintings and posters with school supplied writing tablets, flatbed scanners, color laser printers and large-image laser plotters.

Digital Photography 1 (TACP)

Digital Photography 2 (TALP)

1- Class period

Location: Kennedy

Credit: 10 units per year

This course is designed to provide students with a solid grounding in digital photographic essentials focusing on the power of contemporary software tools such as Adobe Photoshop. Students will have hands-on access to the latest photographic equipment. Instruction covers digital photography essentials, lighting, field issues, camera operation, software interfaces, and color management. Students may enroll in a second year for more advanced instruction.

Digital Sound Design (TAKB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 10:15 am - 12:15 pm, 12:45 pm - 2:45 pm

Credit: 20 units per year

Learn how to use microphones, audio mixers, sound systems and Digital Audio Recording tools. Students will create original recordings and sound effects using school supplied synthesizers and software like Fruity Loops, Adobe Audition and Cakewalk Sonar. Live recording utilizing student and in-house talent is emphasized and students are encouraged to create their own work for projects that will include Digital Storytelling, Radio Theater and Sound Design for animation and video.

DreamWeaver Web & Multimedia Building (TCDB)

2 - Hour Class

Location: ROP Center - 12:45 pm - 2:45 pm

Credit: 20 units per year

This is a type of “tract” course where students must take all four quarters in order to fully benefit from it. The first quarter starts with the fundamentals of learning how to use DreamWeaver by designing a basic website using text and graphics. The course includes an introduction to CSS (cascading style sheets) for layout. During the second quarter, students will create a CSS (cascading style sheets) layout using DreamWeaver. Learn how to create and link to external CSS. Learn how to make site compatible with the major browsers. There will be an introduction to PhotoShop with an emphasis on creating and optimizing graphics for the web. In the third quarter, there will be an introduction to creating Flash for the web and multimedia design. Focus will be on how to create optimized, web ready animations such as banners, etc. Students will learn how to create stand-alone animations (including video) that can be integrated into any media without needing a special player. Will learn how to import and update native PhotoShop files. In the fourth and last quarter, students will combine all the files from PhotoShop, DreamWeaver and Flash. Focus will be on importing, exporting files from all applications and solve various security problems triggered by browsers.

News TV Broadcast Technology (TABB)

2 - Hour Class

Location: ROP Center - Mon. - Thurs. 3:00 pm - 5:00 pm

Credit: 15 units per year

This course prepares students for careers in live television production. Students produce, direct, edit, and anchor a variety of shows in the campus studio providing valuable experience in the television industry. Instruction includes technical engineering, script writing, and public speaking. Students receive general knowledge for entry-level positions in the television industry. Following successful completion of the first year, students may enroll in a second year for more advanced opportunities.

This class receives credit at Ohlone College.

Web Design Technology (TCWA)

1 - Class Period

Location: Kennedy HS

Credit: 10 units per year

Explore web design as you incorporate graphics, sound, movies, and animation. Students will learn all phases of the design process from the idea state, through planning, production and testing while creating original web sites. Learn design concepts for content and layout as you design commercial web pages.

Building Trades and Construction Technology

Construction Technology 1 (TICB)

Construction Technology 2 (TICF)

1-Class Period

Location: ROP Center - 9:35 am - 11:00 am (Kennedy Block 2)

Credit: 15 - 20 units per year

Construction is one of the largest industries in the world requiring approximately 250,000 skilled workers to complete new construction projects each year. Skilled workers are paid well, earning substantially higher wages than many other industries. Students train for jobs in construction, home remodeling and roofing. Actual on-the-job experience will be provided through hands-on projects. Rules of safety are stressed and students are expected to meet industry standards required in this area. Students will build projects using power tools and the latest in construction technology. Cooperative paid work experience may be available. Students successfully completing the first year may enroll in a second year for more advanced opportunities. ***This course receives math credit.***

Home Technology Integration (TDEB)

2 - Hour Class

Location: ROP Center - Mon. - Thurs. 3:00 pm - 5:00 pm

Credit: 15 units per year

This new course introduces the principles and practices of installing and maintaining home technology. Students are exposed to home lighting controls, computer networking, home security, home entertainment systems including video, data, and voice, heating ventilation and air conditioning control systems, and home systems integration.

