

- PHED 116B. Individual and Dual Sports — Tennis.** (1 credit). This course provides instruction and participation in tennis in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116C. Individual and Dual Sports — Badminton.** (1 credit). This course provides instruction and participation in badminton in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116G. Individual and Dual Sports — Karate.** (1 credit). This course provides instruction and participation in karate in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116H. Individual and Dual Sports — Racquetball.** (1 credit). This course provides instruction and participation in racquetball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116I. Individual and Dual Sports — Advanced Racquetball.** (1 credit). This course provides instruction and participation in advanced racquetball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116K. Individual and Dual Sports — Scuba Diving.** (1 credit). This course provides instruction and participation in scuba diving in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116L. Individual and Dual Sports — Gymnastics.** (1 credit). This course provides instruction and participation in gymnastics in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116M. Individual and Dual Sports — Yoga.** (1 credit). This course provides instruction and participation in yoga in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116N. Individual and Dual Sports — Cheerleading.** (1 credit). This course provides instruction and participation in cheerleading in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 116P. Individual and Dual Sports — Jogging.** (1 credit). This course provides instruction and participation in jogging in order to develop the student's fitness, skills, knowledge, and appreciation of the sport. (3 laboratory hours of class instruction and participation per week).
- PHED 116Q. Individual and Dual Sports — Fencing.** (1 credit). This course provides instruction and participation in the art of fencing in order to develop the student's fitness, skills, knowledge, and appreciation of the sport. (3 laboratory hours of class instruction and participation per week).
- PHED 116S. Individual and Dual Sports — Pickleball.** (1 credit). This course provides instruction and participation in pickleball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).
- PHED 117. Volleyball.** (1 credit). This course consists of instruction and participation in both beginning and advanced volleyball. (3 laboratory hours per week).

- PHED 118. Volleyball.** (1 credit). This course consists of instruction and participation in both beginning and advanced volleyball. (3 laboratory hours per week).
- PHED 121. Physical Fitness and Weight Training.** (1 credit). This course includes a study of basic fundamental skills and techniques of an overload, strength, and conditioning program. (3 laboratory hours of class instruction and participation per week).
- PHED 122. Physical Fitness and Weight Training.** (1 credit). This course includes a study of basic fundamental skills and techniques of an overload, strength, and conditioning program. (3 laboratory hours of class instruction and participation per week).
- PHED 125A. Fundamentals of Movement — Aerobic Dance.** (1 credit). This course provides instruction and participation in aerobic dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).
- PHED 125B. Fundamentals of Movement — Disco and Country Western.** (1 credit). This course provides instruction and participation in disco country dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).
- PHED 125C. Fundamentals of Movement — Ballet.** (1 credit). This course provides instruction and participation in ballet, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).
- PHED 125D. Fundamentals of Movement — Jazz Exercise.** (1 credit). This course provides instruction and participation in jazz exercise, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week).
- PHED 125E. Fundamentals of Movement — Modern Dance.** (1 credit). This course provides instruction and participation in modern dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week).
- PHED 125F. Fundamentals of Movement — Jazz.** (1 credit). This course provides instruction and participation in jazz, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).
- PHED 125G. Fundamentals of Movement — Tap.** (1 credit). This course provides instruction and participation in tap dancing, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week).
- PHED 126A. Fundamentals of Movement — Aerobic Dance.** (1 credit). This course provides instruction and participation in aerobic dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).
- PHED 126B. Fundamentals of Movement — Disco and Country/Western.** (1 credit). This course provides instruction and participation in disco and country/western dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).
- PHED 126C. Fundamentals of Movement — Ballet.** (1 credit). This course provides instruction and participation in ballet, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).



**PHED 126D. Fundamentals of Movement — Jazz Exercise.** (1 credit). This course provides instruction and participation in jazz exercise, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week).

**PHED 126E. Fundamentals of Movement — Modern Dance.** (1 credit). This course provides instruction and participation in modern dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week).

**PHED 126F. Fundamentals of Movement — Jazz.** (1 credit). This course provides instruction and participation in jazz, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).

**PHED 126G. Fundamentals of Movement — Tap.** (1 credit). This course provides instruction and participation in tap dancing, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week).

**PHED 137. Bowling.** (1 credit). This course meets the needs of both the beginning and the advanced bowler. After a four week instruction period, a class league forms with students receiving experience in league etiquette, procedures, scoring, etc. (3 laboratory hours of class instruction and participation per week).

**PHED 138. Bowling.** (1 credit). This course meets the needs of both the beginning and the advanced bowler. After a four week instruction period, a class league forms with students receiving experience in league etiquette, procedures, scoring, etc. (3 laboratory hours of class instruction and participation per week).

**PHED 151A. Team Sports — Flag Football and Soccer.** (1 credit). This course includes class instruction and participation in flag football and soccer. (3 laboratory hours per week).

**PHED 151B. Team Sports — Volleyball and Softball.** (1 credit). This course includes class instruction and participation in volleyball and softball. (3 laboratory hours per week).

**PHED 152A. Team Sports — Basketball and Softball.** (1 credit). This course includes class instruction and participation in basketball and softball. (3 laboratory hours per week).

**PHED 152B. Team Sports — Volleyball and Softball.** (1 credit). This course includes class instruction and participation in volleyball and softball. (3 laboratory hours per week).

**PHED 165. Aerobic Exercise.** (1 credit). This course consists of a planned program of exercise to provide a condition of fitness and figure improvement through increased cardio-vascular activity and large muscle exercise. (3 laboratory hours of class instruction and participation per week).

**PHED 166. Aerobic Exercise.** (1 credit). This course consists of a planned program of exercise to provide a condition of fitness and figure improvement through increased cardio-vascular activity and large muscle exercise. (3 laboratory hours of class instruction and participation per week).

