Central Texas College





1971-1973 CATALOGUE

Central Texas College

"Whoever increases knowledge multiplies the uses to which he is able to turn the gift of his Creator."

--- John Quincy Adams

36TH PRESIDENT OF THE UNITED STATES DEDICATES CENTRAL TEXAS COLLEGE

An excerpt from the speech delivered by the President of the United States, Lyndon Baines Johnson, at the dedication of this College Dec. 12, 1967:

". . just as our country lived through a great age of exploration in the last century, we have entered in this century another age. It will be remembered—I hope you are remembered with it—as the age of advancement, as the era of education.

"This college is proof of that.

". we come here today to dedicate this college . . to dedicate it forever to the service of the people, and to the progress of America."



An excerpt from the speech delivered by the President of Central Texas College, Dr. Luis M. Morton, Jr., introducing the President of the United States, Lyndon Baines Johnson:

"How fitting it is that one so concerned with the cause of education and so dedicated to the welfare of our servicemen should dedicate a college so committed to helping not only our local citizens, but also the men in uniform who come from all parts of this Nation. No greater honor could come to Central Texas College than to have The President of the United States of America dedicate this new and dynamic institution of higher learning. The honor is doubly significant because the man who holds this highest office is a great humanitarian—dedicated to the causes of freedom, peace, and education in our land and throughout the world."

Central Texas College

A Public Co-Educational Institution Fourth General Catalogue 1971-1973

ACCREDITED BY

SOUTHERN ASSOCIATION OF COLLEGES AND SCHOOLS

APPROVED BY

COORDINATING BOARD,
TEXAS COLLEGE AND UNIVERSITY SYSTEM
TEXAS EDUCATION AGENCY

Listed in REPORT OF CREDIT GIVEN

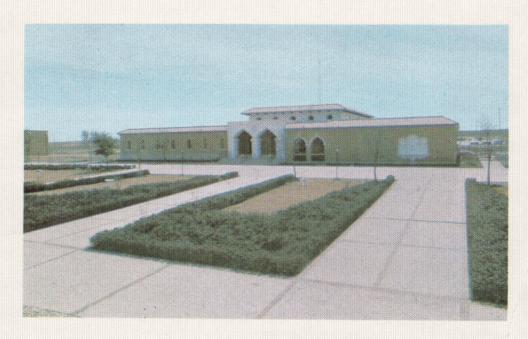
by AMERICAN ASSOCIATION OF COLLEGIATE REGISTRARS AND ADMISSIONS OFFICERS

MEMBER OF

ASSOCIATION OF TEXAS COLLEGES AND UNIVERSITIES
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The Oveta Culp Hobby Memorial Library



Nursing Building



A Resident Hall Bedroom



Dining Area in the Student Service Occupations Center

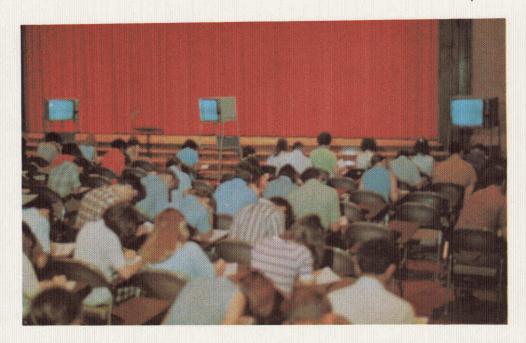


KNCT-FM Radio 91.3 mhz
(Located within the Lady Bird Johnson Center for the Performing Arts)



KNCT — Ch. 46

(Located within the Lady Bird Johnson Center for the Performing Arts)



Instructional television



Computer Center at Central Texas College





The 36th President of the United States, Lyndon Baines Johnson, addressed an enthusiastic crowd of students and guests during a dedication ceremony of a Presidential Memorial on Dec. 10, 1970. The Presidential Memorial is located in the center of the Central Texas College campus.





Mrs. Lyndon Baines Johnson accepts the Lady Bird Johnson Center for the Performing Arts, named in her honor, during dedication ceremonies on Dec. 10, 1970.



A
Message
from the
President

It is with great enthusiasm and sincere emotion that I welcome each of you to Central Texas College. The founding students contributed so much to this fresh and dynamic institution of higher learning. They began new traditions and showed their love and devotion for Central Texas College. This can be seen clearly by the many landmarks of beauty which they have left for you. Yet, those of you who come for the first time will find the work of building and molding this institution has truly just begun. Yours will be the task of laying not only the cornerstones to new buildings, but of erecting enduring values which will benefit humanity.

When the 36th President of the United States, Lyndon Baines Johnson, honored us by dedicating Central Texas College, he did so to the service "of all the people". By this he meant that it was the sacred duty of everyone associated with this institution to do everything in their power to help as many people as would be humanly possible, to the end that they too become productive citizens of this great society and share in the happiness which comes with achievement and success.

You will be called upon on more than one occasion to show your worth by the master of your academic tasks, by your respect for the rights of all, and by abiding by the laws which regulate this nation, this state, and this college. The words, "Discipline and Dedication" as they are found on the Seal of Central Texas College have deep significance in the philosophy and history of the United States. To many of the people who helped establish this college, they mean simply that each of us does the best that he can to serve each other within the limits of the talents God has given us.

To my generation, which has already received so many, many benefits from this land, we say to those who preceded us: "Thank you for your heritage." To the younger generation whom we strive to serve, we say: "Help us to continue the task of education and leadership passed on to us." As you pass the tower at the front of the College, stop for a moment and read the plaque on which you will find these words inscribed: "Every generation sacrifices for the next." I feel sure it was intended to remind both young and old that each has a strong obligation to serve humanity.

Thank you.

Respectfully,

LUIS M. MORTON, JR.

President

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> MRS. RUTH H. REYNOLDS Director of Library Services

NOEL H. SCHNITZ Assistant Director of Library Services





Debbie Sublousky—a Telecommunications major at Central Texas College.

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TENTATIVE CALENDAR 1971-1972

FALL SEMESTER

1971

July 5 to August 23 August 23	Faculty In-Service Meetings
August 24	Faculty Departmental Meetings
August 25	Dormitory Students Report
August 26	Student Orientation for All
	New Day College Students
August 27	Registration
August 30	
September 6	Labor Day Holiday
October 25	
November 25-28	Thanksgiving Holidays
November 29	Instruction Resumes
December 15	Instruction Ends
December 16-22	Final Examinations
December 22	Fall Semester Ends

SPRING SEMESTER

1972

January	13]	F٤	c	ul	ty	Ilty In-Service Meeting Departmental Meeting	S
															Registratio	
April 3-7	7														Spring Vacation	n
															Instruction Resume Final Examination	
															Graduation Exercise	

SUMMER SESSIONS

1972

First Six-Weeks and Twelve-Weeks Terms

June 5	
June 6	Instruction Begins
July 4	Legal Holiday
	Final Examinations for First Six-Weeks Term
	First Six-Weeks Term Ends
	Final Examinations for Twelve-Weeks Term
August 24	Twelve-Weeks Term Ends

Second Six-Weeks Term

July 14	Registration
July 17	Instruction Begins
August 24	Final Examinations for Second Six-Weeks Term
August 24	Second Six-Weeks Term Ends

TENTATIVE CALENDAR 1972-1973

FALL SEMESTER

1972

July 10 to August 25 August 29 August 30 Fa	Faculty In-Service Meetings culty Departmental Meetings
August 30	
August 31	
Santambar 1	New Day College Students
September 1 September 4	Lobor Doy Holiday
September 5	Instruction Rogins
October 23	
November 23-26	
November 27	
December 15	
December 18-22	
December 22	

SPRING SEMESTER

1973

January	11	 	 		 				 . ,	Ι	₹a	c	ul	tу	•	Ď	In-Service Meetings epartmental Meetings
January	12	 	 		 	 	. ,		 								Registration
January	15	 	 		 												Instruction Begins
April 16	-20	 	 		 												Spring Vacation
April 23			 			 			 								Instruction Resumes
May 4		 	 			 			 				٠.				Instruction Ends
May 7-11	L	 	 		 . ,												Final Examinations
May 12		 	 			 	Ţ,		 		٠.					. (Graduation Exercises

SUMMER SESSIONS

1973

First Six-Weeks and Twelve-Weeks Terms

June 1	
June 4	Instruction Begins
July 4	Legal Holiday
July 12	Final Examinations for First Six-Weeks Term
	First Six-Weeks Term Ends
	Final Examinations for Twelve-Weeks Term
August 24	Twelve-Weeks Term Ends

Second Six-Weeks Term

July 13	Registration
July 16	Instruction Begins
August 23	Final Examinations for Second Six-Weeks Term
August 23	Second Six-Weeks Term Ends

GENERAL INFORMATION

LOCATION OF CAMPUS

Central Texas College is a public two-year institution. It is located on U.S. Highway 190 between Killeen, Texas, and Coperas Cove, Texas. The population in a ten-mile radius of Killeen is estimated to be 125,000. The 560-acre campus is within minutes of streams and lakes in what is considered to be an outstanding recreational area.

HISTORICAL BACKGROUND

The Central Texas College District was created in July, 1965, and is composed of the Killeen Independent School District, the Copperas Cove Independent School District, and the Nolanville Common School District. The bond issue to construct and equip the plant followed in October, 1965. In January, 1966, the Board of Trustees employed the President of the College, and offices were opened in Killeen. The first several months were spent establishing the legal, financial, and academic framework for the College. Final plans and specifications for some of the buildings were completed in June and July of 1966; and the architect was given instructions to begin construction of a Library Building, a Science Building, an Academic Classroom Building, a Technology Building, a Physical Education Building, an Administration Building, a Student Center and a Maintenance Technology Building. A Telecommunications Building was added in 1967, two dormitories were added in 1968, and in 1970, the Lady Bird Johnson Center for the Performing Arts was completed.

Nursing facilities were completed in April, 1971. All plant facilities are air-conditioned.

Central Texas College opened its doors for the first time in September, 1967, and over 2000 students enrolled to become the historic first student body. The College was tabbed by national news media as the "Cinderella Story."

On December 12, 1967, the College received its greatest honor when the 36th President of the United States, Lyndon Baines Johnson, came and dedicated the College "... to the service of all the people..." On this same date the College was honored by the presence of Mrs. Oveta Culp Hobby, for whom the College Board of Trustees dedicated the College library. President Johnson joined in the dedication and ribbon cutting ceremony for the Oveta Culp Hobby Memorial Library.

Three years following the dedication of the College, a Citizen's Advisory Committee, under the direction of Mr. Roy

J. Smith and Mr. Ted C. Connell, both of Killeen, presented a written request to the Board of Trustees of the College to honor the former President from Texas. How fitting it would be to build a memorial to the thirty-sixth President of the United States, who earlier had remarked to a crowd of over 30,000 at Central Texas College in 1967, that Central Texas College was proof of the fact that America had entered the age of education in this century.

Mr. Roy J. Smith reminded the Board of Trustees that, "It is a spontaneous expression of appreciation by the people of the area toward the first United States President from Texas." Mr. Smith went on to say, "The Lyndon Baines Johnson Memorial would be a gift from the people of Central Texas."

It was after the local citizens' request to build the Presidential Memorial that the Board passed a motion that the new Fine Arts Building be dedicated to Lady Bird Johnson. It was the former First Lady who began a very dynamic program of beautification throughout America. The building is a reminder of Mrs. Johnson's interest and concern for beautifying America.

On a windy December morning almost three years to the date, December 10, 1970, to be exact, Former President Johnson and Lady Bird Johnson returned to Central Texas College for dedication ceremonies in their honor. They were greeted by friendly faces, outstretched hands, and an obvious warmth from young and old alike. The Presidential Memorial, constructed on red granite and white marble with bronze lettering, was unveiled by Former President Johnson. The inscription on the Memorial reads, "History shall record that Lyndon Baines Johnson, 36th President of the United States, was the good shepherd of his people . . . he dedicated his life to helping the poor, the neglected, the sick, the uneducated, and all those who sought equality, opportunity, and justice." The Memorial is located in the center of the College campus and is 25 feet long and 4 feet high. The Lady Bird Johnson Center for the Performing Arts is located only a few feet away from the Lyndon Baines Johnson Presidential Memorial. The beautiful Center contains a versatile main assembly and exhibition area with a continental seating arrangement for a variety of functions as well as classrooms and offices for the art and music departments. Millions of people will benefit from the Central Texas College educational radio and television stations, KNCT-TV-FM, located within this building.

EDUCATIONAL PHILOSOPHY

Central Texas College is dedicated to the philosophy that in a democracy the well-being of the individual, as well as the whole of society, depends upon the sound moral and educational development of its people. Since education is an individual, evolutionary, and never-ending process, the College curricula will necessarily be both flexible and extensive.

Seriousness of purpose, dedication to discipline, and the desire to learn enduring values will all be recognized as outstanding assets and earn the student the right to be helped. This is the desire and privilege of every employee of Central Texas College and helps insure the pursuit of high standards of achievement for student and faculty alike.

In order to insure the fullest service possible to the civilians of the surrounding area and to the personnel of the large military installations adjacent to the campus, Central Texas College will offer extensive and flexible curricula in the academic, technological, vocational, and adult education fields. The educational program will be geared to meet the needs of full-time as well as part-time civilian and military students. The College doors will remain open from early morning until late at night.

Central Texas College complies with Title VI of the Civil Rights Act of 1964. With respect to the admission and education of students, with respect to the employment and promotion of teaching and non-teaching personnel, with respect to student and faculty activities conducted on premises owned or occupied by the College, and with respect to student housing situated on premises owned or occupied by the College, Central Texas College shall not discriminate either in favor of or against any person on account of his or her race, creed, or color.

EDUCATIONAL OBJECTIVES

- 1. University Transfer Education—The College provides the first two years of college work for those students planning to achieve a Baccalaureate or higher degree.
- 2. General Education—The College provides general education courses which will develop competence, skills, and attitudes essential to effective performance as an individual, as a citizen, and as a productive member of society. Within this academic framework are studies in communication and languages, social sciences and humanities, mathematics, physical and social development, as well as a program of co-curricular activities.

- 3. Occupational Arts—The College provides courses which qualify students in vocational and/or technical fields, and equips them for occupational competency.
- 4. Area Service—The College provides life-long education for adults, opportunities for cultural enhancement, special interest courses, lectures, and meetings designed to satisfy the special needs of business, of the military, and of area groups.
- 5. Personal Guidance—The College provides guidance services which will enable the student to select with proper perspective the educational program that is compatible with his abilities, aptitudes, and ambitions.

TRANSFER OF CREDITS

Central Texas College is accredited by the Southern Association of Colleges and Schools. Credits will transfer in accordance with standard practices and degree requirements of other institutions.

Precautions will be taken to see that each student is enrolled for the proper courses. Although the ultimate responsibility rests with each student to decide upon the institution to which he wishes to transfer and to see that he takes the proper course(s), Central Texas College considers it also has an obligation to assist each student in the area of academic guidance.

WHY YOU SHOULD ATTEND CENTRAL TEXAS COLLEGE

- Central Texas College makes possible a less abrupt and less difficult transition from high school to university. With direct personal contact between teacher and student, the adjustment to college life and study is made easier and more pleasant.
- 2. Because most students may live at home and travel only a few miles to college, the cost of attending Central Texas College is much less than the cost would be for living away from home while attending college, even if a student should receive a \$1,000.00 scholarship from a larger college.
- 3. Dedicated teachers and counselors will give students maximum individual attention. Thus, the teacher may detect and help the student correct difficulties that might lead to failure and withdrawal from college.
- 4. Students who have subject or grade deficiencies for trans-

fer to senior institutions are given an opportunity to correct such deficiencies, thus enabling them to go on to the completion of a university education which would otherwise be denied.

- 5. Adults who have not graduated from high school may be admitted on individual approval in order to gain enrichment from college study.
- 6. A major advantage at Central Texas College is that students will gain valuable experience through participation in student activities which will give them self-reliance, leadership abilities, and ability to get along well with others. These qualities are most important for good citizenship and a successful life after completing college.
- 7. Regardless of ultimate goals, students at Central Texas College should be better persons for having mingled in classes and social activities with people who have lived and traveled internationally.
- 8. The students, faculty, and administration of Central Texas College are dedicated to quality education, sound aspirations, proper social development, and the general betterment of individuals and the world in which we live.
- 9. Central Texas College is a completely new and modern college with a distinctive character and personality. The campus is designed for maximum function and beauty. Students will find the scenery to be relaxing, as well as highly conducive to study and learning.

FLOW CHART SHOWING GOALS WHICH MAY BE CHOSEN BY STUDENTS AT CENTRAL TEXAS COLLEGE

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ity or Jollege	ment	Personal Growth and Enrichment also Employment	Job Up-Grading Personal Growth Degree Programs	A Regular Program or Employment	Enrichment and Personal Growth
University or Senior College	Employment	Persona and Enr also Em	Job Up- Persona Degree	A Regular Prog	Enrichn
Liberal Arts Pre-Professional	Secretarial Business Industry Technology	Liberal Arts Fine Arts	All fields and levels	Basic Courses "Repair" Courses	Cultural Activities
(1) Transfer Programs	(2) Semi-Professional Programs	(3) General Education Programs	(4) Occupational Arts	(5) Opportunity Programs	(6) Community Service Programs
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		Interviews Testing Counseling Vocational and	Educational Guidance		/
		Students Entering the Open Door			
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ADMISSION REQUIREMENTS

Students who hold diplomas from accredited secondary schools may enter Central Texas College upon the presentation of certified credentials. Students transferring from another college will be accepted if they are eligible to return to the transferring institution. Veterans and military personnel, as well as students of mature years who have not had the opportunity to complete a high school course, but who, by reason of special attainments, are prepared to undertake post high school work, may be admitted to certain areas of study if, in the judgment of College officials, such training will be of value to the student.

RECOMMENDED HIGH SCHOOL PROGRAM*

Subjects	Freshman	Soph.	Junior	Senior
ENGLISH	English	English	English	English
SOCIAL STUDIES		Elective	U.S. History	
MATHEMATICS	Algebra	Geometry	Advanced Algebra for science majors; recommended for others	Advanced Mathematics for science majors
FOREIGN LANGUAGE	Foreign Language	Continue the same language	(a) Continue the same language or(b) Begin another language	 (a) Recommend cont. same language or (b) Continue the second language
PHYSICAL EDUCATION	P.E.	P.E.	P.E.	P.E.
ELECTIVES t		nusic, and	ecollege students additional course ence.	

*This is a recommended program (not specifically required) as variations will exist in the requirements for graduation from different high schools.

Students expecting to specialize in foreign language, music, drama, or science in college should begin those subjects in high school. Students looking forward to a college major in the sciences, mathematics, medicine, business administration, law, music, or pharmacy should include in their high school curriculum at least two years of algebra, one year of plane geometry and in most cases, one or more years of biology, chemistry and physics. Students who plan to major in engineering should take solid geometry or trigonometry and analytical geometry in addition to the above listed math courses.

G.E.D. TEST

The General Educational Development Test will be administered in the Office of Student Services for persons over 19 years of age who are not high school graduates and who desire this certificate as an equivalent to the high school diploma.

WHAT TO DO BEFORE REGISTRATION

To insure that all requirements have been met for admission and permission to register you should:

- 1. Ask the Registrar of the last school you attended to send a transcript of your school record to the Records Office at Central Texas College. Do this at least two weeks before you come to register.
- 2. Arrange to take either the ACT (C.T.C. Code No. 4081) or the SAT (CEEB) (C.T.C. code No. R6130) college guidance examination and request that your scores be mailed to Central Texas College. Either the ACT or the SAT examination will be accepted, but the ACT is preferred. Students should take the examination as early as possible so that scores may be used for guidance at registration. There is no minimum score required for admission.
- 3. Obtain an application for admission, complete it, and return it to the Records Office.
- 4. Make an appointment with the Office of Student Services for an interview to obtain a copy of registration materials and secure assistance in planning your course program.
- 5. Pre-register at the College on the days established in the schedule bulletins.

Completion of the above items will facilitate your enrollment on registration day. Students who fail to complete the above in advance may be given permission to register by the Director of Student Services and will be on probationary status until all requirements have been met.

HEALTH CERTIFICATE

Recognizing the fact that good health and health practices contribute greatly to academic success, every student entering Central Texas College must provide a statement of his or her health status on a form supplied by the College. Personal hygiene requirements include proper grooming and the wearing of clean clothes and shoes.

CREDITS FOR MILITARY EDUCATIONAL EXPERIENCE

Military personnel eligible for the G.I. Bill will be exempt from taking PE courses. They will have the four PE requirements waived in their curriculum. After successful completion of 12 semester hours with a 2.00 (C) overall grade point average, service connected educational experience and credits received from formal service schools listed in the 1968 American Council on Education. A Guide to the Evaluation of Educational Experiences in the Armed Services, will be used to evaluate any additional college credits that might be applied toward a degree plan. Three other military testing programs may be used if adequate scores have been achieved on the test in the past six years. These tests are: U.S.A.F.I. Comprehensive College Tests. General Examinations, College Level General Educational Development (G.E.D.) Test and the newer College Level Examination Program (C.L.E.P.). Any student seeking credit for courses under the above criteria should present documented credentials prior to taking a course for which a prerequisite is required. Student applicants for advanced standing tests must present their credentials to the Office of Student Services and must receive prior approval of either the Technical-Vocational Director or the Academic Chairman for substitution of the courses in their degree plan at Central Texas College.

ADVANCED STANDING

In order to take an advanced standing examination, a student must be enrolled either full-time or part-time in a certificate or degree program with Central Texas College.

To obtain credit, the student must pass the examination with a grade of "A" or "B" and complete, or have completed, twelve semester hours course work at Central Texas College with a 2.0 grade point average.

Students who believe that they are eligible for advanced standing should make a request to the Director of Student Services.

DEGREES CONFERRED

Central Texas College will confer the degrees of Associate in Arts, Associate in Science, Associate in Applied Science,* and Associate in General Education.

^{*}B.B.A. majors may substitute one year of accounting for the one year of science or language to meet associate degree requirements. Senior college degree requirements vary considerably. Students should check the specific catalogue for exact requirements.

DEGREE REQUIREMENTS

Associate in Arts

Complete a minimum of sixty-one semester hours which must include:

- 1. Twelve semester hours of English.
- 2. Six semester hours of American History.
- 3. Six semester hours of American Government.
- 4. Two years of foreign language or one year of foreign language and one year of science.
- 5. Four semesters of Physical Education.
- 6. Psychology 111.
- 7. A minimum of eighteen semester hours of sophomore courses, twelve semester hours of which must be completed at Central Texas College.
- 8. Have a minimum overall grade-point average of 2.0 ("C" average).
- 9. Meet all other college requirements.

Associate in Science

Complete a minimum of sixty-six semester hours which must include:

- 1. Twelve semester hours of English.
- 2. Six semester hours of American History.
- 3. Six semester hours of American Government.
- 4. Four courses of science.
- 5. Six semester hours of math.
- 6. Four semesters of physical education.
- 7. Psychology 111.
- 8. A minimum of fifteen semester hours of sophomore courses, twelve semester hours of which must be completed at Central Texas College.
- 9. Have a minimum overall grade-point average of 2.0 ("C" average).
- 10. Meet all other college requirements.

Associate in General Education

Complete a minimum of sixty-one semester hours in courses chosen from the total curricular offerings of the College. Selections should include courses from the social sciences, humanities, communications, and sciences and may include courses from the vocational and technical curricula. A minimum overall gradepoint average of 2.0 ("C") is required. A minimum of twelve semester hours must be completed at Central Texas College.