Education, Child Development and Family Services

Developmental Psychology / Careers in Education (TPCB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am

Credit: 20 units per year

This course is designed for students interested in working with children as a profession as well as gaining knowledge of child growth and development. Students work with children at various sites such as pre-schools, day care centers, elementary schools, and schools for children with special needs. (Students must provide their own transportation to and from their on-the-job training sites.) Students will develop skills in leadership, supervision of children, equipment operations, and curriculum development. A TB test is required and students must be at least 16 years old. ***This course receives college credit with Ohlone College.***

Engineering and Design Technology

Computer Aided Design (TIKB)

2 - Hour Class

Location: ROP Center - Mon. - Thurs. 3:00 pm - 5:00 pm

Credit: 15 units per year

This course covers key concepts of vector graphics, descriptive geometry, geometric construction, and an introduction to 3D Modeling. At the end of the class, students will create an impressive computerized slideshow of the drawings they have worked on during the course. Students will use AutoCAD - the software for those interested in pursuing a career in design or engineering.

Introduction to Engineering (TINB)

1 – Class Period

Location: Kennedy

ROP Center – 9:35-11:00 (Kennedy Block 2)

Credit: 20 units per year

This is an overview of engineering for students interested in becoming an engineer. The course explores the design process and the basics of mechanical, civil, and electrical engineering fields. Hands-on lessons include a “shake table” to analyze effect of earthquakes on structures, model bridges for load /stress testing, and more. Students will learn sketching, the design process, drafting, engineering math, applied physics, surveying, applied geometry, trigonometry, structural systems, electronic symbols, electronic schematics, and mechanical design. If you’re considering a career in engineering, building, or construction, this course is a must!

Fashion and Interior Design

Fashion Merchandising 1 (TMFB)

Fashion Merchandising 2 (TMFF)

1 – Class Period

Location: ROP Center -; 9:35 am - 11:00 am (Kennedy Block 2)

Credit: 20 - 40 units per year

The Fashion Merchandising program is a three-part instructional program designed to prepare students for careers in the fashion industry. The class uses internships and DECA (an association of marketing students) to supplement classroom instruction. Students in the program develop the skills necessary for success in their future careers of buying, clothing design, management, promotion, and manufacturing. Students must be available to train with local retailers, earning up to 40 units of credit per year. Students have an opportunity to test their creative skills through the production of an annual fashion show. After successful completion of the first year, students may enroll in Fashion Merchandising 2. ***Students can earn 6 units of credit by attending FIDM after graduating from high school.***

Interior Design 1 (TMIB)

Interior Design 2 (TMIF)

1 – Class Period

Location: ROP Center 9:35- 11:00 am (Kennedy Block 2)

Credit: 20 units per year

This course prepares students in various fields of interior design. Students will analyze and create interiors using basic principles and elements of design: space planning, color, textiles, furniture and lighting. The course provides students with the skills required to continue their education in the field of interior design at the college level. Students will develop drafting skills related to architectural interiors. Internships may be available for advanced students. After successful completion of the first year, students may enroll in Interior Design 2.

Cosmetology (TXHC)

3 - Hour Class, plus Saturdays

Location: Fremont Beauty College

Credit: 30 units per year

Students gain the practical and theoretical skills required to pass the California Cosmetology Examination. In addition to hair styling and care of skin and nails, instruction includes business practices and procedures used in beauty salons. Students will learn how to complete job applications and conduct interviews with prospective employers. Saturday classes are required. Students must provide their own transportation. ***12th grade students only accepted into program. Call 797-7318 to request an orientation with Ms. Vieira before being accepted into the Fremont Beauty College.***

Manicurist (TXNC)

3 - Hour Class, plus Saturdays

Location: Fremont Beauty College

Credit: 30 units per year

Students will gain practical and theoretical skills needed to pass the California Manicurist Examination. This course includes instruction in manicures, pedicures, acrylic nails, wraps, floaters and extensions, as well as nail painting and decorating. Students will learn business practices used in salon management. **Saturday classes are required. Students must provide their own transportation. 12th grade students only accepted into program**

Health Science and Medical Technology

Medical Assisting (THAB)

1 – Class Period

Location: ROP Center - 9:35 am - 11:00 am (Kennedy Block 2)

