

PHED 120. Personal and Community Health. (3 credits). This course presents the essential present-day knowledge of personal and community health. The course stresses physiological and anatomical background, showing the student how to make a sound appraisal of the effects of health practices upon the body. The course also includes discussion of pollution and prevention and control of diseases. (3 lecture hours per week).

PHED 130A. Coaching Athletics—Basketball. (3 credits). Students learn methods of coaching basketball through lectures, demonstrations, practice, and reading of present-day literature on the sports. (3 lecture hours per week).

PHED 130B. Coaching Athletics—Baseball. (3 credits). Students learn methods of coaching baseball through lectures, demonstrations, practice, and reading of present-day literature on the sports. (3 lecture hours per week).

PHED 130C. Coaching Athletics—Football and Track. (3 credits). Students learn methods of coaching football and track through lectures, demonstrations, practice, and reading of present-day literature on the sports. (3 lecture hours per week).

PHED 210. First Aid. (3 credits). This course presents the theory and practice used in the standard and advanced courses of the American Red Cross in first aid and home and farm study. (3 lecture hours per week).

PHED 220A. Officiating—Volleyball. (3 credits). This course teaches the rules of volleyball. It provides opportunities for experience in intramurals, practice games, and tournaments. (3 lecture hours per week).

PHED 220B. Officiating—Football—Basketball. (3 credits). This course teaches the rules of football and basketball. It provides opportunities for experience in intramurals, practice games, and tournaments. (3 lecture hours per week).

PHYSICS

Dick Graef, *Department Chairperson*

PHYS 110. Essentials of Science. (3 credits). This course is designed for elementary education majors. Topics include the nature of the earth as revealed by geology, astronomy, meteorology, and other related biological and physical sciences. (3 lecture hours per week).

PHYS 121. General Physics I. (4 credits). This introductory course includes the study of mechanics, heat, electricity, magnetism, light, and nuclear physics. (3 lecture and 3 laboratory hours per week). *Prerequisite:* MATH 110 or equivalent.

PHYS 122. General Physics II. (4 credits). This introductory course continues the study of mechanics, heat, electricity, magnetism, light, and nuclear physics. (3 lecture and 3 laboratory hours per week). *Prerequisites:* PHYS 121; MATH 110 or equivalent.

PHYS 141. Mechanics and Heat. (4 credits). Topics covered in this course include vectors and vector products, equilibrium, moments of force, motion, Newton's laws, and heat. The course meets the needs of science and engineering students. (3 lecture and 3 laboratory hours per week).

PHYS 146. Mechanics and Heat Laboratory. (1 credit). This laboratory course meets the needs of students taking PHYS 141. (3 laboratory hours per week). *Corequisite:* PHYS 141.

PHYS 242. Electricity and Magnetism. (4 credits). Designed for science and engineering students, this course provides instruction in electricity and magnetism. (3 lecture and 3 laboratory hours per week). *Prerequisite:* PHYS 141.

PHYS 243. Wave-Motion, Sound, Light. (4 credits). This course for students in science, engineering, and other related fields covers such topics as the nature and propagation of light, reflection interference, diffraction, lens, polarization, natural radioactivity, and nuclear energy. (3 lecture and 3 laboratory hours per week).

PHYS 247. Electricity and Magnetism Laboratory. (1 credit). This laboratory course meets the needs of students taking PHYS 242. (3 laboratory hours per week). *Corequisite:* PHYS 242.

PHYS 248. Wave-Motion, Sound, Light Laboratory. (1 credit). This laboratory course meets the needs of students taking PHYS 243. (3 laboratory hours per week). *Corequisite:* PHYS 243.

PSYCHOLOGY

Arthur Daniel, *Department Chairperson*

John Brannon, Mike Eernisse, Nancey Lobb, Roberto Rodriguez

PSYC 120. General Psychology. (3 credits). This course gives the student a broad view of the field and acquaints him/her with the fundamental laws of behavior that have to do with daily conduct in various life situations. The course covers such topics as the study of human behavior relating experimental data to practical problems, the measurement of ability, sensor and perceptive processes, organic basis of behavior, heredity, maturation, learning and thinking, motivation, emotion, personality, and social favors in behavior. (3 lecture hours per week).

PSYC 130. Child Growth and Development. (3 credits). This course includes a study of the physical and psychological development of the child from conception to adolescence, with emphasis on factors which influence growth and development. The course helps the individual develop skills in observing and interpreting children's behavior. (3 lecture hours per week).

PSYC 230. Adolescent Psychology. (3 credits). This course provides a survey of adolescent development, including physical, intellectual, social, and emotional factors. The course focuses on the problems of adjustment and typical manifestations of anti-social behavior during adolescence. (3 lecture hours per week).

PSYC 240. Statistical Methods in Psychology. (3 credits). This course explores such topics as measures of central tendency and variability, statistical inference, and correlation and regression. (3 lecture hours per week). *Prerequisite:* PSYC 120.

READING

Lynda Vern, *Department Chairperson*

NOTE: Basic reading skills are taught in RDNG 101, 102, 109, and 110. These courses benefit students needing additional preparation for college-level work and those desiring only to improve their reading ability.

Students who (1) score below 16 in Social Science on the ACT or (2) perform unsatisfactorily on the ACC placement test must take either one or two basic reading courses, depending on test results. Basic reading courses are strongly recommended for all students with ACT Social Science scores below 18.