**PHED 215B. Individual and Dual Sports — Tennis.** (1 credit). This course provides instruction and participation in tennis in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215C. Individual and Dual Sports — Badminton.** (1 credit). This course provides instruction and participation in badminton in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215G. Individual and Dual Sports — Karate.** (1 credit). This course provides instruction and participation in karate in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215H. Individual and Dual Sports — Racquetball.** (1 credit). This course provides instruction and participation in racquetball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215I. Individual and Dual Sports — Advanced Racquetball.** (1 credit). This course provides instruction and participation in advanced racquetball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215K. Individual and Dual Sports — Advanced Scuba Diving.** (1 credit). This course provides instruction and participation in advanced scuba diving in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).

**PHED 215L. Individual and Dual Sports — Gymnastics.** (1 credit). This course provides instruction and participation in gymnastics in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215M. Individual and Dual Sports — Yoga.** (1 credit). This course provides instruction and participation in yoga in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215N. Individual and Dual Sports — Cheerleading.** (1 credit). This course provides instruction and participation in cheerleading in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215P. Individual and Dual Sports — Jogging.** (1 credit). This course provides instruction and participation in jogging in order to develop the student's fitness, skills, knowledge, and appreciation of the sport. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215Q. Individual and Dual Sports — Fencing.** (1 credit). This course provides instruction and participation in the art of fencing in order to develop the student's fitness, skills, knowledge, and appreciation of the sport. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 215S. Individual and Dual Sports — Pickleball.** (1 credit). This course provides instruction and participation in pickleball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.



**PHED 215T. Individual and Dual Sports — Adaptive Physical Education.** (1 credit). This course is for students who, for medical reasons, need individual attention concerning their physical activity. Activities will be varied according to individual needs as determined by instructor, student, and student's physician. The course may be repeated once for credit. (3 laboratory hours of class instruction and participation per week).

**PHED 216B. Individual and Dual Sports — Tennis.** (1 credit). This course provides instruction and participation in tennis in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216C. Individual and Dual Sports — Badminton.** (1 credit). This course provides instruction and participation in badminton in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216G. Individual and Dual Sports — Karate.** (1 credit). This course provides instruction and participation in karate in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216H. Individual and Dual Sports — Racquetball.** (1 credit). This course provides instruction and participation in racquetball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216I. Individual and Dual Sports — Advanced Racquetball.** (1 credit). This course provides instruction and participation in advanced racquetball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216K. Individual and Dual Sports — Advanced Scuba Diving.** (1 credit). This course provides instruction and participation in advanced scuba diving in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week).

**PHED 216L. Individual and Dual Sports — Gymnastics.** (1 credit). This course provides instruction and participation in gymnastics in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216M. Individual and Dual Sports — Yoga.** (1 credit). This course provides instruction and participation in yoga in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216P. Individual and Dual Sports — Jogging.** (1 credit). This course provides instruction and participation in jogging in order to develop the student's fitness, skills, knowledge, and appreciation of the sport. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216Q. Individual and Dual Sports — Fencing.** (1 credit). This course provides instruction and participation in the art of fencing in order to develop the student's fitness, skills, knowledge, and appreciation of the sport. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 216S. Individual and Dual Sports — Pickleball.** (1 credit). This course provides instruction and participation in pickleball in order to develop the student's fitness, skills, knowledge, and appreciation. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 217. Volleyball.** (1 credit). This course consists of instruction and participation in both beginning and advanced volleyball. (3 laboratory hours per week). *Prerequisite:* sophomore standing.

**PHED 218. Volleyball.** (1 credit). This course consists of instruction and participation in both beginning and advanced volleyball. (3 laboratory hours per week). *Prerequisite:* sophomore standing.

**PHED 221. Physical Fitness and Weight Training.** (1 credit). This course includes a study of basic fundamental skills and techniques of an overload, strength, and conditioning program. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 222. Physical Fitness and Weight Training.** (1 credit). This course includes a study of basic fundamental skills and techniques of an overload, strength, and conditioning program. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 225A. Fundamentals of Movement — Aerobic Dance.** (1 credit). This course provides instruction and participation in aerobic dance, and it includes a brief study of the history and philosophy of dance. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 225B. Fundamentals of Movement — Disco & Country/Western.** (1 credit). This course provides instruction and participation in disco and country/western dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 225C. Fundamentals of Movement — Ballet.** (1 credit). This course provides instruction and participation in ballet, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 225D. Fundamentals of Movement — Jazz Exercise.** (1 credit). This course provides instruction and participation in jazz exercise, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 225E. Fundamentals of Movement — Modern Dance.** (1 credit). This course provides instruction and participation in modern dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).

**PHED 225F. Fundamentals of Movement — Jazz.** (1 credit). This course provides instruction and participation in jazz, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).

**PHED 225G. Fundamentals of Movement — Tap.** (1 credit). This course provides instruction and participation in tap dancing, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).

**PHED 226A. Fundamentals of Movement — Aerobic Dance.** (1 credit). This course provides instruction and participation in aerobic dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.



**PHED 226B. Fundamentals of Movement — Disco & Country/Western.** (1 credit). This course provides instruction and participation in disco and country/western dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 226C. Fundamentals of Movement — Ballet.** (1 credit). This course provides instruction and participation in ballet, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 226D. Fundamentals of Movement — Jazz Exercise.** (1 credit). This course provides instruction and participation in jazz exercise, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 226E. Fundamentals of Movement — Modern Dance.** (1 credit). This course provides instruction and participation in modern dance, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week).

**PHED 226F. Fundamentals of Movement — Jazz.** (1 credit). This course provides instruction and participation in jazz, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of class instruction and participation per week).

**PHED 226G. Fundamentals of Movement — Tap.** (1 credit). This course provides instruction and participation in tap dancing, and it includes a brief study of the history and philosophy of the dance. (3 laboratory hours of instruction and participation per week).