This course instructs students in the skills required to obtain entry-level medical assistant positions in doctors' offices and other health care facilities. Students learn psychology and human behavior, medical terminology, anatomy and physiology, medical law and ethics, secretarial and clinical assisting skills. During the second semester, students will be placed in a health care facility for on-the-job training. Professional work habits and ethics are emphasized. Proof of current immunizations and a negative TB test are required and the Hepatitis B vaccination is highly recommended. Readiness for employment is stressed. A uniform is required for on-the-job training and students must provide their own transportation to and from the work site. ***This course receives college credit at Chabot College.***

Nursing Assistant (THNB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am and 12:45 pm – 2:45 pm

Credit: 20 units per year

(Students successfully completing this course will be eligible to test for the Nurse Assistant Certification issued by the State Department of Health Services.) Classroom instruction includes professional ethics, medical terminology, CPR, first aid, personal patient care, food and nutrition, safety principles, infection control, body mechanics and vital signs. On-the-job training is provided in local community hospitals and skilled nursing facilities. Prior to patient contact, students will be required to provide the following: 1) Health history and physical exam taken within the last year, and 2) Current TB screening (PPD) or chest x-ray taken within the last three months, and 3) Fingerprints (required by the State Department of Health Services). The instructor will provide required forms to you. *Students need to be at least 16 years old.*

Pharmacy Clerk 1, 2 (THYB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm

Credit: 20 units per year

This course provides the necessary background for an entry-level career in the pharmaceutical field. Pharmacy clerks are responsible for ordering and receiving stock and supplies, labeling drugs and chemicals, delivering drugs, cleaning equipment and work areas, sterilizing containers and other duties under the direction of the pharmacist. Interested students must have finished Pre-Algebra and Science courses and only high school seniors will be considered. To obtain Pharmacy Technician State Board License upon completion of the program, the student must:

- Must have a B average or above
- 360 hours of lecture and laboratory (covers 2 semester)
- 180 hours of externship (summer session)

Sports Therapy 1 (THSB)

2 - Hour Class

Location: ROP Center - 12:45 pm - 2:45 pm

Credit: 20 units per year

Through classroom instruction and on-the-job training, students will gain skills, knowledge, and experience in the area of physical fitness, physical therapy, and athletic training. The course focuses on anatomy and physiology of the musculoskeletal system, the prevention, assessment, treatment and rehabilitation of athletic injuries. Additionally, students learn emergency procedures including First Aid and CPR, nutrition, sports psychology, theory of exercise, use of physical fitness equipment and safety factors. Students must provide their own transportation during 2nd semester to there on-the job-training (community classroom) site. ***2+2 articulation with Ohlone College may also be available.***

Sports Therapy 2 (THSF)

2 - Hour Class

Location: ROP Center - 12:45 pm - 2:45 pm

Credit: 20 units per year

(Completion of Sports Therapy I with a grade of “C” or better required.) This course will allow students to explore more in depth the concepts introduced in Sports therapy I. Topics include advanced anatomy of the musculoskeletal system, advanced evaluation techniques, and therapeutic modalities. Additionally, students will learn how to design rehabilitation, fitness and nutritional programs for athletes. CPR training is included. Second semester students will receive on-the-job training at sports medicine facilities in the community. Students must provide their own transportation to the on-the-job training site.

Information Technology

Computer Networking / CCNA Certification (TCCB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm

Credit: 20 units per year

This course offers a hands-on, career-oriented approach to learning networking that emphasizes practical experience. Students will complete easy-to-follow labs to help learn the general theory needed to apply their skills at building and implementing networks. The Cisco Network Academy, in its tenth year, has totally revamped its curriculum to meet the needs of today's IT users. The new curriculum focuses directly on everyday experiences with networks and covers key concepts according to the types of practical environments students may encounter; ranging from small office or home office (SOHO) networking to more complex enterprise and theoretical networking models. The CCNA class is for students who are considering further education in IT and also helps students prepare for entry level IT careers by teaching applied skills. Strong PC skills are recommended for student enrolling in this course. Students also will gain excellent preparation for CCNA certification. The CCNA certification (Cisco Certified Network Associate) indicates a foundation in and apprentice knowledge of networking. ***The course is fully articulated with Ohlone College and accepted for credit at CSU.***

Computer Service Repair 1 (TCRB)

Computer Service Repair 2 (TCRF)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm

Credit: 20 units per year

Students will install hardware modules including multimedia kits, modems, and hard disk drives and will learn to upgrade and customize computer systems. Lab projects include testing, troubleshooting, and repairing of microcomputers. This course also prepares students for the A+ Certification examination. After successfully completing the first year, students may enroll in a second year for more advanced opportunities.