RDNG 101. Reading Fundamentals I. (3 credits). Students learn basic reading skills through phonetic and structural analysis and techniques of comprehension. (3 lecture hours per week).

RDNG 102. Reading Fundamentals II. (3 credits). This course features exercises designed to improve the reading skills necessary for college-level work. Various study skills are also taught. (3 lecture hours per week).

RDNG 109. Developmental Reading I. (3 credits). To improve basic reading abilities, this course teaches phonetic and structural analysis skills that enable the student to decode unfamiliar words and thus become an independent reader. Techniques of comprehension are also stressed. (3 lecture hours and 1 laboratory hour per week).

RDNG 110. Developmental Reading II. (3 credits). Through improvement of reading comprehension and speed, vocabulary, and study skills, this course prepares the student to deal more successfully with the study materials required in many college courses. (3 lecture hours and 1 laboratory hour per week).

RDNG 115. Speed Reading. (3 credits). This transferable course for the average or advanced reader focuses on reading comprehension and speed, vocabulary development, and study skills. (3 lecture hours per week). *Prerequisite:* RDNG 110 or a satisfactory placement test score.

RADIO AND TELEVISION REPAIR

See p. 205 for TDC Radio and Television Repair courses.

SECRETARIAL SCIENCE

Dorothy Hitt, *Department Chairperson*
Crystal Brittingham, Maureen Giacchino

SECT 111, 112. Shorthand I, II. (3 credits each). These courses help students to master the principles of Gregg shorthand. The courses emphasize drills in the correct formation of work outlines and phrase forms and include a study of word signs, phrasing, dictation, transcription with computer application, typewriter transcription, and speed building. (3 lecture and 2 laboratory hours per week).

SECT 121, 122. Typewriting I, II. (3 credits each). These courses familiarize students with the typewriting keyboard and build skills essential to obtain employment in an office occupation. The courses emphasize correct typing techniques and practice in production problems such as centering, letters, manuscripts, simple tabulations, and forms. Both courses are structured for individualized learning. (2 lecture and 3 laboratory hours per week).

SECT 130. Business Communications. (3 credits). This course includes a study of the use of correct English, the use of proofreading techniques, the use of computer application of positive qualities in written communication, the use of effective speaking techniques, the use of employment-seeking skills, and the use of effective group interaction. (3 lecture hours per week).

SECT 140. Secretarial Practice. (3 credits). This study of secretarial occupations and secretarial duties in the business office includes topics such as handling of mail, filing, personality and human relations, grooming, and office routine. (3 lecture and 2 laboratory hours per week).

SECT 141. Medical Secretarial Practice. (3 credits). This study of the duties of a medical secretary gives students actual practice in all phases. Special attention is given to vocabulary, receptionist's duties, filing, typing, and accounting. (3 lecture and 2 laboratory hours per week).

SECT 142. Medical Terminology. (3 credits). This study of human anatomy, skeletal structure, systems of the body, and medical specialties is coupled with lectures, study guides, tests, and exercises designed to insure students' knowledge of the components in building medical vocabulary and of the application of medical vocabulary. (4 lecture hours and 1 laboratory hour per week).

SECT 143. Legal Secretarial Practice. (3 credits). This study of the duties of a legal secretary gives special attention to vocabulary, legal typing, court documents, filing, accounting, and machine transcription. (3 lecture and 2 laboratory hours per week).

SECT 144. Legal Terminology. (3 credits). This course is designed to insure the student's comprehension of meanings and applications of legal terminology. Emphasis is placed on the judicial system, types of courts, jurisdictions, and appellate procedures. The course also includes researching of legal reference books. (4 lecture hours and 1 laboratory hour per week).

SECT 150. Office Machines. (3 credits). This course includes data entry activities on the personal computer and applications of basic arithmetic skills (percentages, interests, discounts, depreciation, payroll, etc.) to the operation of electronic calculators using ten-key touch. The course is designed to provide familiarization with personal computers and to develop sufficient speed and accuracy skill on the electronic calculators for office use. (2 lecture and 3 laboratory hours per week).

SECT 160. Office Accounting. (3 credits). Manual and computer procedures and techniques used in recording business transactions and preparing financial statements are presented in this course. The course is adapted to the needs of those training for secretarial positions. (3 lecture hours per week).

SECT 212. Secretarial Internship. (3 credits). The student works in a qualifying firm 20 hours per week in an occupational situation where he receives practical training and experience compatible with his management career objective. Students may receive credit from an approved full-time job.

SECT 220. Typewriting III. (3 credits). This advanced typing course places emphasis on production typing on an electronic typewriter in an office atmosphere with additional training given in written and oral communication. (2 lecture and 3 laboratory hours per week). *Prerequisite:* SECT 122.

SECT 222. Secretarial Internship. (3 credits). The student works in a qualifying firm 20 hours per week in an occupational situation where he receives practical training and experience compatible with his management career objective. Students may receive credit from an approved full-time job.

SECT 230. Records Management. (3 credits). This study of basic filing procedures and records control provides instruction in the fundamentals that are essential to the managing of the records of a business. (2 lecture and 3 laboratory hours per week).

SECT 250. Word Processing. (3 credits). This course includes office simulation of business typing, transcribing, and production work utilizing equipment currently found in word processing centers. The course also develops the concept of word processing in business for both the administrative secretary and the corresponding secretary, and it includes a review of grammar, punctuation, and vocabulary, as well as training in decision making. (2 lecture and 3 laboratory hours per week). *Prerequisite:* SECT 122 or equivalent.