**PHED 237. Bowling.** (1 credit). This course meets the needs of both the beginning and the advanced bowler. After a four week instruction period, a class league forms with students receiving experience in league etiquette, procedures, scoring, etc. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 238. Bowling.** (1 credit). This course meets the needs of both the beginning and the advanced bowler. After a four week instruction period, a class league forms with students receiving experience in league etiquette, procedures, scoring, etc. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 251A. Team Sports — Football and Soccer.** (1 credit). This course includes class instruction and participation in football and soccer. (3 laboratory hours per week). *Prerequisite:* sophomore standing.

**PHED 251B. Team Sports — Volleyball and Softball.** (1 credit). This course includes class instruction and participation in volleyball and softball. (3 laboratory hours per week). *Prerequisite:* sophomore standing.

**PHED 252A. Team Sports — Volleyball and Basketball.** (1 credit). This course includes class instruction and participation in volleyball and basketball. (3 laboratory hours per week). *Prerequisite:* sophomore standing.

**PHED 252B. Team Sports — Volleyball and Softball.** (1 credit). This course includes class instruction and participation in volleyball and softball. (3 laboratory hours per week). *Prerequisite:* sophomore standing.

**PHED 265. Aerobic Exercise.** (1 credit). This course consists of a planned program of exercise to provide a condition of fitness and figure improvement through increased cardio-vascular activity and large muscle exercise. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

PHED 266. Aerobic Exercise. (1 credit). This course consists of a planned program of exercise to provide a condition of fitness and figure improvement through increased cardio-vascular activity and large muscle exercise. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

**PHED 266. Aerobic Exercise.** (1 credit). This course consists of a planned program of exercise to provide a condition of fitness and figure improvement through increased cardio-vascular activity and large muscle exercise. (3 laboratory hours of class instruction and participation per week). *Prerequisite:* sophomore standing.

#### VARSITY SPORTS

**PHED 131, 132. Varsity Volleyball.** (1 credit each). These courses are for advanced volleyball players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 161, 162. Varsity Tennis.** (1 credit each). These courses are for advanced tennis players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 171, 172. Varsity Baseball.** (1 credit each). These courses are for advanced baseball players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 181, 182. Varsity Basketball.** (1 credit each). These courses are for advanced basketball players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 191, 192. Varsity Golf.** (1 credit each). These courses are for advanced golf players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 231, 232. Varsity Volleyball.** (1 credit each). These courses are for advanced volleyball players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 261, 262. Varsity Tennis.** (1 credit each). These courses are for advanced tennis players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 271, 272. Varsity Baseball.** (1 credit each). These courses are for advanced baseball players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 281, 282. Varsity Basketball.** (1 credit each). These courses are for advanced basketball players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

**PHED 291, 292. Varsity Golf.** (1 credit each). These courses are for advanced golf players who are competing on the collegiate level. (3 laboratory hours per week). *Prerequisite:* instructor approval.

#### THEORY COURSES:

**PHED 110. Foundations of Physical Education.** (3 credits). Designed for professional orientation in physical education, health, and recreation, this course includes a brief history and a study of the philosophy and modern trends of physical education, teacher qualification, vocational opportunities, and skill testing. (3 lecture hours per week).

**PHED 111. Physical Education for Elementary School Teachers.** (3 credits). An introduction to the content and principles of organizing, conducting, and evalu-



ating physical education experiences for the early childhood and elementary program. Instruction and participation in fundamental movements, skills, and games will be included. (3 lecture hours per week).

**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).

**HED 230. Athletic Injuries.** (3 credits). This course in the practical and theoretical study of massage, taping, bandaging, care of sprains, bruises, strains, and wounds acquaints the student with the problems of the athletic training room, and it provides him/her with the practical instruction needed to aid in the solutions of these problems. (3 lecture hours per week).

**PHED 240. Sports Appreciation for the Spectator.** (3 credits). This is an elective course for all students who desire a broader knowledge of major and minor sports. The course includes rules, terminology, and the finer points of many sports. (3 lecture hours per week).

## PHYSICS

Dick Graef, *Department Chairperson*

**PHYS 111. Physical Science I.** (4 credits). This survey course of the physical science field presents topics from physics, chemistry, geology, astronomy, and meteorology. Experiments illustrate the philosophy and methods of science. This course meets the needs of non-science majors. (3 lecture and 2 laboratory hours per week).

**PHYS 112. Physical Science II.** (4 credits). This course continues the survey of the physical science field, and it presents topics from physics, chemistry, geology, astronomy, and meteorology. Experiments illustrate the philosophy and meth-

ods of science. This course meets the needs of non-science majors. (3 lecture and 2 laboratory 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 133. Technical Physics I.** (4 credits). This course includes instruction in motion, Newton's laws, sound, electricity, and magnetism. The course introduces the student to atomic structure, inorganic reactions, bonding, organic nomenclature, heat, spectra, and optical instruments. The course meets the needs of students in the technology program who need a fundamental understanding of physics and chemistry. (3 lecture and 3 laboratory hours per week). *Prerequisite:* MATH 110 or equivalent.

**PHYS 134. Technical Physics II.** (4 credits). This course continues the study of motion, Newton's laws, sound, electricity, and magnetism. The course introduces the student to atomic structure, inorganic reactions, bonding, organic nomenclature, heat, spectra, and optical instruments. The course meets the needs of students in the technology program who need a fundamental understanding of physics and chemistry. (3 lecture and 3 laboratory hours per week). *Prerequisite:* MATH 110 or equivalent.

**PHYS 141. Mechanics and Heat.** (3 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 hours per week). *Corequisites:* MATH 212 or MATH 214.

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

**PHYS 243. Wave-Motion, Sound, Light.** (3 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 hours per week). *Prerequisite:* PHYS 242.

**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 110. Human Development.** (3 credits). This course employs the basic principles of psychology and helps the student to identify personal strengths and career interests and to develop those interpersonal skills necessary for functioning in the student's chosen field or vocation. The course identifies and builds upon the student's strengths, especially as these are related to diverse cultural and/or native language capabilities that may help assure success in the student's chosen field or vocation. (3 lecture hours per week).

