

SURG-216 4th Level to Surgical Tech Clinic 4 cr.
Students will be first assist scrubbing most cases with some done independently with a preceptor observing. The student will have 150 cases logged by the end of this course. Offered: Fall.

INDUSTRIAL TECHNOLOGY

TECH-110 Industrial Technology I 4 cr.
General study of concepts around which technology is based. Includes electromotive force, power, energy, and how they are used. Basic concepts of electricity, light, and heat, and how they are used in electronics. Covers many facets of technology. Offered: Fall.

THEATRE

THEA-110 Introduction to Theatre 3 cr.
Examines the aesthetic and practical nature of theatre by discovering, analyzing, and evaluating all aspects of the theatre experience. This includes history and criticism, playwriting, directing, acting, designing and producing. [NM Common Course Number THTR 1013, Area V: Humanities/Fine Arts Core] Prerequisites: Completion of RDNG-050 and ENGL-050 or appropriate Reading and English Accuplacer scores. Offered: Fall & Spring.

THEA-111 Acting I 3 cr.
Introduces students to basic acting concepts, terminology, and methodology through voice and movement, theatre games, improvisation, text/character analysis and performance. Offered: Fall & Spring.

THEA-112 Acting II 3 cr.
Delves further into the dynamics of performance learned in Acting I. Through exploration of techniques and methodologies of various theatre innovators, students will complete analysis, rehearsal, and performance of scenes from contemporary plays. Prerequisites: THEA-111 or permission of instructor. Offered: Spring.

THEA-115 Basic Stage Combat 2 cr.
Learn basic hand-to-hand and sword fighting techniques for the stage. They will explore the elements necessary for safe and believable fighting on stage. Offered: Fall, odd-numbered years.

THEA-120 Introduction to Film 3 cr.
Surveys and takes a critical approach to significant films, film styles and genres, and film directors from the advent of the moving image to the present. Prerequisites: Completion of ENGL-095 and RDNG-095 or appropriate English and Reading Accuplacer scores. Offered: Fall, even-numbered years.

THEA-125 Musical Theatre Performance 3 cr.
Learn the skills necessary in approaching a role in a musical theatre production including acting, singing, and dancing necessary in creating a character. Prerequisites: THEA-111 or permission of instructor. Offered: Fall, odd-numbered years.

THEA-140 Intro to Costuming 3 cr.
Learn basic techniques of costume construction including sewing and craft applications for building costumes. Students will work on costumes and/or on a running crew for the fall production. Offered: Fall, even-numbered years.

THEA-220 Theatre Practicum 1 cr. TO 2 cr.
Students will participate in productions, either in acting or technical work. This course may be repeated for a total of 4 credits toward graduation. Offered: Fall & Spring.

THEA-230 Directing 3 cr.
Play analysis, interpretation, visual composition, and actor coaching for the beginning director. Students will direct several scenes, as well as a one act play. Prerequisites: THEA-111 permission of instructor. Offered: Spring, odd-numbered years.

THEA-240 Creative Dramatics 3 cr.
Explore techniques for developing creativity and original dramatizations through improvisation and drama activities for all age groups. Emphasis is on using creative drama as a development tool with children and youth in educational and recreational settings. Offered: Summer.

THEA-250 Intro to Stagecraft 4 cr.
Learn basic techniques of set construction for the stage, including building scenery and properties. Students will work on construction and/or on a running crew for the spring production. Offered: Spring, even-numbered years.

THEA-260 Intro to Theatre Makeup 3 cr.
Learn basic techniques of theatre makeup. Students will explore applications for various stylizations including period, fantasy, and special effects. This may include practice in productions during the semester. Offered: Fall, odd-numbered years.

THEA-270 Intro to Theatre Lighting 4 cr.
Learn basic techniques of theatre lighting for the stage with an emphasis on instrumentation and lighting control for various theatre applications. Students will work on light installation and/or a running crew for the fall production. Offered: Fall, even-numbered years.

THEA-275 Intro to Stage Management 3 cr.
Learn the functions, duties, and responsibilities of the stage manager in rehearsal and performance. Students will assume the role of a stage manager for the spring productions. Offered: Spring, odd-numbered years.

THEA-288 Theatre Capstone 4 cr.
This course represents a culmination of skills and knowledge learned through the theatre degree and is the final step in preparing students for admission to a four-year college or a career in theatre. Students will assemble a resume and portfolio and execute a capstone project in their area of emphasis. Prerequisites: THEA-110, THEA-111, THEA-140, THEA-220, THEA-230, THEA-250, THEA-260, THEA-270, THEA-275. Offered: Spring.

TOYOTA TECHNICAL EDUCATION NETWORK

TTEN-110 Shop Fundamentals & Safety 1 cr.
This course will orient the student to shop operations, use of service manuals, pay structures, tools, warranties, and customer relations. Shop safety will be strongly emphasized as well as employee/employer relations. Corequisites: TTEN-120. Offered: Fall.