SECT 260. Word Processing Applications. (3 credits). This course continues the study of word processing concepts with "hands on" applications involving students in advanced keyboarding skills, text editing skills, and information processing skills. (2 lecture hours and 3 laboratory hours per week). *Prerequisite:* SECT 250.

SOCIOLOGY

Arthur Daniel, *Department Chairperson*
John Brannon, Mike Eernisse

SOCI 110. Marriage and Family Relationships. (3 credits). A contemporary study of the freedom and growth potential of the individual in marriage and family life, this course explores the many parameters of the marital and parental relationships, and it places emphasis on raising current questions with comprehensive examination of the values and goals of the individual as well as the institution of the family. (3 lecture hours per week).

SOCI 111. Principles of Sociology. (3 credits). This course presents a scientific examination of the organization of human social life, the unique forms and social order of group life, and the products of group living. The course places special emphasis on social interaction patterns and the processes and institutions developed by man to facilitate his progress. (3 lecture hours per week).

SOCI 122. Social Problems. (3 credits). This course includes the scientific examination of conditions that are disruptive to society today, those seen as problematic for society as a whole, and those that represent violations of the norms of special groups in society: population, poverty, social minorities, mass society, delinquency, crime, drugs, sexual deviance, and disorganization of family, education, and religion. (3 lecture hours per week).

SOCI 230. Introduction to Anthropology. (3 credits). Following principles of physical and cultural anthropology, this course analyzes the cultures of prehistoric and existing preliterate people and the impact of modern western culture on preliterate societies. (3 lecture hours per week). *Prerequisite:* SOCI 111.

SPANISH

Robert Rodriguez, *Department Chairperson*

SPAN 101. Conversational Spanish I. (3 credits). The primary purpose of this course is to give the student an opportunity to develop an accurate oral use of the language, based on a sound understanding of structure. Reading will be incidental to the oral objective. (3 lecture hours per week). *Prerequisite:* instructor approval.

SPAN 102. Conversational Spanish II. (3 credits). This course is a continuation of Conversational Spanish I. It will expand the vocabulary and oral skills learned in the previous course. (3 lecture hours per week). *Prerequisite:* SPAN 101 or instructor approval.

SPAN 111. Elementary Spanish I. (4 credits). While this course is definitely aimed toward proficiency in everyday conversational Spanish, it gives the student the necessary background in pronunciation, acquisition of vocabulary, grammatical construction, and formation of sentences. (3 lecture and 2 laboratory hours per week).

SPAN 112. Elementary Spanish II. (4 credits). This course is a continuation of the oral practice of SPAN 111 with some stress placed on reading and composition. (3 lecture and 2 laboratory hours per week).

SPAN 121. Intermediate Spanish I. (3 credits). This course includes the more complex grammatical points. The course includes a review of pronunciation and aural/oral drills, and it emphasizes proper usage of grammar, both written and oral. Students read classical and contemporary literature of moderate difficulty to further cultural appreciation and to gain a better understanding of international affairs. (3 lecture hours and 1 laboratory hour per week). *Prerequisite:* SPAN 112 or instructor approval.

SPAN 122. Intermediate Spanish II. (3 credits). This course is a continuation of the study introduced in SPAN 121, and it emphasizes fluent usage of oral and written Spanish. (3 lecture hours and 1 laboratory hour per week). *Prerequisite:* SPAN 112 or instructor approval.

SPAN 220. Introduction to Spanish Literature. (3 credits). This course is conducted in Spanish. It includes an introduction to Spanish and Latin American literature through representative selections from major authors. (3 lecture hours per week). *Prerequisite:* SPAN 122 or instructor approval.

SPEECH

C. Jay Burton, *Department Chairperson*
Bill Waggoner

SPCH 105. Interpersonal Communication. (3 credits). This course presents theory, examples, and participation in exercises in order to improve effective one-to-one and small group communication. (3 lecture hours per week).

SPCH 110. Fundamentals of Speech. (3 credits). This course consists of the study of the importance of speech as an aid in social adjustment; the improvement of articulation and pronunciation; the study of the use of bodily activity and its relation to effective speaking; vocabulary development; the study of the general ends of speech; and preparation toward the achieving of these ends. (3 lecture hours per week).

SPCH 120. Public Speaking. (3 credits). This course concentrates on the methods of organization and the techniques of delivery of the platform speech, with emphasis on explanation and persuasion. The course includes a study of group methods of problem solving and parliamentary procedures. (3 lecture hours per week). *Prerequisite:* SPCH 110 or instructor approval.

SPCH 130. Oral Interpretation. (3 credits). This course presents the study of platform interpretation of literature. The course emphasizes improvement in voice, pronunciation, and enunciation for interpreting lyric poetry, narrative prose and poetry, the descriptive essay, the monologue, and dramatic scenes. This course is particularly recommended for English and elementary majors. (3 lecture hours per week). *Prerequisite:* SPCH 110.

SPCH 140. Business Speech. (3 credits). This course provides studies of the techniques of technical reporting (speeches to instruct, speeches of special reporting), of special situational speeches, of techniques of problem-solving through public discussion (panel discussion, symposium, etc.), and of the techniques of parliamentary law for purposes of learning to preside at various meetings. The course also gives interview experience. (3 lecture hours per week).