**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.

**PSYC 260. Human Development: Biofeedback Training.** (3 credits). This course provides the student with some simple skills in self-control through the use of biofeedback equipment. It provides a means for learning appropriate responses to stress and for improving the individual's self-concept. (2 lecture and 2 laboratory hours per week).

## READING

Lynda Vern, *Department Chairperson*  
Dickie Fox

**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. 214 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). Aims at mastery of the principles of Gregg shorthand with drills in the correct formation of work outlines and phrase forms; the study of word signs, phrasing, dictation, transcription, and speed building. (3 lecture and 2 laboratory hours per week).

**SECT 121, 122. Typewriting I, II.** (3 credits each). The typewriting keyboard and skills essential to obtain employment in an office occupation. 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 and the application of positive qualities in written and oral communications. (3 lecture hours per week).

**SECT 140. Secretarial Practice.** (3 credits). A study of secretarial occupations and secretarial duties in the business office including handling of mail, filing, personality and human relations, grooming, and office routine. (3 lecture and 2 laboratory hours per week). *Prerequisite:* SECT 112.

**SECT 141. Medical Secretarial Practice.** (3 credits). A study of the duties of a medical secretary with actual practice given 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). Study of human anatomy, skeletal structure, systems of the body, and medical specialties, coupled with lectures,



study guides, tests and exercises designed to insure knowledge of the components in building medical vocabulary and application thereof. (4 lecture hours and 1 laboratory hour per week).

**SECT 143. Legal Secretarial Practice.** (3 credits). A study of the duties of legal secretary. Special attention is given 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). Course objectives are to insure 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 210. Shorthand III.** (3 credits). Improvement of shorthand speed and office efficiency through practice. Further emphasis is given to widening vocabulary. Accurate transcription is stressed. (3 lecture and 2 laboratory hours per week). *Prerequisite:* SECT 112.

**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. *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). A study of basic filing procedures and records control, providing 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). Office simulation of business typing, transcribing, and production work utilizing equipment currently found in word processing centers. Develops concept of word processing in business for both the administrative secretary and the corresponding secretary. 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). A further 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

Roberto 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 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 211. Advanced Conversation and Composition.** (3 credits). This course furthers the student's study and use of Spanish after the fourth semester of college study in the language. (3 lecture hours per week). *Prerequisite:* instructor approval.

**SPAN 212. Advanced Conversation and Composition.** (3 credits). This course is a continuation of SPAN 211. (3 lecture hours per week). *Prerequisite:* 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). 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 and basic shop practice. 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). Metal cutting with oxygen and acetylene equipment. Theory of plate welding. 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). Advanced theory of plate welding. Plate welding in five positions: flat, vertical up, horizontal, vertical down, and overhead. Root and Face Bend tests for qualifications of plate welders. 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). Theory of Tungsten Inert Gas Welding and Metallic Inert Gas Welding. Laboratory experiences 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). An introductory course in safety to be used while in the shop or on the job. Shop and job safety will be taught and carried out at all times. (1 lecture and 2 laboratory hours per week).

**WELD 231. Advanced MIG and TIG.** (4 credits). Advanced theory of Tungsten Inert Gas Welding and Metallic Inert Gas Welding. Advanced laboratory experiences 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). Introduction to design and construction of various types of layouts according to specifications. Related welding experiences involved 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). Advanced design and construction of various types of layouts according to specifications. Related welding experiences involved 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). Theory of pipe welding. Cutting and beveling pipe with oxygen and acetylene equipment. 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). Advanced theory of pipe welding. Pipe welding in four positions: Rolling, horizontal, downhill, and overhead. Code test under Section IX, A. W. S. (2 lecture and 6 laboratory hours per week). *Prerequisite:* WELD 251 or approval of department chairperson.

See p. 215 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. 50-51), 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 will acquaint 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). An introduction to the gasoline internal combustion engine. Technique and skill in inspection, repairing and overhauling of engine components, valve timing, 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 into the fundamentals of electricity as applied to the automotive vehicle. 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). A study of fuels and their applications, requirements, and effect on carburetion. Students will 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). A study of designs, construction, and frame alignment fundamentals of the vehicle chassis. Classroom theory and laboratory practices will 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 computer and their capabilities and limitations are discussed. Application of computers in business, industry and society will be explored. (3 lecture and 7 laboratory hours per week).

**CSCI 105. Micro-Computer Programming—BASIC.** (4 credits). 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 will be 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 will be placed on database structure, data integrity, and user functionality. (3 lecture and 7 laboratory hours per week).

**CSCI 225. Data Base Systems.** (4 credits). An introduction to data-based management system, data organization and structure, and data-base design: the student will use a query language for business applications. (3 lecture hours and 7 laboratory hours).

#### \*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. Topics include: 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). A basic course 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). A course designed to cover 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). An introduction to electrical schematics and diagrams. Also covers basic electricity and 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). 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). Theory and application of electronics from basic through transmitters and antennas. Lab includes application, operating and testing of communication equipment. (3 lecture and 7 laboratory hours per week).

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

**RATV 120. Basic Television Receivers.** (4 credits). Study of television circuits as applied to the black and white home and industrial closed circuit receivers. Servicing experiments in lab will be 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). The study of color television circuits as they are applied to the modern receiver. The student will study color, mixing both additive and subtractive methods, requirement 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). A course of study designed for the technician who is familiar with television circuitry and wants to progress to advanced servicing techniques. 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). 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 and basic shop practice. Basic welding machine theory and set up procedures of electrical arc welding machine. This course will also include an introduction to shop and job safety. (3 lecture and 6 laboratory hours per week).

**WELD 120. Arc Welding (Plate I).** (4 credits). Metal cutting with oxygen and acetylene equipment. Theory of plate welding. Plate welding in three positions: flat, vertical up, and horizontal. (3 lecture and 6 laboratory hours per week).

