

Collin County Community College 1992-1993 Catalog

COLLIN COUNTY COMMUNITY COLLEGE

CATALOG

Central Park Cambus 2200 W. University Drive P.O. Box 8001 McKinney, Texas 75069-8001 214-548-6790

Spring Creek Campus 2800 E. Spring Creek Parkway Plano, Texas 75074 214-881-5790

1992-1993

No. 6

Collin County Community College (CCCC) is an equal opportunity institution and does not discriminate on the basis of race, color, religion, sex, national origin, age, disability or veteran status.

Collin County Community College complies with The Drug-Free Schools and Communities Act Amendments of 1989 (Public Law 101-226). For more information, contact the Dean of Students or the Director of Human Resources.

POSTMASTER Send address changes to: CCCC Public Information Office 2800 E. Spring Creek Pkwy. Plano, Texas 75074 personal measurability stories

The programs, policies, statements, fees and/or courses contained herein are subject to continuous review and evaluation. CCCC reserves the right to make changes at any time without notice. This publication is intended for information only.

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ACCREDITATION STATUS

Collin County Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees and certificates.

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ACADEMIC CALENDAR

FALL 1	9	9	2	S	U	M	М	E	R	1	9	9	•
Deadline for Graduation Application for Fall 1992	Aug	- 3		TEX	K Regi	stratio	on				ril 1–		
TEX Registration (Summer 1992)	_	. 5 e 5–Aug.	11	_							ıy 17-	-23	
Regular Registration		; 17–19	11	_		egistr				Ma	ıy 25		
Late Registration	Aug					and l							
First Day of Class	Aug				_	stratio				Ma	ıy 27		
Official Census Date	Sept					Day I		ay		Ma	21		
Labor Day Holiday (Campuses Closed	_				_	es Clos					ay 31		
TEX Registration (Spring 1993)		14–Dec.	6		-	of Cla		٦	s Date		ne 1		
TETTTOGISHUM (Spring 1773)		. 13–Dec									ne 4		
Last Day to Withdraw	Nov	. 13							sus Date		ne 9		
ThanksgivingHoliday	Nov	. 26–29					•		thdraw	Jur	ne 25		
(Campuses Closed)								to w1 al Cou	thdraw	Inv	ne 25		
Last Day to Withdraw from a						_			mester		y 1		
Developmental Course	Nov	. 30					-	oliday		Jui	уі		
Deadline for Graduation	1					s Clos		onuay	y	Jul	y 2–4		
Application for Spring 1993	Dec				-			ıms/Te	extbook	7 372	,		
Final Exams/Textbook Buyback		. 7–12			back					Jul	y 1		
Last Day of Semester	Dec		_	Sun	nmer 2	71: Lat	te Re	gistrat	ion	Jul	y 1		
Winter Break (Campuses Closed)	Dec	. 24–Jan.	3	Sum	mer i	77: Fir	st Da	y of C	lass	Jul	y 5		
SPRING	9	9	3	Sum	mer l	7 : Of	ficial	Censu	ıs Date	Jul	y 8		
	-	•	_	Sun	nmer l	III: La	ast Da	ay To	Withdraw	Jul	y 16		
TEX Registration (Spring 1993)	see al								Vithdraw				
Regular Registration	Jan. 6					_		alCou			y 30		
Late Registration	Jan. 1								Vithdraw	Jul	y 31		
First Day of Class	Jan. 1								ithdraw		•		
Official Census Date	Jan. 2					-		al Cou	ırse	Jul	y 30		
No Classes — Staff Development Day	Feb.					for Gr				۸.,	~ 2		
Spring Break (Student Holiday)		h 15–21				on for		1993 xams/		Au	ıg. 2		
Spring Break (Campuses Closed)		h 19–21				Buyb		Xams/		Àυ	ig. 4–:	5	
TEX Registration(Summer 1993)		1-30				II: Fin		ams/				5	
Last Day to Withdraw	April	17–23				Buyb				Αυ	ıg. 5		
Spring Holiday (Campuses Closed)	April			Sun	nmer i	II & I.	II: La	ast Da	y of				
Last Day to Withdraw from a	Apm	9-11		Sem	nester					Au	ıg. 5		
Developmental Course	April	27		Fall	1993	Class	es Be	gin		Au	ıg. 23		
Deadline for Graduation	p	_,											
Application for Summer 1993	May :	3											
Final Exams/Textbook Buyback	May !	5-11											
Last Day of Semester	May	11											
Commencement	May												
Telephone Express Registration (TEX) Summer 1993	May	17–23											
(1211) Summer 1775	1.1uy	., 20											

CCCC OFFICE AND PHONE DIRECTORY

	CENTRAL PARK CAMPUS		SPRING CREEK CAMPU	
	Phone Number	Room Number	Phone Number	Room Number
General Information	548-6790	A111	881-5790	G132
Administrative Services	548-6620	B120	881-5620	
Admissions	548-6710	A111	881-5710	G103
Advising	548-6770	A108	881 - 5778	G105
Arts and Humanities Division	548-6830	A206	881-5810	B189
Articulation and Transfer	548-6770	A108	881-5757	G103
Bookstore	548-6680	A104	881-5680	G124
Business and Engineering Division	548-6830	A206	881-5831	F135
Business Office	548-6630	B209	881-5634	G115
Refunds/Tuition/Fees	548-6637	B220	881-5634	G115
Cooperative Work Experience	.548-6735	B252	881-5735	B235
Dean of Students	548-6770		881-577 1	G103
Developmental Education	548-6896	B336	881-5720	K104
Director of Testing			881-5739	F131
Enterprise	548-6850	A354	881-5850	F102
Financial Aid	548-6760	A111	881-5760	G103
Future Shop	548-6770	A108	881-5781	G103
Human Resources	548-6660	B216	881-5660	K218
Institutional Advancement	548-661 1	A129	881-5611	
Library/Learning Resources Center	548-6860	B105	881-5860	D151
Physical Plant/Security	.548-6690	A116	881-5690	K020
President's Office	548-6600	A130	881-5600	
Public Information Office	548-6610		881-5610	B193
Publications			881-5613	K119
Registrar's Office	548-6744	A111	881-5144	G103
Science and Health Division	548-6880		881-5880	K102
Social Science Division	548-6830	B305	881-5800	B240
Project SPARK	548-6827	B331	881-5898	G239
Student Activities	548-6788	B251	881-5788	F129
Student Development Center	548-6700	A111	881-5700	G103
Testing Center	548-6849	B342	881-5922	5232
Vice President of Instruction	548-6800	B302	881-5801	G228
For offices not listed	548-6790		881-5790	

Note: Areas without a room number on either Central Pork Campus or Spring Creek Campus hove offices only on the campus listed.

BOARD OF TRUSTEES/CCCC PERSPECTIVES



CAREY COX CHAIRMAN



JAMES B. DICKSON TREASURER



TINO TRUJILLO VICE CHAIRMAN



GARY Z. HARRIS



SUE WILLARD OLIVIER SECRETARY



GLENN W. JUSTICE

COLLIN COUNTY COMMUNITY

COLLEGE IS GOVERNED BY A NINEMEMBER BOARD OF TRUSTEES.

MEMBERS ARE ELECTED AT-LARGE BY

COLLIN COUNTY RESIDENTS FOR SIXYEAR TERMS OF OFFICE. TRUSTEES

ARE RESPONSIBLE FOR SETTING

POLICY FOR THE COLLEGE AND SERVE

WITHOUT COMPENSATION. REGULAR

BOARD MEETINGS ARE HELD EACH

MONTH AND ARE OPEN TO THE

PUBLIC.

Mission Statement

Collin County Community
College affirms as its mission
the commitment to provide,
within the resources available,
educational programs and
services which meet individual
and community needs. The
college is committed to
lifelong learning through
quality and excellence in all
educational areas including
transfer/parallel, vocational,
technical, developmental, a
general education core and
continuing education.

PHILOSOPHY AND PURPOSE

CCCC believes that programs and services of the college should be available to all citizens who can benefit from them. Within this context, the purpose of the college is to create an environment which will help people to: live creative, humane, ethical, healthy and sensitive lives; recognize, accept and encourage the celebration of differences in personal, racial, ethnic and cultural backgrounds; relate to others openly and responsibly; generate the motivation to continue learning throughout life; develop an appreciation for all occupations, recognizing that dignity and honor come from a task well done rather than from the status of a vocation; acquire the skills necessary for earning a living in a way that will promote the general welfare; and prepare for a beneficial use of leisure time.

GOALS

Collin County Community
College exists to serve the
educational needs of the
citizens of Collin County and
has established the following
goals to meet these needs.

Transfer/Parallel Education

Students completing the twoyear associate of arts or associate of science degrees are able to transfer with junior class standing to any college or university in the United States.

VOCATIONAL TECHNICAL EDUCATION

Students completing vocational/technical programs qualify for employment in their fields of study.

DEVELOPMENTAL EDUCATION

Students are provided with opportunities for develop-ing the necessary skills to successfully complete pre-baccalaure-ate/technical or general studies programs.

GENERAL EDUCATION CORE

Through a broad spectrum of disciplines, students are exposed to concepts, values and philosophies which lead to the development of skills that are essential to functioning effectively in a democratic society.

CONTINUING EDUCATION

Personal and professional development of the citizens of the county and a philosophy of lifelong education are promoted.

PERSONALIZED STUDIES

Individually-tailored programs are designed for students with unique interests and needs.

INSTRUCTIONAL SUPPORT SERVICES

Library/media facilities, resource centers, laboratories, alternative learning centers and qualified staff are provided to implement the college's programs and meet student, state and community needs.

STUDENT DEVELOPMENT PROGRAMS

These programs provide professional assistance to all students in establishing and accomplishing educational and career goals.



J.R. (BOB) COLLINS



E.T. BOON

Co-CURRICULAR

Experiences are provided which complement instructional programs of the college as well as promote the personal and professional development of the student body.

ECONOMIC AND COMMUNITY DEVELOPMENT

The college is to be a major contributor to the economic growth and development of Collin County.



MARGARET REYNOLDS



JOHN H. ANTHONY
CCCC PRESIDENT

HISTORY



GROUNDBREAKING CEREMONIES FOR THE NEW WING OF CENTRAL PARK CAMPUS, MAY 19, 1992.

Collin County Community College District was authorized on April 6,1985. The fust classes were offered in the fall of 1985 in high schools throughout the county. Central Park Campus opened its doors to students in January 1986. This campus is a 130,000 square-foot facility located on 100 acres of land near the intersection of Highways 75 and 380 in McKinney, Texas.

In the fall of **1988**, construction of a second campus was completed. Spring Creek Campus, located at the juncture of East Spring Creek Parkway and Jupiter Road in east Plano, is a **380**,000 square-foot facility housing a physical education complex, a conference center, a theatre, a student lounge, a Learning Re-

sources Center and a food service area, in addition to classroom, laboratory and office space.

Day and evening classes are offered **at** both Central Park
Campus and Spring Creek Campus as well **as** other locations
throughout the county. The college does not limit the use of its
facilities to students only. All Collin County residents are encouraged to **use** the facilities at both campuses.

In 1990, the college purchased 125 acres of land in the southwest part of Collin County for the construction of a third campus site, Preston Ridge Campus.

ADMISSIONS AND REGISTRATION

ADMISSIONS PROCEDURES

Collin County Community College operates under an "open door" admissions policy. Students who are 18 years of age or older with a high school diploma or equivalent **are** eligible for admission. Other students may be admitted under special admissions requirements that follow. The college reserves the right to guide the placement of students through assessment, which may include interviews and a review of past academic achievement.

Registration options **are** enhanced and delays may be avoided **by** completing all admissions requirements in advance of registration.

NEW STUDENT ADMISSIONS

New students should submit to the Admissions Office:

- 1. An application for admissions. This application may be submitted prior **to**, or at the time of, registration.
- 2. An official transcript from their most recent high school or college attended or a copy of their GED scores. Students applying for and/or receiving financial aid or veterans benefits will be required to submit a complete record of all academic work including high school transcripts. Degree-seeking students will be required to submit all official transcripts.
- 3. While not required, the college recommends that all students who have completed the SAT and/or ACT submit their scores.
- **4.** All degree-seeking students **are** encouraged to complete the reading, writing and math assessments. Enrollment in College Success Skills (HDEV **030**) is highly recommended for **a**ll first-time college students.

Admission to the college does not guarantee admission to a **specific** program of study. Programs in nursing, emergency medical technology, respiratory care and child development have additional admissions criteria. Contact the division office for information on program requirements or restrictions.

In its admissions policies and practices, CCCC does not discriminate on the basis of race, color, religion, sex, national origin, age, disability or veteran status in accordance with federal law.

STUDENTS WITHOUT HIGH SCHOOL DIPLOMA OR GED

Students without a high school diploma or equivalent should contact the Admissions Office at 548-6710 or **881-5710** for requirements.

RETURNING STUDENT ADMISSIONS

Former CCCC students who have not **been** enrolled during the preceding two regular (16-week) semesters will need to reapply for admission. An application for readmission and an official transcript from any colleges or universities attended since their last enrollment at CCCC are required.

For more information on residency see page 12,

TRANSFER STUDENT ADMISSIONS

Transfer students who are in good standing academically and otherwise at the last institution of higher education attended are eligible for admission. An application for admission and their most recent college transcript are required.

Students who transfer to CCCC from other institutions of higher education will be awarded credit according to the conditions that follow.

- Credit must have been earned at a regionally accredited institution of higher education. Foreign transcripts will not be evaluated at CCCC.
- **2.** An official transcript from all institutions of higher education attended by the student must be on file at CCCC.
- 3. Official course descriptions from the catalog under which the student attended are required for evaluation.
- 4. Credit for courses equivalent to those listed in the catalog will be accepted if the courses are required on the student's degree plan for graduation. Other credits may be accepted in lieu of elective courses depending on the student's program of study.
- An official evaluation may be requested at any time, but it will be completed and recorded on the CCCC transcript only after the student has completed six semester hours at CCCC.
- Official evaluations are conducted by the degree plan coordinator. Final approval rests with the division dean.
- 7. Grades of "D are accepted from other institutions; however, a cumulative GPA of 2.0 is required for graduation. Grades of "F" and "T" do not transfer.
- 8. Waivers for physical education requirements may be granted for medical reasons. A written statement from a physician and two additional hours of electives are required. Credit for HPED courses is awarded for military training upon receipt of a student's DD214 (Honorable Discharge).

- **9.** While there is no limit on the number of hours that can be transferred into CCCC from other institutions, there is an 18 credit hour residency requirement to earn an associate degree from CCCC. Students obtaining certificates containing 18 hours or less must complete course work in residence at CCCC. Petitions to transfer credits into certificate programs containing 18 hours or less may be made to the division dean through the degree plan coordinator.
- 10. Time limits and minimum grade requirements may be. imposed for transfer work into select programs. Contact the program coordinator or division dean for details.

CONCURRENT **ENROLLMENT** PROJECT FIRST STEP

High school students may, with permission of the appropriate high school officials, be concurrently enrolled in high school and college courses.

Requirements for admission include a letter of recommendahon from the high school counselor or other school official, an official high school transcript reflecting work completed to date,

parental permission, assessment, orientation and/or an admission interview. Instructor approval may be required. All students within the age of compulsory secondary attendance who are admitted must maintain at least a 2.0 GPA (withno grade below a "C") and will be enrolled provisionally on a semester by semester basis. Credit will be awarded according to state, local and institutional policies in effect at the time of enrollment. Contact the Admissions Office for more information.

STUDENTS BORN **O**UTSIDE THE **U**NITED STATES

Students on temporary visas or holding permanent residence cards may be eligible for admission. To verify residency status, students are required to present their visa or permanent residence card with their application.

INTERNATIONAL STUDENT ADMISSIONS! F-1, F-2 Visas

All international students must provide the Admissions Office with the following:

- 1. application for admission;
- 2. official international TOEFL score of 525 or above:

- 3. a completed statement of financial support (available from the Admissions Office):
- 4. official transcripts (school records) and/or test results reflecting completion of twelve years of primary and secondary education.