Associate in Applied Science

The Associate in Applied Science Degree will be awarded to students who meet curricular requirements for two-year technology programs. A minimum overall grade-point average of 2.0 ("C") is required.

Certificate of Completion

A Certificate of Completion will be awarded to students who fulfill the curricular requirements of special courses and programs.

TUITION AND FEE SCHEDULE*

TUITION

Semester Credit Hours	Resident of the District	Non- Resident of the District	Non- Resident of Texas
1	\$20.00	\$24.00	\$ 75.00
2	21.00	26.00	90.00
3	24.00	34.00	100.00
4	30.00	40.00	115.00
5	36.00	46.00	140.00
6	44.00	54.00	150.00
7	52.00	62.00	175.00
8	60.00	70.00	200.00
9	66.00	76.00	225.00
10	72.00	82.00	235.00
11	74.00	84.00	245.00
12	75.00	85.00	250.00

INDIVIDUAL INSTRUCTION

Music

1	Semester Credit	Hour	 	 	 	\$25.00
2	Semester Credit	Hours	 	 	 	45.00
3	Semester Credit	Hours	 	 	 	60.00

^{*}Tuition is subject to change without notice.

* "	
Career Pilot (as required by curriculum)	
Welding	25.00
LABORATORY FEE (in all courses requiring use of laboratory)	8.00
STUDENT SERVICES FEE	
Students taking 9 hours or more	11.00
Students taking less than 9 hours	1.00
Graduation Fee	10.00
OTHER FEES	
Property Deposit (refundable when student with- draws from Central Texas College. This deposit is required of every student enrolled for more than nine semester hours.)	10.00
Dormitory Property Deposit (those students living in dormitories)	25.00

REFUND OF TUITION

Refunds of tuition and fees are made subject to the following regulations. All persons who enroll are expected to be aware of these regulations.

- 1. A refund of 50% will be made until the end of the sixth class day, i.e., until the College offices close on the sixth class day and thereafter.
- 2. A refund of 20% will be made through the twelfth class day.
- 3. No refund will be made after the end of the twelfth class day.
- 4. A request for refund must be completed in the Office of the Director of Student Services. A check for the authorized amount will be mailed to the address shown on the request form.
- 5. Refunds for summer sessions and special courses will be calculated on an apportioned basis equivalent to the refund period for fall and spring semesters as stated above.

FINANCIAL AID PROGRAMS

Central Texas College participates in numerous financial aid programs designed to assist students who show serious interest in their education. We believe that an effective program for student aid must be administered in such a way as to be consonant with the aims and purposes of the college, must advance institutional goals, and must be in harmony with institutional values. Students who participate in the various programs for financial aid must comply with the rules and regulations of the College to retain eligibility for the programs.

Central Texas College participates in the following financial assistance programs:

National Defense Student Loan Federal Guaranteed Loans Nursing Student Loan Law Enforcement Loan Educational Opportunity Grant Nursing Student Scholarship Law Enforcement Grant Federal Work-Study Program The Connally-Carrillo Act Institutional Scholarships

Inquiries concerning student financial aid should be sent to:

Office of Student Financial Aid Central Texas College Highway 190 West Killeen, Texas 76541

G.I. BILL

Central Texas College is an approved college for those who wish to attend and receive benefits under the Veterans Readjustment Benefits Act of 1966.

MILITARY EDUCATION BENEFITS

Many military personnel not eligible to participate under the Veterans Readjustment Benefits Acts of 1966 may wish to attend Central Texas College under the Tuition Assistance Program which pays for 75% of tuition. (Department of Defense Appropriations Act of 1966, P.L. 89-213.)

WAR ORPHANS AND KOREAN VETERANS

Central Texas College is an approved college for those who qualify under these classifications.

VOCATIONAL REHABILITATION

The Texas Rehabilitation Commission offers assistance for tuition to students who have certain physical disabilities, provided the vocational objective selected by the disabled person has been approved by a representative of the Commission. Application for this assistance should be made to the nearest Rehabilitation Office.

RESIDENCE STATUS

It is the duty of each student to register under the proper residence and pay the correct tuition. The explanation below of what constitutes a non-resident and a resident is intended to assist the student in properly determining whether or not he qualifies as a resident of the State for tuition purposes. If there is any possible question as to whether he qualifies as a resident of Texas, the student should confer with the Director of Student Services.

The term "residence" as used in State Law means "domicile"; the term "resided in" means "domiciled in"; provided the Governing Board of each institution required under this law to charge a non-resident registration fee is hereby authorized and directed to follow such rules, regulations, and interpretations as are issued by the Coordinating Board for the effective and uniform administration of the non-resident tuition provisions of this law. For the purposes of this law, the status of a student as a "resident" or "non-resident" student is to be determined as follows:

- 1. a. An individual under twenty-one (21) years of age, living away from his family, and whose family resides in another state or has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a non-resident student.
 - b. An individual twenty-one (21) years of age or under whose family has not resided in Texas for the 12-month period immediately preceding the date of registration shall be classified as a non-resident student regardless of whether he has become the legal ward of residents of Texas or has been adopted by residents of Texas while he is attending an educational institution in Texas, or within a 12-month period before his attendance, or under circumstances indicating that the guardianship or adoption was for the purpose of obtaining status as a resident student.

- c. An individual twenty-one (21) years of age or under whose parents were formerly residents of Texas is entitled to pay the resident tuition fee for the 12-month period immediately following the parent's change of legal residence to another state.
- 2. a. An individual twenty-one (21) years of age or over who has come from outside Texas and who is gainfully employed in Texas for a 12-month period immediately preceding registration in an educational institution shall be classified as a resident student as long as he continues to maintain a legal residence in Texas.
 - b. An individual twenty-one (21) years of age or over who resides out of the state or who has come from outside Texas and who registers in an educational institution before having resided in Texas for a 12-month period shall be classified as a non-resident student.
 - c. A non-resident student classification is presumed to be correct as long as the residence of the individual in the state is primarily for the purpose of attending an educational institution. After residing in Texas for at least twelve (12) months, a non-resident student may be reclassified as a resident student as provided in the rules and regulations adopted by the Coordinating Board, Texas College and University System. Any individual reclassified as a resident student is entitled to pay the tuition fee for a resident of Texas at any subsequent registration as long as he continues to maintain his legal residence in Texas.
- 3. A non-resident who marries and remains married to a resident of Texas, classified as such under this Act at the time of the marriage and at the time the non-resident registers, is entitled to pay the resident tuition fee regardless of the length of time he has lived in Texas, and any student who is a resident of Texas who marries a non-resident is entitled to pay the resident tuition fee as long as he does not adopt the legal residence of the spouse in another state.
- 4. a. An officer, enlisted man or woman, selectee or draftee of the Army, Army Reserve, Army National Guard, Air National Guard, Texas State Guard, Air Force, Air Force Reserve, Navy, Navy Reserve, Marine Corps, Marine Corps Reserve, Coast Guard, Coast Guard Reserve of the United States, who is assigned to duty in Texas is entitled to register himself, his spouse, and their children in a state institution of higher education

- by paying the tuition fee and other fees or charges required of Texas residents, without regard to the length of time he has been assigned to duty or resided within the state.
- b. As long as they reside continuously in Texas, the spouse and children of a member of the Armed Forces of the United States who has been assigned to duty elsewhere immediately following assignment to duty in Texas are entitled to pay the tuition fees and other fees or charges provided for Texas residents.
- c. The spouse and children of a member of the Armed Forces of the United States who dies or is killed are entitled to pay the resident tuition fee, if the wife and children become residents of Texas within sixty (60) days of the date of death.
- d. If a member of the Armed Forces of the United States is stationed outside Texas and his spouse and children establish residence in Texas by residing in Texas and by filing with the Texas institution of higher education at which they plan to register a letter of intent to establish residence in Texas, the institution of higher education shall permit the spouse and children to pay the tuition, fees, and other charges provided for Texas residents without regard to length of time that they have resided within the State.
- 5. A teacher, professor, or other employee of a Texas institution of higher education is entitled to register himself, his spouse, and their children in a state institution of higher education by paying the tuition fee and other fees or charges required for Texas residents, without regard to the length of time he has resided in Texas. A teacher, professor, or other employee of a Texas institution of higher education is any person employed at least one-half time on a regular monthly salary basis by a state institution of higher education.
- 6. An alien student is classified as a non-resident student; however, an alien who is living in this country under a visa permitting permanent residence or who has filed with the proper Federal immigration authorities a declaration of intention to become a citizen has the same privilege of qualifying for resident status for fee purposes under this Act as has a citizen of the United States.
- 7. The Governing Boards of state-supported institutions of higher education are authorized to assess and collect from

each non-resident student failing to comply with the rules and regulations of the Governing Boards concerning non-resident fees a penalty not to exceed ten dollars (\$10) a semester.

CLASS MEMBERSHIP

The only way to become an official member of a class at Central Texas College is by following the established procedure for registering and paying of tuition and fees. No person is an official student until all charges have been paid in full. Installment payment of tuition and fees is not permitted.

When a student drops a course, he is not entitled to remain in the class on an unofficial basis. Only those students who are officially enrolled have the privilege of attending classes. In special circumstances designed to help deserving students, the instructor and the Director of Student Services may make exceptions to this policy.

VISITORS IN A CLASS

Permission to visit a class may be granted by the Dean of the College or the Director of Academic Education. Such permission carries with it permission to listen and observe, but not to enter into class discussion or laboratory work.

ACADEMIC LOAD

Standard Load: The actual number of semester hours taken by a full-time student will vary with the number of one-hour courses and laboratory courses taken. While the standard load is considered to be fifteen semester hours, the actual hours for five solid courses plus physical education might be seventeen or eighteen semester hours. The normal load for completing degree requirements in two school years is five solid courses per semester, plus the required and/or elective one-hour courses which are taken in addition.

Maximum Load: Students are not permitted to take more than five courses of three or more semester hours value each during a semester. Additional one-hour courses may be taken in certain approved subject areas, but the total hours per semester may not exceed nineteen.

If a student is in his last semester prior to graduation and must have extra hours to fulfill graduation requirements, he may take the extra hours if approval is received from the Dean of the College. Minimum Load: Since part-time as well as full-time students are welcome at Central Texas College, no minimum number of hours is required. Students who do not work and who are seeking a college degree are encouraged to take the maximum number of hours per semester. Students who plan to work part-time and students who may have difficulty with college level courses are encouraged to consult the academic conselor for advice on the number of hours that should be taken.

CLASSIFICATION OF STUDENTS

Freshman—A student with thirty semester hours or less recorded on his permanent record will be classified as a freshman.

Sophomore—A student with thirty-one semester hours or more recorded on his permanent record will be classified as a sophomore.

Maximum Hours for Transfer—As a general rule, senior colleges will accept a maximum of sixty-six (66) semester hours of transfer credit from junior colleges. A student should not take more than this amount unless he secures written permission from his senior college choice.

CLASS HOURS

College classes are in progress five days per week. Classes meeting on Monday, Wednesday, and Friday are one hour in length. Classes meeting Tuesday and Thursday meet for one and one-half hours. Courses with laboratories require additional time.

EVENING COLLEGE

Regular academic, as well as technical, vocational, and adult education courses, will be offered Monday through Thursday evenings from 6:00 p.m. to 10:30 p.m.

SUMMER SESSION

One twelve-weeks term will be offered during the summer. Maximum student load for this term is fourteen semester hours.

Two six-weeks terms are also offered during the summer. Classes meet daily, Monday through Thursday. The maximum student load is seven semester hours for each six-weeks term.

COURSE PLANNING

Proper planning of courses is a very important matter for each student in order to assure that his individual objectives may be achieved. Each student at Central Texas College will have appropriate guidance in his educational planning, and every effort will be made to help the student achieve his goal. Final responsibility for a proper and successful educational venture rests with the student.

TRANSFER OF COURSES TO OTHER COLLEGES

If a student chooses his courses in conformity with the degree requirements of his senior college choice, and if he earns a grade of "C" or better, he will have no difficulty in transferring his work, hour for hour, with the same grade earned.

Since the types of courses required for the same major may vary with different colleges, it is important that each student have a degree planning conference with the academic counselor prior to registering for classes.

COURSE NUMBERS

Course numbers contain three digits. If the first digit is a "1" it indicates a freshman level course. If the first digit is a "2" or "3" it indicates a sophomore level course. The second digit indicates the semester hour value of the course. The third digit indicates the order in which the course is to be taken. (Example: English 131 is a freshman course with three semester hours credit and should be passed with a satisfactory grade before taking English 132.)

The numbers in parentheses found to the right of a course title indicate the number of lecture and laboratory hours per week. For example, Biology 141 would show (3-3) indicating three lecture meetings and three hours of laboratory per week.

ADDING AND/OR DROPPING COURSES

After official registration has been completed, a day student may add or drop courses only after receiving approval of the Director of Student Services. The Director of Academic Education will approve course changes for Evening College students. A deadline date will be announced each semester, and no classes may be added after that date. Any classes dropped after the deadline will appear on the student's transcript with the appropriate designation of "W," "WP," or "WF."

A course may be added or dropped officially by completing appropriate forms and securing approval. A course is not

dropped merely by not attending class. Students who fail to complete proper forms for dropping a class and who absent themselves from class may be dropped from the rolls upon recommendation of the instructor and approval of the appropriate administrator.

EXAMINATIONS

Semester examinations are given at the end of each semester or summer term in all subjects. During the last week of classes, no college-sponsored social activities are permitted since students should be preparing for examinations.

All students are required to take examinations when scheduled unless excused by the Dean because of personal illness or some emergency approved by the Dean. Otherwise, the student receives a grade of "F" for the course. The Dean of the College should be notified immediately when a student finds it impossible to take his examination as scheduled so that arrangements for a postponed examination may be requested. If postponed examinations are approved, the student must take them as soon as he has recovered from his illness or his emergency has ended. In any case, the examination must be completed prior to the close of the semester immediately following the one in which the examination should have been taken.

At the close of each semester or summer term, grade reports are mailed to the parents of all students. Self-supporting students under twenty-one years of age and not residing legally with their parents and students twenty-one years of age or older may request that their grades be mailed to themselves. Requests from students under twenty-one years of age require approval of the Director of Student Services.

SCHOLASTIC HONESTY

All students of Central Texas College are required and expected to maintain the highest standards of scholastic honesty in the preparation of all work and in examinations. Each student should avoid:

- 1. Plagiarism—the taking of passages from writings of others without giving proper credit to the source.
- 2. Collusion—working together with another person in the preparation of work unless such joint preparation is specifically approved in advance by the instructor.
- Cheating—giving or receiving information on an examination.

Students found guilty of scholastic dishonesty are subject to appropriate disciplinary action as defined previously in this catalogue and, in addition, are subject to having credit for courses cancelled. Such cancellation may be removed only by repeating the course(s).

ABSENCES AND TARDINESS

Students are required to attend classes regularly. No unexcused absences or "cuts" are allowed. You are responsible for all class work covered during an absence from class, even in cases where you were able to satisfy the instructor that the absence was unavoidable. Failure to attend class regularly may result in administrative withdrawal of a student from a class or from College. Excusable absences are those resulting from personal illness, emergencies arising within the family, official school-sponsored trips (approved by the Dean), and military duties or orders requiring brief absences.

Students are expected to be in class on time.

The following specific rules apply to absences:

 Each instructor shall keep a record of class attendance and shall determine when a student's absence is excused.

Instructors will have the responsibility of notifying students when they are accumulating too many unexcused absences.

After the instructor submits the form to the Office of Student Services requesting an administrative drop because of unexcused absences, the instructor will receive a copy of the letter which is sent to the student or parents.

- 2. An administrative drop is initiated after a student has six consecutive or ten total unexcused absences. Absences are computed on class hours of instruction. Example: A class meeting for 1½ hours results in 1½ absences.
- 3. The Dean will not grant excuses for absences. The student may be readmitted to class by the Dean, but his absence(s) will remain unexcused.

SCHOLASTIC STANDARDS

Each student is expected to know his academic status at all times. Each student is responsible for knowing whether he has passed the minimum required work and whether he is eligible to continue in the College. An ineligible student who nevertheless registers in the College shall be dropped, and the student shall not receive special consideration on his plea of lack of

knowledge of his scholastic status. Student scholastic probation or suspension will be printed on the semester grade report. To be in good standing, a student is required to maintain at least an overall semester average of 1.8. Those who fall below the 1.8 average will be placed on academic probation.

HONOR ROLL

Each semester, those students whose scholastic achievement is notable are given public recognition by publication of the "Dean's Honor Roll." The Honor Roll includes the names of all students who have earned a grade-point average of 3.5 in twelve or more semester hours for the preceding semester and who have no grades lower than "B." Students who carry a minimum of fifteen semester hours and who meet this scholastic requirement are also eligible for membership in Phi Theta Kappa, the National Junior College Scholarship Society.

ENRICHED STUDIES PROGRAM

Central Texas College recognizes that a certain percentage of the student body is capable of mastering and profiting from enriched educational experiences. Therefore, special opportunities are provided in various subject fields for those students who are identified as the intellectually gifted, the creative and talented, and the more able students. Selective enrollment in the areas of English Composition and Literature, as well as American History, Mathematics, and Government is available.

SCHOLASTIC PROBATION

A student at Central Texas College must achieve a 1.8 semester grade point average to avoid being placed on probationary status. If placed on probationary status, then the student must the following semester achieve a 1.8 average. If the student is placed on academic probation he will be required to have a monthly conference with an academic counselor. If the student's performance should improve to the required standards upon the completion of one full semester, he will be removed from the probation status. Failure to achieve a 1.8 grade point average will result in the student's being suspended from the College for a period of one semester. Upon readmission, the student will again be placed on scholastic probation for the semester. Failure to meet the required standards after being readmitted will result in the student's being suspended from the College for two regular semesters. Upon readmission, the student will again be placed on scholas-

tic probation for the semester. Failure to meet the required standards after being readmitted will result in the student's being suspended from the College for four regular semesters. The student must realize that he still must achieve a 2.0 accumulative grade point average to qualify for graduation and that any course grade below "C" is normally not transferable to four-year institutions.

Any Central Texas College student failing to achieve a 1.0 semester grade point average during any given semester will be suspended immediately from Central Texas College for one regular semester and will be placed on academic probation when readmitted to the College.

Residence hall students are required to be full-time students (enrolled in twelve or more semester hours).

A student on scholastic probation must attend classes regularly. He will be required to sign a probation agreement in the Student Services Office and to adhere to the rules therein.

GRADES AND POINT AVERAGES

Grading at Central Texas College is as follows:

Numerical Value	Grade
90-100	A=Superior (4 points per semester hour)
80- 89	B=Above Average (3 points per semester hour)
7 0- 7 9	C=Average (2 points per semester hour)
60- 69	*D=Passing, but Unsatisfactory (1 point per semester hour)
0- 59	F=Failure (0 points per semester hour) †I=Incomplete WP=Withdrawn Passing WF=Withdrawn Failing NC=Non-Credit

WITHDRAWAL FROM COLLEGE

In order to be officially withdrawn from the College a student must obtain and complete a withdrawal form and have

*Students who receive a "D" grade are advised not to enroll in the

next course for which this course was a prerequisite.

†An Incomplete grade may be given only in those cases where, because of personal illness, death in the immediate family, school sponsored trip, or military orders, the student is unable to complete the final examination for a course. Prior approval from the instructor is required before the grade of "I" is recorded. A student who merely fails to show up for the final examination will receive a zero for the final and an "F" for the course. it signed as indicated thereon. The student's transcript will show W, WP, or WF, depending upon whether the student is passing or failing in his courses at the time of withdrawal.

An administrative withdrawal results when a student is absent from classes an excessive number of times without good reason and without notifying the Director of Student Services of the cause of absence. In such cases, the student is dropped from all classes, constituting withdrawal from the College, and a grade of "F" is recorded for all courses in which he was enrolled.

TRANSCRIPTS

A Permanent Record showing the academic record of each student will be maintained by the College. A transcript will be supplied to the Registrar at the college or university which the student expects to attend after transferring from Central Texas College. This first transcript is provided at no cost. An appropriate fee will be charged for all subsequent transcripts requested. No transcripts will be released for students who have delinquent records of any kind at Central Texas College.

STUDENT LIFE

Social and cultural activities play an important part in the life of the college student. Oftentimes, classroom instruction can be supplemented and enhanced by a well-developed program of activities. Central Texas College believes that in order to develop good qualities of leadership and to help create good fellowship and social goodwill, students should be given the opportunity to develop to their full potential.

To this purpose then, some 21 clubs and organizations have been officially approved. One of the paramount organizations, the Student Assembly, uses both resources and fees of the student body to finance and plan many of the College's activities. In addition to the Student Assembly, clubs include religious, political, social, and recreational organizations. Activities of the various clubs and organizations are coordinated at weekly or bi-monthly meetings.

LIBRARY

The Oveta Culp Hobby Memorial Library is one of the outstanding junior college libraries in the nation. Over 23,000 volumes are housed in this beautifully decorated and furnished building which was dedicated to a native of Killeen and the first Secretary of the Department of Health, Education and

Welfare. President Lyndon B. Johnson joined the College Board President, William S. Bigham, in the dedication to Mrs. Oveta Culp Hobby. The building has been scientifically planned and the volumes carefully selected to compliment the instructional program of the College. Audio-visual resources and other advanced facilities to assist the student in reading and research are located in the library. The central location of the library and the great emphasis upon its contents clearly establish the strong desire of Central Texas College to have a superior academic program.

ATHLETIC PROGRAM

Tennis has been the first intercollegiate competitive sport to be organized at Central Texas College. During its first season, 1968-69, the tennis team placed third in the nation in the National Junior College Tournament at Ocala, Florida.

Other athletic intramural programs have been organized for both men and women. They include football, basketball, volleyball, bowling, table tennis, and tennis. Teams compete for recognition and trophies awarded by the Physical Education Department.

All athletic facilities in the College gymnasium remain open daily in order to serve the resident students at Central Texas College.

STUDENT CENTER

Central Texas College has a beautiful Student Center, complete with a bookstore, dining area and inner landscaped court, snack bar, a carpeted conversation area with wood-burning fireplace, beamed ceiling, and color television.

This building, which provides the setting for many student activities, also becomes a gathering place for students during leisure time. It is certainly one of the most popular buildings on campus.

DORMITORIES

Central Texas College operates two beautiful, air-conditioned dormitories, one for ladies and one for gentlemen. Requests are honored on a first come, first served basis. A reservation deposit of \$25.00 is required for each application for a room. This deposit is not refundable after 60 days prior to the beginning of the semester for which it was first intended. A complete food service is available in the luxurious Student Services Occupation Center. Additional information is available from the Director of Student Services.

HOUSING POLICY

The dormitory housing program at Central Texas College is a part of the total educational plan of the College. All students who come from outside the College district and who desire to have housing within the College district while attending the College will be required to reside in the College dormitories.

Exception to this requirement will be made for students who come within any one of the following categories:

- 1. Those who live with parents or with relatives by sanguinity.
- 2. Married students who live with their spouses.
- 3. Students whose health conditions demand special attention which would not be available in the dormitories. A letter from a physician is required in such cases.

If college housing is not available, sophomore students may be permitted to live in off-campus housing until such time as they can be admitted to the dormitories. A student who gives false information concerning his place of residency will be subject to appropriate disciplinary action.

