



Mission Valley ROP

Career Technical Training Center

2010-2011 High School Courses



Courses at American High School

2-D Animation (TANAP)

Students learn the creative process for producing 2-dimensional digital animations. Students write short stories, draw sketches and storyboards; develop original characters, backgrounds and objects on two-dimensional software, to finally produce short animations. **UC "f" credit.**

Business Ownership and Management (TMSA)

Basic principles in owning, running, or managing a small business; create a business plan, use business math and accounting principles; understand business systems/functions, advertising, marketing, merchandising and technology. Internships may qualify for up to 20 additional credits. **FUSD Math credit.**

Computer Support Specialist 1 & 2 (TDFA/E)

Two-year course sequence prepares students for industry certifications (IC3 and CompTIA A+), entry level employment, and further education. Curriculum is Cisco Systems IT Essentials. **Ohlone and Mission College credit.**

Culinary Arts 1, 2 (TIYA /TIYE)

Study California Restaurant Association and American Culinary Federation standards to prepare students for entry level positions; Serve-Safe, basic culinary, knife skills, basic cooking techniques, meat classification, grilling, soups, appetizers, and Hors d'oeuvres, Garde-Manager skills, pantry skills, and plate presentation. **Mission College credit.**

Digital Photography 2, 3 (TACEP/TALAP)

Study of digital photography encourages conceptual thinking and creativity. Explore hands on digital photography fundamentals to include: Adobe Photoshop, lighting, set design, studio configuration, camera operation, software interfaces, color management, photo editing, and compositing. Lab donation. **UC "f" credit.**

Law Enforcement/Homeland Security (TPJA)

Students learn legal vocabulary, search and seizure, laws of arrest, judicial systems, specialized police practices and improved written and oral communication. Explore careers within the criminal justice system and job search procedures; field trips to local courts, law enforcement agencies. **Ohlone and Chabot College credit.**

Marketing 1, 2 DECA (TMMA, TMME)

Preparation for entry-level marketing positions. DECA student organization participation encouraged. Internships may qualify for up to 20 additional credits. **FUSD Math credit.**

Network Technician 1 (TDGA)

Curriculum provided is CCNA Discovery I & II preparing students with the skills needed to obtain the Cisco Certified Entry-level Network Technician Certification (CCENT). Students gain practical experience by providing desktop technical support on campus during school hours. **Ohlone and Mission College credit.**

Online Business (TMJA)

Learn how to buy and sell online; make money while learning how to setup and run an e-commerce business; inventory control, shipping, receiving, marketing, collections, accounts receivable, accounts payable, customer service, pricing. **FUSD Math credit.**



Mission Valley ROP

Career Technical Training Center

2010-2011 High School Courses



Courses at Irvington High School

Anatomy and Physiology (THZAP)

Students will gain a strong foundation in anatomy and physiology needed in the health care profession. Instruction includes study of body systems and basic medical terminology. **UC "g" credit.**

Computer Support Specialist 1, 2 (TCFA/E)

Two-year course sequence prepares students for industry certifications (IC3 and CompTIA A+), entry level employment, and further education. Curriculum is Cisco Systems IT Essentials. **Ohlone and Mission College credit.**

Digital Drawing (TAXAP)

Students increase their drawing talents, observation skills and hand-eye coordination to master the techniques of the computer drawing program, Adobe Illustrator 9.0. **UC "f" credit.**

Digital Graphic Arts (TCSAP)

Students learn the fundamentals of digital art and graphic design. Students produce projects that incorporate original graphics, illustrations, photos, and type, using industry standards vector and raster art software. **UC "f" credit.**

Digital Imaging (TAYAP)

Students use digital tools and technologies as art and design mediums to visually articulate thoughts, ideas, and experiences. Technologies include digital: painting, drawing, illustrating and graphic design. **UC "f" credit.**

Digital Photography 1, 2, 3 (TACAP/ TACEP/TALAP)

Study of digital photography encourages conceptual thinking and creativity. Explore hands on digital photography fundamentals to include: Adobe Photoshop, lighting, set design, studio configuration, camera operation, software interfaces, color management, photo editing, and compositing. Lab donation. **UC "f" credit.**

Digital Video Arts Production 1 (TADAP)

Video production including camera work, editing, DVD authoring and the production process of short fiction, documentary, commercial and "live TV"; analyze film scenes and sequences, develop production management skills. (Recommend prior class in fine arts, computer applications or digital graphics.) Lab donation. **UC "f" credit.**

Medical and Health Careers (THOA)

Exploration for career pathways in health, medicine, life sciences, and biotechnology; health care systems, health careers, medical terminology, medical ethics and law, human growth, development, nutrition, and infection control.