Official transcripts (school records) from all colleges and universities previously attended. Collin County Community College does not evaluate transcripts or award credit earned at foreign institutions, however, students may be eligible for credit through examination at the college; and

5. a valid visa or passport upon arrival.

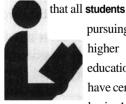
International students who do not qualify under these requirements will be advised by the Admissions Office as to how they might acquire the necessary qualifications. It is recommended that all admissions materials be received 30 days prior to regular registration to ensure issuance of the 1-20.

STUDENTS ON PROBATION OR SUSPENSION

Students currently on or suspension from, or otherwise ineligible for admission to other institutions of higher education must petition for admission. For consideration, official transcripts from all colleges and universities previously attended and an interview are required—prior to late regishation. Admission and continued enrollment are provisional. The college reserves the right to limit the number of hours or specify courses in which a student on probation or suspension may enroll. Probationary status may be imposed while at CCCC. See the section on satisfactory progress or contact the Admissions Office for additional information.

TEXAS ACADEMIC SKILLS PROGRAM (TASP)

In an effort to ensure



pursuing higher education have certain basic skills.

the State of Texas has enacted legislation which requires the following:

The **Texas** State Education **Code**requires that all students "...who enter public institutions of higher education in the fall of 1989 and thereafter 🚜 be tested for reading, writing and mathematics skills." This includes all "full-time and part-time freshmen enrolled in a certificate or degree program...," "any nondegree students prior to the accumulation of nine or more (college) credit hours or the equivalent," and "any transfer student with fewer than 60 semester credit hours or the equivalent who has not previously taken the tests." All students seeking teacher certification will be required to take TASP. Performance on TASP will not be used as a condition for admission

A student may not "enroll in any upper division course, (the) completion of which would give the student 60 or more semester credit hours, or the equivalent until the student's test results meet or exceed the minimum standards in all test scores." Other assessment procedures may be used in exceptional cases to allow a student to enroll in upper division courses "...in cases where test results do not meet minimum standards" (TexasEducation Code. Sec. 51,306). Studentsmay continue to take and accumulate lower division courses past the 60 hour limit, hut will

be unable to graduate with a degree or eligible Certificate until they have passed the TASP test. Until TASP is successfully completed, continuous remediation is mandated. New students will be required to furnish the college with necessary proof regarding TASP status. The test fee will be paid by the student.

Note: For specific current information about TASP and CCCC's testing, contact the director & testing. Please note that, in addition to the state test, the college requires new students to be assessed in reading, writing and mathfor diagnostic and course placement purposes. Developmental classes and tutorial assistance are availablefor students who need or want this support. Transfer students mustprovide documentation & TASP status.

Documentation
may be in theform
FASP score
reports, official
transcripts or other
score reports.

Students
requesting exemption from TASP
should provide the
Admissions Office
with documentation
of receipt of at least
three hours of
college-level credit

earned prior to September 1, 1989. Documentationmay include:

- an official transcript (college, university, hade, foreign university, or military);
- an official score report (AP, CLEF, DANTES).

ORIENTATION

Orientation provides an overview of the policies, procedures, services and student activities at **CCCC**. Although all first-time college students **are** strongly encouraged to attend orientation upon completion of local assessments and prior to their initial enrollment, transfer and returning students not familiar with the college would also benefit from the program. The orientation schedule can be found in the class schedule.

REGISTRATION PROCEDURES

TELEPHONE EXPRESS REGISTRATION (TEX)

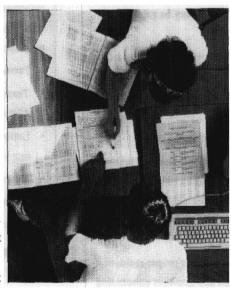


TEX provides students with an opportunity to enroll

early in courses for the subsequent semester, This process is designed for students who have completed admissions and assessment requirements and met with their assigned academic adviser. TEX registration enables students to have earlier course selection, deferred tuition payment and more comprehensive advisement. See the current Schedule c Classes for a listing of dates, times and complete instructions regarding TEX.

REGULAR REGISTRATION

Regular registration is scheduled prior to the beginning of classes with admissions, assessment and advising services available at that time. Comprehensive admissions, assessment and advising programs are more easily obtained prior to regular registration and students are encouraged to complete these processes early. Tuition and fees are due at the time of registration. See the current Schedule of Classes for a Listing of regular registration times and locations.



LATE REGISTRATION

Students who wish to register late should do 50 within the published late registration schedule. A late registration fee will be assessed. This fee is not assessed to students who have completed registration during Telephone Express or regular registration periods and are making schedule changes.

REGISTRATION FOR CONTINUING EDUCATION CLASSES

Each semester CCCC offers continuing education classes to community members through the Continuing Education Division. Registration for these classes can be done in four ways:

- Walk-in registration-Available at both campuses, times are listed in the current ContinuingEducation Schedule of Classes.
- Phone-in registration In McKinney call (214) 548-6855 and in Plano call (214) 881-5747. Times and dates are listed in the current schedule of classes.
- 3. Mail-in registration Send your registration information to: Registration, Collin County Community College, 2800 E. Spring Creek Pkwy., Plano, Texas 75074. See the current schedule of classes for registration deadlines.
- 4. Fax-in registration—Check current Continuing Education Schedule of Classes for fax availability.

See page **36** for more information on continuing education.

RESIDENCE REQUIREMENTS



To be considered a Texas resident, students must clearly establish residence in **Texas** for the **12** months preceding their enrollment. Documentation of Texas residency may be required **as** shown in Figure 1.

- An in-county student is an individual who is a resident of Texas and who resides in Collin County at the time of registration
- An out-of-county student is a resident of Texas who resides outside of Collin County at the time of registration.
- An out-of-state student is an individual who has not resided in Texas for 12 months preceding registration or whose permanent resident card is less than 12 months old. Most students on temporary visas will also be classified as non-residents for tuition purposes.

The responsibility for registering under the proper residency classification is that of the student and any question concerning the student's right to classification as **a** resident of Collin County must be clarified prior to the time of enrollment at CCCC. Changes of address, name, etc. must be reported promtly to the Registrar's Office. This enables you to receive registration and other inforation from various college departments and programs.

Changes & address affecting residency should promptly be reported to the Admissions Office.

Students who are dependent on a parent's residence status must also submit the top portion of the Federal Income Tax form for the current and preceding years.

AD VALOREM WAIVERS

Students who have not lived in Texas for the 12 months preceding registration, but who **own** property in Collin County, may be eligible for an ad valorem waiver. A copy of one's deed is required for verification. If this waiver is based on a student's parents' property ownership, a copy of their most recent Federal Income Tax form showing the student as a dependent is also required. Once Texas residency has been established (12 months), the student should submit the necessary documentation listed in Figure 1 below, to the Admissions Office. At that point, ad valorem waivers will no longer be necessary. *Property* owners on *most types of temporary visas are not eligible for the ad valorem waiver*.

DOCUMENTS TO SUPPORT RESIDENCY

Documentation of Texas residency may be required if the information given **on** the enrollment application is not adequate to prove residency. If **so**, the following documents may be used in meeting residency requirements.

- Permanent Texas driver's license (at least one year old)
- Texas high school transcript (if enrolled within the last 12 months)
- Letter of employment on company letterhead (verifying one year of employment)
- Texas voter's registration card (at least one year old)
- Lease agreement covering the past 12 months
- Collin County property **tax** statements

FIGURE 1

STUDENT ID CARDS

All credit students at Collin County Community College are required to have a student identifiaction to **use** the services provided by the Bookstores, Fitness Centers, Future Shop, Registrar's Office, Student Activities office, Student Employment Office and Testing Center. Each student will have one ID card to **use** throughout **his** or her enrollment at CCCC, and must be issued a validation sticker (fre of charge) at the beginning of each **semester** in which they **are** enrolled.

A \$2 non-refundable fee is assessed with other registration fees for each student who has not previously purchased an ID card. First-time cards and validation stickers are issued during registration periods to all new and returning students. Replacement cards will be issued on an as needed basis at a cost of \$2 each for those whose cards have been lost or stolen, who have had a name change or who would prefer a new photo.

Students should go to the Student Activities **Cffice** at either campus with **a** valid photo ID to have their student ID cards and/or validation stickers issued.

Student ID cards are also valuable in the community. Students are eligible to receive discounts at participating restaurants, movie theaters and businesses as well as lower admission rates to some CCCC programs and events.

TUITION AND FEES

Tuition is **based** on residency and the number **of** credit hours for which a student enrolls. Following is a schedule of tuition and fees by residency classification.



TUITIONSCHEDULE

	IN-COUNTY	OUT-OF-COUNTY	OUT-OF-STATE
CREDIT	(\$18 PER	(\$25 PER	(\$60 PER
Hours	CREDIT HOUR)	CREDIT HOUR)	CREDIT HOUR)
1	*\$28	'\$28	**\$203
2	\$36	\$50	**\$206
3	\$54	\$75	**\$209
4	\$72	\$100	\$240
5	\$90	\$125	\$300
6	\$108	\$150	\$360
7	\$126	\$175	\$420
8	\$144	\$200	\$480
9	\$162	\$225	\$540
10	\$180	\$250	\$600
11	\$198	\$275	\$660
12	\$216	\$300	\$720
13	\$234	\$325	\$780
14	\$252	\$350	\$840
15	\$270	\$375	\$900
16	\$288	\$400	\$960
17	\$306	\$425	\$1,020
18	\$324	\$450	\$1,080
19	\$342	\$475	\$1,140
20	\$360	\$500	\$1,200
21	\$378	\$525	\$1,260
	•	•	,

^{*} minimum tuition required per semester by law. Note: a \$3 per credit hour building usefee is included in the above figures.

Lab fees are additional costs. Additional fees may be assessed as new **programs** are developed. These fees will be kept to a practical minimum.

Special fees and chargesmay be added as necessary and as approved by the board of **trustees**.

- Student ID fee: \$2 (initial card, replacement cards cost an additional \$2 each)**
- Laboratory fee: \$0 to \$24 per lab***
- Audit fee: \$25 per course** plus tuition and any other applicable fees
- Late registration fee: \$10**
- Transcript fee: \$2 per official copy
- Returned check fee: \$10
- Graduation fee: \$30**
- Certification fee: \$5**
- ** non-refundable

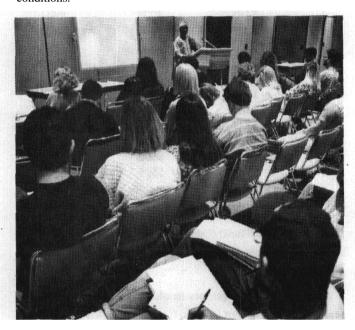
***some physical education classes have higher lab fees
Note: firemen and honor graduate students that qualify for a
tuitton waiver are required to pay the \$3 per credit hour building
use fee charged to all students.

BOOKSTORE

The bookstore is an auxiliary enterprise of **CCCC**. Textbooks are selected by the faculty and ordered through the bookstore. Book prices are established by the book publishers and change at their discretion. The majority of textbooks are billed to the college at the selling price less **25** percent. **Used** books, sold at **75** percent of the new price, **are** purchased by the bookstore whenever available.

TEXTBOOK & LANGUAGE TAPE REFUNDS

Students who change courses or select the wrong books and language tapes may return them for a refund under **the** following conditions.



- Books or language tapes are returnable during the first 10 class days of the fall and spring semesters, and the first five days of the summer semesters.
- **2.** Students must have their original cash register receipt to receive a refund.
- Students should not write in new books until they are certain they have the correct books. New books which have been written in will not receive a full refund.
- 4. Books and cassette tapes in shrink wrap (plastic or vinyl packaging) must be returned unopened in the original package. Books cannot be accepted if the shrink wrap has been removed.
- **5.** Defective books missing pages, etc. will be replaced at no charge during the semester in which they were purchased.

TEXTBOOK SHORTAGES

The bookstore makes every effort to have the required textbooks by registration week. For various **reasons**, there may be shortages: out-of-print or out-of-stock by the publisher, unexpected increases in enrollment, late placement of orders by the faculty, missing shipments and human error. Every attempt is made to minimize these problems.

TEXTBOOK BUYBACK

Books are bought back every day at their current market value. Fifty percent of the original purchase price, subject to the following conditions, will be paid during final exams of each semester:

- 1, Books must be in clean, salable condition.
- **2.** Books must be required for use by the college during **the** next semester.
- 3. Books must be current editions.
- 4. Workbooks, lab manuals, study guides, mass-market paper-backs, books with tom covers, excessive marketing, water damage, books with perforated pages and books containing diskettes cannot be bought back.
- **5.** Books cannot **be** bought back if the **store** is overstocked, or if needs for the following semester have been filled.

The faculty, not **the** bookstore, decide whether or not each textbook will be **used** again. Unless **an** instructor tells the bookstore he/she will use that title again, the bookstore must **assume** it will not be used. Books falling into this category can be bought **frem**students only at used wholesale prices. Old editions have no value and cannot **be** resold even to wholesalers. Some courses at **CCCCare** not taught **every semester** and students may wish to sell their books when that course is offered again, provided the faculty member requires the same books.

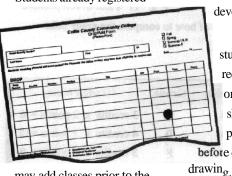
CHECK CASHING

Checks may be cashed in **the** amount of **\$10** with or without a purchase. MasterCard, VISA, checks and cash **are** accepted **as** payment. Studentsmust show their **CCCC** student ID card to write or cash checks and to **make** credit card purchases.

ACADEMIC POLICIES

Adding/Dropping Courses

Any change in a student's class schedule is accomplished by completing the official Add/Drop Form obtained from the Registrar's **Office** or by calling Telephone Express. Students already registered



may add classes prior to the third class hour. Adding and dmpping should be student-initiated. Students may drop a college-Id course with a grade of "W" through the end of the 12th class week during a regular (16-week) term, through the end of the fourth week in a short (five-week) summer term, and through the college end of the seventh week in a long (10-week) summer term.

Students may drop a developmental coursethrough the end of the 14thweek during regular (16-week) terms, the end of the fourth week during short (five-week) summer terms, and the end of the ninth week during a long (IO-week) summer term,

unless they are required by TASP to be in remediation.

Students who are enrolled in a developmental course for TASP purposes may *not* drop their only developmental course unless they completely withdraw from the college. For information, see the dean of

developmental education.

International students and students areceiving financial aid or veteran's assistance should see the appropriate college official before dropping or with-

See "Withdrawal from the College," page **22**, for exact procedures.

Students should contact their professors prior to initiating a drop or withdrawal. A student who discontinues class attendance and does not officially drop the course will receive aperformancegrade for the course.

AUDIT

Registration to audit a course will he permitted as long as a credit student is not displaced from the class as a result of the audit. *An* audit student is subject to the usual registration process. Tuition and fees for an audit are included in the tuition and fees schedule.

Since state reimbursement is not received for audits, a special non-refundable audit fee is assessed in addition to tuition (see page 13).

Students who **are** auditing classes will not receive grades or credit for the course, but the transcript will indicate that the course was audited. Students who are auditing classes will not be required to take tests; however, participation in regular class activities is expected. Enrolled students may not change to audit status following the certification date for that course. *Foreign language classes may not be audited*.

CLASS**A**TTENDANCE

Regular classroom attendance is expected of all students. Class attendance requirements are determined **by** professors, therefore, a student should ascertain each professor's attendance policy during the first day of the class.

Students who receive Veterans Administration educational benefits must conform to attendance and academic standards as established by the Veterans Administration and college policy. Information concerning requirements for attendance, satisfactory progress, certification of benefits and all other questions affecting veteran students may be obtained from the director of financial aid/veterans affairs. It is the veteran student's responsibility to determine and conform to college policies affecting veterans.

RELIGIOUS HOLY DAYS

In accordance with Section **5**1.91**1** of the *Texas Education Code*, CCCC will allow a student who is absent from class for the observance of a religious holy day to take an examination or complete an assignment scheduled for that day within a reasonable time. Students are required to file a written request with each professor within the first 15 days of the semester to qualify for an excused absence. A copy of the *state* rules and procedures regarding holy days and the form for notification of absence from each class under this provision are available from the Registrar's Office.