The President of the College is authorized to adopt such operational rules and procedures as are necessary for implementation of this housing policy.

TEXTBOOKS

Students may purchase their textbooks and supplies from the College bookstore. Books may be resold to the bookstore at the end of a semester at a discounted price provided they are in good condition and have not been discontinued.

STUDENT CONDUCT

A student who enrolls at Central Texas College neither loses the rights nor escapes the responsibilities of citizenship. By enrolling in the College, he signifies acceptance of the privileges and regulations and policies established by the Central Texas College Board of Trustees and agrees to abide by all regulations and standards established by the College. It must be clearly understood that the College Administration is charged with the responsibility of discipline and will implement stated disciplinary procedures to require students of Central Texas College to conduct themselves in a manner consistent with the standards of the College.

Harassment

Harassment, whether verbal or by action, by any student enrolled at Central Texas College, of any member of the student body, faculty, administration, or any other college employee will be considered a serious breach of discipline and shall be treated accordingly.

Any action, whether in the classroom, on the campus, or at a school approved activity, subjecting a person to humiliation, indignity, discomfort, or that interferes with any process in which the College is engaged may be considered harassment.

Alcohol, Narcotics, and Drugs

Students are not to use intoxicating beverages, narcotics, or hallucinatory drugs on campus or while attending any school-sponsored activity. Any student on campus or at a school-sponsored function who is under the influence or in possession of any of these items will be subject to disciplinary dismissal from the College.

Anyone found in possession of, using, or distributing illegal drugs or aiding those involved in such activities will be immediately subject to public expulsion from the College. Notice of this action will be placed on the student's transcript and this information will be relayed immediately to the proper civil and/or military authorities.

It is the responsibility of any student who has knowledge of such activity to report it immediately to the Director of Student Services.

Hazing

Students are not to haze other students. Any acts that might intimidate a student or subject him to indignity or humiliation will be considered hazing.

Falsification of Records

Students who knowingly falsify any official College record are subject to disciplinary action which may include suspension from the College.

Students falsifying admission records may be denied admission to the College.

Firearms and Weapons

Only official security personnel are allowed to be armed. Firearms or weapons of any kind are prohibited anywhere on

Central Texas College campus. Anyone found in violation of this rule will receive appropriate disciplinary action.

CAMPUS DRESS

Students will be required to dress appropriately everywhere on the campus at all times. Students in special areas (for example, physical education and laboratories) may require particular clothing for suitability and safety. Shoes are included in appropriate dress. Personal hygiene and grooming must conform to standards of cleanliness and neatness acceptable in polite society. Beards and uncommonly long hair are not permitted. See Student Handbook for additional guidelines.

A positive requirement for appropriate dress and grooming is based on the philosophy that these factors have a direct bearing on the attitudes and behavior of students and, thereby, on their educational performance and the general environment required for meeting the educational philosophy and objectives of the College.

STUDENT DISCIPLINE

Students are admitted to Central Texas College for the purpose of educational, social, and personal enhancement. As students, they have rights, privileges, duties, and responsibilities, as prescribed by State and Federal Constitutions and statutes and policies of the governing Board of the institution.

In all orderly democratic societies, citizens enjoy certain freedoms and privileges prescribed and protected by society for the benefit of all. Likewise, students at Central Texas College enjoy certain freedoms and privileges prescribed and protected for the maintenance of an orderly environment conducive to the fulfillment of the aims, objectives, and purposes of the institution.

Organized societies operate by laws, regulations, ethical and moral codes of conduct, and mutual respect for the role, authority, and responsibility of each segment within the society. The college campus exists for the purpose of providing a place where students may acquire the knowledge, understanding, judgment, and maturity necessary to function as effective and well-adjusted members of society. A college which fails to provide this atmosphere for the learning experience that will enable its students to achieve these qualities has failed both the society which provides for its existence and the students who have sought its services.

Central Texas College is dedicated and committed to fulfilling its mission in society. All students who enroll are expected to understand, respect, and support the role and purposes of the College. To teach students to become mature, capable, and productive members of society, the College has planned and organized every aspect of its operation to provide for an atmosphere conducive to the learning experience. This is true of student organizations, student social functions, extracurricular activities, and even the disciplinary procedure.

It is the desire and wish of College Board members, administrators, and faculty that the necessity for disciplinary procedures could be eliminated. Unfortunately, as in all societies, there are some who refuse to accept and understand the necessity for orderly and organized procedures and for regulations designed to protect the interests and welfare of the institution itself as well as the majority of its members.

For those few students who fail to understand and accept their role in an educational institution, the College has prescribed, in the Student Handbook, procedures for counseling and disciplinary action which are designed to help the students in every way possible. In essence, the disciplinary procedures are a part of the learning process for students, and students will be suspended or expelled from the College only if they fail to respond positively to disciplinary procedures.

SUMMONS TO ADMINISTRATIVE OFFICES

On some occasions it will be necessary for a faculty member, counselor, or administrative official to contact an individual student. Any student receiving a summons from an administrative office must respond promptly as requested. A summons may take the form of a call from class, a notice on the official bulletin boards, or a notice by mail. Failure to respond to a summons renders the student subject to disciplinary action.

CHANGE OF ADDRESS

If a change occurs in a student's permanent mailing address or in his residence address while attending College, he is required to give prompt notification to the Records Office.

The student is responsible for all communications mailed to him at the latest address he has given to the College. Having moved from a previous address does not relieve the student of responsibility for requests made to him through correspondence.

PARKING REGULATIONS

All campus parking and traffic regulations are printed in the Student Information Book. Each student is responsible for understanding and complying with these regulations.

CURRICULA

The curricula presented on the following pages have been designed for students who wish to transfer to a senior college or university. The College counselors are available to assist the student in choosing from these suggested curricula or in working out special arrangements to meet particular educational plans. Courses listed in the catalogue will be selected in appropriate sequence for offering on the schedule of classes from semester to semester.

ALTHOUGH ACADEMIC COUNSELING IS AVAILABLE, IT WILL REMAIN THE RESPONSIBILITY OF EACH STUDENT TO DETERMINE HIS MAJOR AREA OF STUDY, THE SENIOR COLLEGE OR UNIVERSITY TO WHICH HE WISHES TO TRANSFER, AND REQUIRED COURSES AND THEIR PREREQUISITES.

CENTRAL TEXAS COLLEGE

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PROGRAMS OF STUDY

AGRICULTURE

General Agriculture Curriculum Freshman Year

Fresnm	
First Semester	Second Semester
Subject Hours	Subject Hours
Biology 141 4	Biology 142 4
English 131 3	English 132 3
History 131 3	History 132 3
Animal Husbandry 131 3	Poultry Science 136 3
Agronomy 132 3	Elective 3
Physical Education 1	Physical Education 1
Psychology 111 1	
	17
18	
Sophome	
First Semester	Second Semester
Subject Hours	Subject Hours
Chemistry 141 4	Chemistry 142 4
Economics 231	Economics 232
Government 231 3	Government 232 3
Entomology 234 3	*Elective
Mathematics 131 3	*Elective
Physical Education 1	Physical Education
	-
17	17
Farm and Ranch Mai	_
Freshm	an Year
Freshm First Semester	an Year Second Semester
First Semester Subject Hours	an Year
Freshm First Semester Subject Hours Animal Husbandry 131 3	an Year Second Semester Subject Hours Range Management 134 3
Freshm First Semester Subject Hours Animal Husbandry 131 3	an Year Second Semester Subject Range Management 134 Soil Science 135 3
Freshm First Semester Subject Animal Husbandry 131 3 Agronomy 132 3	Second Semester Subject Range Management 134 Soil Science 135 Poultry Science 136 3
Freshm First Semester Subject Animal Husbandry 131 3 Agronomy 132 3 Wildlife Management 133 3 Biology 141 4	Second Semester Subject Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4
Freshm First Semester Subject Animal Husbandry 131 3 Agronomy 132 3 Wildlife Management 133 3 Biology 141 4 Approved English 3	Second Semester Subject Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4 Approved Elective 3
Freshm First Semester Subject Animal Husbandry 131 3 Agronomy 132 3 Wildlife Management 133 3 Biology 141 4 Approved English 3 Physical Education 1	Second Semester Subject Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4
Freshm First Semester Subject Animal Husbandry 131 3 Agronomy 132 3 Wildlife Management 133 3 Biology 141 4 Approved English 3	Second Semester Subject Hours Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4 Approved Elective 3 Physical Education 1
Freshm Freshm First Semester Subject Hours	Second Semester Subject Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4 Approved Elective 3
Freshm First Semester Subject Animal Husbandry 131 3 Agronomy 132 3 Wildlife Management 133 3 Biology 141 4 Approved English 3 Physical Education 1	Second Semester Subject Hours Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4 Approved Elective 3 Physical Education 1
Freshm Freshm First Semester Subject Hours Animal Husbandry 131 3 Agronomy 132 3 Wildlife Management 133 3 Biology 141 4 Approved English 3 Physical Education 1 Psychology 111 1 1	Second Semester Subject Hours
First Semester Subject Animal Husbandry 131	Second Semester Subject Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4 Approved Elective 3 Physical Education 1 Tore Year Second Semester
Freshm First Semester Subject Animal Husbandry 131	Second Semester Subject Hours
Freshm Freshm First Semester Subject Hours	Second Semester Subject Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4 Approved Elective 3 Physical Education 1 Tore Year Second Semester
Freshm Freshm First Semester Subject Hours Animal Husbandry 131 3 3 3 3 3 3 3 3 3	Second Semester Subject Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4 Approved Elective 3 Physical Education 1 Tore Year Second Semester Subject Hours Farm Mechanics 232 3 Horticulture 235 3
Freshm Freshm First Semester Subject Hours Animal Husbandry 131 3 3 3 3 3 3 3 3 3	Second Semester Subject Range Management 134 3 Soil Science 135 3 Poultry Science 136 3 Biology 142 4 Approved Elective 3 Physical Education 1 Tore Year Second Semester Subject Hours Farm Mechanics 232 3 Horticulture 235 3
Freshm Freshm First Semester Subject Hours Animal Husbandry 131 3 3 3 3 3 3 3 3 3	Second Semester Subject Hours
Freshm Freshm First Semester Subject Hours Animal Husbandry 131 3 3 3 3 3 3 3 3	Second Semester Subject Hours
Freshm Freshm First Semester Subject Hours Animal Husbandry 131 3 3 3 3 3 3 3 3 3	Second Semester Subject Hours

^{*}Elective must be in agriculture. Students should check the senior college catalogue for recommended electives.

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COURSE DESCRIPTIONS FOR AGRICULTURE

131. Animal Husbandry. (3-2). Credit 3.

An introductory survey course. Farm animals as a source of food, clothing, and labor. The place of livestock in farming and ranching. The value of heredity and breeding for improvement, importance of judging, pedigrees, and proper nutrition. The place and adaptation of each class of livestock: show ring classification, and market and slaughter classes.

132. Agronomy. (3-2). Credit 3.

Classification and distribution of farm crops, their use, production, and identification will be studied with emphasis being placed on those crops important to Texas. New crop improvement, value of rotation, use and need of fertilizer will be determined by soil testing. Meadow and pasture management will be practiced on the College farm. Weeds, plant diseases, and insect enemies will be discussed.

133. Wildlife Management. (3-0). Credit 3.

An introduction to the wildlife and fishery resources of the United States with special reference to Texas. The importance of plants and animals in our economic cultural life. An account of what has happened to North American Wildlife with considerations of specific plans and methods for its rehabilitation, maintenance, and increase.

134. Range Management. (3-2). Credit 3.

Range management for the Southwestern part of the United States. Physical features affecting range conditions, problems in range management, administration and management of range lands, identification of major grasses and legumes.

135. Soil Science. (3-2). Credit 3.

A basic course in soils in which principles of the physical, chemical, and biological properties of the soil are covered. Soil fertility and testing are emphasized.

136. Poultry Science. (3-2). Credit 3.

A basic course in poultry production involving breeds, breeding, selection, feeding, care, and management. Marketing is emphasized because it is a specialized industry.

231. Farm Mechanics. (3-3). Credit 3.

Basic farm shop skills in tool conditions, sketching, carpentry, painting, rope work, concrete, soldering, cold metal work, basic welding.

232. Farm Mechanics. (3-3). Credit 3.

A second course in farm shop skills for the farm and ranch student. Repair and maintenance of farm machinery; principles of gasoline engine and diesel engine; construction of fences and feed lot equipment; oxygen and acetylene welding; farm survey drainage and earthern construction.

233. Feeds and Feeding. (3-0). Credit 3.

Chemical composition of feeds, nutrients, requirements of farm animals, utilization of feeds, formulating and balancing rations.

234. Entomology. (3-2). Credit 3.

Chemical control of insects which affect crops and livestock. Control of external and internal parasites affecting animals. Safety factors in dealing with insecticides.

235. Horticulture. (3-2). Credit 3.

Growth and structure of fruit, vegetable, and ornamental plants. Effects of environment on plant production and principles and methods of propagation.

236. Livestock Marketing. (3-0). Credit 3.

Areas of livestock production and consumption, problems of producers and consumers, study of the agencies concerned with processing and distribution of meat and by-products, slaughtering of livestock, future marketing. Use of farm and ranch records and accounts.

AIRLINE STEWARDESS

This curriculum gives the student preparation for a career with the airlines as a stewardess, secretary, reservations clerk, and other related positions. The curriculum is not designed to develop a finished product because each company has its own specific training program. The Central Texas College Airline Stewardess Curriculum is designed to provide students with general knowledge and competence which will give them a competitive advantage and enhance their chances of employment. Any student who desires to be a stewardess must meet the specific requirements of the company.

Airline Stewardess Curriculum

	Freshm	an Year	
First Semester	**	Second Semester	
Subject	Hours	Subject	Hours
Approved English	3	Approved English	3
Aircraft Science 131	3	Meterology 232	3
Foreign Language 141	4	Foreign Language 142	4
Psychology 231	3	*Typewriting	3
*Typewriting	3	Elective	3
Figure Development 215	1	Physical Education 112	1
Psychology 111	1		· · · · <u> </u>
			17
	18		* 1
	Sophome	ore Year	
First Semester	•	Second Semester	
Subject	Hours		Hours
Aerodynamics 231	3	Air Transportation 233	3
Geography 231	3	Elective	3
*Shorthand	3	*Shorthand	
Food Preparation and		Safety and First Aid 235	3
Serving 131	3	Foreign Language 232	
Foreign Langauge 231	3	Physical Education	1
Physical Education	1		
			16

AIR CONDITIONING

Air Conditioning Curriculum -

First Semester	& K TI FO	Second Semester	
Subject	Hours		Hours
Air Conditioning Principles	141 4 -	Residential Air Conditioning	143 4
Commercial Refrigeration	142. 4	Commercial Air Conditioning	144 4
Direct Current Circuits 141			
Beginning Welding 141	4	Application 145 😂	4
Physical Education	· · · · · · · · · · · · · · · · · · ·	Alternating Current Circuits Physical Education	142_{-4}
Psychology 111	(ㅂ/	Physical Education	1 5
			
	18		17

COURSE DESCRIPTIONS FOR AIR CONDITIONING

141. Air Conditioning Principles. (2-4). Credit 4.

A course dealing with the fundamental principles of refrigeration and refrigeration cycles. The study of various refrigeration applications, refrigerants and refrigerant control. The laboratory work includes the use of special refrigeration service equipment, handling refrigerants and charging household refrigeration appliances.

^{*}Appropriate level of typing and shorthand courses will be determined by the instructor.

142. Commercial Refrigeration. (2-4). Credit 4.

A course designed to cover commercial refrigeration application, the various types of commercial units and systems. Instruction in controls and control circuits as applied to commercial refrigeration. Heat loss and heat gain calculations for various commercial applications, equipment selection and location and piping procedures. Instruction in installation and service procedures for various applications.

143. Residential Air Conditioning. (2-4). Credit 4.

A course designed to cover heat transfer through various material, heat loss and heat gain calculations for residential heating and air conditioning systems, equipment selection and location, duct sizing and lay out, controls and control circuits, installation and service procedures.

144. Commercial Air Conditioning. (2-4). Credit 4.

A course designed to cover heat transfer, heat loss and heat gain calculations as applied to commercial heating and air conditioning. Psychometrics of conditioned air, duct design and lay out, equipment selection and location, shop drawings, controls and control circuits for automatic conditioning of the air.

145. Control Theory and Application. (2-4). Credit 4.

A course designed to give the student an understanding of the operation of various types of control devices, how they can be applied and varied to achieve the designed conditions in various applications. It includes interpretations and drawings of schematic and pictorial control circuit diagrams.

AUTOMOTIVE SERVICE AND REPAIR Automotive Service and Repair Curriculum

•	Freshm	an Year
First Semester		Second Semester
Subject	Hours	Subject Hours
Automotive Engines 141	4	Carburetion and Fuel
Auto Electrical Systems 142	4	Systems 144 4
		Steering and Suspension 145 4
Elective		Auto Electrical System 146 4
Psychology 111	1	Elective 3
	•	_
	16	15



Sophomore Year				
First Semester		Second Semester		
Subject	Hours	Subject Hou	ırs	
Engine Diagnosis 241	4	Auto Machine Shop 245	4	
Shop Organization and		Auto Shop Service 244	4	
Management 246	4	Auto Air Conditioning 243	4	
Transmission and		Elective	3	
Differentials 242	4			
Elective	3		15	
	15			

COURSE DESCRIPTIONS FOR AUTOMOTIVE SERVICE AND REPAIR

141. Automotive Engines. (2-4). Credit 4.

A course designed to provide an understanding of the fueled internal combustion engine with emphasis on the operation, maintenance, and overhaul of the power plant and its component parts and systems. The proper use of hand tools, measuring tools, and other equipment necessary to effect repairs or rebuilding of the engine with established procedures and proper testing equipment. A special emphasis will be placed on the servicing of the valve train.

142. Automotive Electrical Systems. (2-4). Credit 4.

A basic course designed to provide the student with an understanding of the component parts of the ignition, starting, and charging circuits and their function within each circuit and to attain the necessary skills to perform minor electrical service utilizing the latest service and testing procedures.

143. Brake System. (2-4). Credit 4.

A course designed to provide an understanding of the nomenclature, theory of operation, service procedures involved in the brake system. The use of the brake drum lathe, shoe grinder, bleeder, and other equipment necessary to effect brake repairs will be taught with emphasis on power brake and dual braking systems.

144. Carburetion and Fuel System. (2-4). Credit 4.

A course designed to provide an understanding of the theory, fundamentals of operation, and construction of the various types of carburetors, fuel pumps and components of the fuel system, using established procedures, measuring tools, hand tools, and special testing equipment for testing and adjusting overhauled carburetors.

145. Steering and Suspension. (2-4). Credit 4.

A course designed to provide an understanding of the construction, theory of operation, adjustment, and overhauling of various types of steering and suspension systems utilizing the front end aligning unit and other equipment necessary to effect repairs to these systems.

146. Automotive Electrical Systems. (2-4). Credit 4.

An advanced course in auto electrical systems with emphasis on alternators, voltage and amperage regulating systems, accessories, wiring diagrams, and special testing equipment in accordance with established procedures.

242. Transmission and Differential. (2-4). Credit 4.

A course designed to provide an understanding of the function, construction, operation, and maintenance of all types of transmissions and differentials with special emphasis on automatic transmissions and posi-traction differentials. Disassembly, assembly, and adjustment of the components will be done in accordance with established procedures utilizing special tools and equipment necessary to effect repairs.

243. Automotive Air Conditioning. (2-4). Credit 4.

A course designed to provide an understanding of the principles, design, construction, installation, and service procedures involved in auto air conditioning with special emphasis on system re-charging and compressor service.

244. Automotive Shop Service. (2-4). Credit 4.

A course designed to provide the student with experiences and service jobs on live automobiles involving all types of services on all the systems of the automobile. Included in this course: new car delivery preparations, state inspection, and general used car type of repair.

241. Engine Diagnosis. (2-4). Credit 4.

A course designed to provide an understanding of engine tune-up and electrical trouble-shooting procedures utilizing the oscilloscope analyzer with emphasis on the ignition, starting and charging systems.

245. Automotive Machine Shop. (2-4). Credit 4.

A course in Automotive Machine Shop practices with emphasis on block and cylinder head milling, valve seat replacement, block and cylinder head crack detection, valve guide service, and precision valve service.

246. Shop Organization and Management. (3-3). Credit 4.

A course designed to provide information and actual experiences in shop management, customer relations, warranty provisions, service salesmanship, organization and lay-out, general business practices, and in the use of time, rate, and parts manuals. This course places special emphasis on established business principles and preparation for employment.

ART CURRICULUM

	Freshm	an Year	
First Semester			Second Semester
Subject	Hours	Subject	Hours
English 131	3	English	132 3
History 131			132 3
Foreign Language 141			Language 142 4
*Art (two courses)			wo courses)6
Psychology 111		Physical	Education 1
Physical Education	1		17
	10		11
	18		
	Canhama	wa Vann	

Sophome	ore Year
First Semester	Second Semester
Subject Hours	Subject Hours
English 231 3 Government 231 3 *Art (two courses) 6 Foreign Language 231 3	*Art (two courses) 6 Foreign Language 232 3
Physical Education	Physical Education 1
16	16

COURSE DESCRIPTIONS FOR ART

131, 132. Freehand Drawing. (2-4). Credit 6.

Drawing in charcoal, pencil, pen, wash, conte crayon, and pastel. The subject matter is varied with emphasis on the human figure. A study of both abstractions and expressive drawing is included.

133, 134. Creative Design. (2-4). Credit 6.

A basic course in the fundamentals of color and form, the elements and principles of design and color theory.

135. Color Composition. (2-4). Credit 3.

Theory of color and form involving definite technical procedures in the various properties of color theories and their application to painting. Media: watercolor and oil.

136. Figure Drawing. (2-4). Credit 3.

Quick sketches in pencil, conte, and charcoal of draped living models. Introduction to handling of form, movement and proportion through the study of line, three demensional form, dark and light, and composition.

^{*}Students should check the catalogue of the senior college to which they plan to transfer for particular Art course(s).

137. Landscape Composition. (2-4). Credit 3.

Introduction to landscape composition and the handling of problems encountered in relation to form, movement, and dark and light to control composition. Media: pencil, conte, and charcoal.

138. History and Appreciation of Art. (3-0). Credit 3.

An elementary survey course illustrated with lantern slides and moving pictures treating the Ancient to the Medieval periods, styles and great personalities in painting, sculpture, architecture, and the minor arts.

139. History and Appreciation of Art. (3-0). Credit 3,

An elementary survey course treating styles and great personalities of the Renaissance period through contemporary art. A study of painting, sculpture, architecture, and the minor arts.

232. Oil Techniques. (2-4). Credit 3.

Introduction to the techniques of oil painting, exploring the problems encountered in still life composition, object appearance conditioned to meet the requirements of controlled composition and aesthetic precepts.

233. Advanced Oil Painting. (2-4). Credit 3.

A course designed to further the individual's skill in painting through the study of advanced problems in composition. Special investigation into the fundamental tenets of contemporary painting. Prerequisite: Art 232.

234. Watercolor Painting. (2-4). Credit 3.

Painting for second year students stressing problems of painting in watercolor with emphasis on composition and techniques.

237. Pen and Ink Techniques. (2-4). Credit 3.

Designed to give the student an opportunity to experiment with the various techniques used in pen and ink rendering, Study of the possibilities and limitations of this media, with special attention given to the study of line, three dimensional form, texture, light and dark, and composition.