WELDING

Bruce Westmoreland, *Department Chairperson*
Gary Church, Lemuel Bruner

WELD 110. Welding Processes. (4 credits). This course includes theory and practice in techniques of oxy-acetylene welding and cutting, layout and preparation of commonly used joints, servicing and regulation of oxy-acetylene equipment, basic shop practices, basic welding machine theory, and set up procedures of electronic arc welding machine. (2 lecture and 6 laboratory hours per week).

WELD 121. Arc Welding (Plate I). (4 credits). This course teaches students to do metal cutting with oxygen and acetylene equipment. The course includes a study of the theory of plate welding, and students learn plate welding in three positions: flat, vertical up, and horizontal. (2 lecture and 6 laboratory hours per week).

WELD 122. Arc Welding (Plate II). (4 credits). In this course on the advanced theory of plate welding, students learn plate welding in five positions: flat, vertical up, horizontal, vertical down, and overhead. The course also covers Root and Face Bend tests for qualifications of plate welders and advanced theory and troubleshooting procedures for electronic arc welding machines. (2 lecture and 6 laboratory hours per week). *Prerequisite:* WELD 121 or approval of department chairperson.

WELD 131. Basic MIG and TIG. (4 credits). The course includes a study of the theory of Tungsten Inert Gas Welding and Metallic Inert Gas Welding. Students gain laboratory experience in gas shielded arc welding. (2 lecture and 6 laboratory hours per week). *Prerequisite:* WELD 121 or approval of department chairperson.

WELD 160. Shop Equipment and Safety. (2 credits). This course provides an introduction to safety methods to be used while in the shop or on the job. Shop and job safety is taught and carried out at all times. (1 lecture and 2 laboratory hours per week).

WELD 231. Advanced MIG and TIG. (4 credits). This course includes a study of advanced theory of Tungsten Inert Gas Welding and Metallic Inert Gas Welding. Students gain advanced laboratory experience in gas shielded arc welding. (2 lecture and 6 laboratory hours per week). *Corequisite:* WELD 131 or approval of department chairperson.

WELD 241. Basic Layout Design and Fabrication. (3 credits). In this introduction to design and construction of various types of layouts according to specifications, students gain related welding experience in structure fabrication. (1 lecture and 4 laboratory hours per week). *Prerequisite:* WELD 121 or approval of department chairperson.

WELD 242. Advanced Layout Design and Fabrication. (3 credits). This course includes a study of advanced design and construction of various types of layouts according to specifications. Students gain related welding experience in structure fabrication. (1 lecture and 4 laboratory hours per week). *Prerequisite:* WELD 241 or approval of department chairperson.

WELD 251. Pipe Welding I. (4 credits). This course includes such topics as the theory of pipe welding, cutting and beveling pipe with oxygen and acetylene equipment, and pipe welding in two positions: rolling and horizontal. (2 lecture and 6 laboratory hours per week). *Prerequisite:* WELD 122 or approval of department chairperson.

WELD 252. Pipe Welding II. (4 credits). The course covers advanced theory of pipe welding. Students learn pipe welding in four positions: rolling, horizontal, downhill, and overhead. The Code test under Section IX, A. W. S. is also covered in the course. (2 lecture and 6 laboratory hours per week). *Prerequisite:* WELD 251 or approval of department chairperson.

See p. 206 for TDC Welding courses.

TEXAS DEPARTMENT OF CORRECTIONS

CERTIFICATE PROGRAMS

(Less Than 12 Months)

Automotive Technology
Computer Science
Drafting

Horticulture (Ornamental)
Radio and Television Repair
Welding

Alvin Community College has conducted educational programs for the Texas Department of Corrections since 1965. In addition to the Associate in General Liberal Arts (p. 48-49), occupational/technical Certificate of Completion Programs are offered. These certificate programs are designed to provide skills which enable the student to be placed in entry-level employment within a chosen specialty.

A certificate of completion is awarded when the student satisfactorily completes the course sequences described for a selected program.

*AUTOMOBILE TECHNOLOGY

Bruce Westmoreland, *Department Chairperson*
Rogers Doughty, Charles Graham, Hasso Schroder

AUTO 110. Basic Automotive. (4 credits). The course acquaints the student with service trade information, use and care of shop equipment and tools, standard transmission, brakes, clutches, rear axle, drive line principles, and a limited application of automotive shop practice. (3 lecture and 6 laboratory hours per week).

AUTO 120. Internal Combustion Engine. (4 credits). In this introduction to the gasoline internal combustion engine, students learn technique and skill in inspection, repairing and overhauling of engine components, valve timing, and the use of special tools and equipment. (3 lecture and 6 laboratory hours per week).

AUTO 130. Automotive Electricity and Ignition System. (4 credits). An introduction to the fundamentals of electricity as applied to the automotive vehicle, this course includes classroom theory and laboratory practices of magnetic principles of electricity, functions of the diode and transistor, the storage battery, D.C. and A.C. charging systems, generators and alternators, and complete wiring systems. (3 lecture and 6 laboratory hours per week).

AUTO 140. Carburetion and Fuel Systems. (4 credits). This course includes a study of fuels and their applications, requirements, and effect on carburetion. Students disassemble, clean, overhaul, reassemble, and adjust various types of carburetors. (3 lecture and 6 laboratory hours per week).

AUTO 150. Automotive and Truck Chassis. (4 credits). This course includes a study of designs, construction, and frame alignment fundamentals of the vehicle chassis. Classroom theory and laboratory practices include front end alignment, shock absorbers, springs, steering mechanism, wheel balancing, and power steering. (3 lecture and 6 laboratory hours per week).