GRADING SYSTEM

Α	Excellent	4 grade points per semester hour
В		3 grade points per semester hour
С	Above Average	2 grade points per semester hour
_	Average Below Average	1 grade point per semester hour
D F	Failure	O grade points per semester hour
_		~ ·
W	Withdrawal	0 grade points per semester hour; is not computed toward cumulative GPA or cumulative hours.
I	Incomplete	0 grade points per semester hour; not computed toward cumulative GPA until it is replaced with a performance grade. (See "Incomplete Grades/Contracts" section.)
IP	In-Progress	0 grade points per semester hour; student has completed 70 percent of the program but is not yet at compe- tency level. Earned only in Math 010; READ 040,041 and 042; and ENGL 041 and 041; isnotcomputed toward cumulative GPA. Student must complete the remaining work during the next long semester or receive an "IP" as the permanent
		grade.
TP	TASP Remediation In-Progress	O grade points per semester hour; is not computed toward cumulative GPA. Earned only in MATH 010. Student must re-moll and pay tuition during the next long semester.
AU	Audit	O grade points per semester hour; is not computed toward cumulative grade point average nor cumulative hours.
CR	Credit	0 grade points per semester hour; is not computed in GPA but is computed in cumulative hours. Earned only when recording non-traditional credit.
Z	No grade reported by professor	O grade points per semester hour until it is replaced by a performance grade; is not computed in cumulative grade point nor cumulative hours.

At the completion of **each** term, the college will determine the student's semester and cumulative grade point averages which will be recorded on a grade report to be received by the student.

Grades earned in developmental education courses are not averaged into the cumulative GPA.

CALCULATING GRADE POINT AYERAGE (GPA)

Grade points represent the translation of letter grades into numerical values. The grades that have grade point values are:

- A 4.0 grade points for 1 credit hour
- B 3.0 grade points for 1 credit hour
- C 2.0 grade points for 1 credit hour
- D 1.0 grade points for 1 credit hour
- F 0.0 grade points for 1 credit hour

The cumulative GPA is the result of dividing the total of all quality grade points earned by the total number of quality hours/credits attempted (excluding "I"s, "P"s, "TP"s and developmental course work). An example of how to compute the grade point average is provided below.

Course Name	Credits	Grade	Grade Points
ENGL 152	3	С	$3 \text{ credits } \mathbf{x} 2 \text{ points} = 6$
BIOL 151	4	В	4 credits x 3 points = 12
PSYC 151	3	F	3 credits $x = 0$ points = 0
MATH 010*	3	A	
HPED 130	1	A	1 credit x 4 points = 4
Tot	al= 11		Total = 22

Quality points earned Quality hours attempted: $\frac{22}{11} = 2.0 \text{ GPA}$

HIGH ACADEMIC ACHIEVEMENT

All students who complete **12** or more quality semester hours during a regular (16-week) **term** with a **35** GPA or above qualify for the Dean's List.

All students who complete **12** or more quality semester **hours** during a regular (16-week) term with a 4.0 GPA qualify for the President's List.

^{*}Since no quality grade points or hours creditare given for "I," "IP, ...
"TP" or developmental course work. the creditsfor MATH 010 are not used in computing the GPA.

GRADUATION

The college offers associate of arts, associate of science and associate of applied science degrees, and certificate programs. Students who plan to graduate from CCCC should file a degree plan with the degree plan coordinator prior to the completion of 30 credit hours. Students may graduate under any of the college's catalogs from the preceding five years as long as the student was enrolled under that catalog; however, students may benefit from graduating under the requirements of a recent catalog.

A student who completes specific course requirements for a degree or certificate with a minimum cumulative grade point



average in the degree plan of **2.0** is a candidate for graduation. Note: transfer credits used toward graduation will be calculated in the cumulative gradepoint average.

Graduation honors will be awarded for students with the following cumulative grade point average in their degree plan. Note: transfer credits used toward graduation will affect graduation honors.

4.0 Summa cum laude 3.75–3.99 Magna cum laude 3.5–3.74 Cum laude

ASSOCIATE DEGREE

Studentsmay earn an associate of **arts** degree or an associate of science degree. Studentsmay also earn an associate of applied science degree and Certificates. See pages 45–97 for specific

degree plans. To graduate, students must complete a minimum of 18 credit hours at CCCC and *satisfy* all other degree requirements. Non-traditional credit will not meet this residency requirement. Candidates for an associate degree must submit an application for graduation and pay the assessed graduation fee **no** later than the deadline established for that semester.

Students with less than **six** hours remaining toward completion of an associate degree may participate in graduation ceremonies *provided* they *are pre-registered* for the *appropriate summer courses*. Students planning to complete graduation requirements during a summer session and participate in graduation ceremonies must file for graduation and pay any necessary fees by the preceding spring semester deadline.

CERTIFICATE **PROGRAM**

Students obtaining certificates containing 18 hours or less must complete course work in residence at CCCC. Petitions for transfer credits into certificate programs containing 18 hours or less may be made to the division dean through the degree plan coordinator. Certificates will be awarded **upon** completion of program requirements. Fees are due prior to awarding the certificate. Students earning certificates may participate in commencement ceremonies, after paying the graduation fee.



INCOMPLETE GRADES/CONTRACTS

Incomplete contracts must be agreed to and signed by the involved student, professor and appropriate division dean at the close of the term in order for a grade of "I" to be assigned. The contract must define the exact requirements the student is to fulfill in order to receive a performance grade. Requirements of incomplete contracts must be completed as specified in the contract, but by no later than the end of the following 16-week term. The contract may state that if the work is not completed as specified, the grade will be changed to a performance grade based on the quality and amount of work completed. Failure to remove an "I" as contracted will result in an "I" being placed on the permanent record.

NON-TRADITIONAL COLLEGE CREDIT (NTCC)

Various credit options enable persons who have acquired knowledge and skills in non-traditional ways to demonstrate academic achievement. Credit may be given for college-level experience as demonstrated by acceptable test results regardless of the means by which the knowledge was acquired, except for college credit that has been previously granted. Students may also receive credit for some previous military training. Please

note that a fee for test administration and transcript recording will be assessed. Without special permission from the vice president of instruction, not more than 18 hours of NTCC may be counted toward a degree.

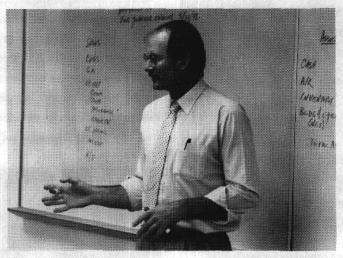
For additional information regarding CLEP examinations, tests given by college professors, advanced placement tests, the Customized Articulation Program and armed forces credit, contact the director of testing.

COLLEGE-LEVEL EXAMINATION PROGRAM (CLEP)

Most public supported colleges and universities have agreed to accept as transfer credits all CLEP credit granted by regionally accredited institutions using the criteria below. CLEP General Exams are not evaluated for credit at CCCC. Students planning to

use CLEP credit to meet degree requirements at other institutions should check the requirements of the receiving institution. CCCC uses these criteria for CLEP Subject Examination evaluation:

 a) CLEP credit shall be recorded on transcripts so as to be clearly recognized as credit earned by examination (CR) rather than through residency course work.



- b) CLEP credits shall not be granted if they duplicate credits for courses already completed.
- c) Credit is awarded for CLEP Subject Examination scores at or above the 70th percentile. Official score reports should be sent to the director of testing.
- d) A \$10 non-refundable fee will be charged for each CLEP examination.

CREDIT BY EXAM (TESTS GIVEN BY COLLEGE PROFESSORS)

Credit for some courses may be granted upon successful completion of a comprehensive examination over the content of the course. A nonrefundable fee is charged for each course examination. Students must be currently enrolled at the college to receive credit by examination. Students may not request credit by examination in courses for which they are currently enrolled. Credit by examination may be attempted only once for any given course. The student must score at or above 70 percent to receive credit for the course.

ADVANCED PLACEMENT TESTS OF THE COLLEGE BOARD (AP)

Beginning freshmen who have received college-level training in secondary schools and who present scores of three, four or five on the appropriate Advanced Placement Examination will be granted, on request, placement and credit for comparable courses at the college following the completion of six semester hours at the college. For more information contact the director of testing.

Customized Articulation Program (CAP)

Through formalized contracts. CCCC and the Allen, Dallas, Denton, Lewisville, McKinney and Plano independent school districts have articulation agreements which allow students enrolled in designated high school vocational/ technical programs to receive, under certain conditions, college credit for courses completed in high school. To participate students should obtain a recommendation from their high school teacher or other designated school official, send an official high school transcript to the CCCC Admissions Office and secure approval from the corresponding program coordinator at CCCC. Petitions for credit through articulation may be obtained from the high school counselor, the Admissions Office or the program coordinators at CCCC.

After receiving approval from the CCCC program coordinator to participate in CAP, students place the designated high school courses in escrow at CCCC and become eligible to receive college credit for those courses provided they:

- meet all of the admission requirements for CCCC;
- 2. enroll at CCCC within one

- year after high school graduation;
- 3. complete at least six semester hours in the corresponding articulated program at CCCC, maintaining at least a "C" average in the articulated program; and
- 4. submit an acceptable portfolio and/or pass any required proficiency examinations specified in the program outline.

program of military training for which equivalent college credit may be given in accordance with the American Council on Education Standards and Recommendations. Armed Forces credit is evaluated by the degree plan coordinator.

RELEASE OF INFORMATION

In compliance with the Family Educational Rights & Privacy Act of 1974, Federal Law 93-380, information classified as "directory information" may be released to the general public without the consent of the student. Directory information is defined as student's:

- 1. name;
- 2. address:
- 3. telephone listing;



- 4. date and place of birth;
- 5. major field(s) of study;
- participation in officially recognized activities and sports;
- **7.** weight and height of athletic team members;
- 8. dates of attendance;
- 9. most recent previous educational institution attended; and
- 10 degrees and awards received.

See the individual degree programs for more information **on** specific articulation agreements.

ARMED FORCES CREDIT

In addition **to** using credit previously earned at other institutions to achieve advanced placement at the college, students may also receive such standing by presenting evidence of having satisfactorily completed a

A student may request that directory information be withheld from the public by making a written request to the Registrar's Office during the first 12 days of a fall or spring semester or during the first four days of a summer session. Such requests will he valid until the first class day of the following fall semester. If no request is filed, infomation will be released upon inquiry. Directory information is the only part of a student's record that may be released without the consent of the student. No transcript or inquiries concerning an academic record will be released without written consent of the student specifying the recipient and the information to be released. See the CCCC Student Handbook for detailed information.

RESTRICTED ACCESS TO RECORDS

The following persons, agencies and organizations may have restricted access to student records without prior written consent of the student:

- school officials and professors with a legitimate educational interest;
- 2. representatives of state, federal and local government when auditing and evaluating federal or state education programs;
- financial aid officers to process a financial aid application or form;
- governmental officials to which information is to be reported under state law;
- **5.** accrediting organizations for accrediting purposes;
- **6.** appropriate persons in case of emergency, if such information is necessary to protect the health **or** safety of the student or others; and
- 7. organizationsapproved by the president or the president's designee conducting studies for, **or** on behalf of, educational agencies or institutions for the purpose of developing, validating or administering protective tests, administering student aid programs, and improving instruction,

if such studies are conducted in such a manner that will not permit the personal identification of students and their parents by persons other than representatives of such organizations.

Information will be destroyed when no longer needed for the purposes for which it was collected.

REPEATING COURSES

Courses that may be repeated for credit more than one time are specified in the course description. Otherwise, courses may be repeated for the purpose of improving grade point average (GPA) only one time without permission from the appropriate academic administrator. Only the grade and credits earned in the most recent course repeated will be used in computing the gradepoint average and applied toward degree orprogram requirements. Grades of all courses taken will be recorded on the student's transcript.

Veterans should consult the director of financial aid/veterans affairs before repeating any course.

SATISFACTORY PROGRESS

In order to encourage students to make progress towards their goals, the college has established minimum standards for satisfactory academic progress. After completing 18 quality hours, full-time and part-time students must maintain a minimum 2.0 cumulative GPA to be in good standing. Quality hours refers to the number of college-level hours a student completes at CCCC, excluding developmental, non-traditional and transfer work. These quality hours are used in calculating a student's GPA at CCCC.

ACADEMIC WARNING

Students with less than 18 cumulative quality hours at the college who have not earned a minimum 2.0 cumulative GPA will be placed on academic warning. Students on academic warning will receive written notification of their status each regular semester. Students on academic warning should seek advisement prior to continued enrollment; however, no registration restrictions will apply.

ACADEMIC PROBATION

Students accumulating 18 or more quality hours with less than a 2.0 cumulative GPA at the college will be placed on academic probation and notified in writing of their probationary status. Students on academic probation will be required to obtain the signature of their academic adviser on their advising registration ticket prior to registration. Students who have registered early and have been subsequently placed on academic probation should meet with *their* academic adviser prior to the end of the add/drop period.

CONTINUED ENROLLMENT ON PROBATION

Studentsmay enroll for classes while on academic probation **as** long **as** they earn a **2.0** or **better** grade point average for the current semester. Students on probation must **see** their academic adviser prior to registration and will not be eligible for the registration signature waiver option. Students will be removed **from** academic probation when their cumulative **GPA** is **2.0** or better.

ACADEMIC SUSPENSION

Students on probation who earn less than a 2.0 **GPA** for the semester will be placed on academic suspension. Students on suspension may not re-enroll for the next regular semester (fall or spring) following the semester in which they were placed on suspension.

Students who register early and are subsequently placed on suspension may be administratively withdrawn unless they petition for continued enrollment. **Suspended** students who petition and are granted permission to re-enroll may have restrictions on the number of hours and courses in which they may register. Conditions for readmission **are** established and administered by the Academic Progress Task Force.

SECOND SUSPENSION

Students who are suspended for the second time may not re-enroll for one calendar year and are not eligible to petition for re-enrollment during that calendar year.

VETERAN STUDENTS

Veteran students who make unsatisfactory academic progress will be reported to the Veterans Administration as being on probation at the end of the second consecutive semester when the cumulative GPA remains below **2.0**. If a punitive grade is assigned to a veteran and is not converted to a non-punitive grade within a limited period of time, this will be reported to a VA Regional Office within 30 days of issuance of the punitive grade, and benefits will be reduced accordingly. Students who fail to meet these academic standards of progress will jeopardize eligibility to receive financial aid and/or other benefits such as those from the Veterans Administration.

STUDENT CLASSIFICATIONS

- Freshman: A student who has successfully completed fewer than 30 credit hours.
- Sophomore: A student who has successfully competed 30 or more credit hours.
- Full-time: A student enrolled for 12 credit hours or more in a regular semester or SIX credit hours or more in a short summer session.
- Part-time: A student enrolled for 11 credit hours or less in a regular semester or five credit hours or less in a short summer session.

STUDENT CODE OF CONDUCT

Collin County Community College students are both citizens and members of the academic community. **As** citizens and students they enjoy the same freedom of speech, peaceful assembly and right of petition that other citizens enjoy. As members of the academic community, they are subject to the obligations which are theirs **by** virtue of this membership.

The college expects its students to conduct themselves in such a way **as** to reflect credit upon the institution they represent. There are two basic standards of behavior required of all students:

- 1. they shall adhere to college policies and municipal, county, state and federal laws; and
- **2.** they shall not interfere with or disrupt the orderly educational processes of the college.

Students are entitled to only those immunities or privileges by law as enjoyed by other citizens. For **more** information, **see** the **CCCC** *Student Handbook* or contact the Dean of Students' Office.

STUDENT LOAD

A full-time student load is a minimum of 12 credit hours per regular semester. Students taking 11 credit hours or less per semester are classified as part-time students. Full-time status during the summer sessions or accelerated sessions may vary. For clarification, see "Student Classifications" or the registrar.