238. Landscape Watercolor. (2-5). Credit 3.

Painting for second-year students stressing problems of landscape painting in watercolor with emphasis on composition and techniques.

239. Landscape Oils. (2-4). Credit 3.

This course is designed for the advanced student stressing the organization, composition, and techniques encountered in landscape painting.

239a, 239b. Ceramics. (2-4) Credit 6.

Making of pottery shapes by coil, slab, and moved methods; refining and using native clays; underglaze paintings; bisque and glaze firing; original pottery forms; treatment of pottery surfaces; mixing of glazes and their application to pottery.

239c, 239d. Creative Hobbies. (2-4). Credit 6.

For recreational leaders, prospective teachers or workers with therapeutic art, or for anyone wishing to develop a hobby. Study and practice or weaving, modeling, carving, leather craft, or textile printing, dyeing, enamel, and metal work, etc. Conducted as a workshop, each student choosing crafts of individual interest.

BUSINESS ADMINISTRATION

General Business Curriculum*

| Freshman Year | Second Semester | Subject | Hours | Hours

Sophomore Year First Semester Second Semester Hours Hours Subject Subject English 231 3 Government 231 3 English 232 3 Government 232 3 Accounting 242 4 Accounting 241 4 Psychology 231 3 Prog. Bus. Statistics 230 3 Speech 233 3 Business Management 131 3 Physical Education 1 17 17

^{*}B.B.A. majors may substitute one year of accounting for the one year of science or language to meet associate degree requirements. Senior college degree requirements vary considerably. Students should check the specific catalogue for exact requirements.

Office Management Curriculum

Freshm	
First Semester Subject Hours	Second Semester Subject Hours
Duojees	
Business Management 131 3	Human Relations 136 3
Business English 137 3	Business Correspondence 138 3
Business Math 133	Math of Finance 134
Economics 231	Economics 232 3
Introduction to Management 135 3	Approved Elective 3 Physical Education 1
Physical Education 1 Psychology 111 1	Physical Education
1 Sychology 111	16
17	
Sophome	ra Voor
First Semester	Second Semester
Subject Hours	Subject Hours
Business Law 235 3	Labor-Management Relations 234 3
Principles of Accounting 241 4	Principles of Accounting 242 4
Marketing and Sales 231	Personnel Management 232 3
Business Speech 233	Credit and Collections 230 3
Introduction to Computers 133 3	Approved Elective 3
Physical Education 1	Physical Education 1
· —	<u> </u>
17	17
	-
Real Estate and Insurance	Management Curriculum
	-
Freshm	an Year
Freshm First Semester	an Year Second Semester
Freshm First Semester Subject Hours	an Year Second Semester Subject Hours
Freshm First Semester Subject Business English 137	Second Semester Subject Hours Business Correspondence 138 3
Freshm First Semester Subject Business English 137 3 Business Math 133 3	Second Semester Subject Hours Business Correspondence 138 3 Math of Finance 134 3
Freshm First Semester Subject Business English 137	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3
Freshm First Semester Subject Business English 137	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3
Freshm First Semester Subject Business English 137 3 Business Math 133 3 Real Estate Fundamentals 138 3 Insurance 137 3 Business Management 131 3	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3
Freshm First Semester Subject Business English 137	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3 Life Insurance 237 3
Freshm Freshm First Semester Subject Hours Business English 137 3 Business Math 133 3 Real Estate Fundamentals 138 3 Insurance 137 3 Business Management 131 3 Physical Education 1 Psychology 111 1 1	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3 Life Insurance 237 3
Freshm First Semester Subject Business English 137 3 Business Math 133 3 Real Estate Fundamentals 138 3 Insurance 137 3 Business Management 131 3 Physical Education 1	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3 Life Insurance 237 3 Physical Education 1
Freshm First Semester Subject Business English 137 3 Business Math 133 3 Real Estate Fundamentals 138 3 Insurance 137 3 Business Management 131 3 Physical Education 1 Psychology 111 1 To Sophomo	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3 Life Insurance 237 3 Physical Education 16
Freshm First Semester Subject Business English 137 3 Business Math 133 3 Real Estate Fundamentals 138 3 Insurance 137 3 Business Management 131 3 Physical Education 1 Psychology 111 1 To Sophomore	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3 Life Insurance 237 3 Physical Education 1 16 Second Semester
Freshman Freshman First Semester Hours	Second Semester Subject Second Semester Subject Second Semester Subject Hours Hours
Freshm Freshm First Semester Hours	Second Semester Subject Subjec
Freshm Freshm First Semester Hours	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3 Life Insurance 237 3 Physical Education 1 Telephone Year Second Semester Subject Principles of Accounting 242 4 Government 232 3
Freshm Freshm First Semester Subject Hours Business English 137 3 Business Math 133 3 Real Estate Fundamentals 138 3 Insurance 137 3 Business Management 131 3 Physical Education 1 Psychology 111 1 1	Second Semester Subject Hours
Freshm First Semester Subject Hours	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3 Life Insurance 237 3 Physical Education 1 16 Second Semester Subject Principles of Accounting 242 4 Government 232 3 Personnel Management 232 3 Economics 232 3
Freshm First Semester Subject Hours	Second Semester Subject Hours
Freshm First Semester Subject Hours	Second Semester Subject Business Correspondence 138 3 Math of Finance 134 3 Real Estate Law 238 3 Business Organization 132 3 Life Insurance 237 3 Physical Education 1 16 Second Semester Subject Principles of Accounting 242 4 Government 232 3 Personnel Management 232 3 Economics 232 3
Freshm First Semester Subject Hours	Second Semester Subject Hours

Restaurant Management Curriculum

Freshman Year				
First Semester	Second Semester			
Subject Hours	Subject Hours			
Food Preparation & Serving 131 3				
Nutrition 132				
Sanitation and Safety 133 3	Menu Planning 136 3			
Business English 137				
History 131 3 Psychology 111 1	History 132 3			
1 Sychology 111	15			
16				
<i>a</i> ,	••			
Sophomore Year				
First Semester	Second Semester			
Subject Hours	Subject Hours			
Subject Hours Restaurant Merchandising 232 3	Subject Hours Management Practice 235 3			
Subject Hours Restaurant Merchandising 232 3 Business Management 131 3	Subject Hours Management Practice 235 3 Supervision 239 3			
Restaurant Merchandising 232 3 Business Management 131 3 Business Math 133 3	SubjectHoursManagement Practice 2353Supervision 2393Bookkeeping 2343			
Restaurant Merchandising 232 3 Business Management 131 3 Business Math 133 3 Government 231 3	SubjectHoursManagement Practice 2353Supervision 2393Bookkeeping 2343Government 2323			
Restaurant Merchandising 232 3 Business Management 131 3 Business Math 133 3	SubjectHoursManagement Practice 2353Supervision 2393Bookkeeping 2343			
Restaurant Merchandising 232 3 Business Management 131 3 Business Math 133 3 Government 231 3	SubjectHoursManagement Practice 2353Supervision 2393Bookkeeping 2343Government 2323			
Subject Hours Restaurant Merchandising 232 3 Business Management 131 3 Business Math 133 3 Government 231 3 Economics 231 3	Subject Hours Management Practice 235 3 Supervision 239 3 Bookkeeping 234 3 Government 232 3 Economics 232 3			

First Semester		Second Semester		
	Subject	Hours	Subject H	ours
#	Clerical Practice 135 Beginning Shorthand 131* Beginning Typewriting 133* Business Math 133 Business English 137	3 3 3	Secretarial Practice 136 Intermediate Shorthand 132* Intermediate Typewriting 134 Office Machines 139 Business Correspondence 138 Physical Education	* . 3 * . 3
	Psychology 111	1	Thysical Education	16
				10

Sophomore Year First Semester Second Semester Subject Hours Hours Subject
 Bookkeeping 234
 3

 Advanced Shorthand 231*
 3

 Advanced Typewriting 232*
 3

 Economics 231
 3
 Bookkeeping 235 3
Advanced Transcription 233* 3
Economics 232 C M Introduction to Computers 133 3 Approved Elective* 3 Beginning Keypunching 131 3 Physical Education 1 Physical Education 1 16 16

17

^{*}Beginning or advanced levels of shorthand and typewriting will be determined by the student's previous training in these skills and/or by placement tests. Electives may be chosen by students who receive advanced standing in shorthand and typing. Courses may be taken in a variety of accounting and electronic data processing courses.

^{**}Students who complete only one year of the Secretarial Curriculum will be awarded a certificate of completion.

(Nine-Month Program)				
First Semester	-	Second Semester		
Subject	Hours	Subject	Hours	
Bookkeeping 234	3	Bookkeeping 235		
Typewriting*	3	Typewriting*	3	
Clerical Practice135	3	Secretarial Practice 136	3	
Business Math 133	3	Office Machines 139	, 3	
Business English 137	3	Business Correspondence 1	.383	
Physical Education	1	Physical Education	1	
Psychology 111	1	-		
•			16	
	17			

COURSE DESCRIPTION FOR GENERAL BUSINESS

230. Programming for Business Statistics. (3-3). Credit 3.

Computer components and languages with emphasis on FORTRAN; heuristic and algorithmic computing techniques; flowcharting; applications to measures of central tendency, variation, index numbers, curve fitting for time series; impact of computer systems on decision making. Prerequisite: Six hours of mathematics.

231. Principles of Economics. (3-0). Credit 3.

Introduction to economic analysis; price-level changes; the creation of money; the Federal Reserve System and monetary policy; the national accounts; the consumption function; taxation; fiscal policy; public debt; the theory of economic growth; population problems. (Macroeconomics).

232. Principles of Economics. (3-0). Credit 3.

Determination of relative prices; consumer demand analysis; the competitive firm; agricultural policy; the monopolistic firm; imperfect competition; business organization and government regulation; determinants of demand for productive resources; rent, interest, and profit; unions and manpower problems; a microeconomic view of taxation and public expenditure; regional economies; international trade and finance; foreign economic policy. (Microeconomics).

233. Intermediate Accounting. (2-3). Credit 3.

Working papers and preparation of statements; correction of books and statements; special phases of corporation accounting; cash and receivables; inventories, investments. Prerequisite: Accounting 242.

234. Intermediate Accounting. (2-3). Credit 3.

Investments; tangible and intangible fixed assets; liabilities; reserves; statement analysis; business combinations, reorganizations; price-level impact on financial statements.

237. Cost Accounting. (3-0). Credit 3.

Cost accounting principles relating to material, labor, and manufacturing expenses; cost accounting practices and procedures; process cost accounting. Prerequisite: Accounting 242.

238. Auditing. (3-0). Credit 3.

Auditing procedures used by internal auditors and independent public accountants; preparation of working papers.

241. Principles of Accounting. (3-3). Credit 4.

Analysis and recording of business transactions; use of journal and ledger; accounting statements; payroll records and payroll taxes; introduction to partnership accounting; special journals and ledgers; vouchers system.

242. Principles of Accounting. (3-3). Credit 4.

Continuation of Accounting 241. Internal control; partnership and corporation accounting; accounting for manufacturing concerns; analysis and interpretation of statements. Prerequisite: Accounting 241.

COURSE DESCRIPTION FOR MANAGEMENT

131. Business Management. (3-0). Credit 3.

Provides overall picture of business operation; includes analysis of specialized fields within business organizations; identifies role of business in modern society.

132. Business Organization. (3-0). Credit 3.

Authority, delegation, responsibility; functional analysis of organization and management; organization for production, distribution, and finance. Prerequisite: Introduction to Business 131 or approval of instructor.

133. Business Mathematics. (3-0). Credit 3.

Application of arithmetic processes to particular business problems. Percentages; discounts; prices; profit and loss; commissions, interest.

134. Mathematics of Finance. (3-0). Credit 3.

Simple and compound interest, annuities, amortization, sinking funds, depreciation, life insurance.

135. Introduction to Management. (3-0). Credit 3.

This course is designed to give the student a knowledge and understanding of management theories and functions which are essential to the person planning a career in business or industry.

136. Human Relations. (3-0). Credit 3.

A study of "Human Relations" as an emerging scientific discipline of study in which basic concepts and principles concerning man at work are emphasized. It is structured to explain the "whys" and "wherefores" of the behavior of industrial man.

137. Insurance. (3-0). Credit 3.

Introduction to theory and practice of insurance including life, fire, automobile, and personal and business risk. Prerequisite: Sophomore classification.

138. Real Estate Fundamentals. (3-0). Credit 3.

Basic factors and agencies in modern real estate development; historic, economics, legal, and social aspects of real estate; appraisal financing and agency management.

139. Income Tax. (3-0). Credit 3.

Income tax legislation; present income tax law and regulations; treasury decisions, court decisions, and departmental rulings; income tax problems and returns.

230. Credit and Collections. (3-1). Credit 3.

The elements of mercantile and consumer credit; organization of a credit department; sources of credit information; collection tools and procedures.

231. Marketing and Sales. (3-0). Credit 3.

A study of those aspects of marketing which will achieve a conceptual understanding and serve the needs of business competence. Emphasis is placed on the economic aspect of marketing and its relationship to freedom and democracy.

232. Personnel Management. (3-0). Credit 3.

The dynamic role of management as it relates to personnel with emphasis on the management aspects important to the line executive or supervisor. Personnel functions and procedures are viewed in the light of management objectives while personnel management is treated as an active and dynamic process which is motivated by basic human drives.

233. Real Estate Finance. (3-0). Credit 3.

This course includes the study of Federal and State practices in mortgages and Real Estate Finance, also includes a survey of Savings and Loan Associations, Commercial Banks, Life Insurance Companies and Mortgage Bankers.

234. Labor-Management Relations. (3-0). Credit 3.

Labor relations aspects of personnel management emphasized, selection and placement, discipline and morale, promotions, lay-offs, job evaluation, incentive systems, profit sharing and the influence of collective bargaining and legislation on personnel policies. Methods used by organized labor and employers in industrial conflicts.

235. Business Law. (3-0). Credit 3.

Nature and scope of law; court system; law of contracts; principal and agent; business organizations, including partnerships and corporations; Texas community property laws. Prerequisite: Sophomore classification.

236. Business Law. (3-0). Credit 3.

Additional studies in law of business, dealing with bailments, carriers, mortgages, suretyships, negotiable instruments, banks and banking, wills and estates, sales, bankruptcy. Prerequisite: Business Law 231.

237. Life Insurance. (3-0). Credit 3.

Principles of life insurance; business and personal use in insurance; classification and analysis of policies; reserves and policy values; organization and administration of life insurance companies.

238. Real Estate Law. (3-0). Credit 3.

Contains a study of sources of real estate law, legal estates and ownership, deeds, contracts, law of agency and brokerage, escrow agreements, closing of sales, title assurance methods, mortgages, liens, leases, homesteads, wills, administration of estates, zoning and building ordinances, property taxation and other matters of law which pertain to real estate transactions.

239. Supervision. (3-0). Credit 3.

A course designed to provide an understanding of planning work, leadership, decision making, work problem solving, human behavior and personnel relations.

COURSE DESCRIPTIONS FOR RESTAURANT MANAGEMENT

131. Food Preparation & Serving. (3-3). Credit 3.

An introduction to techniques of food preparation. Includes preparation of vegetables, pastries, oven dishes, soups, salads, meats, fish, and poultry. Techniques include experimental cookery, food marketing and preservation, serving and table service.

132. Nutrition. (3-1). Credit 3.

A study of dietary needs; the role of proteins, fats, carbohydrates, minerals and vitamins; factors to be considered in proper selection and preparation of foods for maximum nutritional value.

133. Sanitation and Safety. (2-3). Credit 3.

Personal cleanliness; sanitary practices in food preparation; cause investigation and control of illness caused by food contamination; food storage and refrigeration; sanitation of dishes, equipment, and kitchens; cleansing materials, garbage and refuse disposal; safety precautions, and accident prevention.

134. Work Organization. (1-3). Credit 3.

Methods and techniques of planning and organizing work. Principles of time and motion as related to efficient use of worker and work place. Application of work simplification procedures for maximum efficiency of operation.

135. Food Purchasing. (2-2). Credit 3.

Applied theory of food and beverage purchasing; factors affecting selection, standards, quality, and prices; techniques of receiving, storing and issuing supplies, foods, and materials; applied theory of cost control, pricing, and portions.

136. Menu Planning. (2-2). Credit 3.

Basic factors of planning menus; variety and nutrition in menu planning; techniques of preparing attractive menus and maintaining budgetary controls; types of menus for various public and private institutions.

232. Restaurant Merchandising. (2-3). Credit 3.

Sales promotion; interior decor; types and uniformity of service; food and beverage display; menu and room styling.

234. Marketing and Sales Promotion. (3-3). Credit 3.

A course designed to develop an understanding of what must be done in order to bring the wheels of production and consumption in the United States into mesh. The business activities that direct the flow of goods and services from the producer to the ultimate consumer are analyzed. Coordination of personal selling, advertising, product design, marketing research, and customer services are the individual ingredients of sales promotion, and each is examined in detail. Advertising is studied as the force that creates prospects for countless products, converts these prospects into customers, and keeps customers returning and buying.

235. Management Practice. (0-10). Credit 3.

Supervised work experience and practical application of management techniques.

COURSE DESCRIPTIONS FOR SECRETARIAL STUDIES

131. Beginning Shorthand. (3-3). Credit 3.

Introduction to Gregg simplified shorthand. Reading; writing; theory principles; brief forms.

132. Intermediate Shorthand. (3-3). Credit 3.

Continuation of 131.

133. Beginning Typewriting. (3-2). Credit 3.

A beginning course in touch typewriting for the mastery of machine parts and the keyboard. Special emphasis on speed development, including an introduction to letter writing.

134. Intermediate Typewriting. (3-2). Credit 3.

A continuation of Typewriting 133. Composition and typing of business letters, tabulation, typing of manuscripts.

135. Clerical Practice. (1-2). Credit 3.

Procedures of filing and finding operations employed in business offices, standard filing systems. Training in the operation of spirit duplicators, mimeograph, and dry copy machines. Introduction to and individual training in the operation of automatic typewriting equipment. Training in proficiency in operation of voice transcribing machines.

136. Secretarial Practice. (1-3). Credit 3.

Office conduct; special aids to efficiency in office routine; letter structure and other style problems; filing and finding academic and business reports; communication and transportation problems.

137. Business English. (3-0). Credit 3.

Fundamentals of grammar, punctuation and sentence structure as employed in written business communications. Work study; sentence analysis; punctuation; paragraphing; planning.

138. Business Correspondence. (3-0). Credit 3.

A course designed to teach effective business writing and to give practice in composing all types of business letters and reports.

139. Office Machines. (3-3). Credit 3.

Technique familiarization in the operation of the most commonly used office machines. Computation; calculations; speed drills; percentages; discounts and net values; chain discounts; business forms.

231. Advanced Shorthand. (3-3). Credit 3.

Improvement of ability to take dictation and transcribe mailable copy. Theory principles; brief form derivatives; vocabulary development; speed building; mailable transcription; office style dictation.

232. Advanced Typewriting. (3-2). Credit 3.

This course includes advanced work in such specialized production as tabulation, interoffice correspondence, manuscripts, telegrams, stencil cutting and mimeograph operation, legal forms and additional work on the arrangement of business letters.

233. Advanced Transcription. (0-3). Credit 3.

A continuation of skill building in Gregg Shorthand with concentration on transcribing into mailable copy of office-style dictation. Prerequisite: Advanced Shorthand 231.

234. Bookkeeping. (3-2). Credit 3.

Elementary principles of bookkeeping, journalization; posting, statements; special journals; subsidiary ledgers.

235. Bookkeeping. (3-2). Credit 3.

Analysis and recording of business transactions; use of journal and ledger; trial balance and work sheet; adjusting and closing entries; accounting statements; payroll records and payroll taxes; introduction to partnership accounting; special journals and ledgers; business papers and business procedures relating to accounting; youcher system.

236. Report Writing. (3-0). Credit 3.

The techniques of writing technical reports and business letters.

CAREER PILOT

Career Pilot Curriculum

TWO YEAR PROGRAM

T	Freshma	an Year Second Semester		
First Semester Subject	Hours	Subject Hours		
Aircraft Science 131 Air Navigation 133 Flight Instruction 111 History 131 English 131 Approved Math Physical Education Psychology 111	3 3 3	Propulsion Systems 132 3 Basic Flight 130 3 Meteorology 232 3 History 132 3 English 132 3 Physical Education 1 16		
Summer				
Intermediate Flight 134 3 Approved Elective				
Sophomore Year				
First Semester		Second Semester Subject Hours		
Subject	Hours	Dubject		
Aerodynamics 231 Commercial Flight 234 Advanced Air Navigation 23 Government 231 Physics 140 Physical Education	3 03 4	Air Transportation 233 3 Aviation Radio Systems 237 3 Instrument Flight 235 3 Government 232 3 Approved Elective 3 Physical Education 1		
	$\overline{17}$	16		
FOI	R VEAR	PROGRAM*		

FOUR YEAR PROGRAM*

| Freshman Year | Second Semester | Subject | Hours | Subject | Subject | Subject | Hours | Subject | Subj

^{*}Completion of the four-year curriculum entitles the student to a Baccalaureate Degree to be granted by Mary Hardin-Baylor College through a cooperative program with Central Texas College.

First Semester Subject Hours Aerodynamics 231 3 Commercial Flight 234 3 Advanced Air Navigation 230 3 Government 231 3 Physics 140 4 Physical Education 1	Second Semester Subject Hours Air Transportation 233 3 Aviation Radio Systems 237 3 Instrument Flight 235 3 Government 232 3 Approved Elective 3 Physical Education 1			
17	16			
Summer				
Intermediate Flight 134 3 Approved Elective 3 6				
Junior	Year			
First Semester Second Semester				
Subject Hours	Subject Hours			
Techniques of Instruction 332 3 Muti-Engine Flight 336 3 Air Traffic Control 333 3 History of Christianity 339 3 Approved Elective 3	Air Carrier Operations 331 3 Instructor Rating 338 3 Introduction to Computers 133 3 World Religions 435 3 Approved Elective 3			
15				
Senior Year				
First Semester	Second Semester			
Subject Hours	Subject Hours			
Business Law 432 3 Accounting 241 4 Economics 231 3 Course Development 433 3 Approved Elective 3	Business Law 434 3 Accounting 242 4 Economics 231 3 Methods of Teaching 434 3 Approved Elective 3			
16	16			

COURSE DESCRIPTIONS FOR CAREER PILOT

111. Flight Instruction. (1-1). Credit 1.

An introduction to flight through actual flying experience in modern, safe, fully equipped aircraft. A minimum of twenty-three hours of instruction is provided including twelve hours of dual flight, three hours of solo flight, and eight hours of oral instruction and briefings. The program is more than sufficient to qualify a student for solo flight. Prerequisite: Class II (Commercial) FAA Physical Examination.

130. Basic Flight. (1-4). Credit 3.

Continuation of flight training for completion of the Private Pilot Certificate; it exceeds the minimum flight hours necessary to satisfy the Federal Aviation Administration requirements. A minimum of fifty-five hours of instruction is provided, including fifteen hours of dual flight, twenty-five hours of solo flight, and fifteen hours of oral instruction and briefings. Prerequisite: CP 111; CP 133 or concurrent enrollment or passed the FAA Private Pilot written examination.