Network Technician 1 (TDGA)

Curriculum provided is CCNA Discovery I & II preparing students with the skills needed to obtain the Cisco Certified Entry-level Network Technician Certification (CCENT). Students gain practical experience by providing desktop technical support on campus during school hours. **Ohlone and Mission College credit.**

Personal Fitness Trainer 1&2 SHAPE PE - (THQA/THQE)

Prepare students with entry-level employment skills in the areas of fitness and exercise to include basic anatomy, physiology, nutrition and injury prevention.

SHAPE Core (THRA)

Introductory one-semester, five-unit course into career options in the health care field.

SHAPE Seminar (THUA)

15-unit, junior-level class for the SHAPE career pathway. Students will learn the skills and education needed for various careers in the health and fitness industry through hands-on activities including job shadows.

Sports Psychology (THDA)

This course provides a practical approach to Sports Psychology. The course details the athlete's and athletic team's goal of obtaining the Optimal Performance Zone and how motivation and anxiety in practice and competition can deviate the athlete from their peak performance.

Sports Therapy 1 & 2 (THSA/THSE)

This is an entry-level course focusing on the area of sports medicine. Students will gain valuable hands-on experience by working with Irvington sports teams as student athletic trainers. **Ohlone College credit.**



Mission Valley ROP

Career Technical Training Center

2010-2011 High School Courses



Courses at Kennedy High School

Some classes available only in blocks indicated on the JFK Bell Schedule

Anatomy and Physiology (THZBP) Block 2

Students will gain a strong foundation in anatomy and physiology needed in the health care profession through guest speakers, field trips and labs. Lab skills include study of body systems and basic medical terminology.

UC "g" credit.

Auto Body Painting and Refinishing 1 & 2 (TIBB/F) Block 2

Body work, MIG welding, original equipment manufacturer (OEM) finishes, custom painting.

Construction Technology 1 & 2 (TICB/F) Block 2

Train for entry level employment in construction, home remodeling, roofing, electrical, plumbing; power tool use and safety. Introduction to "green" construction techniques/materials including solar farm construction and wind power generation. **FUSD Math credit.**

Culinary Arts 1 & 2 (TIYA/E)

Study California Restaurant Association and American Culinary Federation standards to prepare students for entry level positions; Serve-Safe, basic culinary, knife skills, basic cooking techniques, meat classification, grilling, soups, appetizers, and Hors d'oeuvres, Garde-Manager skills, pantry skills, and plate presentation. **Mission College credit.**

Digital Photography 1, 2 (TACAP/TACEP)

Study of digital photography encourages conceptual thinking and creativity. Students explore hands on digital photography fundamentals to include: Adobe Photoshop, lighting, set design, studio configuration, camera operation, software interfaces, color management, photo editing, and compositing. Lab donation. **UC "f" credit.**

Digital Video Arts Production 1 & 2 (TADAP/TADEP) Blocks 1 & 2

Video production including camera work, editing, DVD authoring and the production process of short fiction, documentary, commercial and "live TV"; analyze film scenes and sequences, develop production management skills. (Recommend prior class in fine arts, computer applications or digital graphics.) Lab donation.

UC "f" credit.

Forensic Science 1/ Interdisciplinary Forensic Sciences (TPFAP) Block 2 & 3

Crime scene analysis, hair/fiber/glass analysis, fingerprint comparison, firearms, drugs/toxicology, entomology, blood, DNA analysis, physical/chemical analysis, microscopy, chromatography. **UC "g" credit.**

Forensic Science 2/ Forensic Biology (TPFEP) Block 2

Analysis of soil, water, and serology (blood typing, stain and patterns) toxicological studies of poisons and narcotics with extensive field work on trace evidence identification and collection. Chemical processing of latent prints electrophoresis and PCT production of DNA. **UC "g" credit.**

Introduction to Hospitality (TMTA)

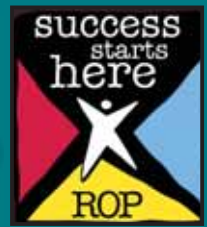
Exploration of careers in several related industries including hospitality, culinary arts, travel, tourism, recreation and leisure industries. Introductory course for Culinary Arts.