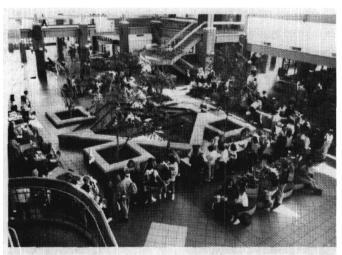


Students may, with special permission of the appropriate academic administrator, enroll for more than **IS** credit hours during a regular session and seven hours in a **summer** session. Normally, permission will not be **granted** unless the student has a 3.0 cumulative grade point average and plans to carry no more than 21 hours during a regular semester or nine hours or less during a summer session.

TRANSCRIPTS

Students wanting a transcript of their work at Collin County Community College should contact the Registrar's Office.

Requests for official transcripts must be made in writing by the student to the registrar. A \$2 fee will be charged for each official transcript requested. (Grade reports are mailed to students at the end of each team.)



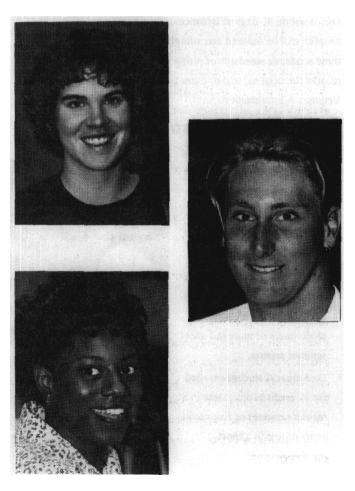
VETERANS' CERTIFICATION

Veterans wishing **to** enroll and receive benefits should contact the director of financial aid/veterans affairs. In order to receive benefits, veterans must maintain satisfactory progress as stipulated by the Veterans Administration and college policy. All prior credit earned through civilian or military education must be submitted to the degree plan coordinator for transfer evaluation.

WITHDRAWALFROM THE COLLEGE

Students may withdraw with a grade of "W" through the end of the 12th week during the regular (16-week) semester or the end of the fourth week during the **summer** session, **by** completing a form in the Registrar's Office. Students may also withdraw from the college by sending a written request for such action. The request must include the student's signature and the student's address, social security number, phone number(s), and course names and numbers. The date postmarked on the envelope will be the official withdrawal date. Students should contact their professor prior to initiating a drop or withdrawal. Withdrawal from the college should be student-initiated.

Students who are enrolled in a developmental course for TASP purposes may *nut* drop their only developmental course unless they completely withdraw from all college courses. *Students may dropa developmental course* through the *end* of the 14th week during regular (16-week) semesters, the end of the 4th week during short (five-week) summer sessions, and the end of the eighth week during a long (IO-week) summer term, *unless they are required by TASP to be in remediation*. A student who discontinues class attendance and does not officially withdraw will receive a performance grade for the course.



SAFETY AND SECURITY

REPORTING EMERGENCIES

If an emergency should arise on campus, report it to the Information Center receptionist located on the first floor of each campus. Contact faculty within the classroom if a problem should arise during a class. Emergency medical services will be provided for students when necessary.

If an emergency arises at an off-campus location, immediately notify a faculty member, who will then notify the building site supervisor.

EMERGENCY CLOSING OF W ECOLLEGE

The president or his designee has the authority to discontinue instructionalsessions because of extreme weather or other emergency conditions. If classes have been cancelled, local radio and television stations will make the announcement. A decision to cancel classes will usually be made by 3 p.m. for evening classes and by 6 a.m. for day classes.

HEALTH SERVICES

The college is dedicated to the total well-being of its students.

Health fairs, alcohol and drug awareness programs. aerobic and other fitness courses are geared toward student wellness. Although the college does not employ a nurse or physician, first aid kits are available at the Information Center, Fitness Center, Physical Plant, Student Activities OWce and division offices at both campuses. Should a student have a psychological or physiological problem, he or she should consult the dean of students for assistance.

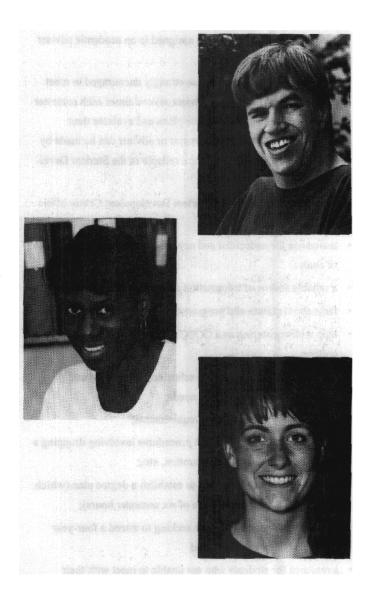
MMUNIZATIONS

Due to recent measles outbreaks, the Texas State **Board** of Health is strongly recommending all **students born after Jan. 1,1957**, confirm appropriate immunizations or immunity to the following diseases: tetanus/diphtheria, mumps, measles and rubella.

DISABLED STUDENTS

Both Central Park Campus and Spring Creek Campus are accessible to individuals with disabilities. Special facilities such as automatic doors, elevators, restrooms and parking are provided to make college life more convenient. Lockers are available at Spring Creek Campus for students with temporary and permanent physical disabilities. To reserve a locker for an extended period, contact the Spring Creek Campus Student Activities Office (F129, 881-5788).

Additional services such as academic and personal advising, adaptive equipment and interpreters are available to students with physical disabilities. Services for Students with Disabilities (SSD) is located in the Student Development Center, G103 at Spring Creek Campus. Please call SSD at (214) 881-5950 (voice or TDD) for additional information.



STUDENT LIFE .. INVOLVEMENT IN LEARNING

ACADEMIC ADVISEMENT

Academic advising is an integral component of each student's success at CCCC and is an on-going process at the college. Any prospective student or Collin County resident interested in talking with an adviser should contact the Student Development Center at either campus. New students are advised through the Academic Advising Program prior to their first enrollment at CCCC. During their first semester, students are assigned to an academic adviser based on their declared major.

Currently enrolled students **are** strongly encouraged to meet with their assigned academic adviser several times each semester to prepare and update their degree plans and evaluate their academic progress. Changes in major or adviser can be made by completing the appropriate forms available in **the** Student Development Center.

Academic advising in the Student Development Center offers students:

- assistance for undecided and new students in selecting a field of study;
- a reliable source of information about the college;
- facts about classes and programs;
- help with registering as a CCCC student and adjusting to college;
- assistance in tailoring course selection, course load and schedules to meet individual needs;
- information about academic requirements;
- a source of information about procedures involving dropping a class, appealing grades, registration, etc.;
- a place to start when seeking to establish a degree plan (which may be filed upon completion of six semester hours);
- transfer information for those seeking to attend a four-year institution (Transfer Lab); and
- a resource for students who are unable to meet with their academic advisers.

SERVICES FOR STUDENTS WITH DISABILITIES

Both campuses **are** accessible to all individuals with disabilities. Interpreters and specialized equipment are provided to make college life more convenient. Several lockers at Spring Creek Campus are available for temporary or long-term (by the semester) **use.**

The Special Needs Center, located within **the** Learning Resources Center, is equipped with large print readers, scanners, and a voice synthesized speech program on an IBM compatible PC.

Contact **the** Services for Students with Disabilities Office **(SCC:** G103, 881-5950) for information about CCCC's facilities and specialized services. Students with learning disabilities who need assistance should contact Project SPARK staff at 548-6835 or 881-5627.

ASSESSMENT AND TESTING SERVICES

Testing Centers are located on both campuses for basic skills testing, proctoring and national testing. CCCC is an official testing site for the SAT, ACT and Texas Academic Skills Program (TASP).

BASIC SKILLS ASSESSMENT

Basic skills assessment is **the** process each student must complete. to identify his/her strengths and/or weaknesses in the following three areas:

- Reading
- Writing
- Mathematics

Basic skills assessment is required for all first-time students and students who wish to enroll in any of **the** following courses.

- Reading: any college-level course which requires college-level reading skills. Students who pass this TASP section are exempt from local assessment.
- English: English **040,041** and 151.
- Mathematics: any developmental math course, Math 150,151,
 153, 181,182 and 183. Other assessments may be required based upon faculty and adviser recommendations.

In addition, **English as** a Second Language (ESL) students must first take the CLOZE Test in the Testing Center and then the Michigan **Test** of English Language Proficiency (MTELP). Students **are** placed in the appropriate course based **on** scores earned in **the** MTELP.

Generally, assessment results are valid for one year. The results of the basic skills assessment guides the adviser and student in proper course placement. These results are used for course placement only and do not affect the admission status of the student.

ASSESSMENT PRIOR TO TASP

Students required to participate in TASP (see TEASA cademic Skills Program, "page 11) must take TASP prior to accumulating more than nine hours of college-level course work. If students have earned nine college-level credit hours at the end of a given semester, they must take TASP before they will be eligible to enroll in college-level courses at CCCC. For most students this will mean taking TASP in their first semester. TASP registration bulletins are available from the Admissions Offices, Testing Centers and Information Centers at CCCC.

OTHER TESTING SERVICES

The Testing Center also offers an extensive testing program for students and residents of the county in the following areas:

- CLEP—College-Level Examination Program
- ACT—American College Testing Program
- SAT—Scholastic Aptitude Test
- Credit By Exam—Subject tests designed by CCCC faculty
- Correspondence Testing (A fee of **\$20** is required for test administration.)

CCCC codes for these tests are s h o w below.

•	CLEP (Spring Creek & Central Park campuses)	1951
•	ACT (Central Park Campus)	4046
•	ACT (Spring Creek Campus)	4209
•	SAT (Central Park Campus)	44-646
•	SAT (Spring Creek Campus)	44–702
•	TASP (Central Park Campus)	137
•	TASP (Spring Creek Campus)	138

Studentsrequiring more information on the above **programs** should contact the director of testing.

FINANCIAL AID

As a service to CCCC students, the Financial Aid office administers a financial aid program which includes scholarships, grants, loans and part-time employment, and its officers are trained to assist students in realizing their goals.

A primary purpose of the college's financial aid program is to provide assistance for students who otherwise might find it difficult or impossible to attend college. All students arc encouraged to apply for financial aid. Students should not withdraw from college for financial reasons without having first consulted the director of financial aid/veterans affairs. All financial aid students must familiarize themselves with the standards of academic progress. For more information call **548-6760** or 881-5760.

SATTISFACTOR CADEMIC PROGRESS

CCCC recipients of financial aid must meet or exceed the **stan**-dards set for satisfactory progress for all students.

ACADEMIC PROGRESS REQUIREMENTS

Federal law requires that students must be making satisfactory progress in their course of study in order **to** receive financial aid. CCCC policy has the following requirements:

GRADE POINT AVERAGE (GPA) REQUIREMENTS

- A student must maintain a 2.0 GPA for each semester or the combined summer sessions for which an award is approved.
- A transfer student from a college outside of the district must have a cumulative 2.0 GPA as evidenced by an official academic transcript.

COMPLETION REQUIREMENTS

- A student enrolled full time (12 credit hours or more) must complete a minimum of nine credit hours for any semester or the combined summer sessions for which funding is received.
- 2. A student enrolled three-quarter time (9-11 credit hours) or half time (6-8 credit hours) must complete a minimum of six credit hours for any semester or the combined summer sessions for which funding is received.
- 3. A student who is enrolled in three to five credit hours in the summer must complete all attempted credit hours.
- **4. An** "TP" or "T" in developmental courses will satisfy the completion requirements. These grades, however, must be replaced **as** stipulated in the contract.

FAILURE TO MEET THE STANDARDS OF ACADEMIC PROGRESS

In these provisions, probation or suspension means financial aid probation or suspension, not academic probation or suspension.

- Following the first semester in which the above standards of academic progress are not met, the student will be placed on probation and notified of that status. This status will remain for that semester of funding.
- 2. A new applicant with less than a cumulative 2.0 GPA or who does not meet the college standards of academic progress as outlined above will not have met the standards of academic progress; however, financial aid may be awarded on a probationary basis for one semester only.
- The student who fails to meet the standards of academic progress during the semester of attendance while on probation will be placed on suspension and denied further funding for one semester or combined summer sessions.
- 4. During the first period of suspension, the student must enroll at least half time for one semester at CCCC, pay the expenses related to that enrollment and maintain the standards of academic progress before eligibility for financial aid will be reestablished.
- **5.** If failure to meet satisfactory progress results in a second suspension from financial aid, the student must enroll at least half time for the equivalent of two semesters at the college, pay the expenses related to that enrollment, and maintain the standards of academic progress before eligibility for financial aid will be re-established.
- 6. Following any period of suspension, the student will again be eligible for funding on a probationary basis for one semester or combined summer sessions.
- **7.** If failure to meet satisfactory progress results in a third suspension from financial aid, no additional aid will be awarded. Exceptions may be petitioned to the dean of students.

NOTIFICATION

A student who is placed on probation or suspension will **be** notified in writing.

INCREMENTAL MEASURE OF PROGRESS

Academic progress of recipients will be measured three times a year following the fall and spring semesters and the **summer** sessions.

MAXIMUM TIME PERIOD FOR COMPLETION OF EDUCATIONAL OBJECTIVES

- Students receiving financial aid funds will be expected to complete his or her educational objective or course of study within a reasonable period of time. The maximum hour limit for CCCC is 75 credit hours (including transfer work), excluding developmentaleducation courses.
- Funding beyond the maximum how limit may be approved by the director of financial aid and must be based on mitigating circumstances.

APPEAL PROCESS

- A student who has been denied financial aid because of a failure to meet any of the criteria of the standardsof academic progress may petition the director of fmancial aid to consider mitigating circumstances. The director will render a decision.
- 2. If the student is dissatisfied with the director's decision, he/she may petition the financial aid appeals task force which will investigate the petition and render their recommendation to the dean of students. The dean of students will make a decision based on the facts of the case and serve as the final appeal authority.

EFFECTS ON FUNDING

- 1. Certain **courses** not considered for funding are:
 - a. courses taken as an audit, and
 - b. courses taken outside the degree plan; however, developmental courses, if required as a prerequisite to enable a student to successfully complete a student's educational goal, will be considered for funding.
- **2.** Credit hours earned by a placement test will not be considered for funding.
- 3. Courses for which an "I," "F" or "W" grade is received will not be treated as completed courses. An "I" or "IP" in developmental courses will satisfy the completion requirements.
- **4.** Repeated courses will be considered for funding.
- 5. Financial aid may be paid for developmental courses that are prerequisites for credit courses. A student may be paid for a maximum of 24 developmental hours.

FINANCIAL AID PROGRAMS

FEDERALASSISTANCE

PELL GRANT

Eligibility for the **Pell** Grant is based on the financial strength of the student and/or the student's family **as** well **as** the student's enrollment status. (Range: \$100-\$2,400/year,)

SUPPLEMENTAL EDUCATIONAL OPPORTUNITIES CRANT (SEOG)

The SEOG provides assistance for eligible students who show financial need **and** are making satisfactory progress toward their educational goal. Priority consideration is given to students demonstrating the greatest amount of financial need. (Range: \$200-\$4,000/year.)

COLLEGE WORK STUDY (CWS)

Students demonstrating financial need may be considered for the work study program. Students are employed to work at various jobs on campus or at other district sites. They are allowed to work to earn the amount that is designated in their award package. (Range:\$200-\$3,240/year.)

STAFFORD LOAN PROGRAM

This program permits a student to borrow money from a commercial lending agency without need for collateral. The federal government guarantees repayment of the loan and also pays interest on the amount borrowed until six months after the student graduates or ceases to be at least a half-time student. Eligibility is based on financial need. Students can **borrow** up to \$2,625 per classificationlevel (30 hours).

STATE ASSISTANCE

TEXAS PUBLIC EDUCATION GRANT (TPEG)

The TPEG program is a state financial aid program designed to assist students attending state supported colleges. Students must show financial need and be making satisfactory progress toward their educational goals. The actual amount of the grant will vary depending on the availability of funds to the college, the student's family financial condition and other financial aid the student may be receiving. (Range: \$100-\$1,200/year.)

TEXAS Public Education—State Student Incentive Grant (TPE-SSIG)

The TPE-SSIG is a state program that bases grants upon the financial need of the applicant. Eligibility is determined by the college based upon financial need and the availability of funds. (Range: \$200-\$1,000 per year.)