131. Aircraft Science. (3-0). Credit 3.

This course serves as an introduction to the study of several basic sciences in the aeronautical field, as applied to their theoretical and practical use in aircraft construction and design.

132. Propulsion Systems. (3-0). Credit 3.

Aircraft engine theory and principles of operation of various types of aircraft engines: reciprocating, turboprop, turbojet, and turbofan. Consideration is also given to thermal, mechanical and volumetric efficiences, superchargers, engine accessories, controls and instrumentation.

133. Air Navigation. (3-0). Credit 3.

The principles of flight, basics of air traffic control, weather facts, navigational procedures and airplane operation as are pertinent for the Private Pilot. Upon successful completion of this course, the student has sufficient knowledge to pass the FAA written examination for the Private Pilot Certificate, which constitutes the final examination.

134. Intermediate Flight. (2-3). Credit 3.

First half of two phases of flight training in preparation for the FAA Commercial Pilot Certificate. A minimum of eighty hours of instruction is provided, including fourteen hours of dual flight, thirty-six hours of solo flight and thirty hours of oral instruction and briefings.

230. Advanced Air Navigation. (3-0). Credit 3.

This course covers Air Traffic Control Procedures, FAA Regulations pertaining to Commercial Pilot and IFR Flight Rules, aviation weather and advanced navigational procedures. Advanced flight maneuvers, low altitude enroute charts, approach plates, VOR procedures, Instrument Landing System (ILS) and Ground Controlled approach procedures. Also, the Flight Information Manual. Prerequisite: CP 133.

231. Aerodynamics. (3-0). Credit 3.

This course covers the physical properties of air, airflow, standard atmosphere, forces on solids moving through air, lift, drag, planeform, air foil selection, and performance factors.

232. Meteorology. (3-0). Credit 3.

Aviation meteorological phenomena affecting aircraft flight. Interpretation of the basic concepts of temperature, pressure, moisture, stability, clouds, air masses, fronts, thunderstorms, icing and fog. Analysis and use of weather data for flight planning and safe flying.

233. Air Transportation. (3-0). Credit 3.

The development and present status of air transportation, federal legislation, characteristics and classification of air carriers; the organization and functions of the FAA and the Civil Aeronautics Board is reviewed.

234. Commercial Flight. (2-3). Credit 3.

A continuation of 134. The second half of two phases of flight training leading to the completion of the FAA Commercial Pilot Certificate. A minimum of eighty hours of instruction is provided including fifteen hours of dual flight, forty hours of solo flight and twenty-five hours of oral instruction and briefing. Prerequisite: CP 134 or equivalent fight experience as determined by the instructor.

235. Instrument Flight. (1-2). Credit 3.

The necessary instruction to qualify for the FAA Instrument Pilot Rating. A minimum of sixty-five hours of instruction is provided, including thirty-five hours of dual flight and thirty hours of oral instruction and briefing. Prerequisite: CP 234 or a Commercial Pilot Certificate.

237. Aviation Radio Systems. (3-0). Credit 3.

Basic radio fundamentals as used by the pilot. A description and practical use of various radio aids to safe aerial navigation, including Very High Frequency Omni Direction Range (VOR), Instrument Landing System (ILS), Direction Finding (DF), and others. Charts and approach plates as adapted to the radio navigation including the use of the Flight Information Manual. Prerequisite: CP 230.

331. Air Carrier Operations. (3-0). Credit 3.

This course is designed to expand upon the Federal Aviation Regulations relating to various specialized facets of the Aviation Industry, including airline operations, aircraft certification, airworthiness standards, and airport operations.

332. Techniques of Instruction. (3-0). Credit 3.

This course is designed to acquaint the student with the fundamentals of teaching and learning in a aviation oriented environment. It also introduces techniques of instruction and analysis of flight maneuvers. The theory of flight and Federal Aviation Regulations relating to the flight instructor rating are taught in this course. Prerequisite: Commercial Pilot Certificate.

333. Air Traffic Control. (3-0). Credit 3.

Terminal and Enroute Air Traffic Controllers Procedures, Controllers standpoint of ARTC, Departure, Arrival, RAP-CON, and Airport Control Tower procedures. Air traffic separation, enroute and approach clearance criteria. Practical application of Air Traffic Control procedures by field trips and Airport Control Tower Operation.

334. Instrument Flight Instructor. (1-1). Credit 3.

A program of advanced flight training to prepare the experienced Instrument Pilot to pass the FAA requirements for the Instrument Flight Instructor Certificate for airplane. A minimum of thirty-five hours of instruction is provided, including ten hours of dual flight and twenty-five hours of oral instruction and briefings. Prerequisite: Certified Flight Instructor Certificate and Instrument Rating.

335. Airline Transport Rating. (2-1). Credit 3.

The Airline Transport Rating is the most comprehensive rating issued by the Federal Aviation Administration. Flight and ground training to qualify for the FAA Airline Transport Rating in either single or multiengine aircraft. A minimum of fifty-five hours of instruction is provided which includes twenty-five hours of dual flight and thirty hours of oral instruction and briefings. Prerequisite: First Class FAA Medical Certificate, Age 23, 1,500 hours of approved flight time, and Instrument Rating.

336. Multiengine Flight. (1-1). Credit 3.

This course of flight training leads to the FAA Multiengine Pilot Rating. This course is designed to give the advanced pilot a greater depth of aircraft experience. A minimum of thirty hours of instruction is provided, including twelve hours of dual flight and eighteen hours of oral instruction and briefing. Prerequisite: CP 234 or a Commercial Pilot Certificate.

338. Instructor Rating. (1-2). Credit 3.

This flight course prepares the experienced pilot for the FAA Certified Flight Instructor Certificate for airplane. Includes twenty-five hours of dual flight and twenty-five hours of oral instruction and briefing. Prerequisite: Commercial Pilot Certificate.

COMMUNICATIONS

English Curriculum

First Semester	Freshm	nan Year	
Subject Semester	Hours	Second Semester Subject Hours	
**English 131 Mathematics 132 *Foreign Language 141 *Science 141 History 131 Physical Education Psychology 111	3 4 3 1	English 132 3 Mathematics 133 3 *Foreign Language 142 4 *Science 142 4 History 132 3 Physical Education 1 18	
	Sonhom	ore Year	
First Semester	opio	Second Semester	
Subject	Hours	Subject Hours	
English 231 Foreign Language 231 Science 141 Government 231 Elective Physical Education	3 4 3 3	English 232 3 Foreign Language 232 3 Science 141 4 Government 232 3 Elective 3 Physical Education 1	

COURSE DESCRIPTIONS FOR ENGLISH

17

17

111. Reading and Comprehension. (1-1). Credit 1.

A course designed to remedy a student's reading disability and to improve his reading speed, comprehension, and vocabulary. May be taken twice for credit since course is taught on basis of individual level of achievement.

121. Speed Reading and Comprehension. (1-2). Credit 2.

A course designed to increase rate of reading and comprehension. Some attention is given to vocabulary building, but primary emphasis is upon techniques of rapid reading and increasing the percentage of comprehension.

130. English Fundamentals. (3-0). Credit 3.

A study of basic compositional skills with emphasis on sentence structure and paragraph structure.

131. Composition and Rhetoric. (3-0). Credit 3.

Composition of short papers, with emphasis on sentence structure, paragraph development, and paper organization. Analysis of expository prose.

*Check particular foreign language and science required by senior institution where student wishes to transfer.

^{**}Students planning to transfer to the University of Texas should begin with English 132. The first course is no longer eligible to meet degree requirements.

132. Composition and Rhetoric. (3-0). Credit 3.

Continuation of English 131. More complex methods of paper development; investigative papers. Selected readings: Prerequisite: English 131 or advanced standing.

133. English for Foreign Students. (3-0). Credit 3.

Speaking and writing for students whose native language is not English. Students entering course are expected to be able to communicate in English.

231. English Literature. (3-0). Credit 3.

A survey of English Literature from Beowulf through the eighteenth century. The study includes selections of poetry, prose, and drama. Prerequisites: English 131, 132.

232. English Literature. (3-0). Credit 3.

A survey of English Literature beginning with the Romantic Period and including masterpieces of Victorian and contemporary writers. The study includes selections of poetry, prose, and drama. Prerequisites: English 131, 132.

233, 234. Western World Literature. (3-0). Credit 6.

A study of masterpieces of Western World Literature from Homer through the First World War. Prerequisites: English 131, 132 or the equivalent.

237. American Literature. (3-0). Credit 3.

A survey of the best American prose and poetry, beginning with Edward Taylor and continuing through the present writers. Prerequisites: English 131, 132.

Speech Curriculum

	Freshm	an Year
First Semester		Second Semester
Subject	Hours	Subject Hours
English 131	3	English 132 3
History 131	3	History 132
Foreign Language 141		Foreign Language 4
Speech 131		Speech 132 3
Elective		Elective
Physical Education		Physical Education 1
Psychology 111	1	_
		17
	18	

Sophomore Year				
First Semester	-	Second Semes	ster	
Subject	Hours	Subject	Hours	
English 231		English 232		
Government 231	3	Government 232		
Foreign Language 231	3	Foreign Language 232	2 3	
Elective	3	Elective		
Elective	3	Elective	3	
Physical Education	1	Physical Education	1	
	16		16	

COURSE DESCRIPTIONS FOR SPEECH

131. Fundamentals of Speech. (3-0). Credit 3.

Instruction in the theory of the voice, articulation, pronunciation, bodily activity, language, and the elements of speech preparation. Practice in the presentation of speeches and printed materials with the emphasis on the use of fundamentals of speech production. A study of speech construction, including the use of outlining and supporting materials. Practice is given in outlining, preparing, and presenting special types of speeches with emphasis on extemporaneous speaking.

132. Voice and Diction. (3-0). Credit 3.

To develop and establish a good voice habit through a study of the principles and practice of the techniques involved in excellence of voice and diction. Drill work and materials for practice are selected to suit individual needs.

233. Business Speech. (3-0). Credit 3.

Designed to aid the prospective business or professional person in preparing various types of speaking assignments such as he might encounter in his career. It is planned for agriculture, business, and home economics majors, and for other students seeking one course in public speaking. Emphasis is upon structure and techniques of presentation.

Journalism

Freshman Year				
First Semester		Second Semester		
Subject	Hours	Subject	Hours	
Journalism 141	4	Journalism 142	3	
English 131	3	English 132	3	
History 131	3	History 132	3	
Speech 131	3	Psychology 231	3	
*Elective		*Elective	3	
Physical Education	1	Physical Education	1	
Psychology 111		<u>-</u>	_	
• ==	_		16	
	18			

^{*}Recommended: Math 131 and 133 may be substituted for second year language.

Sophomore Year				
First Semester	-	Second Semester		
Subject	Hours	Subject I	Hours	
English 231	3	English 232	1	
Government 231		Government 232	3	
Economics 231	3	Economics 232	3	
Sociology 231	, 3	Sociology 231	3	
Physical Education	1	Elective	3	
•		Physical Education	1	
	13			
			16	

141. Communications Media. (3-3). Credit 4.

Introductory survey of mass communications media, their purpose and methods of operation.

142. News Gathering and Reporting. (3-3). Credit 4.

Instruction and practice in interviewing and reporting; discussion of news sources, news values, and various types of news stories.

COMPUTER SCIENCE

Computer Science Programmer Curriculum

TWO YEAR PROGRAM

Freshman Year				
First Semester		Second Semester		
Subject	Hours	Subject Hours		
Intro. to Computers 133	3	Introduction to Computer		
Computer Operations 136		Programming 134 3		
English 131	3	Systems Analysis 135 3		
Approved Math	3	English 132 3		
History 131	3	Approved Math		
Physical Education	1	History 132		
Psychology 111	1	Physical Education 1		
	_	-		
	17	16		
;	Sophome	ore Year		
First Semester		Second Semester		
Subject	Hours	Subject Hours		
Management of Computer		Computers and Data		
Centers 231	3	Analysis 232 3		
Assembler Language		COBOL Programming 234 3		
Programming 233	3	Accounting 242 4		
Accounting 241	4	Government 232 3		
Government 231				
		Approved Elective 3		
Approved Elective	3	Approved Elective 3 Physical Education 1		
	3	Physical Education 1		
Approved Elective	3	Approved Elective 3 Physical Education 1 7		

FOUR YEAR PROGRAM*

10011 15111	
	an Year
First Semester Subject Hours	Second Semester Subject Hours Introduction to Computer 3 Programming 134 3 Systems Analysis 135 3 English 132 3 Approved Math 3 History 132 3 Physical Education 1 — 16
C1	V
First Semester Subject Hours Management of Computer Centers 231	Second Semester Subject Hours Computers and Data Analysis 232
Assembler Language Programming 233 3 Accounting 241 4 Government 231 3 Approved Elective 3 Physical Education 1	COBOL Programming 234 3 Accounting 242 4 Government 232 3 Approved Elective 3 Physical Education 1
Junior First Semester Subject Hours	Year Second Semester Subject Hours
Programming for Business Statistics 330	Advanced Asembly Language Programming 444 4 Computer Programming Systems 338 3 Economics 232 3 World Religions 435 3 Approved Elective 3
Sonio	. Von.
Senior First Semester	Second Semester
First Semester Subject Hours FORTRAN Programming 336 3 Systems Documentation 441 4 Business Law 432 3 Teleprocessing 442 4 Course Development 432 3	Subject Hours Linear Programming 431 3 Marketing Research and Computers 443 4 Business Law 434 3 Methods of Teaching 434 3 Approved Elective 3
1.	16

^{*}Completion of the four year curriculum entitles the student to a Baccalaureate Degree to be granted by Mary Hardin-Baylor College through a cooperative program with Central Texas College.

COMPUTER OPERATORS CURRICULUM

First Semester		Second Semester	
Subject	Hours	Subject He	ours
Introduction to Computers 1 Computer Operations 136 Bookkeeping 234 Business English 137 *Approved Elective Psychology 111 Physical Education	3 3 3 3	Introduction to Computer Programming 134 Computer Center Operations 23 Introduction to Business 131 Approved Math *Approved Elective Physical Education	21 2 3 3
Thysical Education	$\frac{1}{17}$	Injuica. Laucascon	15

KEYPUNCH OPERATORS CURRICULUM**

First Semester	Second Semester	
Subject Hours	Subject Hours	
Computer Operations 136 $\not=$ 3 Introduction to Computers 133 $\not=$ 3 Beginning Keypunching 131 \leftarrow 3 Bookkeeping 234 3 Business English 137 3 Physical Education 1 Psychology 111 1	Keypunching and Data Entry 132 3 - Introduction to Business 131 3 - Approved Math 3 - *Approved Elective 3 - Physical Education 13	
		

COURSE DESCRIPTIONS FOR COMPUTER SCIENCE

121. RPG Programming. (1-2). Credit 2.

Report Program Generator, a problem language involving program logic, file description, input, calculation, output of practical business-oriented problems on large-scale card, tape, and disk systems. Prerequisite: EDP 133.

131. Beginning Keypunching. (1-3). Credit 3.

Elements of keypunch operation. Designed to give the typist beginning skills in keypunch operation. Recommended for all beginning keypunch operators. Drills and exercises to develop punching accuracy and speed. Prerequisite: Typing speed of 30 WPM.

132. Keypunching and Data Entry. (1-3). Credit 3.

Advanced keypunch and verifier operation; program card design and preparation; direct data entry techniques; drills to develop maximum efficiency and speed. Prerequisite: EDP 131.

^{*}Electives must be from other Data Processing courses or approved by the Director.

^{**}Students who complete the 9 months Computer Operators Curriculum or Keypunch Operators Curriculum will be awarded a certificate of completion.

133, Introduction to Computers. (3-2). Credit 3.

An introduction to computer terminology and techniques. History of data processing; computer concepts; input/output media and devices; programming concepts and preparation; differences in computer languages.

134. Introduction to Computer Programming. (3-2). Credit 3.

Designed to familiarize the student with the components of computers and to develop basic abilities needed in programming for business and scientific applications. Includes problem definition, flowcharting, block diagramming, and other basic computer techniques. Analysis and solution of practical data processing applications. Prerequisite: EDP 133.

135. Systems Analysis. (3-2). Credit 3.

Elementary problems from business and science using logical and mathematical techniques particularly suited to digital computer characteristics. Problems involving qualifying descriptive data, manipulation of these data, and expressing of analysis in descriptive terms. Problem statements and flow-charting methods. Prerequisite: EDP 133.

136. Computer Operations. (2-2). Credit 3.

Operating procedures for third generation card, tape, and disk systems; concepts of operating systems; management, organization, control, and operational procedures of large scale computer installations.

221. Computer Center Operations. (0-4). Credit 2.

This course is designed primarily to familiarize the student with work flow and throughput in a modern computer center. Involves actual work experience in the College's computer center. Prerequisite: EDP 136.

230. Business Programming. (3-2). Credit 3.

Designed to give student programming experience involving business-oriented systems utilizing card, tape and disc problems.

231. Management of Computer Centers. (3-0). Credit 3.

Planning, organizing and controlling data processing installations. Managerial aspects in the introduction and use of computer systems and management concepts. Prerequisite: EDP 133.

232. Computers and Data Analysis. (3-0). Credit 3.

Computer language in construction of algorithms using techniques particularly adaptable to digital computer characteristics. Analysis and solutions designed for system applications. Prerequisite: EDP 135.

233. Assembler Language Programming. (3-2). Credit 3.

Assembler language programming for the disk operating system. Programming and debugging of business oriented problems with emphasis on the standard and decimal instruction set and the sequential access method. Prerequisite: EDP 134.

234. COBOL Programming. (3-2). Credit 3.

Theory and operation of digital computers and programming language and techniques particularly suitable for problems and nonnumeric in nature. Prerequisite: EDP 134.

235. PL-1 Programming. (3-2). Credit 3.

Scientific and business oriented problems will be solved using Programming Language One, a combination of both COBOL and FORTRAN. Emphasis will be placed on advanced programming concepts. Prerequisite: EDP 134.

236. Conversational Languages. (3-2). Credit 3.

Programming and testing sample programs written in a remote terminal-oriented language, such as BASIC, Conversational FORTRAN and APL. Prerequisite: EDP 133 or consent of instructor.

237. Field Project. (0-6). Credit 3.

Problem in student's divisional major applying electronic data analysis and processing techniques. Prerequisite: 12 hours in computer science and consent of instructor.

330. Programming for Business Statistics. (3-2). Credit 3.

Computer components and languages with emphasis on FORTRAN; heuristic and algorithmic computing techniques; flowcharting; applications of measures of central tendency, variation, index numbers, curve fitting for time series; impact of computer systems on decision making. Prerequisite: Six hours of mathematics.

335. Advanced COBOL. (3-2). Credit 3.

Advanced theory and operation of digital computers and programming language and techniques particularly suitable for problems non-numeric in nature. Specifically related to advanced systems concepts. Prerequisite: EDP 234.

336. FORTRAN Programming. (3-2). Credit 3.

Theory and operation of digital computers and languages used to control logical and mathematical activities of computers. Number theory and logical systems applicable to computer design. Algebraic language programming. FORTRAN. Prerequisite: EDP 133 and 6 hours of math.

338. Computer Programming Systems. (3-2). Credit 3.

A study of input/output and storage systems, structures and transformations of data bases, and executive systems. Also included are the structures of program libraries, program intercommunication, batch processing executive systems, multi-programming executive systems, interrupt systems, and on-line, time sharing systems. Prerequisite: 12 semester hours in computer programming.

431. Linear Programming. (3-2). Credit 3.

This course is designed to give the business administrator computer methods necessary for the solution of a wide variety of practical applications. These include simultaneous equation solutions applied to various business methods, integration methods, root finding, derivatives and differential equations, and solutions of linear systems. Prerequisite: EDP 336.

441. Systems Documentation. (2-4). Credit 4.

Analysis, evaluation, design and documentation of large scale systems characteristic of commercial, business, and scientific oriented applications. Prerequisite: EDP 232 and 15 semester hours of computer science.

442. Teleprocessing. (3-3). Credit 4.

Requirements and fundamentals of a teleprocessing system's design and programming; transmission capabilities and control; program protection and relocation; features and application of transmission devices. Prerequisite: EDP 444.

443. Marketing Research and Computers. (3-3). Credit 4.

Techniques of marketing research, research design, analysis and interpretation of marketing data, questionnaire building, and sampling methods. Emphasis given to selected applications of marketing research. Prerequisite: 9 semester hours in computer programming.

444. Advanced Assembly Language Programming. (3-3). Credit 4.

This course is designed to give the student advanced programming concepts and computer applications programming in assembly language coding techniques, particularly suitable for problems dealing in applications of on-line systems. Prerequisite: EDP 233.

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EDUCATION

General Education Curriculum

Freshr First Semester		an Year Second Semes	ter
Subject Semester	Hours	Subject	Hours
English 131 History 131 Science 141 Foreign Language 141 Elective Physical Education Psychology 111	3 4 3 1	English 132 History 132 Science 142 Foreign Language 142 Speech 131 Physical Education	
:	Sophome	ore Year	
First Semester		Second Semest	
Subject	Hours	Subject	Hours
English 231 Government 231 *Foreign Language 231 Psychology 231 Sociology 231 Physical Education	3 3 3	English 232 Government 232 *Foreign Language 23 Psychology 232 Sociology 232 Physical Education	

EDUCATION COURSE DESCRIPTIONS

16

431. Philosophy of Vocational Education. (3-0). Credit 3.

A study of the role and significance of vocational education and the basic principles underlying the development and operation of vocational education programs. Also includes a study of state and federal vocational education laws, regulations, and operational procedures, and the history and development of vocational education, its meaning and objectives.

432. Course Development. (3-0). Credit 3.

Principles and practices related to design and development of courses and curriculums including content, balance, analysis of emphasis and evaluation. Methods of outlining courses of study to meet the needs of different types of classes. Students will prepare a complete course of study for a selected vocational subject.

433. Organizing Instructional Materials. (3-0). Credit 3.

A study of the comprehensive process of gathering, evaluating, and organizing of instructional materials and various instructional aids. Emphasis will be placed on developing an understanding of, need for, construction of, and use of various media within an organized instructional program.

^{*}Foreign Language recommended.

434. Methods of Vocational Teaching. (3-0). Credit 3.

Analysis of problems, techniques of teaching and learning, selection and application of appropriate methods of teaching related to specific subjects and actual practice through teaching in the classroom.

ELECTRONICS

Communications Electronics Curriculum

Freshman Year			
First Semester		Second Semester	
Subject	Hours	Subject Hour	8
Math of Electronics 131	3	Mathematics of Electronics 132	3
Engineering Graphics 131	3	Alternating Current Circuits 142	4
Assembly Methods 135		Vacuum Tubes and	
Direct Current Circuits 141		Semiconductors 143	
English 131	3	Test Equipment 144	4
Physical Education	1	English 132 Physical Education	3
Psychology 111	1	Physical Education	1
	_		-
	18	19	J
	Sophomo	ore Year	
First Semester		Second Semester	
Subject	Hours	Subject Hours	3
Solid State Devices 244	4	Circuit Analysis 232	3
Solid State Circuits 245		Special Project 233 3	
Technical Elective		Communications Circuits 241 4	1
*Approved Elective	3	Integrated Devices 246 4	ı
Physical Education		Physical Education	L
	_		-
	15	15	į

COURSE DESCRIPTIONS FOR COMMUNICATIONS ELECTRONICS

131. Math of Electronics. (3-0). Credit 3.

A study of the basic concepts of math and algebra as they apply to the field of Electronics.