*COMPUTER SCIENCE

Joseph Potts, *Department Chairperson*
Loretta Hulsey

CSCI 104. Introduction to Computers. (4 credits). This course is an overview of the basic concepts of computer information processing. The functional characteristics of digital computers and their capabilities and limitations are discussed, and the application of computers in business, industry, and society is explored. (3 lecture and 7 laboratory hours per week).

CSCI 105. Micro-Computer Programming—BASIC. (4 credits). This course on the fundamental concepts of BASIC programming language as applied to micro-computers includes problem solving, application, graphics, and other programming techniques applicable to micro-computers. (3 lecture and 7 laboratory hours per week).

CSCI 115. Computer Programming (PASCAL). (4 credits). This introductory course in structured programming using the PASCAL language emphasizes algorithm design, flowcharting, and syntax of the language. Business applications are used to introduce problem-solving techniques. (3 lecture and 7 laboratory hours per week).

CSCI 205. Introduction to Database Structures. (4 credits). This introductory course in database processing using the PASCAL language explores algorithms for sorting, searching, joining, and displaying information from a group of related files. Emphasis is placed on database structure, data integrity, and user functionality. (3 lecture and 7 laboratory hours per week).

CSCI 225. Data Base Systems. (4 credits). In this introduction to data-based management systems, data organization and structure, and data-base design, the student uses a query language for business applications. (3 lecture hours and 7 laboratory hours per week).

*DRAFTING

Ben Daw, *Department Chairperson*
Larry Huffman

DRFT 112. Technical Drafting. (4 credits). The principles of technical drawing as required to express ideas graphically are introduced in this course. Topics include the use of instruments, geometric construction, orthographic projection, sections, auxiliary views, revolutions, dimensioning, axonometric projection, intersections, and developments. (3 lecture and 6 laboratory hours per week).

DRFT 213. Pipe Drafting. (4 credits). This basic course is designed for the study of engineering standards, pipe and fitting designs, symbols, and specifications. (3 lecture and 6 laboratory hours per week).

DRFT 223. Structural Drafting. (4 credits). This course covers AISC specifications and standards, design and detail, or structural members and connections. (3 lecture and 6 laboratory hours per week).

DRFT 233. Electrical Drafting. (4 credits). This introduction to electrical schematics and diagrams covers basic electricity and the study of electrical and electronic symbols, their application, and associated terminology. (3 lecture and 6 laboratory hours per week).

DRFT 243. Architectural Drafting. (4 credits). This course emphasizes basic drafting techniques as related to the preparation of residential details, with emphasis on floor plans, plot plans, foundations, structural details, sections, and elevations. (3 lecture and 6 laboratory hours per week).

*HORTICULTURE (ORNAMENTAL)

Steve Wheeler, *Department Chairperson*
Dwight Rhodes

HORT 102. Principles of Horticulture. (4 credits). This course presents fundamental principles and practices of structure, growth, development, maintenance, and use of horticultural plants. The course outlines the commercial horticulture industry and occupational opportunities. The laboratory experience provides an introduction to growing, grounds maintenance, planting, transplanting, and plant maintenance. (3 lecture and 6 laboratory hours per week).

HORT 112. Plant Materials for Landscape Use. (4 credits). This course provides a study of ornamental trees, shrubs, vines, and ground covers for landscape use, and it emphasizes their identification, characteristics, adaptability, use, and maintenance. Students use basic concepts and practices in preparing landscape plans. (3 lecture and 6 laboratory hours per week).

HORT 122. Plant Propagation. (4 credits). This course provides the student with theoretical consideration and practical experiences in producing horticultural plants by sexual and asexual methods. It includes laboratory exercises in cutting, layering, division, growing from seeds, budding, and grafting. (3 lecture and 6 laboratory hours per week).

HORT 222. Chemical Control of Weeds, Plants, Diseases, and Pests. (4 credits). This course covers the identification, cause, and control of common weeds, plant diseases, and pests, and it includes a study of equipment for their prevention and control. (3 lecture and 6 laboratory hours per week).

HORT 251. Vegetable Crops. (4 credits). This course is a study of vegetable production, and it includes factors that affect production of important fresh market and processing vegetables in different areas of the United States. (3 lecture and 6 laboratory hours per week).

*RADIO AND TELEVISION REPAIR

Buddy Brogdon, Lew Garrett

RATV 105. Basic Communications. (4 credits). This course explores the theory and application of electronics from basic aspects through transmitters and antennas. The lab portion of the course includes application, operation, and testing of communication equipment. (3 lecture and 7 laboratory hours per week).

RATV 110. Basic Radio Receivers. (4 credits). This introduction to radio receivers and radio circuitry prepares the student for radio servicing. The course lays the basic foundation for further study in television servicing of black and white, color, and industrial closed circuit televisions as well as home receivers. (3 lecture and 7 laboratory hours per week).

RATV 120. Basic Television Receivers. (4 credits). This course includes a study of television circuits as applied to the black and white home and industrial closed circuit receivers. Servicing experiments in lab are done on actual lab TV receivers using up-to-date equipment and schematics. The use of the VTVM and the scope is emphasized. (3 lecture and 7 laboratory hours per week).

RATV 220. Basic Color Television. (4 credits). This course includes the study of color television circuits as they are applied to the modern receiver. The student studies color, mixing both additive and subtractive methods, requirements of the composite color signal, makeup of the color picture tube, convergence, and troubleshooting procedures. All lab experiments are performed on live color receivers using up-to-date equipment and schematics. (3 lecture and 7 laboratory hours per week). *Prerequisite:* RATV 120 or equivalent.