SCHOLARSHIPS

Scholarships at Collin County Community College are generally awarded on the basis of academic achievement, need, merit, special population or a combination of each. Scholarships are designed to encourage and assist students in pursuing academic excellence, merit and leadership roles. All students are encouraged to apply.

Some of the scholarships available are: Carole Anthony, Dr. John H. Anthony Endowment, Botsford, Christ United Methodist Men's Club, Collin County Legal Secretaries Association, Cooperative Work Experience Student of the Year Award, James E. Connatser Memorial, Eric Funk, Jackie Dooley Memorial Scholarship for Learning Disabled Students, Frito-Lay Endowment, HCA Medical Center of Plano Endowment, John Ferguson Endowment, Foundation Scholar's Program, Louise M. King Endowment, Performing Arts, Rodeo Club, Trustee-Merit Based and the EL Roy-H.P. Cohick.

Scholarship information is located in the Financial Aid Office.

OTHER TYPES OF ASSISTANCE

TUITION WAVERS

The State of Texas offers a number of tuition exemption programs. These programs provide exemptions from certain tuition and fee charges in public colleges. Applications and information about these tuition waivers may be obtained in the Financial Aid Office. Some of the tuition waivers are:

- · Hazlewood Act
- Honor Graduates
- Orphans of National Guard Members
- Blind/Deaf Students
- Children of Disabled Firemen and Peace Officers
- Children of Prisoners of War or Persons Missing in Action
- Firemen Enrolled In Fire. Science Courses
- · Ad Valorem

VETERANS' EDUCATIONAL BENEFITS

CCCC is fully approved for training of veterans under the provision of the **GL** Bill (Public Laws 346,550, 16, and 89-358). Veterans and dependents of veterans should apply to the Financial Aid/Veterans Affairs Office before the school term begins. Paperwork should be filed six weeks prior to registration, if possible. This gives the VA Regional Office time to process the papers and to communicate with the veteran prior to registration.

Veterans must maintain satisfactory progress as stipulated by the Veterans Administration and college policy. All prior credit earned through civilian or military education must be submitted to the degree plan coordinator for transfer evaluation.

ADDITIONAL FINANCIAL AID INFORMATION

Many of the financial aid programs listed are under constant state and federal review and are subject to change.

Studentsmay apply for financial aid simply by completing a Financial Aid Form or American College Testing Form which is available in the Financial Aid Office and in most high school counseling offices. The priority deadline is as follows:

- Fall semester—June 1
- Spring semester—November 1
- Summer semester March 1

CAREER PLANNING AND PLACEMENT FUTURE SHOP

The Future Shop is available on both **campuses** and offers a variety of opportunities for students to explore **career** options and to prepare for the world of work. The Future Shop is designed with three basic components:

1. CAREER ASSESSMENTAND EXPLORATION

The following resources are available in or provided by the Future Shop:

- Interest assessments*
- Personality and values assessments*
- "Discover" -- Computerized Career Guidance Program
- GIS—Computerized Guidance Information System
- Career Resource Library
 - -Occupational Information
 - Personal Development
 - Career Planning/Job Search
 - -Video Cassettes
- Annual Career Awareness Week
- · Workshops/Seminars
- · Mentor Program
- * Effective March 1, 1991, afee scale was implemented for all non-Collin County Communi@College students desiring to take career assessments. Please contact the Future Shop at Central Park Campus (A108, 548-6720) or Spring Creek Campus (G103, 881-5781) for additional information.

2. JOB GROOMING

The following resources are located in each lab

- Free Resume and Cover Letter Service: 'The Perfect Resume'
 computer program offers a variety of formats for professional
 resumes. Laser printed copies of resumes
 are produced. Individual critiques of resumes are available.
- Interview Coaching
- VideotapedInterviews: Mock interviews with an individual critique help prepare students for actual interviews.

3. JOB PLACEMENT/TRANSITION SUPPORT

Placement services are limited to current students with **a** valid CCCC student ID card. The following resources are **in** each lab:

- On-Campus Employment: A variety of positions are available
 on campus for students. Student jobs are classified as College
 Work-Study (CWS) or non-College Work-Study positions.
- 08-Campus Employment: The Job Location and Development
 (JLD) Office develops off-campus employment sites for
 students. A current listing of off-campus positions is maintained. Part-time as well as full-timejobs are listed.

Applications for on-campus and off-campus positions are available in the Future Shop.

ARTICULATION AND TRANSFER PROGRAMS

A transfer lab is available to students **on** both campuses in the Future Shop located in the Student Development Center. The transfer lab is designed to help students **transfer** courses and/or programs from CCCC to four-year institutions. Check the Transfer Lab for up-todate information **on** other institutions.

- Students are encouraged to meet with an adviser in their field of study.
- Four-year institutions determine courses which will be required for degrees. Check the appropriate course catalog for up-todate degree plans.
- Some courses are designed for job entry and career preparation and may not meet degree requirements.
- Courses in developmental education and some courses in human development are designed for individual skill and personal improvement and generally will not transfer to a fouryear institution.
- Check the specific course catalog for admission, housing, scholarship and financial aid deadlines.

When duplicating (repeating) a course at CCCC, check with the receiving institution on their policy for accepting course duplications.

RESOLUTION OF TRANSFER DISPUTES

CCCC works closely with other institutions to make the transfer process as smooth as possible. The Texas Higher Education Coordinating Board has established procedures to be followed when transfer credit for lower division courses is disputed. The individual courses covered by this procedure are defined by the coordinating board's guide entitled 'Transfer of Credit Policies and Curricula'

RESOLUTION OF TRANSFER DISPUTES FOR LOWER-DIVISION COURSES

The following procedures shall be followed by public institutions of higher education in the resolution of credit transfer disputes involving lower-division courses:

- If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course credit is denied.
- The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Board rules and/or guidelines.
- 3. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution whose credit is denied for transfer shall notify the Commissioner of the denial.

The Commissioner of Higher Education or the commissioner's designee shall make the final determination about the dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.

A complete copy of the guide, including definitions, and Transfer Dispute Resolution Forms are available at CCCC from the director of articulation and transfer (881-5757) and the vice president of instruction (881-5801).

"NEXT STEP"—TRANSFER PROGRAM

"Next Step" is a program designed to assist students' transition from CCCC to four-year institutions by providing the following:

- Peer support through a networking system of transfer students on campus
- List of course equivalencies for CCCC and four-year institutions
- · Resource materials
- Information on transfer of credit
- Directory listing addresses and phone numbers for four-year institutions
- · Course and program transfer guides
- Library of catalogs for both out-of-state and Texas colleges and universities
- Degree plans for four-year institutions

It is the responsibility of the student to check with the college or university to which they wish to transferfix all requirements. The student should know admissions requirements, specific department requirements, deadlines and courses that will satisfy a specific degree.

STUDENT SUCCESS PROGRAMS

The college **offers** many specialized programs and activities that are designed specifically **to** help students achieve their academic and career goals. The following are some of the program areas devoted specifically to helping students succeed.

HUMAN DEVELOPMENT PROGRAMS

Credit and non-credit courses **and** seminars are available for students wishing to enrich their development in areas such as study skills, **stress** management, leadership development, test taking, personal development and career planning.

Through the Alternative Learning Center (ALC), located in the Learning Resources Center, students *may* also **use** self-paced programs on time management and study **skills.**

INTERDISCIPLINARY HONORS PROGRAM

The Honors Program at CCCC is designed to provide a challenging learning experience for **students** with advanced academic skills. In small classes (maximum: **15** students) advanced and highly motivated students engage in discussion, research and creative projects geared to their special abilities and commitment

to learning. In the honors forum of thoughtful and communicative participants, interaction **among** students is fundamental. Among other benefits to students are a honors course designation on the transcript and possible qualification for honors scholarships.

Students **are** usually recommended to honors courses **by** professors. However, any disciplined student with accelerated skills is invited to consider the program and may enroll in honors courses with the instructor's approval.

Inquiries should be directed to the chair of the Honors Task Force at 881-5829 or the Advising Office 881-5778.

DEVELOPMENTA EDUCATION

Developmental education courses are designed to provide students with the basic skills needed to achieve success in college-level courses. Currently, courses are offered in math, reading, writing and ESL. The instructional formats vary and include individualized, self-paced and lecture approaches. If basic skills assessment scores indicate that a student would be better prepared by taking a developmental education class prior to enrollment in a college-level class, the student will not be allowed to enroll in the college-level class.

Developmental classes and other support programs are specifically designed to help students gain the skills and self-confidence needed to successfully complete credit courses. Since the fall of 1989, the implementation of Texas House Bill 2182 (TASP) mandated that students who are not ready for college-level courses must take developmental classes. Each of the developmental disciplines (math, reading and writing) is designed to provide the skills tested on TASP.

In addition to the courses, developmental education also offers study skill seminars which teach students basic study and test-taking skills. A schedule of these free seminars is published each semester. Copies of the schedule may be obtained at the Information Center at both campuses. Please call 881-5720 for additional information.

PROJECT SPARK

Project SPARK (Student Program to Achieve and Reinforce Knowledge) is a federally-funded program designed to help first-generation, disabled and/or low-income students. Among the services provided are counseling, tutoring, basic skills instruction and culturally enhancing activities. Please call 548-6827 or 881-5898 for additional information.

SUCCESS

SUCCESS is a cooperative work experience **program** that unites classmom **study** with community service. Students approved for the program receive a stipend for volunteer, community service projects. The program helps to develop a unique linking system which bonds students to their communities and increases their civicknowledge.

LIBRARY/LEARNING RESOURCES CENTER (LRC)

The LRC is located on the first floor of Central Park Campus and is **a two-story** facility facing the atrium at the entrance of Spring **Creek** Campus. Available materials include the following:

Books	95,000
Videotapes	3,750
PhonographRecordings	1,200
Periodicals	800

A computerized system is available to help patrons locate these materials, most of which **are** available for home **use**.

HOURS

The LRC is scheduled **to** be open during the following hours for the 1992-93academic **year:**

CENTRAL PARK CAMPUS

Monday-Thursday: 7:45 a.m.-9:30 p.m.
 Friday: 7:45 a.m.-5 p.m.
 Saturday: 8 a.m.-noon
 Sunday: closed



SPRING CREEK CAMPUS

Monday-Thursday: 7:45 a.m.-10 p.m.
 Friday: 7:45 a.m.-5 p.m.
 Saturday: 9 a.m.-4 p.m.
 Sunday: 1-5 p.m.

Special hours and break periods will be posted in advance. All hours are subject to change.

BORROWING PRIVILEGES AND MATERIALS

The libraries at both Central Park and Spring Creek campuses are available for **use by** students and the public. The total collection of 80,000 volumes will be reflected in the computer catalog at both campuses and will show the location of books by campus. Each campus will not necessarily have the same **books** or other materials. Students will have the option of visiting and using both campuses or arranging to have books and tapes delivered from one campus to another within a 24-hour period.

LOAN PERIOD

Books, records and audio tapes may be checked **out** for three **weeks.** videotapes may be checked out at a cost of \$1 per night. All materials **mst** be returned by the due date and may be returned to either Central Park or Spring Creek campuses.

COMMUNITY BORROWERS

All residents of Collin County are welcome to **use** the LRC and check out materials. For community borrowers who are non-students the only requirements are that the individual be 18 years of age and show proof of residency within Collin County. There is no charge for borrowing privileges to non-students.

SPECIAL FEATURES OF THE LRC

ALTERNATIVELEARNING CENTER (ALC)

The ALC provides learning through the **use** of video, computers, telecommunications and progressive instructional design. It houses hundreds of instructional computing programs in dozens of areas of academic, business and personal interests. A microcomputer "Classroom of the Future," telecourses and self-paced courses offer flexible scheduling for students unable to attend regular daytime or evening classes.

MEDIA SERVICES

Supports the instructional program (faculty and students) with audio-visual and video equipment and related materials. Special servies include:

STUDENT MEDIAWORKSHOP

A VHS video editing lab provided by the LRC for students to do their class projects.

CABLE TV

Media Services of the LRC has Plano cable TV available for intructional purposes and also has onr outgoing channel B-34 to provide Plano cable and TV viewers with college information, announcements and events, and educational material.

Teleconferences

Media Services of the LRC has one Gband and one KU-band satellite available and has the ability to down-link teleconferences for the college or community.

BIJOU AND RITZ THEATRES

Learning theatres are available to patrons to view feature films and educational videotapes in a non-classroom setting. These theatres are available on a scheduled basis. Consult the weekly program for the titles being shown.

INDIVIDUAL VIEWING BOOTHS

These booths **are** located throughout the library and are available to students to view videotapes **on** an individual basis.

GD ROM NETWORK

The LRC has a CD-ROM network available to patrons to search over the 30 databases and indexes on a Wide Area Network using PC and Mac work stations. Database options include poetry and literature indexes; automated versions of the Physicians Desk Reference; and business indexes from Dunn and Bradstreet, and Standard and Poors. Many of the CDs utilize graphics and sound as well as the ability to search by keywords.

SPECIAL NEEDS CENTER

The Special Needs Center is located within the LRC and is **staffed** by ALC personnel. The center is available to all students, feaulty, staff and community members with disabilities. The center is equipped with large print readers, scanners and a voice synthesized speech program. The voice synthesizer is available on **an** IBM compatible PC with a Braille printer.

LRC HANDBOOK

A handbook is available to students to assist them in learning how to use the library.

PHOTOCOPYING

Coin operated photocopying machines are available for patron use in the LRC on both campuses. The cost is 10 cents per page copied.

PLANO PUBLIC LIBRARY

Since the summer of 1991, the LRC has had integrated terminals which show holdings of both the LRC and the Plano Public Library in one easy-to-use system.

ASSOCIATION OF HIGHER EDUCATION (AHE) CATALOG ON COMPACT DISC (AT SPRING CREEK CAMPUS ONLY)

A terminal is available which shows the holdings of five AHE libraries: Baylor University, Dallas County Community College District, Dallas Public Library, University of North Texas and University of Texas at Arlington. This catalog of the five libraries makes over one million volumes available through interlibrary loan

MICROCOMPUTER LABORATORY (AT SPRING CREEK CAMPUS ONLY)

A sophisticated, networked microcomputer laboratory is available to students for course-related learning activities.

TEXASVILLE ROOM (AT SPRING CREEK CAMPUS ONLY)

This lounge area offers students informal learning experiences.

EXPERIENTIAL LEARNING

Collin County Community College is committed to a competencybased curriculum which emphasizes experiential learning. Many courses and programs include a laboratory element which focuses on the application of methods of inquiry, allowing students to integrate cognitive and affective learning.

A variety of learning laboratories are in use at CCCC to facilitate experiential learning by students. These facilities include science labs, a word processing lab and model office, a language lab and the Alternative Learning Center. Other labs include math, Writing, social science and open computer labs.

MATHLAB

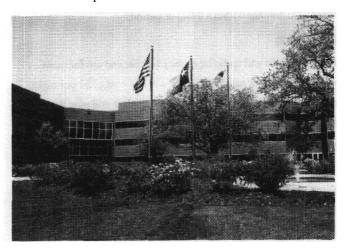
To enable students to secure instructional assistance in mathematics, a fully staffed math lab is provided for students enrolled in developmental and college mathematics courses. In addition to professional and peer tutoring, students have an opportunity to **use**

slide/tapes, videos and computerized programs to reinforce classroom lectures.

The drop-in lab hours vary each **semester** and a published schedule is available at the beginning of each **term.**

WRITING CENTER

CCCC is committed to "writing-across-the—umculum" (WAC) and encourages students to **use** the services available in the Writing Center. The purpose of the Writing Center is to allow students to obtain help with writing assignments, providing tutorials for students with assignments in English and in other disciplines. The schedule of hours for centers at both campuses is published each semester. Appointments **are** recommended, but drop-in visits are welcome. The Writing Centers are located in the LRC at each campus.



SOCIAL SCIENCE LAB

The Social Science Lab provides students with the opportunity to conduct research in any of the social sciences. This includes practical applications of theoretical principles from course work as well as original projects to promote the **use** of methods of inquiry in the respective social sciences.