132. Math of Electronics. (3-0). Credit 3.

A study in the solution of electronic problems through the use of the slide rule, algebra, trigonometry, and selected topics from calculus.

135. Assembly Methods. (2-3). Credit 3.

A study of modern assembly methods and practices used in industry, including the design, layout and construction of electronic apparatus.

^{*}Electives must be chosen from Electronics or related courses and approved by program director before registration.

141. Direct Current Circuits. (3-3). Credit 4.

A study of the elementary principles of electronics including DC circuits as related to series and parallel resistive, capacitive, and inductive networks, and the use of Ohm's Law, Kirchoff's Laws, and the power formulas in analyzing these networks.

142. Alternating Current Circuits. (3-3). Credit 4.

A study of single and polyphase AC circuits and the use of Kirchoff's Laws as well as Thevenin's, Norton's and Superposition Theorems in analyzing these circuits.

143. Vacuum Tubes and Semiconductors. (3-3). Credit 4.

A broad view of vacuum tubes, transistors, and other semiconductors, their composition, characteristics, theory of operation and circuit applications.

144. Test Equipment. (3-3). Credit 4.

The use, repair, and theory of operation of all types of electronic test equipment ranging from the VOM through the Dual Beam Oscilloscope.

149. Television Theory and Servicing. (3-3). Credit 4.

A study of electron tube circuits peculiar to television receivers and practical methods for trouble shooting and servicing of inherent problems.

232. Circuit Analysis. (3-0). Credit 3.

The application of loop and nodal equations, differential equations, Laplace transforms, and Fourier series in the solution of electronic problems.

233. Special Project. Credit 3.

An intensive study in the design and construction of a project of special interest to the student.

244. Solid State Devices. (3-3). Credit 4.

The study of the solid state devices used throughout industry, their characteristics and relation to circuits in both low and high frequency applications.

245. Solid State Circuits. (3-3). Credit 4.

Use of transistors and semiconductors in different pulse producing circuits.

246. Integrated Devices. (3-3). Credit 4.

A study of the use of IC's in the form of flip flops, and, nand, or and nor chips as used in the new electronic circuits of today.

249. Advanced Television Serving. (2-4). Credit 4.

The operation and service of the more complicated television receiver circuits are covered in this course. Special attention is given to the use of techniques and equipment for the most economical solutions to difficult problems. Includes an introduction to transistorized and color television.

ENGINEERING

Drafting and Design Curriculum

	Freshma		
First Semester		Second Semester	
Subject	Hours	Subject	Hours
History 131	3	History 132	3
English 131	3	English 132	3
Approved Math	3	Math 133	3
Engineering Graphics 131	3	Engineering Graphics 132	3
Art (Freehand Drawing) 13:		Engineering Drawing 143	
Physical Education	1	Physical Education	1
Psychology 111	1		
			17
	17		
	Sophomo	ore Year	
First Semester		Second Semester	
Subject	Hours	Subject	Hours
Government 231	3	Government 232	3
Engineering Design 232		Electronic Drafting 243	
Architectural Drafting 242		Structural Drafting 244	
Physics 140		Approved Elective	
Physical Education		Physical Education	
	· · · · · —	Psychology 231	
	15		_

General Engineering Curriculum

18

TO: 4 G 4	Freshm	an Year	
First Semester		Second Semester	
Subject	Hours	Subject Hour	8
Engineering Graphics 131	3	Engineering Graphics 132	3
Mathematics 134		Mathematics 232	3
Mathematics 231	3	English 132	
English 131	3	*Science 142	
*Science 141	4	Physical Education	1
Physical Education		Elective	3
Psychology 111	1	<u> </u>	_
	_	1	7
	18		

^{*}Check senior college catalogue for specific science. Variations occur with different engineering majors.

	Sophome	ore Year	
First Semester	•	Second Semester	
Subject	Hours	Subject Hor	urs
History 131	3	History 132	. 3
†English 231	3	†English 232	. 3
Government 231	3	Government 232	. 3
Engineering Design 232	3	Structural Drafting 244	. 4
Elective	4	Elective	. 4
Physical Education	1	Physical Education	. 1
•	_		
	17		18

COURSE DESCRIPTIONS FOR ENGINEERING

111. Engineering Problems. (1-0). Credit 1.

This is an introductory course in engineering problems for students of physics and engineering, which includes elementary statics, dynamics, and the use of slide rule. Emphasis is given to the engineering method of analysis in problem solving.

131. Engineering Graphics. (2-4). Credit 3.

Freehand and instrument drawing, dimensioning, fastening, pictorial methods, charts and graphs, projection drawings, geometry of graphical construction, graphical design. Required for beginning engineering students.

132. Engineering Graphics. (2-4). Credit 3.

Continued training in auxiliary views, sections and conventions, intersections and developments, dimensions, notes, limits, and precision; screw threads, etc.

143. Engineering Drawing. (2-4). Credit 4.

Drawing and manufacturing processes; training in producing various kinds of advanced drawings; commercial practices, and economies; and the use of standard parts, sizes, symbols, and abbreviations.

232. Engineering Design. (2-4). Credit 3.

Engineering design graphics and descriptive geometry principles are presented as the fundamentals of the design process. Involves point, line, and plane relationships, auxiliary views, intersections and flat pattern development. Emphasis is placed on practical solutions to realistic engineering problems relating to aerospace, mining, and geology.

242. Architectural Drafting. (2-4). Credit 4.

A study of the preparation of architectural plans; elevations; sections; site plans; various building details; room finish, door, and window schedules; and structural drawings.

[†]Check senior college catalogue to see if Technical English is required.

243. Electronic Drafting. (2-4). Credit 4.

A study of layout and preparation of finished electronic and electrical drawings, stressing modern representation used for pictorial drawings, wiring and connection diagrams, printed circuits, control circuits, and schematic diagrams. Stress is placed on accepted practices and symbols in engineering offices. Some review of lettering and mechanical drawing principles.

244. Structural Drafting. (2-4). Credit 4.

A study of A.I.S.C. specifications and standards, structural theory and data, designing and detailing structural members and connections. Design and development of details and specifications for light industrial structures to include structural steel, pipe, and reinforced concrete rods.

ENVIRONMENTAL CONTROL

Water Quality Control Curriculum

	Freshm	
First Semester Subject Water and Wastewater Technology 131 English 131 Speech 131 Chemistry 131 Physical Education	3 3 3	Second Semester Subject Aquatic Biology 132 3 Report Writing 237 3 Math 133 3 Solid Waste Management 133 3 Chemistry 132 3 Physical Education 1
	13	16
	Sophomo	ore Year
First Semester	_	Second Semester
Subject	Hours	Subject Hours
Air Pollution 231 Industrial Waste Control 232 Microbiology 144 Physics 141 Pollution Abatement Seminar 221	2 3 4 4	Instrumentation 233 3 Water Quality Control 234 3 Pollution Abatement Seminar 222 2 Economics 231 3 Water and Wastewater
Physical Education	_	Chemistry 243 4 Physical Education 1
	17	16

COURSE DESCRIPTION FOR WATER QUALITY CONTROL

131. Water and Waste Water Technology. (3-0). Credit 3.

A study of method of disease transmission, hygienic excreta disposal, municipal and industrial waste water collection and treatment, characteristics of water, water treatment, protection of ground water, insect and rodent control, solid waste collection and disposal, milk and food sanitation, swimming pool sanitation, and industrial hygiene.

132. Aquatic Biology. (2-3). Credit 3.

A study of fresh water as an environment, its physical and chemical characteristics; and characteristics of plant and animal communities which inhabit it. The morphology, life history, and taxonomy of fresh water aquatic organisms. (Field trips required.)

133. Solid Waste Management. (3-0). Credit 3.

Types of solid waste, physical and chemical method of handling solid wastes, possibilities of re-cycling (re-using) solid waste material, possibilities for by-products from solid waste.

221, 222. Pollution Abatement Seminar. (4-0). Credit 4.

Particular problems involving pollution and control in our environment are to be presented and discussed by students in oral reviews. The "how, why and what to do" aspects of pollution are to be stressed.

231. Air Pollution. (2-3). Credit 3.

Sources of air pollution—industrial, municipal, automotive; physical and chemical nature of air pollutant. Lab technique for detecting air pollutants. Control and treatment of air pollution.

232. Industrial Waste Control. (2-3). Credit 3.

Company policies, organizational problems, legal responsibilities in waste control; investigations into possible regional pollution, and preventive tactics that could be employed.

233. Instrumentation. (2-3). Credit 3.

An elementary study of hydraulic, pneumatic, mechanical, electronic control systems and components. It includes a basic description, analysis, and explanation of instrumental controls for a waste water plant. Typical performance characteristics, accuracy, and application of instruments are studied.

234. Water Quality Control. (2-3). Credit 3.

A study of basic principles of water purification including; aeration sedimentation, rapid sand filtration, chlorination, treatment chemicals, taste and odor control, bacteriological control, mineral control, design criteria, maintenance pro-

grams, and operational problems. New processes and recent developments are studied. Criteria rules, regulations, forms and records associated with the field are considered.

243. Water and Waste Water Chemistry. (3-3). Credit 4.

Theory and laboratory techniques for all control tests of water purification and analysis including: color, turbidity, pH, hardness, coagulation, chlorides, fluorides, iron, manganese, bactericides, nitrates, and organic compounds which may be present in water. Qualitative and quantitative analysis are to be stressed in this area

FOREIGN LANGUAGE

Language Curriculum

	Freshm	an Year
First Semester		Second Semester
Subject	Hours	Subject Hours
English 131	3	English 132 3
Major Language 141	4	Major Language 142 4
*Mathematics	3	*Mathematics 3
History 131		History 132 3
†Science 141		†Science 142 4
Physical Education	1	Physical Education 1
Psychology 111	1	_
		18
	19	

	Sophome	ore Year
First Semester	-	Second Semester
Subject	Hours	Subject Hours
English 231	3	English 232 3
Major Language 231		Major Language 232 3
Government 231	3	Government 232 3
†Science 141	4	†Science 142 4
‡Second Language 141		‡Second Language 142 4
Physical Education	1	Physical Education 1
	_	_
	18	18

COURSE DESCRIPTIONS FOR LANGUAGE

French

141. Beginning French. (3-2). Credit 4.

This course includes basic grammar drill, pronunciation drill, simple reading, and conversation.

^{*}Check senior college catalogue for substitute courses, if any, if desired. †Science recommended.

[‡]Second language requirement varies with senior colleges. Check senior college catalogue carefully.

142. Beginning French. (3-2). Credit 4.

Elementary grammar is completed. Pronunciation, drill, and conversation based on reading are continued. Stress is given to everyday conversational phrases. Prerequisite: French 141.

231. Intermediate French. (3-0). Credit 3.

This course includes grammar review, composition, and reading of French masterpieces, with conversation based on material read. Prerequisites: French 141, 142, or two years of French in an accredited high school.

232. Intermediate French. (3-0). Credit 3.

This course continues the drill on syntax as needed for reading, composition, and conversation. Prerequisite: French 231.

German

141. Beginning German. (3-2). Credit 4.

For those who have had no previous work in German. The essential grammar is taught through conversation. Small classes assure maximum personal attention and expression. Two laboratory hours per week are required for the memorization and presentation of German dialogues by the student. Folk songs are learned.

142. Beginning German. (3-2). Credit 4.

A continuation of German 141. Prerequisite: 141 or its equivalent.

Spanish

141. Beginning Spanish. (3-2). Credit 4.

This course consists chiefly of the study of Spanish grammar and development of vocabulary. Conversation in Spanish is stressed.

142. Beginning Spanish. (3-2). Credit 4.

This course is a continuation of Spanish 141. Simple graded readings dealing principally with life in Spanish-American countries are introduced. Conversation in Spanish is stressed. Prerequisite: Spanish 141.

231. Intermediate Spanish. (3-0). Credit 3.

A review grammar text is used. Continued emphasis is placed on conversation, correct pronunciation, and correct writing. Readings from various Spanish-American authors are studied. Prerequisites: Spanish 141, 142, or two years of Spanish in an accredited high school.

232. Intermediate Spanish. (3-0). Credit 3.

This course continues the readings from Spanish-American authors. Grammar, composition, and conversation are emphasized. Prerequisite: Spanish 231 or equivalent.

LAW ENFORCEMENT

Law Enforcement Curriculum

	nan Year
First Semester	Second Semester
Subject Hours	~~~
Introduction to Law	Criminal Law 133 3
Enforcement 131 3	Criminal Evidence 134 3
Criminal Investigation 132 3	Traffic Law and Court
Safety and First Aid 235 3	Procedures 135 3
History 131 3	English 132 3
English 131 3	History 132 3
Psychology 111 1	Physical Education
Physical Education 1	
	16
17	
Sophon	nore Year
First Semester	Second Semester
Subject Hours	Subject Hours
Administration of Law 232 3	Firearms and Defensive
Juvenile Procedures 234 3	Tactics 231 3
Government 231 3	Law Enforcement Seminar 233 3
Sociology 233 3	Police Records and
Speech 233 3	Identification 235 3
Physical Education 1	Government 232 3
· —	Psychology 231 3
16	Physical Education 1
	10
	16

Criminal Justice Curriculum*

	Freshm	an Year
First Semester		Second Semester
Subject	Hours	Subject Hours
Introduction to Law		Criminal Law 133 3
Enforcement 131	3	Criminal Evidence 134 3
Criminal Investigation 132	3	Traffic Law and Court
Safety and First Aid 235	3	Procedures 135 3
History 131	3	English 132 3
English 131	3	History 132 3
Psychology 111	1	Physical Education
Physical Education	1	-
-		16
	17	

^{*}Completion of the four year curriculum entitles the student to the Baccalaureate Degree to be granted by Mary Hardin-Baylor College through a cooperative program with Central Texas College.

	nore Year Second Semester
First Semester Subject Hours	Subject Hours
Subject Hours Administration of Law 232 3 Juvenile Procedures 234 3 Government 231 3 Sociology 233 3 Speech 233 3 Physical Education 1 16	Firearms and Defensive Tactics 231
	37
Junio First Semester	or Year Second Semester
Subject Hours	Subject Hours
Science 141 4	Science 142 4
Police Administration 336 3	Advanced Criminal
Social Psychology 235 3 History of Christianity 339 3	Investigation 331
Approved Elective 3	World Religion 435 3
	Approved Elective 3
16	16
	10
Senic	or Year
First Semester	Second Semester
Subject Hours	Subject Hours
Judicial System and	Police Internship 432 3 Police Personnel
Process 431	Management 436 3
Constitutional Law 437 3	Business Law 434
Traffic Administration 434 3	Methods of Teaching 434 3
Course Development 433 3	Approved Elective 3
15	15

COURSE DESCRIPTIONS FOR LAW ENFORCEMENT

131. Introduction to Law Enforcement. (3-0). Credit 3.

A philosophy and history of law enforcement; organization and jurisdiction of local, county, state and federal law enforcement agencies; professional opportunities, organizations and qualifications required. Analysis of the duties and responsibilities of police administration.

132. Criminal Investigation. (3-0). Credit 3.

Modern methods and skills required for criminal investigation, to include discovery methods, development and lifting of latent fingerprints; criminal scene sketches; the use of plaster and silicone rubber for reproducing evidence at crime scene; use of modern investigation aids and techniques of criminal interrogation.

133. Criminal Law. (3-0). Credit 3.

A study of definitions, structure and important sections of the Penal Code and other criminal statutes and procedures. Covers laws of arrest, search, and seizure; laws of evidence, criminal procedure and Texas Penal Code.

134. Criminal Evidence. (3-0). Credit 3.

The types and degrees of evidence and the rules governing the admissibility of evidence into court; investigation procedures, crime scene, search and recordings; collection and preservation of evidence; laboratory aids; sources of information; interviews and interrogation; follow-up and case preparation.

135. Traffic Law and Court Procedures. (3-0). Credit 3.

State vehicle requirements and related laws; routine traffic duties of an officer; traffic accident investigation techniques and reports; special traffic problems; the traffic court; case preparation from incident to final disposition through court.

231. Firearms and Defensive Tactics. (2-2). Credit 3.

The moral aspects, legal provisions, safety precautions and restrictions governing the use of firearms; firing of firearms and shotguns; protection against persons armed with dangerous and deadly weapons; demonstration and drill in a limited number of holds; restraint of prisoners and mentally ill; use of the baton; mob control.

232. Administration of Law. (3-0). Credit 3.

The court system; principles of constitutional, federal state, and civil laws as they apply to and affect law enforcement. Mock investigations and procedures from incident to final court disposition. Punishment, treatment and prevention of criminality. Sociological analysis of probation, parole, and prison administration.

233. Law Enforcement Seminar. (2-2). Credit 3.

A problems course in law enforcement.

234. Juvenile Procedures. (3-0). Credit 3.

The organization, functions and jurisdiction of juvenile agencies; the processing and detention of juveniles, case disposition; juvenile statutes and court procedures.

235. Police Records and Identification. (3-0). Credit 3.

A study of the organization and operations of different systems of records, including related complaint, arrest, identification and administrative records.

331. Advanced Criminal Investigation. (3-0). Credit 3.

An intensive survey of the problems and techniques of scientific criminal investigation with a view to assist in acquiring the skill and ability to conduct all types of major crime investigation. Vice and narcotics control will form an integral part of the course. The purpose is to provide the investigators with knowledge of how to acquire and process evidence for presentation in court. Prerequisite: LE 132.

336. Police Administration. (3-0). Credit 3.

The principles of police organization and administration and the problems of law enforcement at the administrative level will be discussed. The importance of planning and operational units with emphasis on Police Records as an administrative aid. The organization and supervision of the patrol units with a view to improving employee morale and better public relations. Prerequisite: LE 131.

431. Judicial System and Process. (3-0). Credit 3.

A study in depth of the State and Federal Judiciary Systems of the United States and their correlation with the law enforcement agencies. The course will interrelate all prior information relative to law enforcement officers' knowledge required in the field and of the court system and be reinforced by visits to specific courts.

432. Police Internship. (1-3). Credit 3.

The internship which will be provided will give on-the job training both in municipal police work as well as highway patrol. Critiques of field work and classroom discussion of ways to aid the new entrant in the law enforcement field. Prerequisite: Associate Degree and approval of the director.

434. Traffic Administration. (3-0). Credit 3.

The organization and administration of a traffic division in a modern law enforcement agency: the application of the three E's (Engineering, Education and Enforcement) at the supervisory level. Discussion of related laws, routine traffic accident techniques with practical application of principles of investigation. Prerequisite: LE 131.

435. Penology. (3-0). Credit 3.

Survey of the philosophy of penal and correctional institutions and efforts at rehabilitation. Study of theories, practices and criminal typologies. Problems encountered in probation and parole.

436. Police Personnel Management. (3-0). Credit 3.

Survey and application of the fundamentals of personnel management in a modern police organization. The mechanics of position classification and descriptions. How to select, screen, train, and evaluate law enforcement employees. Practical application and limitation of the objective type of testing. Merit ratings and departmental policy procedures with regard to employee representative organization. Proposals for improving working conditions and salary scales. Prerequisite: LE 131.

437. Constitutional Law. (3-0). Credit 3.

A study of the United States Constitution and major court decisions, including U.S. Supreme Court decisions on constitutional questions related to the field of criminal justice.

MACHINE TOOLS

Machine Tool First Semester	s Curriculum Second Semester
Subject Hours	Subject Hours
Engineering Graphics 131 3 Introduction to Business 131 3	Machine Shop Practice 144 4 Advanced Welding 142 4 Engineering Drawing 132 3 Approved Elective 3
Psychology 111	14

COURSE DESCRIPTIONS

141. Beginning Welding. (2-4). Credit 4.

Electric, oxy-acetylene welding and torch cutting. Making fusion welds in all positions with both the electric and oxy-acetylene welding. Using the hand cutting torch and cut-a-line cutting machine.

142. Advanced Welding. (2-4). Credit 4.

Electric, oxy-acetylene welding and torch cutting. Concentration on welding tests required by industry. Pipe welding. Precision torch cutting in preparing welding joints.

143. Machine Shop Practice. (2-4). Credit 4.

Theory and practice in basic metal working, hand and machine tool operation and maintenance. Includes related instruction in blue print reading and precision measurement.

144. Machine Shop Practice. (2-4). Credit 4.

Theory and practice in laying out and setting up machine tools to perform selected work. Includes related instruction in basic metallurgy. Prerequisite: MT 143.

241. Machine Shop Practice. (2-4). Credit 4.

Theory and practice in planning and executing machine shop production work. Includes instruction in jig and fixture design and production.

MATHEMATICS

Mathematics Curriculum

		Licann	an I car		
	First Semester			Second Semester	
Subject		Hours	Subject		Hours
Math 13	4	3	Math 23	2	3
Math 23	1		*Science	or	
*Science	or		Foreig	m Language	4
Foreign	n Language	4	*Elective	é	3
English	131	3		132	
	131			132	
Physical	Education	1	Physical	Education	1
Psycholog	gy 111	<i>.</i> 1	•		_
·					17
		18			
	First Semester	Sophom	ore Year	Second Semester	
Subject	rnst bemester	Hours	Subject	Second Sentester	Hours

First Semeste	er	Second Ser	nester
Subject	Hours	Subject	Hours
*Math 233			
English 231		English 232	
Government 231	, , , . 3	Government 232	3
Science 141			
*Elective	3	*Elective	3
Physical Education		Physical Education	
	_		
	17		17

This curriculum in mathematics pre-supposes a strong mathematical background acquired at the high school level. Students without a strong background in mathematics should enroll for Mathematics 132 and Mathematics 133 before taking Mathematics 134. Permission to pursue the curriculum as shown above must be obtained from the Chairman of the Department of Mathematics.

COURSE DESCRIPTIONS

130. Fundamentals of Mathematics. (3-0). Credit 3.

Designed for students desiring a review of fundamental operations in mathematics but not expecting to take higher mathematics. This course may not be used as a part of the requirements for a major in mathematics. Review of basic arithmetic, algebra, trigonometry, and logarithms.

^{*}Consult senior college catalogue for required or recommended courses.

131. College Algebra. (3-0). Credit 3.

An axiomatic development of the fundamental principles of algebra. Includes a brief review of intermediate algebra; variation; set theory; systems of equations; determinants; binomial theorem; theory of equations; exponential and logarithmic functions; inequalities; progressions; probability. Suggested prerequisite: 2 years of high school algebra successfully completed or Math 130.

132. College Algebra. (3-0). Credit 3.

Designed for mathematics, science, and engineering majors. Applications of the scientific and physical nature. The real number system as a field; variation; quadratic equations; systems of equations; theory of equations; determinants; introduction to matrices; probability; progressions; exponential and logarithmic functions; mathematical induction; binomial theorem. Prerequisite: 2 years of high school algebra successfully completed.

133. Trigonometry. (3-0). Credit 3.

Trigonometric functions and formulae theory; use of trigonometric tables; identities; solution of right and oblique triangles; inverse trigonometric functions; complex numbers. Prerequisite: 2 years of high school algebra.

134. Analytic Geometry. (3-0). Credit 3.

Introductory concepts; the straight line; the circle; conic sections; transformation of coordinates; polar coordinates; parametric equations. Prerequisite: Math 132, 133, or consent of department chairman.

135. Finite Mathematics. (3-0). Credit 3.

Symbolic logic; theory of sets; probability and statistics; mathematical induction. Prerequisite: Math 131 or equivalent.