- TTEN-120 Electrical & Ignition System 7 cr.**
A study of the electrical and electronic systems found in the automotive field. Emphasis is on basic circuitry, starting systems, charging systems, ignition systems, diagnosis and servicing the electrical components on current Toyota vehicles. Corequisites: TTEN-110. Offered: Fall.
- TTEN-125 Toyota Hybrid Technology 3 cr.**
This course will explain and demonstrate theory and operation of key Toyota hybrid vehicle systems and components. Knowledge retention and subject understanding will be enhanced by inter active classroom components whenever possible. Procedures for handling high voltage batteries will be covered. Personal safety will be emphasized. Corequisites: TTEN-120. Offered: Fall.
- TTEN-130 Fuel & Emission Systems 4 cr.**
A study of the fuel and emission control systems used on current Toyota vehicles. Students will learn to use the exhaust gas analyzer, oscilloscope, and other special test equipment. Prerequisites: TTEN-120. Corequisites: TTEN-140. Offered: Spring.
- TTEN-135 Toyota Vehicle Networks 3 cr.**
This course will explore the complex, on-board computer networks found on modern Toyota vehicles. The CAN net work will be emphasized as will the proper techniques for isolating, diagnosing and repairing complex automotive computer networks. Safety will be emphasized. Prerequisites: TTEN-120, minimum grade C. Corequisites: TTEN-140. Offered: Spring.
- TTEN-140 Driveability 4 cr.**
A systematic troubleshooting method for Toyota fuel, electrical, and electronic systems. Use of tools and equipment needed for proper diagnosis emphasized. Corequisites: TTEN-130. Offered: Spring.
- TTEN-145 ASE Tests 1 cr.**
Register for a minimum of two ASE exams and pass one. Offered: Spring.
- TTEN-146 ASE Tests 1 cr.**
Take and pass remaining ASE exams. Students are required to pass a minimum of four ASE exams in order to graduate. Any tests passed in TTEN 145 are counted as part of the requirement. Prerequisites: TTEN-145. Offered: Spring.
- TTEN-150 Engines & Related Systems 4 cr.**
This course covers the principles and operation of the internal combustion engine. Toyota internal combustion engines will be properly disassembled with nomenclature identification. All parts will be inspected, measured, and reassembled. Troubleshooting and diagnostic procedures will be emphasized on all systems. Corequisites: TTEN-160. Offered: Summer.
- TTEN-155 Toyota Advanced Air Induction Systems 2 cr.**
This course covers variable valve timing, turbo chargers and superchargers. The theory, operation and diagnosis of each of these systems will be covered and the manufacturers diagnostic and repair procedures will be stressed. Personal and vehicle safety will be emphasized. Prerequisites: TTEN-140. Corequisites: TTEN-160. Offered: Summer.
- TTEN-160 Heating & Air Conditioning 2 cr.**
A theory and shop course to teach the student automotive air conditioning and heating systems as they apply to current model Toyotas. The use of test equipment will be emphasized and the student will learn to diagnose, evacuate, recover refrigerant and recharge air conditioning systems. Corequisites: TTEN-150. Offered: Summer.
- TTEN-165 Toyota Advanced HVAC Diagnosis 3 cr.**
This course will cover advanced diagnosis theory and practice on Toyota vehicle heating, air conditioning and ventilation systems. The course will address computer based HVAC controls as well as the network of sensors. Environmental and personal safety will be emphasized. Prerequisites: TTEN-140. Corequisites: TTEN-160. Offered: Summer.
- TTEN-170 Power Trains 8 cr.**
The theory and practical application of Toyota power trains and differential service will be taught. Diagnosis, troubleshooting and actual repair procedures will be performed in the shop. Prerequisites: TTEN-160. Offered: On Demand.
- TTEN-172 Toyota Automatic Transmission/Transaxles 6 cr.**
The operating principles of Toyota automatic transmissions, transaxles, and their diagnosis, electrical and electronic controls, and repair will be covered. Instruction on noise, vibration and harshness diagnosis and correction will also be covered along with mechanical and hydraulic components. Safety is emphasized. Corequisites: TTEN-175. Offered: Fall.
- TTEN-175 Toyota Manual Transmissions/Transaxles 5 cr.**
The theory and repair of Toyota manual transmissions and transaxles, differentials, clutches, transfer cases and drive axles will be covered. Noise, hard shifting and other common concerns will be covered. Diagnosis and troubleshooting will be stressed. Safety is emphasized. Corequisites: TTEN-172. Offered: Fall.
- TTEN-180 Brake Systems 4 cr.**
A study of the theory and diagnostic repair procedures of Toyota disc and drum brake systems will be taught. Instruction will be given on brake machining equipment, hydraulic systems and component replacement on traditional and anti-lock brake systems. Prerequisites: TTEN-170 or TTEN-175. Corequisites: TTEN-190. Offered: Spring.
- TTEN-185 Toyota ABS & Traction Control Syst 1 cr.**
This course will cover Anti-Lock Brake Systems, Anti-Slip Systems and Traction Control Systems and includes theory, diagnosis and repair procedures as outlined in factory service information. Electric power steering motors, sensors and circuitry will be included. Safety will be emphasized. Corequisites: TTEN-180. Offered: Spring.
- TTEN-190 Steering & Suspension 4 cr.**
A theory and shop course to introduce the student to Toyota steering geometry, front and rear suspension service, wheel alignment, and wheel balancing. Lab work will include instruction on the latest model vehicles steering and suspension systems. Corequisites: TTEN-180. Offered: Spring.