RATV 230. Advanced Service Techniques. (4 credits). This course is designed for the technician who is familiar with television circuitry and wants to progress to advanced servicing techniques. The course includes visual alignment and overall response analysis. (3 lecture and 7 laboratory hours per week). *Corequisite:* RATV 120 or equivalent.

*WELDING

Bruce Westmoreland, *Department Chairperson*
Gary Church, Lemuel Bruner

WELD 111. Welding Processes and Safety. (4 credits). This course includes theory and practice in techniques of oxy-acetylene welding and cutting, layout and preparation of commonly used joints, servicing and regulation of oxy-acetylene equipment, basic shop practices, basic welding machine theory, and set up procedures of the electrical arc welding machine. This course also includes an introduction to shop and job safety. (3 lecture and 6 laboratory hours per week).

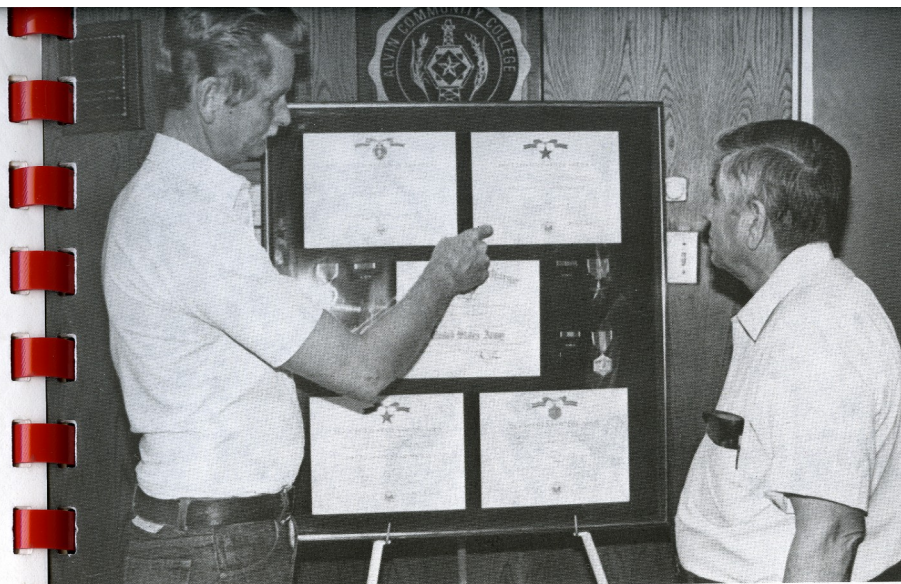
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WELD 123. Arc Welding (Plate II). (4 credits). In this course on the advanced theory of plate welding, students learn plate welding in five positions: flat, vertical up, horizontal, vertical down, and overhead. The course also covers Root and Face Bend tests for qualifications of plate welders and advanced theory and troubleshooting procedures for electronic arc welding machines. (3 lecture and 6 laboratory hours per week).

WELD 253. Pipe Welding I. (4 credits). This course includes such topics as the theory of pipe welding, cutting and beveling pipe with oxygen and acetylene equipment, and pipe welding in two positions: rolling and horizontal. (3 lecture and 6 laboratory hours per week).

WELD 254. Pipe Welding II. (4 credits). This course covers advanced theory of pipe welding. Students learn pipe welding in four positions: rolling, horizontal, downhill, and overhead. (3 lecture and 6 laboratory hours per week).

*Courses offered only at the Texas Department of Corrections.







Ben Jernigan, D.D.S.
Board Chairman



Doyle Swindell
Board Vice-Chairman



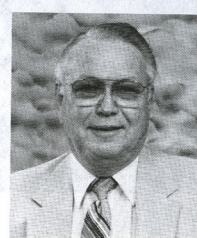
Carl Ellis
Board Secretary



Gerald Andrews



James B. DeWitt



Elmer Dezso



Jerry Jircik



William McDaniel, M.D.



M. B. Ward



A.R. Albright
President
Alvin
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| Mary Wyllie | English Instructor, Emeritus |
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| Cherry Simpson | Art Instructor, Emeritus |