231. Differential Calculus. (3-0). Credit 3.

A first course in differential calculus. Prerequisite: Math 134 or concurrent enrollment in Math 134.

232. Integral Calculus. (3-0). Credit 3.

A first course in integral calculus. Prerequisite: Math 231.

233. Advanced Calculus. (3-0). Credit 3.

A further study of limits and functions; sequences and series; elementary differential equations; partial derivatives; multiple integrals; surface integrals; derivatives of a vector. Prerequisite: Math 232.

234. Differential Equations, (3-0). Credit 3.

Fourier series, linear equations, solution by Laplace transforms and by series, application. Prerequisite: Math 233.

MILITARY SCIENCE COURSE DESCRIPTIONS

MS 121, First Year Basic. (2-1). Credit 2.

History, organization and mission of the ROTC and the citizen's military and civilian obligations. Customs and courtesies of the Services. Drill and ceremonies. Familiarization with rifle.

MS 122. First Year Basic. (2-1). Credit 2.

Evalution of warfare to include meaning and scope of principles of war and evolution of weapons and associated equipment. Organization of the Army from lower to higher units and the role of the various branches of the Army. Mission and functions of the defense establishment of the US. Prerequisite: Credit for MS 121.

MS 221. Second Year Basic. (2-1). Credit 2.

A survey of American military history with emphasis on the factors which led to the organizational, strategic, tactical, logistical, operational, social and similar patterns found in our present-day Army. Prerequisite: Credit for MT 1, 2, & 3. (High School ROTC) or Credit for MS 121 and MS 122.

MS 222. Second Year Basic. (2-1). Credit 2.

Map and aerial photograph use in terrain appreciation and evaluation. Introduction to the operations and techniques of a selected branch of the Army. Familiarization with the principles of counterinsurgency operations. Prerequisite: Credit for MS 121, MS 122, and MS 221.

MUSIC

Music Curriculum

	Freshm	an Year	
First Semester Subject	Hours	Second Semester Subject	Hours
English 131 History 131 *Music Fundamentals 131 **Applied Music Choir 111 or Band 113 Music Appreciation 130 Psychology 111 Physical Education	3 3 3 1-2 1	English 132 History 132 Elementary Theory 132 **Applied Music Choir 112 or Band 114 Music Literature 133 Physical Education	3 3 1-2 1
	Sophomo		
First Semester		Second Semester	
Subject	Hours	Subject	Hours
English 231 Government 231 Music Literature 134 ***Applied Music Intermediate Theory 241 Choir 211 or Band 213 Physical Education	$egin{array}{cccccccccccccccccccccccccccccccccccc$	English 232 Government 232 **Applied Music Advanced Theory 242 Choir 212 or Band 214 Elective Physical Education	2-3 4 1 3
	17-18		17-18

COURSE DESCRIPTION FOR MUSIC

111. Choir. (1-2). Credit 1.

Designed to acquaint the student with the best in the classical and modern choral literature. Preparation for on-campus and public performances. May be taken for credit four times.

112. Band. (1-2). Credit 1.

A study of the band and orchestra music literature for solo instrument with orchestra accompaniment, quartets, and small ensembles and full band or orchestra conducting techniques and band organization. Preparation for on-campus and public performances. May be taken for credit four times.

Music Appreciation. (3-1). Credit 3. 130.

This course is designed for the music student as well as for the non-music student. It emphasizes intelligent, directed listening to music with attention focused on the materials, the forms and on the periods and styles of music.

*Elementary Education majors may fulfill their music requirements

^{**}Elementary Education majors and piano.

**Elementary Education majors and music majors having no previous instruction in applied music should select applied music courses numbered 111-112 for the freshman year for piano, voice or instrument.

131. Music Fundamentals. (3-1). Credit 3.

An introduction to the elements of music including study of the staff, clefs, key signatures, scales, time signatures, notation, meter, and rhythm based on relative solmization.

132. Elementary Theory. (3-1). Credit 3.

A continuation of Music Fundamentals 131, with practices in sight singing, major and minor chords, cadences, and application of theory at the keyboard; advanced rhythm, melodic and harmonic ear training. (Moveable Doh).

133. Music Literature. (3-1). Credit 3.

A survey of the principle forms, periods, and composers of music; music literature of each of the historical periods in music; the development of instruments from the primitive to modern. (15th Century through the 19th Century.)

134. Music Literature. (3-1). Credit 3.

A continuation of Music Literature 133 with an in-depth study of music in the periods of the late 19th and 20th Centuries; the concurrent symphonic and concert music literature of today, voice, choral, and instrumental organizations.

241. Intermediate Theory. (3-2). Credit 4.

Aural study of superimposition, compound intervals, melodic and harmonic modulation, and all diatonic seventh chords. Singing modulations to closely related keys. Singing modal melodies and remote modulations. Aural study of unusual and mixed meters, altered chords and introduction to music form and analysis.

242. Advanced Theory. (3-2). Credit 4.

Part writing of figured bass exercises and melody harmonizations requiring all diatonic seventh chords and modulation; styles of writing other than the chorals style. Composition in two- and three-part song forms. Keyboard study of harmonic progression and melody harmonizations requiring all diatonic seventh chords; modulation to all related keys.

APPLIED MUSIC

Piano

111. Piano. Credit 1.

Beginning piano for all students not having previous instruction in piano. Introduction to the keyboard, major and minor scales, arpeggios, the I-IV-V-I cadence chords in C major and the first six key signatures. Performance of two or three easy pieces taken from the classic, romantic, or contemporary piano literature, plus one selection from the Bartok "Microkosmos I" and the Bach "Little Dances." One half-hour lesson per week.

112. Piano. Credit 1.

A continuation of Piano 111: keyboard skills in all scales, arpeggios, chords, and cadences all key signatures. Performance of several pieces for the piano taken from the classic, romantic or contemporary piano literature, plus selections from the Bartok "Microkosmos II," Bach "Little Dances" or the Clementi "Sonatina" Op 36, No. 1 or equivalent. One half hour lesson per week.

121. Piano. Credit 2.

The second year beginning or advanced piano student will be held responsible for all skill outlined in Piano 111 and 112, plus the addition of the enharmonic major and minor scales. Performance of selections from the Bach "Short Preludes and Fugues," Czerny "School of Velocity I," and pieces from the classic, romantic, and contemporary (American) piano literature. One hour lesson per week.

122. Piano. Credit 2.

A continuation of Piano 121 with an in-depth concentration on performance in preparation for presentation of the following graduation program: one Bach Prelude, one Czerny Etude, one Sonatina and two selected pieces from the general piano literature. One hour lesson per week.

221. Piano. Credit 2.

This course includes the study of the Bach Two-Part Inventions or selections from the French Suites; one movement from a Sonata by Haydn, Mozart, or Beethoven; romantic and modern compositions. All major and minor scales and arpeggios and selected Czerny studies. One hour lesson per week.

222. Piano. Credit 2.

This course includes the study of the Bach Two- and Three-Part Inventions, Suites and Partitas; one complete sonata by Mozart or Beethoven; one movement from a concerto by Mozart, Beethoven or Mendelssohn; Romantic and Modern compositions of similar difficulty. All major and minor scales in octaves, 3rds, 6ths and triad, dominant and diminished 7th arpeggios. One hour lesson per week.

231. Advanced Piano. Credit 3.

This course includes the study of the Bach Two- and Three-Part Inventions, studies from Czerny Op 299 or 740, one complete sonata by Mozart, Haydn, or Beethoven, other romantic and modern compositions of similar difficulty, all major and minor scales, triad, dominant and diminished 7th arpeggios. Two hour lessons per week.

232. Advanced Piano. Credit 3.

This course includes the study of Preludes and Fugues from the Well-Tempered Clavichord by Bach; one complete sonata by Mozart or Beethoven and one complete concerto; Chopin Etudes and their romantic and modern compositions of similar difficulty; major and minor scales and arpeggios. Two hour lessons per week.

Voice

111. Voice. Credit 1.

This is a course in which the beginning voice student is trained in the fundamentals of voice culture. In addition, he is given instruction in correct posture, breathing, diction, vowel purity, tone production, and placement. He will learn simple songs in English. One half-hour lesson per week.

112. Voice. Credit 1.

A continuation of Voice 111 for the beginning voice student. The literature for voice will be extended to include the Art Song in English and songs in the Italian, French, German, and Spanish languages. One half hour lesson per week.

221. Voice. Credit 2.

This course includes advanced training in the fundamentals of voice culture. Added instruction is given in correct posture, breathing, diction, vowel purity, tone production, and placement.

222. Voice. Credit 2.

This course stresses the development of proper habits of voice study, with emphasis upon procedure and organization of the study and practice of vocalization and song literature, including early English, Italian, French, and German art songs. One hour lesson per week.

Instruments

111. Private Instrument. Credit 1.

This course includes the fundamentals of a set instrument such as embouchure, breathing, tone production, and fingering. One half-hour lesson per week.

112. Private Instrument. Credit 1.

This is an introduction to the problems of instrument playing. The student learns simple solos. There is some study of scales and arpeggios. One half-hour lesson per week.

221. Private Instrument. Credit 2.

This is a review of the fundamentals of instrument playing. It includes more advanced studies of scales, arpeggios and solos. Participation in band and/or orchestra. One hour lesson per week.

222. Private Instrument. Credit 2.

This includes more advanced solos, studies, etudes, in addition to review of basic materials of previous grades. Participation in band and/or orchestra. One hour lesson per week.

NURSING

The Associate Degree Nursing Program includes academic study in the college classroom designed to allow both the theoretical input and appropriate clinical assignment and practice to be synchronized to permit transfer of theoretical knowledge into nursing practice. At the completion of this program, the student is awarded an Associate in Applied Science Degree and is entitled to write the National Test Pool Examination to qualify as a Registered Nurse (R.N.).

Admission Requirements: The student's application for general admission to the College must be approved. In addition to the requirements for admission to the College, the following are required of the Nursing Program: 1. Physical examination report signed by a licensed physician. 2. Three character references. 3. Acceptable scores on the ACT test. 4. Personal interview with an admission committee from the nursing faculty.

In order to maintain acceptable standing in the Nursing Program, the student must earn a "C" or better in each nursing and science course. An average grade of "C" for all related courses is also required of Associate Degree Nursing Candidates. Failure in any required prerequisite course will necessitate repeating the course before the student will be allowed to continue with nursing courses in sequence. These statements reflect additional requirements of a professional curriculum involving human health and safety.

Nursing Curriculum

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16

Summer Semester (9 weeks)

Subject			Hours
Psychiatric	Nursing	264	6

Sophomore Year First Semester Subject Approved English Psychology 233 Agternal and Child Health Nursing 291 Second Semester Subject Hours Subject Hours Sociology 231 Addical-Surgical Nursing 292 Nursing Seminar 233 Agternal Seminar 234 Agternal Seminar 234 Agt

Summer Semester (6 weeks) Subject Hours Social Science 3 Social Science 3

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COURSE DESCRIPTION FOR NURSING

161. Fundamentals of Nursing. (3-9). Credit 6.

This course introduces the student to all phases of patient care. Instruction and practice in basic principles and skills are provided. Experiences in the clinical area are developed to provide intellectual and emotional maturation of the student as well as constructive learning. The student is introduced to content which will be pathology, rehabilitation, and prevention as well as sociological and psychological aspects. Hospitals and other health agencies are used for both observation and practice.

192. Medical-Surgical Nursing. (4-15). Credit 9.

This course is an introduction to basic medical and surgical nursing necessary for knowledge and skill in the care of medical-surgical patients. Special emphasis is placed on the nurse and family relationship in helping families to recognize and work out their health needs within the framework of community situations and available resources. The nursing problems of patients with conditions affecting Homeastasis, the body's response to injury, problems of mobilization and

rehabilitation, gastrointestinal disturbances, gynecalogic conditions, the communicable diseases, and care of the surgical patient are considered. Lectures, seminars, and nursing conferences will be utilized in addition to clinical practice. Prerequisite: Fundamentals of Nursing 161 and Anatomy and Physiology.

291. Maternal and Child Health Nursing. (4-15). Credit 9.

The mother, child, and family are considered as a community unit in this course. Experience in the nursing care of the mother during pregnancy, delivery, and post-partal periods, and the infant during the neonatal period are included, as well as selected experiences with the well child. Emphasis is placed on the different needs of children with illness due to the influence of developmental stages and pathological conditions. Health teaching and family problems of daily living are also discussed. Lectures, seminars, and nursing conferences will be utilized in addition to clinical practice. Prerequisite: Nursing 192.

292. Medical-Surgical Nursing. (4-15). Credit 9.

The health problems of the surgical patient involving the preparation, surgical experience, and the recovery and rehabilitation are considered in general. The specific areas included are care of patients with fluid and electrolyte imbalance, urinary conditions, problems of cardiarascular, pulmonary, neurological and endocrine systems. Nursing in a disaster-crisis situation is also considered. The student receives experience in team nursing which will enable her to attain knowledge of the duties and functions of the nursing team. Lectures, seminars, and nursing conferences will be utilized in addition to clinical practice. Prerequisite: Medical-Surgical Nursing 192.

233. Nursing Seminar. (2-2). Credit 3.

A course concerned with present-day nursing, its historical development and its future. The student is introduced to philosophies and patterns of patient care, the planning and management of clinical care of patients is emphasized. Formal and informal organizational relationships and their influence upon nursing care are studied. Designed to enable the student to gain further knowledge and experience in the nursing process. Prerequisite: Nursing 161, 192, 291; upper division standing.

264. Psychiatric Nursing. (3-12). Credit 6.

Classroom and guided clinical experiences centering on prevention and treatment of psychiatric condition, including spe-

cial therapies and the roles of the nurse in caring for emotionally ill persons. Students are guided in the techniques of interpersonal and intergroup relationships in giving nursing care. Community aspects of mental health are studied in various settings, including individual homes, hospitals, and other community agencies. Prerequisite: Medical-Surgical Nursing 192.

PHOTOGRAPHY

First Semester		Second Semester		
Subject	Hours	Subject Ho	urs	
Photographic Principles 141 Commercial Photography 142				
Portrait Photography 143 Introduction to Business 131	4 3	Color Photography 243 Bookkeeping 131 Business Elective	. 4	
	18		18	

COURSE DESCRIPTIONS

141. Photographic Principles. (2-4). Credit 4.

The course includes elements of composition, negative handling, exposure, explanation, and demonstration of negative processing; contact and projection printing; elementary study of light, cameras, lenses, filters, and other photographic equipment; and discussions and demonstrations of different types of negative materials, photographic papers, and their characteristics.

142. Commercial Photography. (2-4). Credit 4.

The course is an advanced study of photography. Extensive practice in the use of professional cameras, enlargers, contact printers, and other photographic equipment is given.

143. Portrait Photography. (1-5). Credit 4.

A study is made of fundamental lighting, camera techniques, posing, composition, processing, and printing as applied to portraiture. Retouching negatives and prints, mounting prints, and making story-telling pictures for fashion and advertising are emphasized.

241. Television Photography. (1-4). Credit 4.

Elementary instruction and practice in movie work for television and allied fields. Laboratory work in editing, splicing continuity, and use and maintenance of the motion picture camera.

242. Portrait Retouching. (2-4). Credit 4.

Portrait negatives retouched by the use of leads, dye, and etching, with special attention to the study of facial structure and demonstrations in printing and retouching negatives. Some color techniques included.

243. Color Photography. (2-4). Credit 4.

Theory and practice, problems encountered in lighting, color harmony and processing. Type-C Color. Basic principles of photomicrography.

PHYSICAL AND HEALTH EDUCATION

Four semesters of physical education activity courses are required in most programs for graduation from Central Texas College. Most senior colleges also have this requirement. The same activity may not be taken more than twice.

Physical Education Curriculum

	Freshm	an Year
First Semester		Second Semester
Subject	Hours	Subject Hours
English 131	3	English 132 3
History 131	3	History 132 3
Biology 141	4	Biology 142 4
Approved Math	3	Approved Math 3
Physical Education 131	3	Physical Education 132 3
Physical Education		Physical Education 1
Psychology 111	1	
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	18	

Sophomore Year			
First Semester	-	Second Seme	
Subject	Hours	Subject	Hours
English 231	3	English 232	3
Government 231	3	Government 232	3
Psychology 231	3	Sociology 231	
Physical Education 231	3	Physical Education 2	
Elective		Elective	
Physical Education	1	Physical Education	1
•	-		
	16		16

COURSE DESCRIPTIONS

Title of Course
Football and Basketball
Volleyball and Softball
Archery and Badminton
Beginning Bowling

PE 114	Folk Dance
$ ext{PE }115$	Ballroom Dance
PE 116	Beginning Swimming
PE 117	Beginning Tennis
PE 118	Beginning Golf
PE 119	Basketball and Soccer
PE 210	Advanced Bowling
PE 211	Advanced Swimming
PE 212	Advanced Tennis
$PE\ 213$	Advanced Golf
PE 214	Tumbling
PE 215	Figure Development
PE 216	Advanced Badminton
$PE\ 217$	Modern Dance
PE 218	Men's Physical Conditioning
PE 219	Varsity Athletics

131. Foundations of Physical Education. (3-0). Credit 3.

A course designed to orient the student in the field of health, physical education, and recreation through presentation of the scope and organization of professional activities, vocational opportunities offered in the field, and essential qualifications of members of the profession.

132. Personal Hygiene. (3-0). Credit 3.

A fundamental course in principles and problems of healthful living as they apply today.

235. Safety and First Aid. (3-0). Credit 3.

Health knowledge and practice with regard to individual and group welfare; personal hygiene; community health problems; communicable disease control and health organizations. Instruction in American National Red Cross first aid methods for emergency treatments of injuries and sudden illness.

SCIENCE

Biology Curriculum

	Freshm	an Year	
First Semester		Second Semester	
Subject	Hours	Subject	Hours
Biology 141	4	Biology 142	4
Chemistry 141		Chemistry 142	
		History 132	3
English 131		English 132	
Mathematics 133	3	Mathematics 134	3
Physical Education	1	Physical Education	1
Psychology 111	1	•	_
			18

Sophomore Year			
First Semester	_	Second Semest	er
Subject	Hours	Subject	Hours
Biology 241	4	Biology 242	4
Chemistry 241	4	Chemistry 242	<i></i> 4
Government 231	3	Government 232	3
English 231	3	English 232	3
*Elective	3	*Elective	3
Physical Education	1	Physical Education	
			_
	18		18

COURSE DESCRIPTIONS FOR BIOLOGY

141. General Zoology. (3-3). Credit 4.

Fundamental principles of living animals with emphasis upon man; includes structure, physiology, taxonomy, development, heredity, and natural history of animals; laboratory includes analysis of organ systems.

142. General Botany. (3-3). Credit 4.

Fundamental principles of plant life with emphasis upon flowering plants; course includes study of structure, taxonomy, physiology, adaptation, ecology, genetics and life histories of plants; laboratory includes study and dissection of representative plant groups.

143. Anatomy and Physiology. (3-3). Credit 4.

Human anatomy and physiology. Laboratory includes experiments in vertebrate physiology and the dissection of a mammal.

144. Microbiology. (3-3). Credit 4.

Fundamental principles of microbiology; includes study of morphology, physiology, classification and their relations of soil, food, water, disease and problems of immunity; special consideration is given to personal and community health.

241. Invertebrate Zoology. (3-3). Credit 4.

Classification, comparison, anatomy and physiology of invertebrates; specimens from the more important invertebrate phyla studied in laboratory; field trips for collection of native invertebrates. Prerequisite: Biology 141.

242. Vertebrate Zoology. (3-3). Credit 4.

Structure, development, physiology and natural history of vertebrate animals; emphasis will be placed on native wildlife; field trips will be included. Prerequisite. Biology 141.

^{*}Many senior institutions require 2 semesters of Physics.

Chemistry Curriculum*

	Freshm	an Year
First Semester		Second Semester
Subject	Hours	Subject Hours
Chemistry 141 German 141 History 131 ***Mathematics 134 English 131	3	Chemistry 142 4 German 142 4 History 132 3 Mathematics 231 3 English 132 3
Physical Education Psychology 111	1	Physical Education1

Sophomore Year			
First Semester		Second Semester	
Subject Hour	'S	Subject Hours	
Chemistry 241	4	Chemistry 242 4	
Mathematics 232	3	Mathematics 233 3	
Government 231	3	Government 232 3	
English 231	3	English 232 3	
Physics 241	4	Physics 242 4	
Physical Education	1	Physical Education 1	
_	_	-	
1	.8	18	

COURSE DESCRIPTIONS FOR CHEMISTRY

131. Introductory Chemistry. (3-2). Credit 3.

An introductory course which covers general principles of chemistry, descriptions of elements and compounds, chemical laws, and applications of chemistry to modern living, carbon and its compounds, foods, nutrition, and biochemical activity.

141, 142. General Chemistry, (3-4). Credit 8.

A thorough study of the modern concepts and fundamental principles of chemistry. Quantitative experiments are stressed during the first semester of laboratory, and the qualitative analysis of the common cations and anions and an introduction to quantitative analysis is studied in the second semester laboratory. Recommended: Two years of high school algebra or concurrent enrollment in Mathematics 132.

241, 242. Organic Chemistry. (3-4). Credit 8.

This course provides a thorough foundation in organic chemistry. A mechanistic approach is utilized in an integrated study of aliphatic and aromatic compounds. Extensive use is made of mechanisms and chemical bonding descriptions. Absorption spectra of organic compounds are studied. Prerequisite: Chemistry 141, 142.

*Check senior college catalogue as requirements vary.

^{**}Students deficient in mathematics must take college algebra and trigonometry as remedial courses. These courses should be taken during the summer school term prior to the freshman year.

Geology Curriculum

	Freshm	an Year	
First Semester		Second	Semester
Subject	Hours	Subject	Hours
Geology 141	4	Geology 142	4
Mathematics 132			3 3
History 131	3	History 132	
English 131	3	English 132	3
Chemistry 141	4	Chemistry 142	4
Physical Education	1	Physical Educat	ion 1
Psychology 111	1		
•	_		18
	19		

Sophomore Year First Semester Second Semester			
	Hours		Houre
Mathematics 231 Chemistry 241 Government 231 Mathematics 134 English 231 Physical Education	3 3	Mathematics 232 Chemistry 242 Government 232 Science Elective English 232 Physical Education	4 4 3
	$\frac{-}{17}$		18

COURSE DESCRIPTIONS FOR GEOLOGY

141. Physical Geology. (3-3). Credit 4.

The physical nature of the earth. The earth's position in the solar system and the galaxy and astrogeology are clarified. Geologic oceanography and the relation of geology and meteorology are stressed. The basic principles of geophysics are discussed and explained.

142. Historical Geology. (3-3). Credit 4.

Principles of stratigraphy and paleontology, the physical and organic record of the earth's history, hypotheses of the earth's origin.

SPACE SCIENCE COURSE DESCRIPTIONS

131. Survey of Astronomy. (3-1). Credit 3.

The main features of the known universe and the principles involved in their discovery. A non-material survey recommended for all students.

132. Descriptive Astronomy. (3-1). Credit 3.

A survey of facts and an introduction to important astronomical theories. The solar system, stars, nebulae, and star systems. Double stars, variable stars, and star clusters. Stellar theories.

COURSE DESCRIPTION FOR PHYSICS

140. Survey of Physics. (3-3). Credit 4.

A survey of the fundamental principles of physics designed to acquaint students with the basic concepts of physics, contemporary physics, and modern thinking.