Mission Valley ROP

Career Technical Training Center

2010-2011 High School Courses



Courses at Logan High School

2-D Animation (TANAP)

Students learn the creative process for producing 2-dimensional digital animations. Students write short stories, draw sketches and storyboards; develop original characters, backgrounds and objects on two-dimensional software, to finally produce short animations. Lab donation. **UC "f" credit.**

Auto Technology 1 (TITA) 1 hour, Auto Tech 2 (TITF) 2 hr

General auto repair, brakes, steering and suspension, electrical systems, engine performance. Students receive hands on experience in auto shop operations, tool usage, safety procedures, equipment operation and customer service. **Chabot College credit.**

Auto Tech/Basic Car Care (TJLA)

This one semester course provides pre-entry level training in automotive service/maintenance and is designed to be the first course for students entering transportation technology career pathways.

Culinary Arts 1 (TIYA), Culinary Arts 2 (TIYF) 2 hr

Study California Restaurant Association and American Culinary Federation standards to prepare students for entry level positions; Serve-Safe, basic culinary, knife skills, basic cooking techniques, meat classification, grilling, soups, appetizers, and Hors d'oeuvres, Garde-Manager skills, pantry skills, and plate presentation. **Mission College credit.**

Digital Graphic Arts (TCSAP)

Students learn the fundamentals of digital art and graphic design. Students produce projects that incorporate original graphics, illustrations, photos, and type, using industry standards vector and raster art software. **UC "f" credit.**

Digital Photography 1, 2 (TACAP/TACEP)

Study of digital photography encourages conceptual thinking and creativity. Explore hands on digital photography fundamentals to include: Adobe Photoshop, lighting, set design, studio configuration, camera operation, software interfaces, color management, photo editing, and compositing. Lab donation. **UC "f" credit.**

Digital Video Arts Production 1, 2- Electronic Media Production (EMP) (TADAP/TADEP)

Videoproduction including camera work, editing, DVD authoring and the production process of short fiction, documentary, commercial and "live TV"; analyze film scenes and sequences, develop production management skills. Interested students may also create a video project to enter in competition during the school year. Lab donation. **UC "f" credit.**

Introduction to Hospitality (TMTA)

Exploration of careers in several related industries including hospitality, culinary arts, travel, tourism, recreation and leisure industries. Introductory semester course for Culinary Arts.

Law Enforcement/Homeland Security (TPJA)

Students learn legal vocabulary, search and seizure, laws of arrest, judicial systems, specialized police practices and improved written and oral communication. Explore careers within the criminal justice system and job search procedures; field trips to local courts, law enforcement agencies. **Ohlone, Mission College credit.**

Medical and Health Careers (THOA)

Exploration for career pathways in health, medicine, life sciences, and biotechnology; health care systems, health careers, medical terminology, medical ethics and law, human growth, development, nutrition, and infection control.

Medical Occupations (THOB)

This course prepares students for entry-level employment in a variety of medical or health careers. Instruction includes professional ethics, medical terminology, infection control, vital signs, basic anatomy and physiology, CPR and special procedures. Internship at hospitals, doctor's offices, pharmacies, and clinics.

Nursing Assistant (THNB)

Career prep for Nursing/Health Care with personal patient care, systems review, safety principles, infection control, HIPAA, restorative care, body mechanics, nutrition and vital signs. Internship at skilled nursing facilities. Qualified students sit for state certification.



Mission Valley ROP

Career Technical Training Center

2010-2011 High School Courses



Courses at Mission San Jose High School

2-D Animation (TANAP)

Students learn the creative process for producing 2-dimensional digital animations. Students write short stories, draw sketches and storyboards; develop original characters, backgrounds and objects on two-dimensional software, to finally produce short animations. Lab Donation. **UC "f" credit.**

Biotechnology (THBAP)

This lab intensive course prepares students to attain hands on experience using state of the art biotechnology instrumentation and documentation emphasizing applications and use of Biotech instruments such as balances, pipettes, pH meters, microscopes, autoclave, and spectrophotometer. **UC "g" credit. Ohlone College credit.**

Digital Imaging (TAYAP)

Students use digital tools and technologies as art and design mediums to visually articulate thoughts, ideas, and experiences. Technologies include digital: painting, drawing, illustrating and graphic design. **UC "f" credit.**