**WELD 123. Arc Welding (Plate II).** (4 credits). Advanced theory of plate welding. Plate welding in five positions: flat, vertical up, horizontal, vertical down, and overhead. Root and Face Bend tests for qualifications of plate welders. Advanced theory and troubleshooting procedures for electronic arc welding machines. (3 lecture and 6 laboratory hours per week).

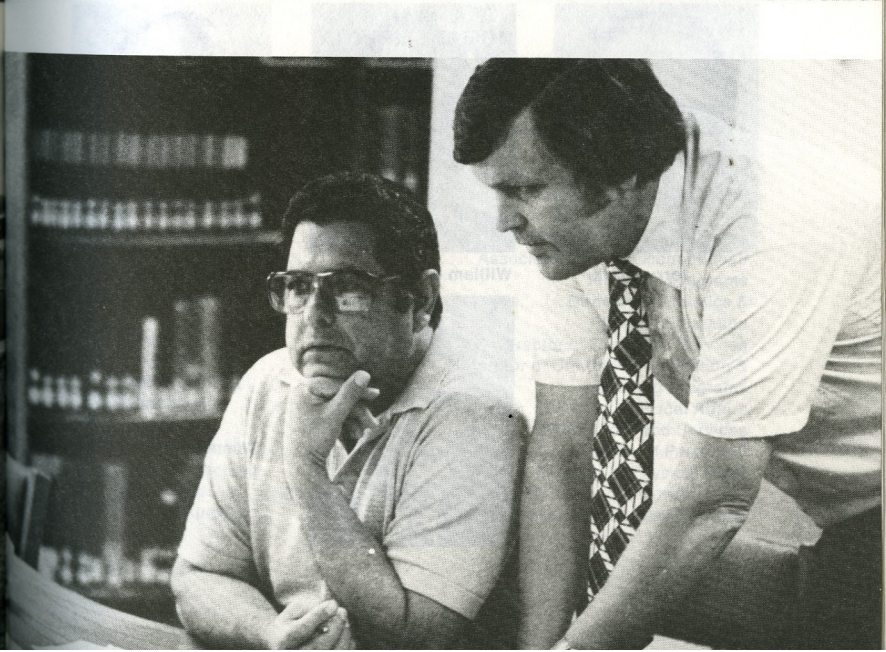
**WELD 253. Pipe Welding I.** (4 credits). Theory of pipe welding. Cutting and beveling pipe with oxygen and acetylene equipment. Pipe welding in two positions: Rolling and horizontal. (3 lecture and 6 laboratory hours per week).

**WELD 254. Pipe Welding II.** (4 credits). Advance theory of pipe welding. Pipe welding in four positions will be studied: Rolling, horizontal, downhill, and overhead. (3 lecture and 6 laboratory hours per week).

\*Courses offered only at the Texas Department of Corrections.











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Board Chairman



Ben Jernigan D.D.S.  
Board Vice-Chairman



Doyle Swindell  
Board Secretary



James B. DeWitt



Elmer Dezso



Carl Ellis



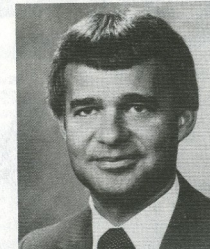
Jerry Jircik



William McDaniel, M.D.



M.B. Ward



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M.A., Sam Houston State University
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A.B., Bethany Nazarene College  
M.S., University of Houston—Clear Lake
- Don R. Armstrong ..... Instructor of Computer Science  
B.A., University of Texas  
M.S., University of Houston
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M.S., Indiana State University
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M.Ed., Texas Christian University
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- Crystal Brittingham ..... Instructor of Secretarial Science  
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M.Ed., University of Houston
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- Donald E. Brown ..... Instructor of Mathematics  
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B.S., Southwest Texas State University  
M.A., Southwest Texas State University  
Ph.D., Texas A&M University
- James A. Brown ..... Director of Instructional Services  
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M.S., Abilene Christian University  
Ed.D., East Texas State University
- Lemuel Bruner ..... Instructor of Welding



Thomas L. Bryan ..... Instructor of History  
 B.A., Arkansas Polytechnic College  
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 Education/Baseball Coach  
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 M.Ed., University of Houston

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 M.A., University of North Carolina at Chapel Hill  
 Ph.D., Florida State University

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 B.S., Ottawa University

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 M.S.L.S., University of Southern California

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 M.A., Sam Houston State University

Linda Sue Chaput ..... Director of Continuing Education &  
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 M.S.W., Warden School of Social Service

Don Childs ..... Department Chairperson of Physical Education  
 Director of Athletics  
 B.S., Southwest Texas State University  
 M.Ed., Southwest Texas State University

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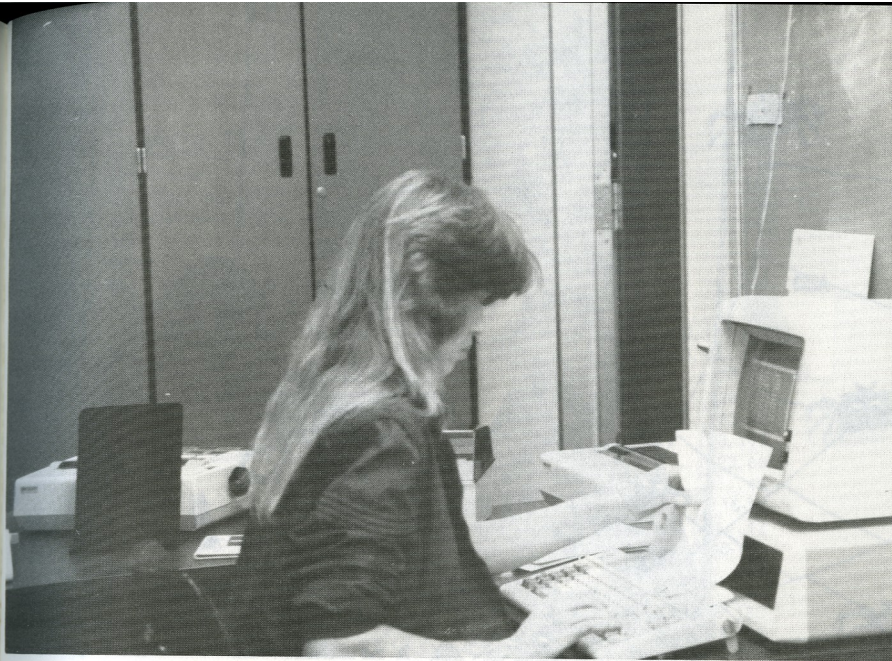
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## INDEX