The laboratory is equipped with computers, audio-visual equipment, biofeedback equipment and other state-of-the-art equipment. The facility includes an observation booth that connects the two laboratory research rooms.

OPEN COMPUTER LAB

The Instructional Computer Lab provides general assistance in the use of microcomputers for the completion of lab assignments. The labs operate on a drop-in basis and provide **an** atmosphere for non-

traditional learning experiences in all areas of instruction. Many **programs** offered at CCCC use microcomputers as an integral component of their courses.

Software is available for word processing, electronic spreadsheet, database applications, text editing, graphic arts, programming and computer-aided instruction in many subjects. Other materials available include business magazines, computer magazines, tapes and slides for self-paced courses, and software manuals.

In addition to the learning laboratories on campus, many programs offer internship and cooperative work experience opportunities to students. This on-the-job experience allows students to obtain valuable career training while completing academic courses and programs.

TELECOURSES

CCCC offers a variety of credit courses through instructional television from the Alternative Learning Center (ALC).

Registration for these courses is during regular registration and students are required to attend an orientation session in the LRC for each telecourse take.

All courses apply toward associate degree requirements, many fit into certificate programs, and the majority fulfill requirements for B.A. and B.S. degrees. Consult the current *Schedule of Classes* for available telecourses.

COOPERATIVE WORK EXPERIENCE

Cooperative Work Experience (CWE) at CCCC includes not only the traditional vocational/technical cooperative education opportunity but is also available in academic internships as well **as** service learning in non-paid volunteer community service projects.

CWE is a unique plan of education which integrates classroom study with planned and supervised work experience. **This** educational pattern allows students to acquire practical skills as well as to be exposed to the reality of the world beyond the boundaries of the campus, thus enhancing the self-awareness and direction of the participants.

To be eligible for Cooperative Work Experience at CCCC, studentsmust be working toward a degree or certificate, have a minimum grade point average of **2.5**, and be concurrently enrolled in another credit course at the college.

A student who is presently employed may use their currentjoh

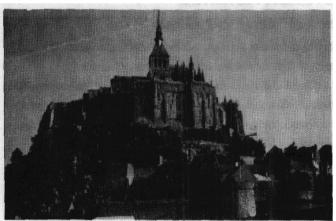
if it relates to their ultimate career goal. Working a minimum of 20 hours per week for a 16-week semester allows a student to earn three to four semester hours of college-level credit toward a degree.

STUDENTS WITH EDUCATION AND EXPERIENCE (S.E.E.)

S.E.E. is a cooperative education based retention program for students who are at risk of leaving the educational system. It features an innovative curriculum, a mentoring program and a career tracking plan. S.E.E. is open to all qualified students whose educational and career goals allow for enrollment in a cooperative education class. CCCC is committed to providing professional growth through experience based education.

INTERNATIONAL STUDY PROGRAMS

The college offers international study programs in a variety of fields to help prepare students for the increasingly internationalized world. International programs (some offered in alternate years) include **Month-In-Paris**, British Isles, International Internships, Marine Biology-in-Cozumeland Spanish Language Programs.



MONTH-IN-PARIS STUDENTS PREPARE TO ASCEND MOUNT ST. MICHEL

MONTH-IN-PARIS PROGRAM

This program offers a combination of study and travel in France for students interested in the French language and western world art. Students live and study in Paris during the month of July and earn seven college-level credits. A unique feature of the program is that no previous language training is required.

BRITISH ISLES PROGRAM

Students spend three to four weeks in Britain and earn college credit through the study of literature, photography and other varied topics.

INTERNATIONAL INTERNSHIPS

From time to time the college may offer students opportunities to earn credit by working abroad in fields such as nursing, photography or child care.. Interested students should inquire at the office of the appropriate division dean.

INTERNATIONAL MARINE BIOLOGY PROGRAM

An increasing awareness of the global importance of the ocean environment has led to the establishment of this program which features a one-week field trip to selected coral reefs. Students earn four credits for enrolling in Marine Biology (BIOL 153) and for participating in its field trip which emphasizes reef ecology and the biology of reef organisms, SCUBA certification is required

SPANISH LANGUAGE PROGRAM

Involving intensive language study in Mexico or Spain, the Spanish language program was offered for the first time in the summer of **1992.** Students **earn** transferable college **credit**, study Spanish with native teachers and develop first-handknowledge of Hispanic culture.

STUDENT ACTIVITIES

STUDENT ACTIVITIES PROGRAMS

College administrators and faculty believe that students' involvement in their educational experience greatly increases their likelihood of having successful and rewarding college careers. All students, therefore, are encouraged to participate in co- and extracurricular activities that will foster social, cultural and educational growth.

The Student Activities **Office** offers traditional campus events such **as** entertainers, special activities, cultural events, competitive games, etc. In conjunction with CCCC's laboratory component, many student activities programs integrate in-class material with events outside the traditional classroom environment. Guest speakers, **art** exhibits, displays and field trips **are** all a **part** of student activities.

A variety of registered student organizations and college **task** forces offer opportunities for involvement, and students **are.** encouraged to form new organizations to further their **own** interests. The director of student activities and the student activities associate are available to **assist** students in becoming involved in college programs and activities.

INVOLVEMENT IN INSTITUTIONAL GOVERNANCE

Students are encouraged to become involved with institutional governance by expressing their thoughts and feelings about college policies, procedures and activities. The president, vice presidents and other administrators of the college are interested in the reactions, opinions and ideas of all students. Through representation on college task forces, article submissions to the *Student* Update newsletter, participation in President's Luncheons and personal conversations with administrators, students are encouraged to communicate their needs, desires and proposals for change.

In addition, students are. encouraged to form relevant organiza-



tions and special interest **groups** to further their own interests and become involved with the college through co- and extra-curricular activities.

See the current CCCC **Student Handbook** for detailed information on how to get involved in student adtivities.

FITNESS CENTER

A major emphasis of the Health, Physical Education and Dance department at CCCC is to encourage lifetime fitness. Students may use the Fitness Center at either Central Park Campus or Spring Creek Campus during the times posted. The Central Park Campus Fitness Center consists of locker recon facilities, Universal weight machines, rowing machines, treadmill, bicycles and

aerobic dance area. The Spring Creek Campus Fitness Center consists of the main gymnasium with rubber running track; weight training room with Universal Super Circuit single station weight machines, free weights, treadmills, Stairmaster, rowing machines and bicycle ergometers; dance studio; four racquetball courts; locker room facilities with sauna; eight lighted tennis courts; outdoor running trail; and playing fields.

Before beginning anew exercise regimen, students, faculty, staff and community members are encouraged to take a fitness assessment in the Wellness Center. Contact the wellness director to set up an individual wellness program

Collin County residents who are not enrolled in classes at the college will have the opportunity to take advantage of these facilities at night and on weekends with a \$45 per semester paid membership. Contact the Fitness Center at either campus (CPC: B207, 548-6891; SCC: A103, 881-5848) for further information and hours of operation.

INTRAMURALS

The intramural sports program includes volleyball, basketball, flag football, softball, soccer, bowling, golf, racquetball and tennis. These are an integral part of the total physical education program at CCCC. For information, contact the director of intramurals, 881-5848 or 548-6848.

INTERCOLLEGIATE ATHLETICS

The college offers intercollegiate athletic programs in men's basketball, baseball and tennis, and in women's volleyball and tennis. These teams are affiliated with the National Junior College Athletic Association (NJCAA) and participate in regional events which may lead to national competition. To participate in intercollegiateathletic programs at CCCC, students must be enrolled full-time (12 semester hours) and maintain a **2.0** GPA each semester. Contact the athletic director at 881-5888 for more information.

Music Program

The Music Department at CCCC offers a full curriculum of music study including music theory, music literature, choral and instrumental ensembles audio recording techniques, electronic music production as well **as** class and private lessons.

Students and community members interested in musical performance are encouraged to join one of three choral groups: jazz choir, concert choir and community choir. Admission to the

jazz choir is by audition only. Performances by all three choirs are held throughout the school year, both on and off campus. other opportunities for musical involvement include:

- · Choral Band;
- Flute Choir:
- Guitar Ensemble;
- Jazz Lab Band:
- · Madrigals;
- Plano Community Band;
- · Plano Civic Chorus: and
- · Wind Ensemble.

The music facility at Spring Creek Campus is one of the finest in the southwest. **The** 6,000 square-footspace houses band and choral rehearsal rooms, a 16-back professional recording studio, five practice rooms, a CAI music lab and a **MIDI** electronic piano lab. For further infomation contact **the** coordinator of music (SCC:B183, 881-5807).

SPEECH AND THEATRE PROGRAMS

CCCC's speech communications and theatre departments offer **a** wide **range** of opportunities for students interested in the performing **arts** and in various other forms of communication. Credit courses in these areas go beyond **the** classroom to allow **students** to develop their communication and performance **skills** before local, state and national audiences.

SPCM 291 (CalInterpretation) provides the opportunity to deliver dramatic and humorous monologues and to practice poetry and prose recitations. Students end the semester with a campuswide readers' theatre production. Students in SPCM 192 (Forensics Workshop) participate in faculty-student debates, campus auctions and speech competitionsthroughout the country. Students enrolled in SPCM 295 (Radio and TV Announcing) learn oncamera announcing techniques and gain experience in news broadcasting and interviewing.

In addition **to** communication classes, students have a multitude of opportunities for dramatic performance through **the** newly developed theatre program. From small "black **box** theatre" shows to large-scale musical productions in the 365-seat John Anthony Theatre, the theatre department provides experience for performers of all levels.

Interested students should contact the Arts and Humanities
Office for further information.

CONTINUING EDUCATION AND SPECIAL PROGRAMS

Collin County Community College is dedicated to presenting dynamic and flexible educational programs to the community throughout our geographical area

The college strives to make programs readily accessible and bring 'lifelong learning' opportunities to the public as conveniently and economically as possible.

Lifelong learning goes beyond initial career preparation, traditional concepts of full-time study and program degree completion and encourages education renewal. CCCC endeavors to provide lifelong learning for people of all ages to develop their personal and professional potential, upgrade job-related skills and prepare for informed participation in the civic, cultural and political life of the community.

The college, through the Continuing Education Division, can provide services which encompass a broad range of purposes:

- addressing adults' caner needs by assisting them to cope with the explosion of new information and techniques, work toward job advancement, or move into a new career;
- providing jobspecific customized training for use by business and industry with curricular elevant to needs of the local economy;
- contributing to the growth and development of local business and industry through economic development activities on local, state and national levels;
- responding to the non-academic or extra-curricular interests and needs of adults by providing a sufficient number of personal development courses by request;
- offeringcommunity service activities designed to help disadvantaged individuals and communities;
- facilitating the interplay between the college and the community;
- expandingawareness and understanding of public issues
 affecting the local, state and national economy; and
- providing cultural activities that enhance the Community's awareness of the atts.

Each of these specific purposes within the Continuing Education Division relates to the purpose of promoting the philosophy of "lifelonglearning" at CCCC.

CCCC's flexible continuing education **program** offers **courses**, **programs** and conferences geared to professional development. Course material is adapted to the **needs** of the particular groups of participants. Courses may be started at any time there is sufficient enrollment and ate continued as long as **necessary** to meet participant needs.

CONTINUING EDUCATION COURSES

The ContinuingEducation Division publishes a schedule each semester with approximately 450 courses pertaining to business and professional development, personal development and extracurricular activities. Conferences and seminars on special topics are also offered throughout the year.

CONTRACT TRAINING

The Contract Training Office responds immediately to the current needs of business and industry by delivering job-specific customized in-house training. This may mean entry-level or a "quick start" training of employees of new and expanding business and industry, re-training of employees for new technological develop ments or extension of technical assistance to business and industry in the essential managerial functions of planning, organizing, implementing and controlling.

CONTINUING EDUCATION UNITS

The **Continuing** Education and Contract **Training** offices may offer courses which award credit or **Continuing** Education Units (CEU), depending **upon** the offering. CEUs are **rationally recognized** to **record satisfactory** completion of certain approved occupationally related programs. Certificates **are** awarded upon completion of the **course**. Courses are offered throughout the **county** at a **variety** of sites depending on the **types** of courses and availability of facilities.

For more information on how the Continuing Education Division can be your connection to lifelong learning, please call 548-6850 (Central Park Campus) or 881-5851 (Spring Creek Campus).

SMALL BUSINESS DEVELOPMENT CENTER (SBDC)

The SBDC, a partnership between the **U.S. Small** Business Administration and Collin **County** Community college, aims to promote the economic health and **success** of small businesses in Collin County. The **SBDC** provides free, in-depth small business counseling as well as seminars and workshops on topics relevant to established, new and potential small business owners.

ECONOMIC DEVELOPMENT

The Economic Development Office initiates and **participates** in economic activities which contribute to **the** *growth* and development of county-wide business and **industry**.

COLLIN COUNTY TRAINING AND EMPLOYMENT PROGRAM

The Collin County Training and Employment Program is a joint effort between the college and the Job Training Partnership Act (JTPA). Collin County has been designated a JTPA Service Delivery Area with CCCC as the administrative entity for JTPA. Eligible persons who are needing to enter or re-enter the work force may qualify for employment training services. Special services also are provided to youth (ages 14-21), dislocated workers, welfare recipients, single parents and displaced homemakers. Contact the CCTEP Office at 542-0490 in McKinney and 964-3962 in Plane for more information.

Texas Resource Center FOR WORK Transition Programs

Collin County Community College is committed to promoting the growth of a variety of work transition programs to other community and technical colleges within the state of Texas. This is accomplished by providing professional development, training and resources to administrators, faculty and to employers in setting up and improving work transition programs. These include CCCC's Cooperative work Experience, S.E.E. (Student's with Experience and Education), and SUCCESS (a service-based work experience program), as well as other types such as Apprenticeship, internships, partnerships and custom-designed programs to meet individual employer's needs.

The center houses a resource library of materials **and** videos on work transition programs and related topics which are available upon request.

The Texas Resource Center for Work Transition Programs is funded from a Carl D. Perkins Vocational Education grant administered through the Texas Higher Education Coordinating Board.

EMPLOYMENT RESOURCE CENTER

The Employment Resource Center is an on-going project sponsored by the college which provides training and employment opportunities to area residents age 55 and over. During its five year tenure, the ERC has helped hundreds of older workers acquire new skills, make career transitions or simply find the right job for them. Additionally, many area businesses have strengthened their work forces by hiring mature, dependable employees referred by the ERC. Funded by the Job Training Partnership Act, ERC services are free to eligible individuals who in Collin, Denton, Hunt or Rockwall counties. Residents of Dallas or Grayson counties may inquire about eligibility. For more information, call (214) 548-6844 at Central Park Campus or (214) 881-5790, extension 6844 at Spring Creek Campus.

GLOBAL EDGE CONSORTIUM

The needs of Collin County employers for skilled workers are changing dramatically. To assure that students obtain the technical and lifelong learning skills required for immediate and continued employment, CCCC, local public school districts, and area businesses have formed a consortium to transform education.

Global EDGE will provide students with appropriate, flexible and seamlessprograms throughout the public school and higher education system. The learning environment will reflect work place experiences and work transition programs will provide students with on the job learning experiences and smooth transitions from school to the workplace.

The college and other consortium partners are beginning to develop and implement technical preparation (Tech *Prep*) programs which will allow students to complete the new Associate of Applied Science with Advanced Skills degree. Upon earning this degree, students will be able to pass the Texas Advanced Certification Exams now being developed. Advanced Skills Certification will provide students with nationally recognized credentials and virtually assure employment in a high-paying career. For more information about Tech Prep programs, call 5484730 or 881-5790, ext. 6730.

DECREE PROGRAMS

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DEGREES **O**FFERED

Collin County Community College offers three degrees and a number of certificates. Offerings include Associate of Arts (A.A.), Associate of Science (A.S.) and Associate of Applied Science (A.A.S.) degrees. The areas of study on the following pages reflect the comes which are suggested to obtain an associate degree or certification. In addition, anyone may take courses without obtaining a degree.

Students with academic deficiencies **are** encouraged to take developmental comes to correct the deficiencies before they enroll in college-level **courses**. Developmental courses do not satisfy any graduation requirements or transfer to four-year institutions.