141. College Physics. (3-3). Credit 4.

Fundamentals of classical mechanics, heat and sound. This course is designed primarily for students who plan to major in medicine, dentistry, veterinary medicine, architecture, pharmacy, and for all other students needing a two-semester course in physics. Prerequisite: Math 133 or registration therein.

142. College Physics. (3-3). Credit 4.

A continuation of Physics 141. Fundamentals of classical electricity, magnetism, light, atomic and nuclear physics. Prerequisite: Physics 141.

241. Engineering Physics. (3-3). Credit 4.

Mechanics, heat, wave-motion, and optics for students of engineering and physical sciences. Prerequisite: Math 231 or registration therein.

242. Engineering Physics. (3-3). Credit 4.

A continuation of Physics 241. Electricity, light, magnetism, sound, and modern physics. Prerequisite: Physics 241 and Math 232 or registration therein.

SOCIAL SCIENCE

500	TAREA L	SCIENCE	
	Freshm	an Year	
First Semester		Second Semester	
Subject	Hours	Subject	Hours
English 131	3	English 132	3
History 131	3	History 132	3
Foreign Language 141	4	Foreign Language 142	4
Science 141		Science 142	
Mathematics 131		Mathematics 133	
Physical Education	1	Physical Education	<i>.</i> 1
Psychology 111	1		
	-		18
	19		
	Sophome	ore Year	
First Semester	_	Second Semester	
Subject	Hours	Subject	Hours
English 231	3	English 232	3
Government 231	3	Government 232	
Foreign Language 231	3	Foreign Language 232	3
*Social Science	3	*Social Science	3
Elective		Elective	
Physical Education	1	Physical Education	1
	 16		16
	10		10

^{*}Social Science course should be related to major or minor if possible.

COURSE DESCRIPTIONS

Anthropology

231. Physical Anthropology. (3-0). Credit 3.

Principles of physical anthropology, human evolution, race, heredity, the organic basis of culture, cultural history through the Paleolithic stage.

232. Cultural Anthropology. (3-0). Credit 3.

Principles of cultural anthropology, cultural history from the Mesolithic stage through civilization, culture, and social organization in preliterate and literate societies, impact of western culture on preliterate societies.

Geography

231. Elements of Physical Geography. (3-0). Credit 3.

The basic physical elements of geography: maps, landforms, climate, natural resources.

Government

231, 232. State and Federal Government. (3-0). Credit 6.

Fulfills the legislative requirement for six hours of American Government. A functional study of the American constitutional and governmental system, federal, state, and local. Special attention to Texas. The origins and development of the American governmental system; federal-state and interstate relations; lesser units of government; the individual as a citizen, person, and voter; political parties. Legislative, executive, and judicial functions in federal and state governments; financing governmental activities; foreign relations and national defense; governmental services and functions.

History

131. History of the United States to 1877. (3-0). Credit 3.

English colonization; the Revolution; adaptation of the Constitution; growth of nationalism; cotton and the slavery problem; war for southern independence. Reconstruction.

132. History of the United States from 1877. (3-0). Credit 3.

New social and industrial problems; rise of the progressive movement; United States emergence as a world power; World War I; reaction and the New Deal; World War II; contemporary America.

133, 134. History of Europe. (3-0). Credit 6.

A survey of the development of European civilization. Major topics include the Graeco-Roman heritage, the barbarian migrations, the growth and development of the Church, the rise of capitalism, medieval society, and the origin of nationalism in Europe. The Age of Reason and the French Revolution, the Napoleonic Wars, the growth of nationalism and democracy in the nineteenth century, the causes and consequences of the two world wars and the rise of dictatorship.

135, 136. History of England. (3-0). Credit 6.

Survey of the development of English society and government reviewing such topics as Roman Britain; the Anglo-Saxon conquest and institutions; Norman origins; decline of feudalism and rise of nationalism; the evolution of English Common Law; the development of Parliament; struggles between Church and State, Crown and nobles, nobles and commoners; King versus Parliament; the growing power of the Prime Minister; the Industrial Revolution; rise to world power; critical later years.

Philosophy

231. Introduction to Philosophy. (3-0). Credit 3.

A general introduction to critical and reflective thinking as applied to the basic problems of existence and the meaning of human life and institutions; study of methods and types of evidence utilized by authority, intuition, revelation, reason and scientific methods, and a study of the nature of philosophy, including its relation to religion, science, and art.

232. Introduction to Ethics. (3-0). Credit 3.

Study of basic principles of the normal life, with critical examination of traditional and current theories of the nature of goodness, happiness, duty, and freedom.

233. Logic. (3-0). Credit 3.

Nature and methods of correct reasoning, deductive proof; inductive proof; fallacies; arguments.

235. History of Christianity. (3-0). Credit 3.

A study of the origin, progress, and development of the Christian religion. Attention will be given to the development of beliefs and the rise of denominations.

236. World Religions. (3-0). Credit 3.

A survey course dealing with the origins, tenets, and development of the major world religions. Deductive method used to understand religion as a phenomenon in man's life. Discussion of Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

Psychology

111. Psychology of Personal and Social Development. (1-0). Credit 1.

Designed to orient the student to college life and to help him to understand his personal problems, such as separation from family, study habits, use of time, vocational choices.

231. Introduction to Psychology. (3-0). Credit 3.

Basic principles of human experience and behavior involving biological, environmental, and sociological studies. An overview course including an introduction to the major studies of psychology. Recommended for students of sophomore standing.

232. Personality Adjustment. (3-0). Credit 3.

A study of psychological concepts and principles related to healthy personality and social adjustment. Prerequisite: Psychology 231.

233. Child Growth and Development. (3-3). Credit 3.

The purpose of this course is to develop an understanding of children and to engender a real interest in them. Consideration is given the human organism as it develops physically, mentally, emotionally, and socially, as well as problems of adjustment.

Sociology

231. Introduction to Sociology. (3-0). Credit 3.

The study of human society; human behavior and personality as a product of group life; community organization; social change and current social problems.

232. Contemporary Social Problems. (3-0). Credit 3.

Identification and analysis of contemporary social problems, development of criteria for evaluating programs for social betterment.

233. Criminology. (3-0). Credit 3.

Causes and manifestations of delinquency; case studies of criminals and their social milieu; the offender and agencies of his adjustment; analysis and evaluation of penal methods.

234. Social Institutions and Processes. (3-0). Credit 3.

Sociological concepts and principles that are basic to an understanding of the complexity of modern society. Students, through firsthand observation and course materials, are familiarized with social institutions, class structures, and social processes which produce social organization and disorganiza-

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tion. Major social institutions are viewed from the standpoint of social structure and social processes, and their future roles in society's operation and influence upon the individual and groups.

235. Social Psychology. (3-0). Credit 3.

The origin and development of personal behavior in interpersonal situations.

TELECOMMUNICATIONS

Broadcast Communications Curriculum

TWO YEAR PROGRAM

Freshman Year			
First Semester Subject Hours	Second Semester Subject Hours		
Radio and TV Announcing 131 3 Intro. to Broadcasting 132 3 Communications Media 141 4 English 131 3 Speech 131 3 Psychology 111 1	Station Management 133 3 Radio Programming 134 3 News Gathering and Reporting 142 4 English 132 3 Voice and Diction 132 3		
11	10		
Sophomo			
First Semester Subject Hours	Second Semester Subject Hours		
Television Production 231 3 Traffic and Operations 232 3 English 231 3 Psychology 231 3 Government 231 3	Television Programming 233 3 Traffic and Operations 234 3 English 232 3 Sociology 231 3 Government 232 3		
$\overline{\phantom{0000000000000000000000000000000000$	15		
FOUR YEAR PROGRAM* Freshman Year			
First Semester	Second Semester		
Subject Hours	Subject Hours		
Radio and TV Announcing 131 3 Intro. to Broadcasting 132 3 Communications Media 141 4 English 131 3 Speech 131 3 Psychology 111 1	Station Management 133 3 Radio Programming 134 3 News Gathering and Reporting 142 4 English 132 3 Voice and Diction 132 3		

^{*}Completion of the four year curriculum entitles the student to a Baccalaureate Degree to be granted by Mary Hardin-Baylor College through a cooperative program with Central Texas College.

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	Sophomo	re Year	
First Semester		Second Semester	
Subject	Hours	Subject Hours	
Television Production 231	3	Television Programming 233 3	
Traffic and Operations 232	3	Traffic and Operations 234 3	
English 231 Psychology 231	ð	English 232	
Government 231	3	Government 232	
202			
	15	15	
First Semester	Junior	Year Second Semester	
Subject Semester	Hours	Subject Hours	
Advanced Television	HOUIS	Advanced Television	
Production 331	3	Programming 334 3	
Broadcast Operations 332	3	Programming 334 3 Broadcast Operations 335 3	
Approved Elective	3	Communications Law 336 3	
Educational Television 333	3	Approved Elective	
History of Christianity 339	3	World Religions 435	
		15	
	Senior	Voor	
First Semester	Semor	Second Semester	
Subject	Hours	Subject Hours	
Telecom Seminar 432	3	Telecom Seminar 434 3	
Field Project 461	6	Field Project 463	
Approved Elective	3	Approved Elective 3	
Course Development 432	3	Methods of Teaching 433 3	
	$\frac{-}{15}$	15	
Broadcast	Engine	ering Curriculum	
	Freshma	ın Year	
First Semester		Second Semester	
Subject	Hours	Subject Hours	
Math of Electronics 131		Math of Electronics 132 3	
Introduction to Broadcasting	g 132 3	Station Management 133 3 Alternating Current Circuits 142 4	
Assembly Methods 135 Direct Current Circuits 141		Vacuum Tubes and	
English 131	3	Semiconductors 143	
Psychology 111	ĭ	English 132	
		-	
17			
	17	17	
First Comaster	17 Sophomo	re Year	
First Semester Subject	Sophomo	re Year Second Semester	
Subject	Sophomo Hours	re Year Second Semester Subject Hours	
Subject Television Productions 231 Solid State Devices 244	Sophomo Hours	re Year Second Semester Subject Hours Television Programming 233 3	
Subject Television Productions 231 Solid State Devices 244 Solid State Circuits 245	Sophomo Hours 3 4 4	re Year Second Semester Subject Television Programming 233 3 Communications Circuits 241 4 Integrated Devices 246 4	
Subject Television Productions 231 Solid State Devices 244 Solid State Circuits 245 Traffic and Operations 232	Sophomo Hours 3 4 4 3	Second Semester Subject Hours Television Programming 233 3 Communications Circuits 241 4 Integrated Devices 246 4 Test Equipment 144 4	
Subject Television Productions 231 Solid State Devices 244 Solid State Circuits 245	Sophomo Hours 3 4 4 3	re Year Second Semester Subject Television Programming 233 3 Communications Circuits 241 4 Integrated Devices 246 4	
Subject Television Productions 231 Solid State Devices 244 Solid State Circuits 245 Traffic and Operations 232	Sophomo Hours 3 4 4 3	Second Semester Subject Hours Television Programming 233 3 Communications Circuits 241 4 Integrated Devices 246 4 Test Equipment 144 4	

Approved Electives must be chosen from the sciences, fine arts, communications arts, or electronics.

COURSE DESCRIPTIONS TELECOMMUNICATIONS

131. Radio and TV Announcing. (3-3). Credit 3.

This course introduces the student to the duties and responsibilities of the announcer such as operation of the audio console, audio-tape recorders, turntables, and other broadcast equipment. The principles of voice production, diction, microphone techniques, and practice in writing and presenting commercial copy, news coverage, and documentaries for radio and television production are also covered. Practical experience will offer opportunities to act as announcers for KNCT radio and television on-air programs. Preparation for the FCC Radio-Telephone Operators third class permit.

132. Introduction to Broadcasting. (3-3). Credit 3.

This is a survey course tracing the history of broadcasting from 1895 to the present including comparative systems of broadcasting, self-regulations, and broadcast practices. The social and ethical implications and responsibilities of the broadcaster are also investigated.

133. Station Management. (3-3). Credit 3.

The course covers the legal and ethical aspects of broadcast management including an in-depth study of the Federal Communications Commission rules and regulations for station licensing requirements and an investigation of copyright laws, libel and slander laws, unionism, human relations, codes of good practice, market analysis, audience surveys, and major issues of concern to the broadcast industry. The student will also study some practical problems of broadcasting such as designing the station or buying an existing facility, equipping the station, budgeting, staffing, programming, and determining the policies and procedural guidelines of operation.

134. Radio Programming. (3-3). Credit 3.

The major areas covered in this course are the fundamental techniques and practices required for production and programming for radio, the relationship of radio and television to other mass communication media, and broadcasting as a vehicle for the cultural, informational, and educational arts when broadcasting in the public interest as specified by the rules and regulations of the Federal Communications Commission.

231. Television Production. (3-3). Credit 3.

In this course the student will study the skills, practices, and techniques required for television camera operation, good sound perspective, set design, graphic arts, and lighting. Also covered in this course will be master control operations, including the use of the switcher, film chain, video tape recorder, and other equipment necessary to the act of broadcasting live studio productions and network affiliated programs.

232. Traffic and Operations. (3-3). Credit 3.

This course offers an in-depth analysis of the technical problems of operations involving program traffic, logs, schedules, internal sales, outside advertising agencies, market analysis, and audience surveys. Also considered are the mechanics of programming relating to talent and talent representatives, music licensing companies, program production and service agencies, broadcasting associations, and network affiliations.

233. Television Programming, (3-3). Credit 3.

Emphasis will be placed on laboratory experiences in planning, writing, producing, and directing representative types of television programs common to the broadcast media. Practical experience will offer opportunities to work as announcers, cameramen, floor managers, lighting technicians, producers, technical directors, and video and audio engineers in live productions produced by KNCT-TV on-air programming.

234. Traffic and Operations. (3-3). Credit 3.

As a continuation of Telecommunications 232. This course offers an opportunity for the student to become involved in the practical application of knowledge and skills gained in Telecommunications 232. Guided learning experiences will be emphasized in the areas of program traffic operations such as maintaining program logs, production of station breaks and program promotions; organization of the television station's program image, coordinating network and local programming; receiving and shipping of program material from outside agencies such as video-tape libraries and motion picture distributors.

241. Communications Circuits. (3-3). Credit 4.

Modulation and demodulation circuits and design of antennas and transmission lines.

331. Advanced Television Production. (3-3). Credit 3.

The major emphasis in this course will be on the planning and preparation of programs with emphasis on dramatic values of composition, movement, position, action, timing, pacing, climax, aesthetic ascending and descending values, and integration of the parts to the whole.

332. Broadcast Operations. (3-3). Credit 3.

This is an introduction to on-air work experience for the student of Telecommunications. Each student will be introduced to the job responsibilities of all areas of production, programming, traffic, and master control operations for both radio and television on-air offerings of KNCT-FM and KNCT-TV.

333. Educational Television. (3-3). Credit 3.

A survey of educational television from its beginning to the present; its similarities and differences as compared to commercial broadcasting; its multiple capabilities of enrichment, augmentation and direct instruction, and its future role in education and as a cultural community service.

334. Advanced Television Programming. (3-3). Credit 3.

A continuation of Advanced Television Production 331, this course emphasizes the coordination of talent, camera, visuals, audio, and lighting with the dramatic values of the presentation. The student also gains practical experience in the production of programs covering such activities as news, drama, variety, discussion, and public service.

335. Broadcast Operations. (3-3). Credit 3.

A continuation of Telecommunications 332, this course allows the student to work at regularly assigned job responsibilities for a specific number of hours. The job responsibility will rotate in order to provide ample opportunity for every student to develop a working skill in each of the work areas required for the operation of a broadcasting facility.

336, Communications Law. (3-3). Credit 3.

This course will be an in-depth study of the Federal Communications Commission Rules and Regulations, treaties and laws pertaining to the overall operation of the broadcast station; a survey of copyright laws, libel and defamation of character laws; contracts and other legal responsibilities associated with broadcasting.

432. Seminar—Telecommunications. (1-4). Credit 4.

"Current Trends in Broadcasting"—Unit I.

"Major Issues Facing the Broadcaster"—Unit II.

"Importance of Broadcasting in Today's Society"—Unit III.

This seminar will consist of the above units plus research and preparation for the senior thesis. The thesis must be on a subject approved by the head of the department and is to be completed the second semester of the senior year.

434. Seminar—Telecommunications. (1-4). Credit 3.

A continuation of Telecommunications 432, with the addition of an investigation of the future role of broadcasting as the foremost mass communication media of tomorrow's society. Completion of the senior thesis is required for graduation.

461. Field Project. (1-8). Credit 6.

The field project will constitute an on-the-job training experience for all students. The laboratory portion will place the student in responsible staff position for on-air broadcast activities of KNCT. In conjunction with this practical training, the student will compile a daily log of his work experience for in-class discussion and criticism.

463. Field Project. (1-8). Credit 6.

A continuation of Telecommunications 461, this course consists of on-the-job training as a staff member of KNCT for on-air operations.

PRE-PROFESSIONAL PROGRAMS

Pre-Medical Pre-Dental*

Freshman Year			
First Semester		Second Semester	
Subject	Hours	Subject Hours	
English 131	3	English 132 3	
Biology 141	4	Biology 142 4	
Chemistry 141		Chemistry 142 4	
History 131	3	History 132	
Mathematics 132	3	Mathematics 133 3	
Physical Education		Physical Education 1	
Psychology 111	1	_	
	_	18	
	19		

Sopho	nore Year
First Semester	Second Semester
Subject Hours	Subject Hours
English 231 3	English 232 3
Biology 241 4	Biology 242 4
Chemistry 241 4	Chemistry 242 4
Government 231	Government 232
Physics 141 4	Physics 142 4
Physical Education 1	Physical Education
_	
19	19

^{*}Check university catalogue of specific medical or dental school since slight variations exist.

Pre-Law**

	Freshm	an Year	
First Semester		Second Semester	
Subject	Hours	Subject Hou	
English 131	3	English 132	3
Mathematics 131		Mathematics 133 Foreign Language 142	ა 4
Foreign Language 141 Science 141	4	Science 142	4
History 133		History 134	
Physical Education	1	Physical Education	
Psychology 111		-	
•			18
	19		
	Sophome	ore Year	
First Semester		Second Semester	
Subject	Hours	Subject Hou	
English 231		English 232	3
Foreign Language 231		Foreign Language 232	3
Science 241 Government 231		Science 242	
History 131		History 132	
Physical Education		Physical Education	1
	$\frac{-}{17}$		$\frac{-}{17}$
	Pre-Vet	terinary	
	Freshm	nan Year	
First Semester		Second Semester	
Subject	Hours	Subject Hot	
English 131		English 132	. 3
Biology 141	4	Biology 142	4
Chemistry 141 Mathematics 132	4	Chemistry 142 Mathematics 133	3
History 131		History 132	
Physical Education	1	Physical Education	1
Psychology 111	1		
	19		18
	19		

	Sophome	ore Year
First Semester	•	Second Semester
Subject	Hours	Subject Hours
English 231	3	English 232 3
		Biology 242 4
Chemistry 241	4	Chemistry 242 4
Physics 141	4	Physics 142 4
Government 231		Government 232
Physical Education	1	Physical Education 1
	19	19

 $[\]ensuremath{^{**}\mathrm{Check}}$ university catalogue of specific law school since variations exist.

Pre-Nursing*

	Freshm	au Year
First Semester		Second Semester
Subject	Hours	Subject Hours
English 131	3	English 132 3
Biology 141	4	Biology 142 4
		Chemistry 142 4
Sociology 231	3	Psychology 231 3
Psychology 111	1	Microbiology 132
Physical Education	1	Physical Education 1
·		
	16	18

^{*}For a four year nursing program see the senior college catalogue of your choice.

CONTINUING ADULT EDUCATION PROGRAM

The purpose of the Continuing Adult Education Program at Central Texas College is to meet the continuing educational needs of the adults in the area. To achieve this purpose, organized programs of instruction will be provided in response to expressed public demand and area needs. These offerings serve both general and specific educational purposes.

The Continuing Adult Education Program is based on the philosophy that the entire area benefits when individual members are successful in meeting their own economic responsibilities and are skilled and competent in their chosen vocations. The intent of adult classes is to provide training for the individual rather than to provide training for employees of a particular company or organization. Therefore, classes are open to the general public.

Classes are geared to the changing needs of the area and changing requirements of businesses and industries in which citizens of the area are employed. These changes are continuously reflected in the course content.

Training is given in areas where job opportunities clearly exist for trained workers and requests for such training have been made by citizens of the area. The programs of study herein described are designed to prepare the student for jobs in business and industry, to insure job competency, and to provide a better understanding of civic responsibilities.

Vocational Education: Vocational courses are designed to offer educational opportunities above the high school level through which adults in the area may qualify for initial employment, increase their vocational proficiency once they have obtained employment, and make satisfactory advancement within their chosen vocations.

Business Education: Classes offered in business are the result of close and constant cooperation between the College and the business community. In many cases, classes are established on the basis of specific requests from area agencies such as the board of realtors, merchants' associations, and chambers of commerce. All business courses, including secretarial and clerical courses, are developed to provide adult students pre-employment and in-service training in areas of knowledge and skills necessary to meet occupational requirements of the area.

Practical Arts: The appreciation of, and participation in, practical arts and vocational interests are essential to the welfare of our society. Adults need opportunities to grow as in-

tellectual and emotional beings, to share in the culture of the past and present, to find worthwhile outlets through experiences in the arts and crafts. Many students find the real joy of living in the experiences of creation and appreciation. While instruction in these activities is not allowed to dominate the program, it is encouraged as a definite part of the educational curriculum of the adult program.

ADULT EDUCATION COURSES

(No college credit)

Banking

Bookkeeping
Business Law and Banking
Business Letters and Banking
Money and Banking
Public Speaking
Negotiable Instruments
Business Administration and Banking
Banking Economics

General Business

Math for Retailing Letter Writing **Business Speech** Rapid Reading for Business and Professional Personnel **Business Communications Employee Communications** Credit and Collections Principles of Supervision Human Relations Record Keeping for Small Businesses Standards for Secretaries Legal Receptionist Medical Receptionist Spanish for Business PBX Receptionist Shorthand Refresher Course Typewriting Improvement Store Security and Hot Checks Personnel Relations

Insurance

Insurance Underwriting Insurance Adjusting

Life Insurance Automobile Insurance C. L. U.

Business Management

Bookkeeping for Small Businesses Accounting Systems Income Tax Problems and Procedures Credit Management Purchasing Personnel Supervision C.P.A. Review

Real Estate

Real Estate Appraisal Real Estate Salesmanship Review Course for Brokers and Salesman License

Salesmanship

Basic Salesmanship Advanced Salesmanship Public Relations

Homemaking

Interior Decoration
Meal Planning and Preparation

Other Non-Credit Courses

Federal Service Entrance Examination
Basic Ceramics
Women's Conditioning Class
Creative Thinking
Great Books Lectures
Archaeology for Beginners
Anthropology for Beginners
Blueprint Reading
Basic Drawing
Driver's Education
General Education Development (GED)
Parliamentary Procedure
Basic Photography
Beginning Welding
Child Psychology

Conversational Spanish
Flower Arrangement
Geneology
Income Tax
Livestock Management
Speed Reading and Comprehension for Adults
Speed Reading and Comprehension for Children

Special Requests

Other non-credit courses may be arranged to meet specific requests from interested community groups.

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