Academic Calendar .....	4-5
Academic Probation .....	18
Accounting .....	71-72, 144
ACT Test Dates .....	20
Administration .....	219
Administrative Interpretation and Change .....	16
Admission .....	30-34
Adult Basic Education .....	141
Agriculture .....	145
Air Conditioning and Refrigeration .....	73-74, 119-120, 145-147
Arts .....	52-53, 147-148
Associate in Applied Arts Degree .....	23, 61
Associate in Applied Science Degree .....	23, 71
Associate in Arts Degree .....	23, 50
Associate in General Studies Degree .....	23, 118
Associate in Science Degree .....	23, 65
Athletics .....	45
Attendance .....	16-17
Audit .....	17
Automotive Technology .....	74-75, 120-121, 148-149
Award of Achievement—Developmental Studies .....	138
Banking—See Mid-Management/Bank Specialization	
Biology/Biological Science .....	65-66, 150
Board of Trustees .....	218-219
Bookstore—See College Store	
Business Administration .....	67-68, 150-151
Cafeteria .....	46
Calendar—See Academic Calendar	
Campus Map .....	239
Certificate Programs .....	119
Chemical Technology .....	75-77
Chemistry .....	151-152
Child Care and Development .....	77-79, 121, 152-153
Child Care Laboratory School .....	41
Classification of Students .....	16
Co-Curricular Activities .....	46
College Store .....	46
Communications/Radio Broadcasting .....	61-62, 122, 153-155
Communications/Sound Reinforcement and Recording .....	62-63, 122-123, 153-155
Communications/Television .....	64, 123, 153-155
Compliance Statements .....	18-19
Computer Science/Computer Programming .....	79-81, 156-157
Computer Science/Computer Systems Technology .....	81-83, 156-157
Computer Science/Data Processing .....	123-124, 156-157
Continuing Education Program .....	139-140
Core Curriculums .....	25-26
Correctional Science—See Criminal Justice/Correctional Science	
Correspondence Directory .....	6
Counseling .....	40
Course Waiver .....	20
Court Reporting .....	83-86, 129-130, 157-160
Credit By Examination .....	19
Credit for Non-Traditional Educational Experience .....	20

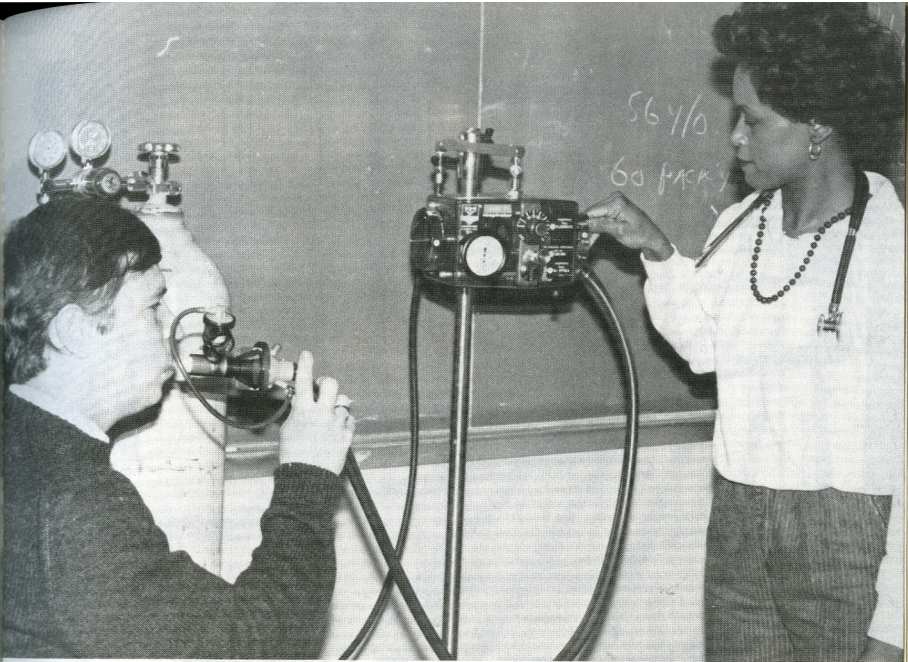


Criminal Justice/Correctional Administration	124-125, 160-162
Criminal Justice/Correctional Science	86-88, 125-126, 160-162
Criminal Justice/Law Enforcement	89-90, 126-127, 160-162
Czech	162
Data Processing—See Computer Science/Data Processing	
Dean's List	18
Definitions of Academic Terms	24-25
Degrees and Certificates	23
Developmental Studies	41, 138, 168, 179-180, 206-207
Directory—See Correspondence Directory	
Disabled Student Services	42
Disclaimer Statement	22
Drafting Technology	90-91, 127-128, 162-164
Drama	53-54, 164-165
Drops and Withdrawals	17-18
Economics	165-166
Electronic Technology	92-93, 128-129, 166-167
English	168-169
English As a Second Language	141
Enrollment Procedure	7
Facilities	11-12
Faculty	220-229
Fashion Merchandising—See Mid-Management/Fashion Merchandising	
Financial Aid	43-44
French	171
Full and Provisional Acceptance	31
General Education Development (GED)	141
General Liberal Arts	50-51
General Provisions	25-26
Geography	171
Geology	171
German	172
Government	172
Grading System	21
Graduation Honors	22-23
Graduation Policy	23
Graduation Requirements	24
Graduation Under a Particular Catalog	23
Grievance Procedure	22
History	177
History of ACC	10-11
Horticulture	177-178
Humanities	178-179
International Students	31-32
Journalism	179
Law Enforcement—See Criminal Justice/Law Enforcement	
Learning Laboratory	41
Library	40-41
Map of Area	240
Map of Campus	239
Mathematics	68-69, 179-182
Medical Laboratory Technology	93-96, 172-174
Merit List	18
Mid-Management	96-97, 130-131, 182-183
Mid-Management/Bank Specialization	98-99, 130-131, 183-184
Mid-Management/Fashion Merchandising	99-101, 130-131, 169-170