TTEN-195 Toyota Computer Controlled Suspensions 1 cr.

This course will cover the theory of operation of the electrical, mechanical, and hydraulic systems of the computer controlled suspension systems on Toyota vehicles. Proper service procedures and techniques will be presented. Safety will be emphasized. Corequisites: TTEN-190. Offered: Spring.

TTEN-280 Toyota Cooperative Work Educ 4 cr.

The student will be employed at an approved automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily log and weekly reports MUST be submitted electronically once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: TTEN-120. Offered: On Demand.

TTEN-281 Toyota Cooperative Work Educ 4 cr.

The student will be employed at an approved automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted electronically once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: TTEN-140. Offered: On Demand.

TTEN-282 Toyota Cooperative Work Educ 4 cr.

The student will be employed at an approved automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted electronically once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: TTEN-160. Offered: On Demand.

TTEN-283 Toyota Cooperative Work Educ 4 cr.

The student will be employed at an approved automotive repair facility which will provide relevant learning experiences that are directly related to the student's most recent classroom/laboratory experiences. Daily logs and weekly reports MUST be submitted electronically once per week. The student will be supervised and evaluated jointly by his/her employer and San Juan College personnel. Prerequisites: TTEN-175. Offered: On Demand.

VETERINARY TECHNOLOGY**VETT-111 Vet Nursing Care I 2 cr.**

Veterinary Nursing Care 1 is an entry-level course designed to introduce students to basic nursing skills utilized by veterinary technicians and to act as a foundation of learning for subsequent nursing techniques courses. Offered: All. Faculty Permission Required.

VETT-112 Vet Business Procedures 2 cr.

Veterinary Business Procedures 1 is an entry-level course designed to give the student the basic skills necessary to function as a receptionist in a veterinary practice. Offered: All. Faculty Permission Required.

VETT-113 Small Animal Disease I 2 cr.

Small Animal Disease and Medical Care 1 is an entry-level course

designed to develop the basic knowledge of mammalian diseases and disease processes that may be encountered by a veterinary technician. Offered: All. Faculty Permission Required.

VETT-114 Pharmacology & Medical Therapeutics 2 cr.

Pharmacy and Medical Therapeutics 1 is an entry-level course designed to teach the student the basic classification and properties of the common pharmaceuticals used in veterinary medicine. Offered: All. Faculty Permission Required.

VETT-115 Vet Anesthesia & Surgical Assisting I 2 cr.

Veterinary Anesthesia and Surgical Assisting 1 is an entry-level course designed to help develop a strong foundation in anesthetic skills, surgical assisting skills, and perioperative procedures. Offered: All. Faculty Permission Required.

VETT-116 Vet Diagnostic Imaging I 2 cr.

Veterinary Diagnostic Imaging 1 is an entry-level course designed to develop the student's knowledge and basic skills in veterinary diagnostic imaging. Offered: All. Faculty Permission Required.

VETT-117 Vet Clinical Pathology I 2 cr.

Veterinary Clinical Pathology 1 is an entry-level course designed to develop the student's knowledge and skills in basic laboratory and diagnostic procedures. Offered: All. Faculty Permission Required.

VETT-118 Veterinary Medical Terminology 2 cr.

Entry level course designed to provide the student with a foundation in the language of veterinary medicine, focusing on pre-fixes, suffixes, word roots and their combining forms. Offered: All. Faculty Permission Required.

VETT-130 Vet Nursing Care II 2 cr.

Veterinary Nursing Care 2 is an intermediate course designed to instruct students in nursing care techniques including; bandages and casts, administration of medications, and sample collections. Prerequisites: Student must have clinical site and preceptor approved. Offered: All. Faculty Permission Required.

VETT-131 Vet Bus Procedures II 2 cr.

Veterinary Business Procedures 2 is an intermediate course designed to instruct students in receptionist skills, animal behavior basics, utilization of computers in veterinary practice, veterinary business management, and grief counseling. Prerequisites: Student must have clinical site and preceptor approved. Offered: All. Faculty Permission Required.

VETT-132 Small Animal Disease & Medical Care II 2 cr.

Small Animal Disease and Medical Care II is an intermediate course designed to instruct students in the study of selected small animal diseases and conditions, and the anatomical and physiological basis of the diseases that are being presented. Prerequisites: Student must have clinical site and preceptor approved. Offered: All. Faculty Permission Required.

VETT-133 Pharmacy & Medical Therapeutics II 2 cr.

Pharmacy and Medical Therapeutics II is an intermediate course designed to instruct students in the cardiovascular, respiratory, and integumentary systems, the pharmaceuticals that affect those systems, and pharmacological calculations.