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FACULTY

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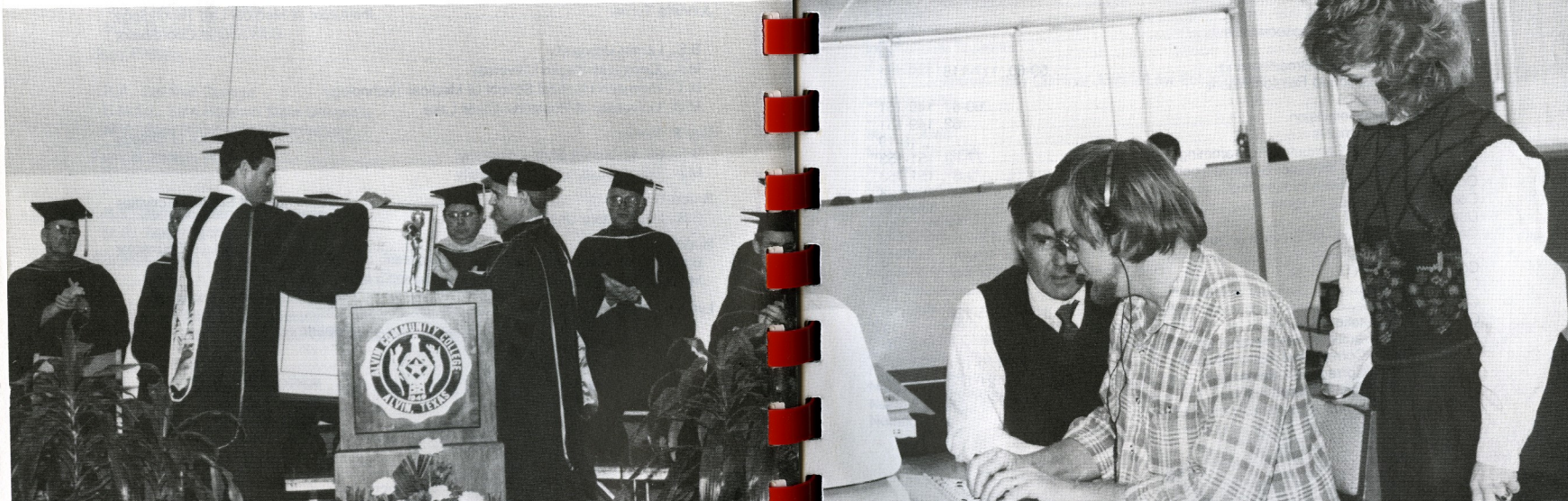
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Association of College Unions International
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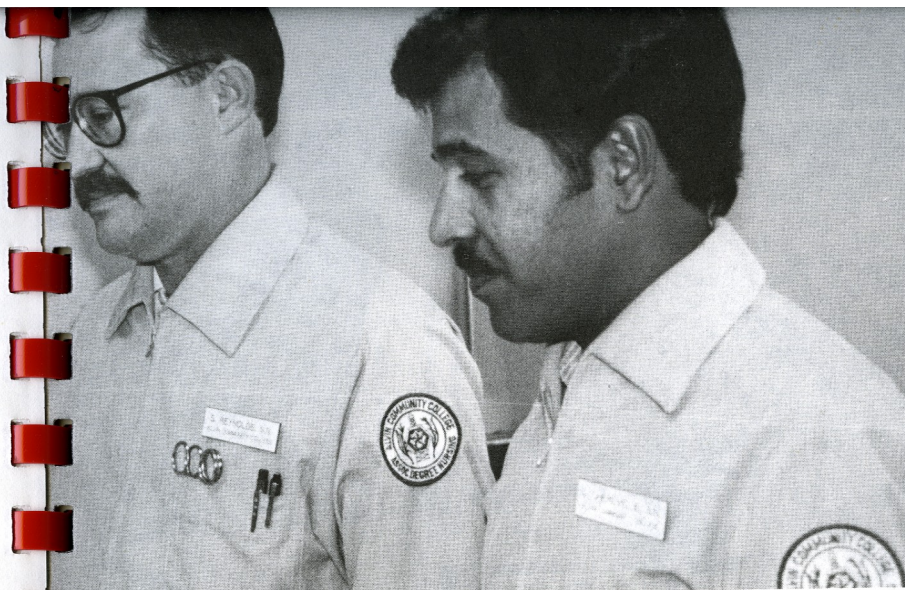