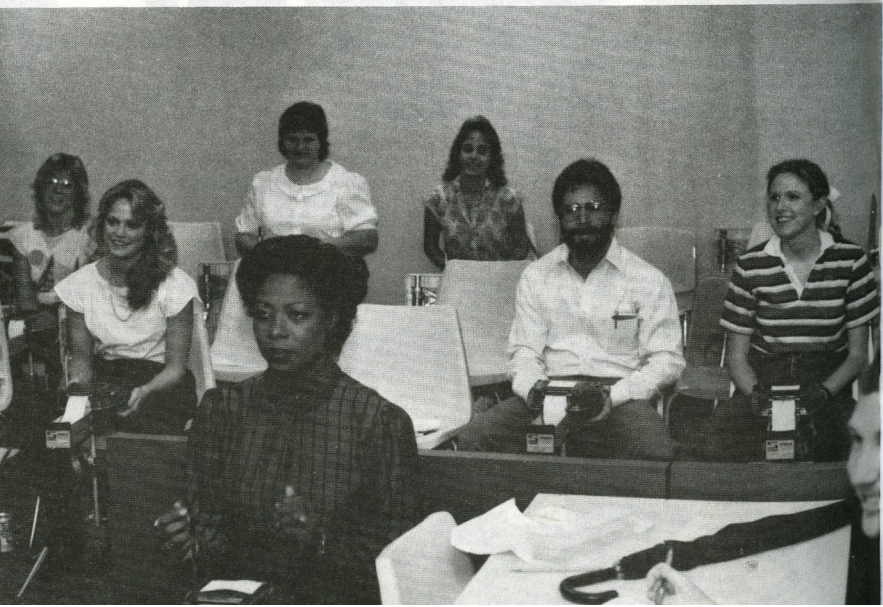
Mid-Management/Production Specialization	101-102, 130-131, 185
Mid-Management/Real Estate Specialization	102-103, 130-131, 185-186
Mid-Management/Retail Specialization	103-104, 130-131, 186-187
Music/Instrumental	55-56, 187-191
Music/Voice	56-57, 187-191
Musical Theatre	57-59
New Student Orientation	41-42
Normal Academic Load	17
Nursing Assistant	132
Nursing, Associate Degree	104-107, 191-193
Nursing, Vocational	135-136, 193-194
Nursing Transition	107-108, 191-193
Nutrition	194
Orientation	194
Parking	46
Physical Education	59-60, 194-204
Physical Education Requirement	21
Physical Fitness Center	46
Physical Science	69-70
Physics	204-205
Placement Service	45
Placement Test	31
Probation—See Academic Probation	
Production—See Mid-Management/Production Specialization	
Psychology	206
Purpose	10
Radio Broadcasting—See Communications/Radio Broadcasting	
Reading	206-207
Real Estate—Mid-Management/Real Estate Specialization	
Recognition	12
Recording—See Communications/Sound Reinforcement and Recording	
Records on Hold	19
Refund Policy	39-40
Residence Classification	33
Residence Status	33
Respiratory Therapy Technology	109-112, 132-133, 175-176
Retail—See Mid-Management/Retail Specialization	
Scholarships	45
Second Degree or Certificate	24
Secretarial Science	112-116, 133-136, 207-209
Secretarial Science/Executive	112-113, 207-209
Secretarial Science/General Office Worker	133-136, 207-209
Secretarial Science/Legal	114-115, 207-209
Secretarial Science/Medical	115-116, 207-209
Secretarial Science/Stenographer	134-135, 207-209
Senior Citizens	17
Sociology	209
Spanish	209-210
Special Fees	38
Speech	210
Student Handbook	46
Student Records Policy and Procedure	22
Television—See Communications/Television	
Texas Department of Corrections Programs	212-215
Texas Department of Corrections/Automotive Technology	212
Texas Department of Corrections/Computer Science	213
Texas Department of Corrections/Drafting	213-214