Students should contact their academic advisers for further information.

GENERAL EDUCATION CORE

The general education core required for an associate

degree at Collin County Community College provides students with a focused, integrated curriculum. Courses in the core establish a foundation for cultural understanding and lifelong learning. The core addresses skills in written and **oral** communication, mathematics, computer literacy, interpersonal relations, and critical and creative thinking. The core also fosters appreciation of the natural and physical environment, historical and political perspectives, international and multi-cultural issues, social, mental and physical well-being. The core emphasizes substantive knowledge and methods of inquiry, theory and application, and promotes active participation in the experience of learning.

The general education core is an essential component of all degree programs offered at CCCC because it **transcends** vocational and **career** training and provides students with the **skills** and knowledge to become active and productive members of the community.

ASSOCIATE OF ARTS DEGREE PROGRAMS

The Associate of **Arts** degree provides general academic courses which enable students to transfer to a four-year institution of their choice. It is the student's responsibility to choose a college or university **as soon as** possible and **to**

determine the specific degree requirements of that institution. Students should consult with a CCCC adviser and the four-year institution on a regular basis to ensure enrollment in courses appropriate to the chosen major.

GENERAL EDUCATION CORE REQUIREMENTS: (CH = CREDIT HOURS)

I. ENGLISH

9 CH to include:

6 CH ENGL 151

Composition/Rhetoric I and

ENGL 152

CompositiodRhetoric II

3 c H

Sophomore Literature

II. SPEECH COMMUNICATIONS'

3 CH SPCM **151**

Fundamentals of Speech Communication

III. SOCIAL SCIENCES

12 CH to include:

6CH HIST **151** U.S. History I and HIST 152 U.S. History II

6CH PLSC 261 American Government I and

PLSC 262 American Government II

IV. MATHEMATICS AND NATURAL/PHYSICAL SCIENCES 1, 2

3 CH **MATH 150** Contemporary Mathematics (or higher **as** determined by **major** field of study) 6-8CH BIOL **151** Introduction to Biology I BIOL 152 Introduction to Biology II CHEM 151* Introduction to Chemistry CHEM 152* . Introduction to Chemistry PSCI 151* Physical Science I PSCI 152* Physical Science II PSCI **153** Elementary Astronomy PSCI **154** Earth Science

*Prerequisite: high school algebra or equivalent

V. COMPUTER LITERACY

3 CH CPSC 150 Introduction to Computers

VI. HUMANITIES!

3 CH HUM 151 Introduction to Humanities or
PHIL 151 Introduction to Philosophy
PHIL 152 Logic
PHIL 153 Ethics
PHIL 154 Comparative Religion

VII. BEHAVIORAL SCIENCE

3 CH PSYC 151 General Psychology or SOC 151 Introduction to Sociology

VIII. HEALTH, PHYSICAL EDUCATION AND DANCE

2 CH HPED Any two activity comes

GENERA EDUCATION CORE 44-46 CREDIT HOURS

ELECTIVES (SEE PAGES 45-97) 14-I 6 CREDIT HOURS

TOTAL 60 CREDIT HOURS

- The general education core for the Associate of Arts degree consists of 44-46 credit hours. The electives and/or major field of study consists of 14-16 credit hours.
 This degree requires the completion of a minimum of 60 credit hours, including at least 18 hours earned at CCCC.
- Waivers for physical education requirements may be granted for medical reasons. A written statement from a physician and two additional hours of electives are required Credit for HPED courses is awarded for military training upon receipt of DD214 (Honorable Discharge).
- Foreign languages Students planning to transfer to a
 four-year institution should contact the transfer institution
 before beginning work toward the A.A. or AS. degrees.
 Some colleges and universities require two years of a
 foreign language for the completion of the bachelor's
 degree.
- I. Students planning to transfer to a four-year institution should check the specific degreeplan requirements located in the Transfer Lab.
- 2. Higher levels & mathematics and science may be substituted with adviser approval.

ASSOCIATE OF SCIENCE DEGREE PROGRAMS

The Associate of Science degree provides general academic courses which enable students to transfer to a four-year institution of their choice. It is the student's responsibility to choose a college or university as soon as possible and **to**

determine the specific degree requirements of that institution. Students should consult with a CCCC adviser and **the** four-year institution on a regular basis to ensure enrollment in courses appropriate to the chosen major.

VI. HUMANITIES'

3 CH to include:

3 CH HUM 151 Introduction to Humanities or PHIL 151 Introduction to Philosophy PHIL 152 Logic **PHIL** 153 **Ethics** PHIL 154 Comparative Religion VII. BEHAVIORAL SCIENCE 3 CH **PSYC** 151 General Psychology or SOC 151 Introduction to Sociology VIII. HEALTH, PHYSICAL EDUCATION AND DANCE

2 CH HPED Any two activity courses

GENERAL EDUCATION CORE 44-46 CREDIT HOURS
ELECTIVES (SEE PAGES 49-91) 14-16 CREDIT HOURS

TOTAL 60 CREDIT HOURS

- The general *education core* for the Associate of Science degree consists of 44–46 credit hours. The *electives* and/ or *major field of study* consists of 14–16 credit hours.
 This degree requires the completion of a minimum of 60 credit hours, including at least 18 hours earned at CCCC.
- Waivers for physical education requirements may be granted for medical reasons. A written statement from a physician and two additional hours of electives are for HPED is awarded for military training upon receipt of DD214 (Honorable Discharge).
- Foreign *languages*—Students planning to transfer to a
 four-year institution should contact the transfer institution
 before beginning work toward the A.A. or A.S. degrees.
 Some colleges and universities require two years of
 foreign language for the completion of the bachelor's
 degree.
- 1. Students planning to transfer to a four-year institution should check the specific degree plan requirements located in the Transfer Lab.
- 2. Higher levels of mathematics and science may be substituted with advisor approval.

ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAMS

The Associate of Applied Science degree is awarded after completion of a prescribed two-year program of study which prepares the student to enter and compete in the job market. The programs also are designed for individuals who are upgrading current job skills. The student should remember that the majority of credits earned in most vocational/

technical programs are designed for work-place competencies and not transfer. However, some of the programs do transfer to specific four-year institutions and it is important for the student to consult with an adviser at CCCC as well as the far-year institution.

1 Engush

3 CH ENGL 151 Composition/Rhetoric I

II. SPEECH

3 CH SPCM 151 Fundamentals of Speech Communication or

SPCM **293** Business and Professional Speaking

111. MATHEMATICS

3 CH MATH 150 Contemporary Mathematics (or higher as determined by major field of study)

IV. COMPUTER LITERACY

3 CH CPSC 150 Introduction to Computers

V. Economics

3 CH ECON 121 Introduction to Economics

VI. HUMANITIES

3 c H HUM 151 Introduction to the Humanities

VII. BEHAVIORAL SCIENCE

3 CH PSYC 121 Applied Psychology

VIII. HEALTH, PHYSICAL EDUCATION AND DANCE

1 CH HPED Any activity course

The *general education* core for the Associate of Applied Science degree consists of 22 credit hours. The total number of hours required to complete an A.A.S. degree varies **depending** upon the field of study. A minimum of **18** credit hours must be earned at CCCC.

Waivers for physical education requirements may be granted for medical reasons. A written statement from a physician and two additional hours of electives are required Credit for HPED courses is awarded for military training upon receipt of DD214 (Honorable Discharge).

CERTIFICATE PROGRAMS

The certificate programs are designed for re-entry into the job market or the upgrading of skills. The certificate is awarded after the completion of course requirements in the area of specialization. The programs vary in length and

prepare the student for immediate employment. The certificate programs follow each related Associate of Applied Science degree.

ACCOUNTING

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

This Associate of **Arts** degree provides general academic courses and electives that enable students who intend to major in accounting to transfer to four-year institutions. Because of the various transfer requirements of different four-year institutions, and to ensure enrollment in appropriate courses, students should consult with a CCCC adviser and the institution which they plan to attend

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: ACCOUNTING

I. General Education Core **Credit Hours** Seepage 40 for General Education Core requirements.

II. Recommended Electives

(14-16 credit hours)

A. ACCT 191	Principles of Accounting I	3
B. ACCT 192	Principles of Accounting II	3
C. ACCT 193	Managerial Accounting	3
D. ECON 291	Principles of Economics-Macro	3
E. ECON 292	Principles of Economics-Micro	3
F. MATH 152	Calculus for Business and Econ.*	3

^{*}Math 151 recommended in general education core

CCOUNTING

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

6 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Accounting **firms**, public corporations and private firms have expressed a need for two-year accounting graduates who have learned the skills needed to act as accounting paraprofessionals. The Associate of Applied Science degree in accounting was developed in response to that need. Students who participate in this program learn a variety of accounting skills related to financial accounting, managerial accounting, auditing and taxation Furthermore, these students learn computer skills related to spreadsheet, data bases and word processing. Students also learn about the ethical and legal environments in which these skills are used.

This program is **an** exciting opportunity for students desiring a two-year Associate of Applied Science degree. After two years of college study, the student will be prepared for entrance into a paraprofessional accounting career.

Studentsplanning to transfer to a four-year institution should check with an academic adviser.

CARFER OPPORTUNITIES

A wide range of career options await the graduates of this program. After completing the required course work and onthe-job training, students select from a diversified variety of career options in the areas of:

- · internal auditing
- external auditing
- tax return preparation
- compilation work
- financial statement preparation
- special accounting projects

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Credit Hours

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: ACCOUNTING

General Education Core (22 credit hours) A. ENGL 151 Composition/Rhetoric I _____ B. SPCM 151 Fundamentals of Speech Comm.3 C. MATH 151 Pre-Calculus for Bus./Econ. _____ 3 D. ECON 291 Principles of Economics _Macro3 E. PSYC 121 Applied Psychology _____ F. HUM 151 Introduction to Humanities3 G. CPSC 150 Introduction to Computers3 H. HPED Any Activity Course _____ II. Technical Program Core (12 credit hours)

D. ACCT 195 Intermediate Accounting II 3

III. Major Course

(18 credit hours)

Ā.	ACCT	193	Managerial Accounting	3
R	ACCT	196	Auditing	3

	C.	ACCT	291	Individual Income Taxation	3
	D.	ACCT	292	Corporate Income Taxation	3
	E.	CIS	220	Integrated Spreadsheet App	3
	F.	CIS	230	Database Applications	3
IV.	. Ek	ectives			
	(9	credit	hour	s)	
	A.	ACCT	700	Cooperative Education I	3
	B.	ACCT	295	Accounting Ethics	3
	C.	BSAD	123	Business Law	3
	D.	OFAD	223	Word Processing I	3
	E.	ENGL	291	Technical Writing*	3
	F.	CIS	235	Networking and Telecomm	3
	G.	CIS	245	Computer Operating Systems	3
*5	ee E	NGL 291	cour	se description	

ADVERTISING ART

(APPLIED COMMUNICATION DESIGN)

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

70 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The program in advertising art trains today's artists and designers in the communication medium of the future as well as the present: computer-aided communication design. Students work with the state-of-the-art hardware and software, creating professional-level publishing, graphics, illustration, animation and imaging. Students also design software and human interface applications. Leading-edge industries support the program fiscally and act as a source of referral and employment for our graduates.

Apple Computer has named the CCCC Advertising Art area one of only three Apple Multimedia Regional Centers in a three-state area. The high visibility of this center will enhance CCCC graduates' employment possibilities.

Advertising Art offers an Associate of Applied Science degree and three certificates in Computer Graphics, Illustration and Production Art. Students receive a strong background in traditional graphics skills together with state-of-the-art training in electronic publishing, imaging, graphics, 3D modeling, animation and interactive multimedia. A student ad agency and an active internship program help to bridge the gap from formal training to full-time employment.

Students completing the two-year Commercial Art program in the Plano ISD or the two-year Commercial Art

Cluster at Skyline High School may be eligible to receive credit through articulation. Check "Customized Articulation Program" in this catalog.

CAREER OPPORTUNITIES

Jobs in the Advertising *Art* area are varied and depend upon the business or agency specialty. Listed below are **some** of the career opportunities:

- · production artist
- · graphicdesigner
- art director
- illustrator
- · computer graphics production artist
- computer illustrator
- multi-media director/author
- computer animator computer visualization artist

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have **been** established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS ADVERTISING ART

I.	General Ed	luc	ation Core Credit Ho	ours				
	(22 credit hours)							
	A. ENGL 1:	51	Composition/Rhetoric I	3				
	B. SPCM 13	51	Fundamentals of Speech C o r n	3				
	C. MATH 1	50	Contemporary Mathematics	3				
	D. ECON 12	21	Intro. to Economics or	3				
	ECON 29	91	Principles of Economics - Macro	3				
	E. PSYC 12	21	Applied Psychology or	3				
	PSYC 1	51	General Psychology	3				
	F. HUM 1	51	Introduction to Humanities	3				
	G. CPSC 1	50	Introduction to Computers	3				
	H. HPED		Any Activity Course	1				
II.	Technical F	Pro	gram Core					
	(36 credit h	nou	ırs)					
	A. ADV 1	90	Survey of Advertising Art	3				
	B. ADV 1	4 0	Intro. to Computer Graphics	3				
	C. ADV 1	41	Creative Problem Solving	3				
	D. ADV 2	87	Visual Communications I	3				
	E ADV 2	22	Visual Communications II	3				

F. ADV	296	Advanced Computer Illustration or3	D. ADV	190	Survey of Advertising Art3
ADV		Electronic Publishing for3	E. ADV		Intro. to Art Direction for Video 3
		Graphic Design	F. ADV		Adv. Computer Graphics 3
G.ADV	294	ProfessionalPractices 3	G. ADV		Electronic Publishing for3
H. ADV	295	Ad Agency 3			Graphic Design
I. ADV	700	Cooperative Education I 3	H.ADV	287	Visual Communication I 3
J. ART	191	Design I 3	I. ADV	288	Visual Communication II or3
K. ART	193	Drawing I 3	ADV	290	Graphic Design and Production 3
L. PHO	180	Photography I	J. ADV	294	Professional Practices 3
III Electives	;		K. ADV	295	Ad Agency3
(I2 credi	t hou	ırs)	L. ART	191	Design I
A.ADV	142	Intro.to Electronic Imaging3	M.ART	193	Drawing I 3
B. ADV	143	Computer Typography 3	N.ENGL	151	Composition/Rhetoric 3
C. ADV	144	Intro.to Interactive 3	O.ELECT	TIVE	Select one:
		Multimedia Authoring	ADV	144	Intro. to Multimedia Authoring 3
D. ADV		Sketching for Illustration3	ADV	232	Image Processing I 3
E. ADV		Intro to Art Direction for Video3	ADV	289	Computer Illustration 3
F. ADV		Image Processing I 3	ADV	290	Graphic Design and Production 3
G. ADV	233	Electronic Publishing for3	ADV	292	Illustration 3
	22.5	Graphic Design	ADV	293	Advanced Illustration 3
H. ADV		2D Computer Animation 3	ADV	236	2D Computer Animation3
I. ADV		Computer Illustration 3	ADV	208	Sketching for Illustration3
J. ADV		Graphic Design and Production3	ADV	296	Advanced Computer Illustration3
K. ADV		Illustration3	ART	194	Drawing II 3
L. ADV		Advanced Computer Illustration3	ART	196	Design III/Color Theory 3
M.ART		Drawing II3	ART	297	Life Drawing3
N. ART		Design III/Color Theory 3	PHO	180	Photography I
O. ART		Printmaking I	PHO	181	Photography II3
P. ART		Painting I	CERTIFICATE	REQ	UIREMENTS: LLUSTRATION
Q. ART		Watercolor I	(36 CREDIT HOU	IRS)	
R ART		Life Drawing 3	•	-	Creative Problem Solving 3
		Fashion Design 3	B. ADV		Survey of Advertising Art3
T. PHO		Photography II3	C. ADV		Visual Communications I3
U.PHO	291	News Photography 3	D. ADV		Visual Communications II3
ADVED	TIC	ING ART	E. ADV		Illustration3
-			F. ADV		Professional Practices 3
(APPLIED Co	рими	NICATION DESIGN)	G. ADV		Ad Agency 3
CERTIFICA	TE /	PROGRAMS	H. ART		Design I
			I. ART		Drawing I
(36-45 CREDIT	T HOUF	RS)	J. ART		Drawing II
C ERTIFICATE	REQ	UIREMENTS: COMPUTER GRAPHICS			Composition/Rhetoric I 3
(45 CREDIT HOL	JRS)				: Select one:
•	=	Intro.to Computer Graphics3	ADV		Intro. to Computer Graphics3
B. ADV		Creative Problem Solving3	ADV		Intro. to Electronic Imaging3
C. ADV		Computer Typography 3	ADV		Computer Typography 3
CILDY	173	Compared Typosiupity	7 HZ V	113	compacer Typography