Digital Photography 1, 2 (TACAP/TACEP)

Study of digital photography encourages conceptual thinking and creativity. Explore hands on digital photography fundamentals to include: Adobe Photoshop, lighting, set design, studio configuration, camera operation, software interfaces, color management, photo editing, and compositing. Digital camera needed. Lab donation. **UC "f" credit.**



Mission Valley ROP

Career Technical Training Center

2010-2011 High School Courses



Courses at Newark Memorial High School

Business Ownership and Management (TMSA)

Basic principles in owning, running, or managing a small business; create a business plan, use business math and accounting principles; understand business systems/functions, advertising, marketing, merchandising and technology. Internships may qualify for up to 20 additional credits. ***Ohlone, Mission, and Chabot College credit.***

Computer Tech / Operations (TZHA) Term 1 & 2 (90 day course)

Learn Microsoft Office suite, develop business skills, file management, and improve keyboarding skills. Write and edit letters, file lists, format business forms, create PowerPoint presentations and Excel spreadsheets.

Culinary Arts 1 & 2 (TIYA/TIYE)

Study California Restaurant Association and American Culinary Federation standards to prepare students for entry level positions; Serve-Safe, basic culinary, knife skills, basic cooking techniques, meat classification, grilling, soups, appetizers, and Hors d'oeuvres, Garde-Manager skills, pantry skills, and plate presentation. ***Mission College credit.***

Introduction to Hospitality (TMTA)

Exploration of careers in several related industries including hospitality, culinary arts, travel, tourism, recreation and leisure industries. Introductory course for Culinary Arts.

Marketing 1, 2 DECA (TMMA, TMME)

Preparation for entry-level marketing positions. DECA student organization participation encouraged. Internships may qualify for up to 20 additional credits. ***Ohlone, Mission, and Chabot College credit.***



Mission Valley ROP

Career Technical Training Center

2010-2011 High School Courses



Courses at ROP Center

Classes offered either 7:20-9:20 am or 12:45-2:45 pm, Mon-Fri (check for availability)

Auto Body Painting and Refinishing 1 & 2 (TIBB/F)

Body work, MIG welding, original equipment manufacturer (OEM) finishes, custom painting.

Biotechnology (THBBP)

This lab intensive course emphasizing applications and use of Biotech instruments such as balances, pipettes, pH meters, microscopes, autoclave, and spectrophotometer. Students will learn industry approved techniques like Chromatography, ELISA, PCR, Gel Electrophoresis, Yeast Fermentation and Biofuel production from Algae. Biotech company tours and seminars will take place throughout the course. **Ohlone College credit. UC "d" credit.**

Careers in Education 1 & 2 (TPCB/F)

Develop skills in leadership, supervision of children, equipment operations, and curriculum development. Internship required. **Ohlone, Chabot, Mission College credit.**

Computer Animation (TANB)

Create animation in 2D and 3D for web, TV and film. Create visual effects for video, movies, and TV. Collaborate with animators, videographers and sound designers and learn how real productions come together. Adobe After Effects, Adobe Flash, and Lightwave 3D. Lab donation.

Computer Graphic Design 1 & 2 (TAGB/F)

Learn how to create posters, original print, 2D & 3D animation, real time animation, retouch & manipulate photographs, game graphics, all created with cutting edge tools such as Adobe Photoshop CS4, Illustrator, 3DS Max, Unreal engine, large format printing scanning and more. Lab Donation. **Mission College Credit - Level 1.**

Construction Technology 1 & 2 (TICB/F)

Train for entry level employment in construction, home remodeling, roofing, electrical, plumbing; power tool use and safety. Introduction to "green" construction techniques/materials including solar farm construction and wind power generation. **FUSD Math credit.**

Digital Sound Design 1 & 2 (TAKB/F)

Learn microphones, synthesizers, audio mixers and sound systems. Create music sound effects, sound effects for video, animation and CDs using Digidesign Pro Tools, Cakewalk Sonar and Adobe Soundbooth. Lab donation.

Digital Video Arts 1 & 2 (TADBP/TADFP)

Video production including camera work, editing, DVD authoring and the production process of short fiction, documentary, commercial and "live TV"; analyze film scenes and sequences, develop production management skills. (Recommend prior class in fine arts, computer applications or digital graphics.) Lab donation. **UC "f" credit.**

Fire Science / First Responder - Juniors (TPAB)

Introductory course to fire service career: classroom and skills training, firefighting tactics/strategies, equipment operations, fire safety, hose and nozzle operations, and fire control. CPR certification and EMS First Responder certification available. Open to juniors only and sophomores with instructor approval.