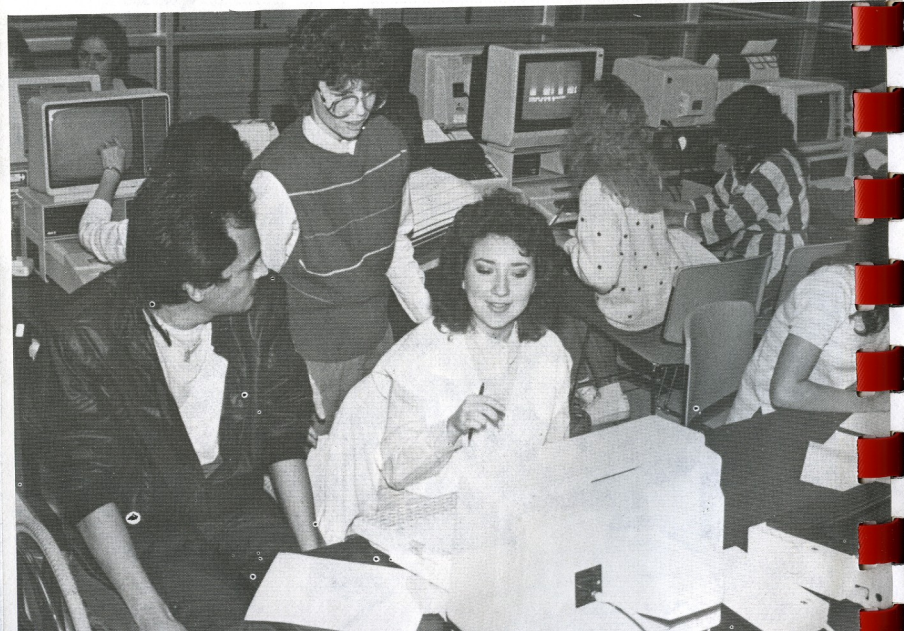
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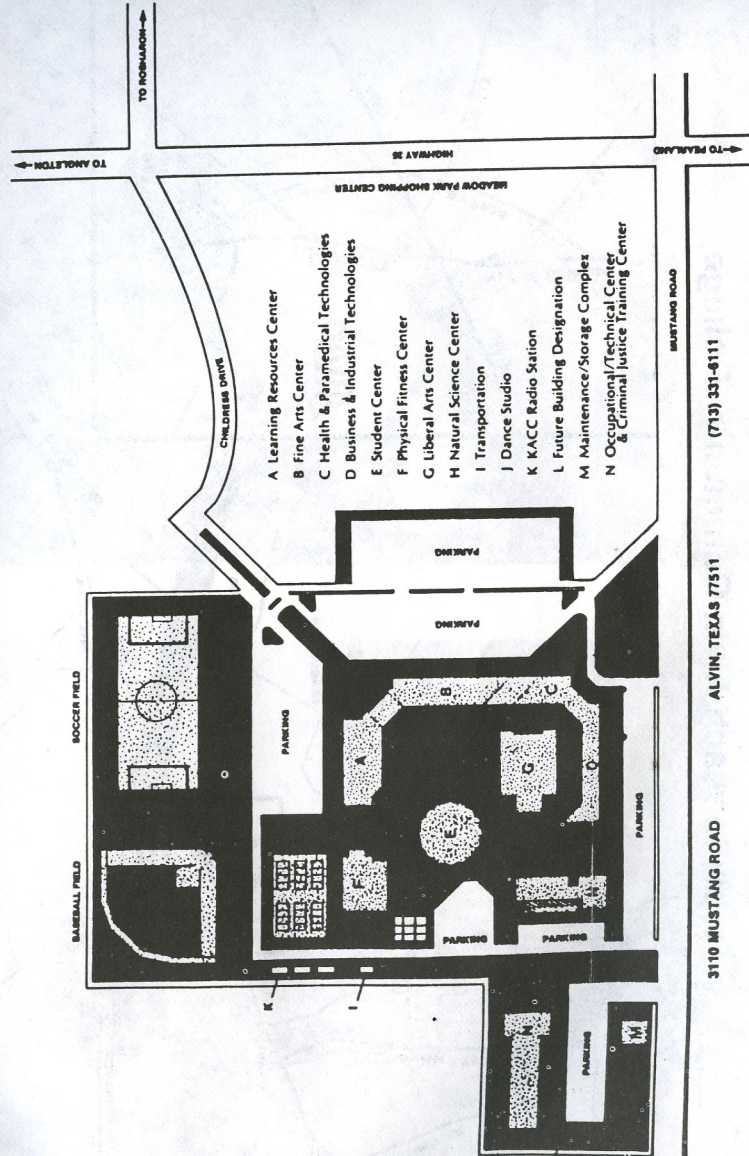
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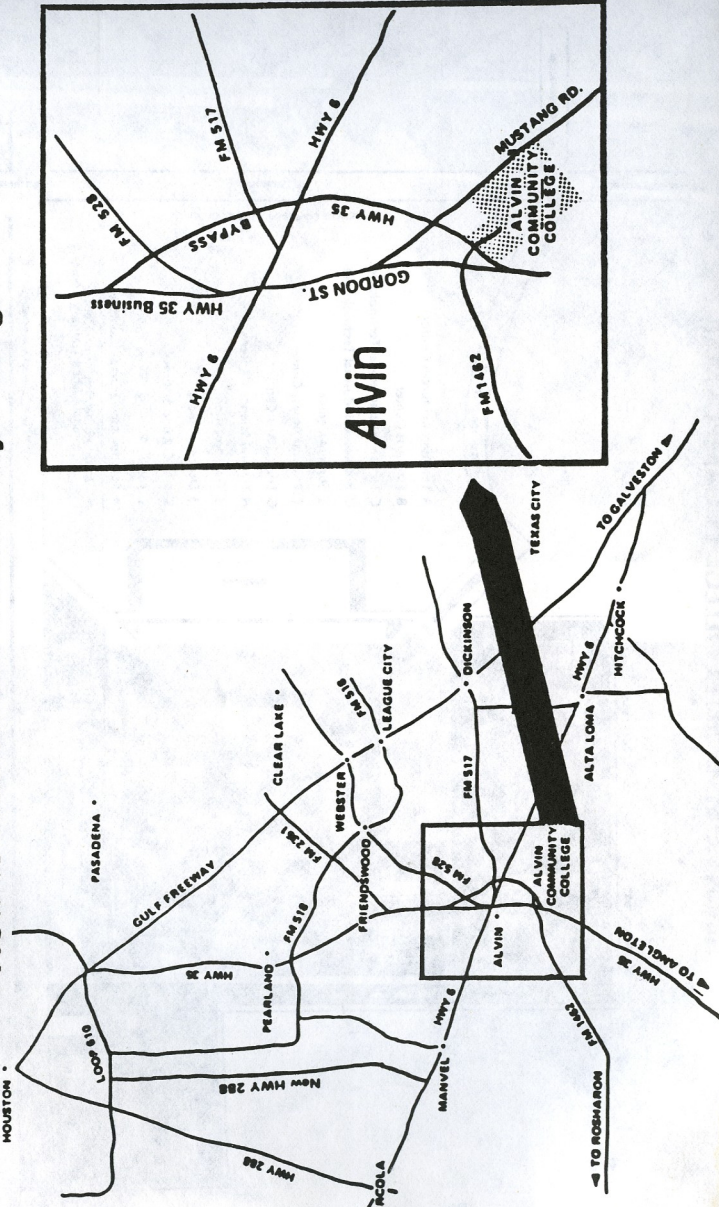




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