Computer Tech / Operations (TZHA)

1 - Class Period

Location: Kennedy HS

Credit: 10 units per year

This program is designed to improve office and business skills and to teach the latest skills and file management techniques used in offices today. A focus of the class is developing proficiency with the Microsoft Office suite. Appropriate software is used to write and edit letters, make labels, file lists, format business forms, create exciting PowerPoint presentations, create Excel spreadsheets, and manage databases.

Manufacturing and Product Development

Computerized Manufacturing Technology / CNC (TIMB)

1 – Class Period

Location: ROP Center - 9:35 am - 11:00 am (Kennedy Block 2)

Credit: 20 units per year

(A grade of “C” or higher in algebra is recommended for enrollment in this class.) Students will use computers to design parts and to control machine tools such as Computer Numeric Control (CNC) mills and lathes. Emphasis will be on the latest manufacturing methods using CAD/CAM, precision measurement and blueprint reading. Students will receive hands-on training in welding processes and sheet metal fabrication, emphasizing the latest industrial techniques including arc, tig and mig welding, welding symbols, blueprint reading, oxyacetylene welding, basic metallurgy and weld testing. Students receive the background and skills required for careers as engineering technicians, precision machinists, quality inspectors, CAM operators, welders and computer integrated manufacturing technicians. (Cooperative paid work experience may be available.) After successfully completing the first year, students may enroll in a second year for more advanced opportunities. ***This course is one of the recommended courses in the Engineering Technology Program at Ohlone College.***

Welding / Metal Fabrication (TJAB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm

Credit: 20 units per year

This is a “hands-on” course for students interested in employment as welders, fabricators, sheet metal workers, machine operators in light industry. Students will develop skills in the construction of prototypes and mechanical components used in light industry. The course covers the skills for print reading, layout, fitting, welding and fabrication. Through class projects, students will apply all techniques learned in the design and fabrication process. The course includes workplace skills training and prepares students for internship opportunities and employment.

Pre-requisite for Welding 2

Welding / Layout Mechanic (TJBB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm

Credit: 20 units per year

(Recommend students take Welding/Metal Fabrication first or have teacher approval.) This course prepares students for beginning positions as layout mechanics in heavy industry (the building of bridges, buildings and large industrial machines). Students will be introduced to ANSI-standard Print Reading, Layout, Fitting, and welding techniques. Welding technologies used include metal-inert gas (MIG), tungsten-inert gas (TIG), and stick-electro arc welding. Instruction includes workplace skills training and the preparation for internship opportunities and employment in the welding field.

Must take Welding 1 as pre-requisite.

Marketing, Sales and Service

Marketing 1 / DECA (TMMA)

Marketing 2 / DECA (TMME)

1 - Class Period

Location: Kennedy HS,

Credit: 10 - 30 units per year

Students completing the Marketing Program will have developed the skills for an entry-level position in the marketing field or for further education leading to a career in business. Through classroom instruction, students will be able to apply ten-core competencies of marketing to actual job situations and will acquire the knowledge to make better-informed consumer purchases. Through DECA (an association of marketing students), members will gain skills to enhance their self-confidence and business opportunities by participating in career development conferences. They will acquire leadership, computer, and communication skills to assist them in being responsible young adults in their community and in the workforce. Students who are employed by local merchants can earn up to 20 units of credit per year. Students successfully completing the first year may enroll in Marketing 2. ***This course receives math credit and also provides credit at Ohlone College.***

Sports and Entertainment Marketing 1, 2 (TMRA)

1 - Class Period

Location: Kennedy HS

Credit: 10 - 20 units per year

This course is designed as an introduction to general marketing concepts and career opportunities available in the field of sports and entertainment. Students will have opportunities to qualify for internships at various related sporting and entertainment venues. Students may take a second year for more advanced instruction

Public Services

Emergency Medical Technician/EMT (TPBB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm

Credit: 20 units per year

This course is designed as an entry-level course for students interested in the Emergency Medical Service (EMS) profession. Course includes EMT roles and responsibilities, patient assessment, airway management, medical emergencies, anatomy and physiology, documentation, lifting and moving, and communications. Practical lab exercises and demonstrations will be utilized to prepare students for further study and advancement. It is intended that upon successful completion of this course, students will be qualified to enroll in further EMT programs. Adult prerequisites: high school graduate or GED equivalency, 18 years of age. ***High School prerequisites: Seniors only and must be 18 years of age at time of course completion.***

Fire Science (TPAB)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm

Credit: 20 units per year

This course is designed to give students interested in a career in Fire Service an opportunity to identify those qualifications and requirements for the position of Firefighter. The focus is on a variety of fire service related subjects including the history of fire service, fire department organizations, fire behavior, firefighting tactics and strategies, hazardous materials, fire safety, tools and equipment, fire prevention, fire protection systems, codes and standards, fire service occupations, and related subjects. Emphasized throughout this 360-hour course are the importance of personal integrity, self-discipline, goal-setting, effective oral and written communication skills, interpersonal relationships, physical fitness and health, strong academic skills and effective problem solving skills. Instruction includes pump operation, auto extraction, fire control, fire and arson detection, firefighter survival, hazardous materials and emergency equipment operation.

Forensic Science / Crime Scene Investigation (TPFB)

1 – Class Period

Location: ROP Center - 9:35 am - 11:00 am (Kennedy Block 2)

Credit: 20 units per year

Forensic Science is a fast-paced, rigorous, multi-disciplinary college-level course integrating concepts and state standards from Biology, Chemistry, Physics and Earth Sciences. Topics covered include crime scene analysis, physical/chemical analysis, microscopy, chromatography, hair/fiber/glass analysis, fingerprint comparison, comparative analysis, document analysis, firearms, drugs/toxicology, entomology, anthropology, blood (serology) and DNA analysis. Guest speakers from a wide range of field add to the class by providing real applications in the field of forensic science. (Students may enroll in a second year for more advanced instruction.)

Transportation Technology

Auto Body / Major Collision Repair 1 (TIRB)

Auto Body / Major Collision Repair 2 (TIRF)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm; 3:00 pm - 5:00 pm

Credit: 20 units per year

Students will learn auto body repair, body panel replacements, collision repair, as well as metal inert gas (MIG) welding. Curriculum includes collision repair, correcting rust problems, and some customizing. Students successfully completing the first year may enroll in a second year for more advanced opportunities.

Auto Body Painting and Refinishing 1 (TIBB)

Auto Body Painting and Refinishing 2 (TIBF)

1 – Class Period

Location: ROP Center - 9:35 am - 11:00 am (Kennedy Block 2)

Credit: 20 units per year

Students will learn to identify and utilize materials and tools efficiently. Instruction includes light bodywork and metal inert gas (MIG) welding with an emphasis on original equipment manufacturer (OEM) finishes as well as custom painting. Students successfully completing the first year may enroll in a second year for more advanced instruction.

Automotive Technology 1 / NATEF & AYES Certified (TITB)

Automotive Technology 2 / NATEF & AYES Certified (TITF)

2 - Hour Class

Location: ROP Center - 7:20 am - 9:20 am; 12:45 pm - 2:45 pm; 3:00 pm - 5:00 pm

Credit: 20 units per year

The course prepares students for entry-level positions in the automotive technology industry. Instruction includes tool usage, understanding technical manuals and diagnosing and repairing basic automotive systems. The course is certified by NATEF (National Automotive Technicians Education Foundation) and AYES (Automotive Youth Educational System). An emphasis of the course is on brakes, steering and suspension, electrical systems, and engine performance. Students successfully completing the first year may enroll in a second year for more advanced opportunities and industry certification. (Students are required to purchase shop overalls.)

Hot Rod Engineering/Fabrication (TIVB)

1 – Class Period

Location: ROP Center – 9:35 – 11:00 (Kennedy Block 2)

Credit: 20 units per year

This is a “hands-on” introductory course for students interested in the engineering and fabrication of high-performance vehicles. This basic engineering class explores the design process, engineering sketching, basic math, mechanical engineering and manufacturing and fabrication process used to build high performance machines. Student will receive instruction in workplace skills training and preparation for internship and employment opportunities.

Recommend students take Weld 1/ Metal Fabrication first or have teacher approval.