Fire Science / EMT - Seniors (TPAF)

This course includes fire science training as well as classroom and skills training from San Francisco Paramedic Association in American Heart CPR certification and EMS First Responder certification. Preparation for EMT certification. Seniors only.

Fire Science /Driver Operator/EMT -Year 2 (TPHB)

Second year Fire Science students receive advanced training in fire engine cab and pumping operations, hose lays, hydraulics calculations, and maintenance of fire apparatus. Leadership skills for fire science employment are emphasized. Prerequisite: Fire Science/First Responder and a valid California driver's license.

Forensic Science 1/Interdisciplinary Forensic Sciences (TPEBP)

Hands-on experience in applied sciences: Biology, Chemistry, and Physics. Labs include: casting footwear impressions, dusting for fingerprints, identifying unknown substances, creating DNA profiles, crime scene to legal proceedings. **UC "g" credit.**

Forensic Science 2/Forensic Biology (TPEFP)

Analysis of soil, water, and serology (blood typing, stains and patterns), toxicological studies of poisons and narcotics with extensive field work on trace evidence identification and collection. Chemical processing of latent prints, electrophoresis and PCR production of DNA. **UC "g" credit.**

Medical Assisting (THAB)

Learn medical terminology, anatomy and physiology, medical law and ethics, secretarial and clinical assisting skills; internship at health care facility. **Chabot College credit.**

Nursing Assistant (THNB)

Career prep for Nursing/Health Care with personal patient care, systems review, safety principles, infection control, HIPAA, restorative care, body mechanics, nutrition and vital signs. Internship at skilled nursing facilities. Qualified students sit for state certification.

Pharmacy Clerk 1, 2 (THYB/F)

Career prep for entry level in pharmaceutical field; stocking and supplies, labeling drugs and chemicals, delivering drugs, sterilizing containers other duties under direction of pharmacist. Summer internship opportunity.

Sports Therapy 1 & 2 (THSB/F)

Fitness, physical therapy, athletic training; anatomy, physiology, musculoskeletal system, prevention, assessment, treatment, rehabilitation, first aid, CPR, nutrition. Internship required. **Ohlone College Credit.**

Veterinary Assistant (THVB)

Terminology, anatomy and physiology, pharmacology, laboratory techniques, animal restraint, veterinary nursing, grooming, front office skills and basic work skills. Internship required. **Foothill College credit.**



Mission Valley ROP

Career Technical Training Center

2010-2011 High School Courses



Courses at Washington High School

2-D Animation (TANAP)

Students will learn the creative process for producing 2-dimensional digital animations. Students will write short stories, draw sketches and storyboards. Students will develop original characters, backgrounds and objects on two-dimensional software, to finally produce short animations. **UC "f" credit.**

Auto Technology 1 One-Hour Course (TITA)

Auto Technology 2 Two-Hour Course (TIFE)

General auto repair, brakes, steering and suspension, electrical systems, engine performance. Students receive hands on experience in auto shop operations, tool usage, safety procedures, equipment operation and customer service. **Chabot College Credit.**

Auto Technology/Basic Car Care (TJLA)

This course provides pre-entry level training in automotive service/maintenance and is designed to be the first course for students entering transportation technology career pathways. Instruction covers the following areas: engine systems, electrical systems, tires and brakes, lubrication service, cooling systems, ignition and emission device service.

Web Design Technology (TCWA)

Introduction to web design, incorporating graphics, sound, movies, and animation. Students 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, design commercial web pages.

**Be the Star in Your Future
Success Starts Here!**

Mission Valley ROP

Mission Valley ROP offers courses in:

**Fire Science/ EMT
Biotechnology
Automotive Technology
Auto Body Painting
Construction Technology
Forensic Science
Computer Graphic Design
Video Production Arts
Digital Sound Design
Animation
Medical Health Careers
Sports Therapy
Culinary Arts
Veterinary Assistant
Careers in Education
and many more!**

**Talk to Your Counselor for Class
Registration Information**



Success Starts Here!

5019 Stevenson Blvd., Fremont
510-657-1865 • www.mvrop.org