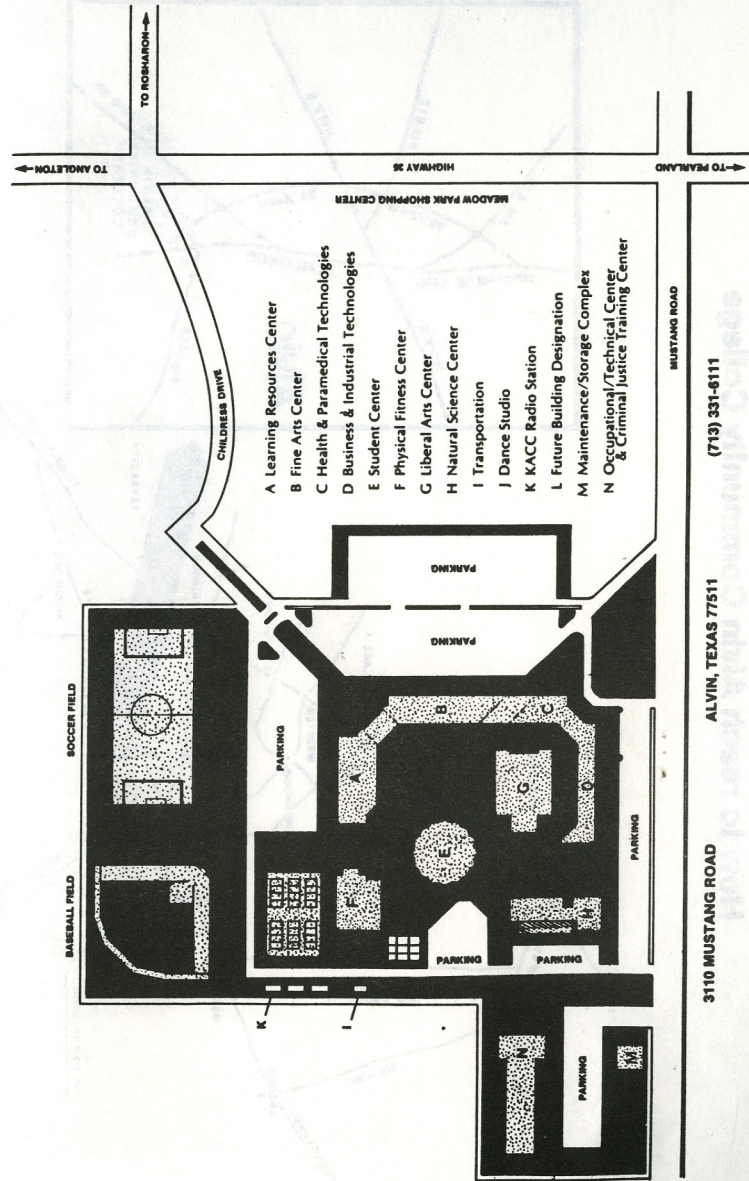
Texas Department of Corrections/Horticulture ..... 214  
 Texas Department of Corrections/Radio and Television Repair ..... 214-215  
 Texas Department of Corrections/Welding ..... 215  
 Texas Vocational Rehabilitation ..... 42-43  
 Transfer Credit ..... 20  
 Tuition and Fees Schedule—Fall and Spring ..... 36  
 Tuition and Fees Schedule—Summer ..... 37  
 Veterans Administration Benefits ..... 42  
 Vocational Nursing—See Nursing, Vocational  
 Welding ..... 116-117, 137, 211





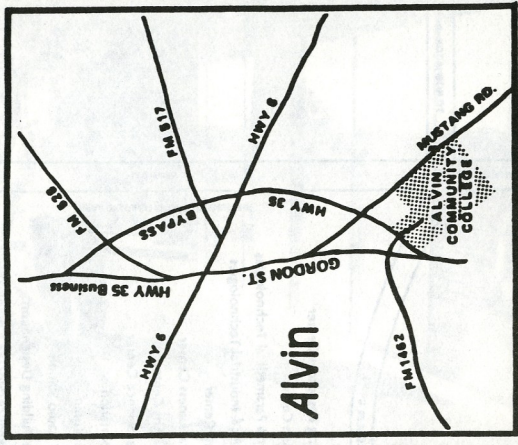
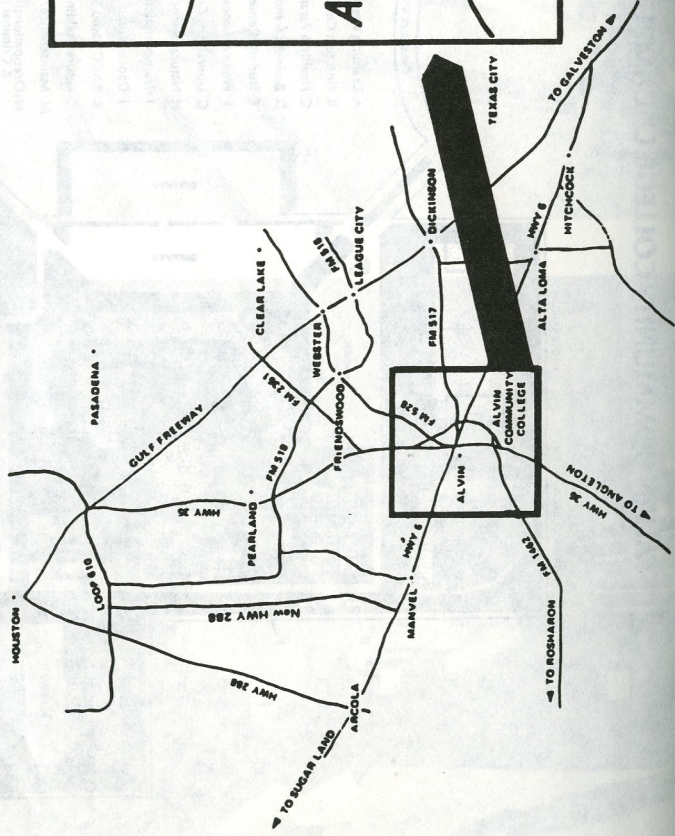


**ALVIN COMMUNITY COLLEGE □ CAMPUS MAP**



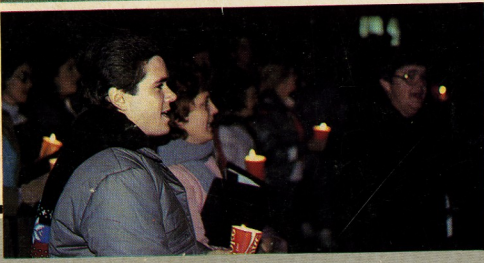
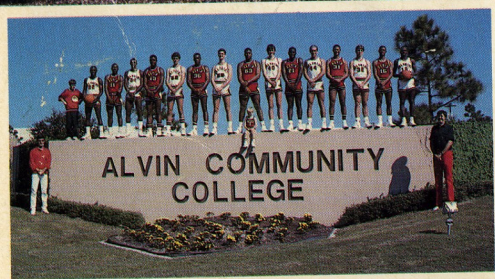


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