ADV	208	Sketching for Illustration3
ADV	231	Advertising Computer Graphics3
ADV	236	2D Computer Animation3
ADV	289	Computer Illustration 3
ADV	290	Graphic Design and Production 3
ADV	296	Adv. Computer Illustration 3
ART	196	Design III/Color Theory 3
ART	291	Painting 3
ART	293	Watercolor I 3
ART	297	Life Drawing 3
MRKT	126	Fashion Design
PHO	180	Photography I 3
CERTIFICATE	REQ	UIREMENTS: PHOTOGRAPHY
42 CREDIT HOU	URS)	
A. ADV	140	Intro. to Computer Graphics
B. ADV	141	Creative Problem Solving 3
C. ADV	190	Survey of Advertising Art 3
D. ADV	287	Visual Communication I3
E. ADV	288	Visual Communication II3
F. ADV	294	Professional Practices3
G. ADV	295	Ad Agency 3
H. ART	191	Design I 3
I. ART	192	Design II
J. ENGL	151	Composition/Rhetoric I 3
K. PHO	180	Photography I 3
L. PHO	181	Photography II3
M. PHO	291	News Photography
N. ELEC	TIVE	: Select one:
ADV	142	Intro. to Electronic Imaging 3
ADV	231	Advertising Computer Graphics 3
ADV	289	Computer Illustration 3
ADV	290	
ADV		Illustration
ADV		Advanced Computer Illustration3
CERTIFICATE	REQ	UIREMENTS: PRODUCTION ART
(39 CREDIT HO	URS}	
A. ADV	140	Intro. to Computer Graphics3
B. ADV	141	Creative Problem Solving 3
C. ADV	143	Computer Typography 3
D. ADV	190	Survey of Advertising Art 3
E. ADV	233	Electronic Publishing 3 for Graphic Design
F. ADV	287	-
G, ADV	290	Graphic Design and Production 3

H.	ADV	294	Professional Practices	3
I.	ADV	295	Ad Agency	3
J.	ART	191	Design I	3
K.	ART	193	Drawing I	3
L.	ENGL	151	Composition/Rhetoric I	3
M.	ELEC'	ΓΙVΕ:	Select One:	
	ADV	142	Intro. to Electronic Imaging	3
	ADV	144	Intro. to Interactive	3
			Multimedia Authoring	
	ADV	231	Adv. Computer Graphics	3
	ADV	236	2D Computer Animation	3
	ADV	288	Visual Communication II	3
	ADV	289	Computer Illustration	3
	ADV	292	Illustration	3
	ADV	296	Advanced Computer Illustration	3

ART

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The fine arts program offers courses in foundation classes such as drawing and design and specialization classes such as painting, watercolor, ceramics, sculpture and printmaking. All labs include professional quality equipment such as an intaglio printing press, a variety of ceramic kilns, electric pottery wheels and a metal-casting foundry. Two gallery spaces serve to acquaint students with current professional artists and to showcase student work in competitions and all-student shows. Seminars in professional practices help prepare the students to function as fine artists. Instructors who are highly trained, practicing artists are dedicated to encouraging the individual students to reach their highest level of skill and creativity.

CAREER OPPORTUNITIES

Careers in fine arts are quite varied. Perhaps the most visible are the practicing, professional fine artists and art teachers. Other career opportunities include work in museums as docents; museum curators; art historians; art restorers; exhibition designers; sales positions in galleries; artists representatives; art brokers; art therapists; medical illustrators; art administrators and directors of cultural arts programs; color, space or texture consultants; commercial artists; illustration and design of books and advertising; window display; interior design; fabric, wall and floor covering design.

ASSOCIATE OF ARTS DEGREE REQUIREMENTS ART

I. General Education Core

Seepage 40for General Education Core requirements

II. Recomm	II. Recommended Electives			
(I 4–16 c	(I 4-16 credit hours)			
A. ART	190	Art Appreciation	3	
B. ART	191	Design I	3	
C. ART	192	Design II	3	
D. ART	193	Drawing I	3	
E. ART	194	Drawing II	3	
F. ART	195	Problems in Contemporary Art	3	
G. ART	196	Design III-Color Theory	3	
H. ART	249	Art for Elementary Educators	3	
I. ART	281	Sculpture I	3	
J. ART	282	Sculpture II	3	
K. ART	283	Ceramics I	3	
L. ART	284	Ceramics II	3	
M. ART	285	Printmaking I	3	
N. ART	286	Printmaking II	3	
O. ART	291	Painting I	3	
P. ART	292	Painting II	3	
Q. ART	293	Watercolor I	3	
R. ART	294	Watercolor II	3	
S. ART		<i>y</i>	3	
T. ART	296	Art History II	3	
U. ART	297	Life Drawing	3	
V. ART	298	Fibers I	3	
W. ART	299	Fibers II	3	

BIOLOGY

A TWO-YEAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Today, more than ever, an understanding of biology is critical to human life and the future of the planet. Fast-paced developments in medicine, genetics and environmental issues can be bewildering without basic knowledge of biological science. The Associate of Science degree with a biology emphasis provides an educational foundation broad enough to prepare students to pursue university studies leading to a bachelor's degree in a science-related field An excellent instructional staff, computer-aided instruction, state-of-the-artlaboratory facilities, and an emphasis on

current research give biology **students** at CCCC **a** personalized, high quality educational experience.

CAREER OPPORTUNITIES

Many exciting career opportunities are available in the biological sciences. In particular, the areas of health care, genetic research and environmental science are predicted to provide many job opportunities in the coming decade. Students should bear in mind that many of the career areas listed below require training beyond the Associate of Science **degree** and some will require a post-graduate degree.

- · agriculture
- · allied health
- dentistry
- · dietary research
- · environmental science
- · marine science
- medicine
- · medical research
- · medical technology
- · pharmacology research
- · pharmacology sales
- · physical therapy
- science teaching
- toxicology
- veterinary science
- wildlife biology
- · genetic research
- microbiological research

Associate of Science Degree Requirements: **Biology**

I. General Education Core

See page 42 for General Education Core requirements.

I. BIOL 294 Genetics

4

J. CHEM 191	General Chemistry I	4
K. CHEM 192	General Chemistry II	4
L. CHEM 193	Biochemistry	1
M. CHEM 291	Organic Chemistry I	4
N. CHEM 292	Organic Chemistry IT	4
O. HLSC 191	General Nutrition	3
P. HLSC 132	Medical Terminology	3
Q. MATH 153	Statistics	3

BUSINESS ADMINISTRATION

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The Associate of Arts with emphasis in Business Administration program consists of a forty-six credit hour general education core and fifteen credit hours of suggested electives. The program is designed to provide the basis for completing a bachelor's degree at most four-year colleges or universities located in Texas. This program provides flexibility allowing students to pursue accounting, economics, finance, marketing or management majors at many four-year institutions.

CAREER OPPORTUNITIES

This program is designed primarily to prepare student to major in some area of business administration at the junior/senior level. Students should consult an adviser if this is not their primary goal.

Associate of Arts Degree REQUIREMENTS: Business Administration

I. General Education Core

See page 40 for General Education Core requirements.

II. Recommended Electives Credit Hwrs (14–16 credit hours)

•	•	
A. ECON 291	Principles of Economics-Macro	3
B. ECON 292	Principles of Economics-Micro	3
C. ACCT 191	Principles of Accounting I	3
D. ACCT 192	Principles of Accounting II	3
E. CIS 130	BASIC Programming	3
F. ENGL 252	Forms of Literature II	3
G. PSYC 151	General Psychology	3
H. MATH 152	Calculus for Business and Econ.*.	3
I. MATH 153	Statistics	3

^{*}Math 151 recommended in general education core

CHEMISTRY

A TWO-YEAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

OUR PROGRAM

The CCCC Associate of Science Degree with an emphasis in chemistry establishes an academic foundation for future studies. Courses include general chemistry and organic chemistry, as well as an introduction to chemistry designed for students who are novices in science disciplines.

Solving problems in chemistry requires creativity and curiosity **as** well **as** logic and reasoning. An excellent instructional **staff**, computer-aided instruction, laboratory facilities, current scientific literature and regularly held tutorials give chemistry students at CCCC a personalized high quality educational experience.

CAREER OPPORTUNITIES

Modem society offers both challenging and lucrative **careers** to employees with scientific and technical backgrounds. **Careers** listed below demand a knowledge of chemistry and many require academic training beyond the Associate of Science degree.

- biomedical engineer
- · chemical engineer
- cosmeticsresearcher
- dietician
- · environmental scientist
- geophysicist
- industrial researcher
- · medical technologist
- nurse
- · oceanographer
- perfumer
- · pharmacist
- physician
- veterinarian

Associate of Science Degree REQUIREMENTS: CHEMISTRY

1. General Education Core

See page 42for General Education Core requirements.

B. CHEM 291 Organic Chemistry

C. CHEM 292	Organic Chemistry	4
D. PHYS 291	College Physics I	4
E. PHYS 292	College Physics II	4
F. MATH 291	Calculus III	4
G. MATH293	Differential Equations	3

CHILD DEVELOPMENT

EARLY CHILDHOODADMINISTRATOR

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

66-67 CREDIT HOURS REQUIRED TO GRADUATE

OUR PROGRAM

The degree program in Child Development with an Early Childhood Administrator major offers the students an opportunity to study administrative procedures in a variety of child care facilities. Students learn management skills which will allow them to provide quality programs in safe, nurturing environments that promote optimal growth and development of children.

The classroom learning experiences are supplemented by laboratory activities. Students receive training in observation and evaluation procedures; practice the skills necessary for planning, organizing, communicating and supervising; and learn to work cooperatively with parents and community services.

Studentsplanningto transfertoa four-year institution should check with an academic adviser.

Mote: Students completing the two-year Child Care Development program at Denton ISD, Lewisville ISD, or Plano ISD may be eligible to receive articulated credit. See "Customized Articulation Programs" in this catalog.

CAREER OPPORTUNITIES

The Associate of Applied Science degree in Child Development with an Early Childhood Administrator major is designed to provide the necessary preparation to work as a day care director, director of children's programs or educational director. The skills acquired will be directly applicable **m a** variety of facilities including:

- child care centers
- preschool programs
- family day homes
- employer-sponsoredchild care
- church-sponsored child care
- hospital-sponsored child care

- before and after school programs
- community center programs
- parent and child study programs
- teacher's aide
- director, assistant director, manager or educational coordinator in children's programs

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: EARLY CHILDHOOD ADMINISTRATOR

1.	General Educ		
	A. ENGL I51	CompositiodRhetoric I 3	
	B. SPCM 151	Fundamentals of Speech Corn 3	
	C. MATH 150	Contemporary Mathematics3	
	D. ECON 121	Introduction to Economics or 3	
	ECON 291	Principles of Economics–Macro3	
	E. PSYC 121	Applied Psychology or 3	
	PSYC 151	General Psychology 3	
	F. HUM 151	Introduction to Humanities 3	
	G. CPSC 150	Introduction to Computers 3	
	H. HPED	Any Activity Course 1	
11.	Technical Pro	gram Core	
	(27 credit hou	ırs)	
	A. CHDV 151	Early Child Dev. (0-3 yrs)3	
	B. CHDV 152	Early Child Dev. (3-5 yrs)3	
	C. CHDV 153	Early Childhood Programs3	
		and Services	
	D. CHDV 154	•	
	E. CHDV 157		
	F. CHDV 161	•	
	G. CHDV 251		
	H. CHDV 252	Child Abuse Prevention 3	
	I. CHDV 257		
HI.	Major Course		
	(12 credit hou	•	
	A. CHDV 253	Administration of Early 3 Childhood Programs	
	B. CHDV 254	Organization and Management 3 of Early Childhood Program	

	C.	CHDV	158	Practicum B	3
	D.	SBMT	121	Small Business Management	3
IV.	Ele	ectives			
	(m	ninimui	n 6 c	redit hours)	
	A.	CHDV	155	Material and Activities	4
				Development I	
	B.	CHDV	156	Material and Activities	4
				Development II	
	C.	CHDV	159	Infant and Toddler Materialand Activities Development	3
	D.	CHDV	160	Child Development (5-12 yrs)	3
	E.	CHDV	255	Internship	3
	F.	CHDV	256	Cooperative Education ———	3
	G.	CHDV	297	Selected Topics in	1
				Child Development	

CHILD DEVELOPMENT EARLY CHILDHOOD EDUCATOR

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

66-67 CREDIT HOURS REQUIRED TO GRADUATE.

ABOUT OUR PROGRAM

The degree program in Child Development with a major in Early Childhood Educator offers students an in-depth study of children from birth to 12 years of age. A developmental approach is emphasized which promotes optimal physical, social, emotional and cognitive growth of children.

Supplementing the classroom learning experiences are laboratory activities which promote observational skills and multi-cultural, non-sexist approaches to teaching. Lab time is also used to implement guidance techniques and parent involvement programs.

Students planning **to** transfer to a four-year institution should check with an academic adviser.

Note: Students completing the two-year Child Development program at Denton ISD, Lewisville ISD, or Plano ISD may be eligible to receive articulated credit. See "CustomizedArticulation Programs" in this catalog.

CAREER OPPORNNITIES

The degree program in Child Development with an Early Childhood Educator major provides practical skills for working with young children Students will receive necessary training for employment in such areas as:

- child care centers
- · preschool programs

- · family day homes
- · employer-sponsored child care
- church-sponsored child care
- hospital-sponsored child care
- · before and after school programs
- community center programs
- parent and child study programs
- in-home care giver or nanny

I. General Education Core

· teacher'saide

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Credit Hours

Associate of Applied Science Degree Requirements: Early Childhood Educator

	(22	2 credit	t hou	ırs)	
	A.	ENGL	151	Composition/Rhetoric I	3
	B.	SPCM	151	Fundamentals of	3
				Speech Communication	
	C.	MATH	150	Contemporary Mathematics	.3
	D.	ECON	121	Introduction to Economics or	_3
		ECON	291	Principles of Economics-Macro	.3
	E.	PSYC	121	Applied Psychology or	3
		PSYC	151	General Psychology	3
	F.	HUM	151	Introduction to Humanities	.3
	G.	CPSC	150	Introduction to Computers	.3
	H.	HPED		Any Activity Course	1
	_			~	
II.	Те	chnica	II Pro	ogram Core	
II.		chnica 7 credi		•	
II.	(2	7 credi	t hou	•	3
II.	(2 A.	7 credi CHDV	t hou 151	ırs)	
II.	(2) A. B.	7 credi CHDV CHDV	t hou 151 152	Early Child Dev. (0-3 yrs)	3
11.	(2: A. B. C.	7 credi CHDV CHDV CHDV	t hou 1 51 152 153	Early Child Dev. (0-3 yrs) Early Child Dev. (3-5 yrs) Early Childhood Programs	3 .3
II.	(2) A. B. C.	7 credi CHDV CHDV CHDV	151 152 153	Early Child Dev. (0-3 yrs) Early Child Dev. (3-5 yrs) Early Childhood Programsand Services	3 .3
II.	(2: A. B. C. D. E.	7 credi CHDV CHDV CHDV CHDV	151 152 153 154 157	Early Child Dev. (0-3 yrs)	3 .3 .3
II.	(2: A. B. C. D. E. F.	7 credi CHDV CHDV CHDV CHDV CHDV CHDV	151 152 153 154 157 161	Early Child Dev. (0-3 yrs)	3 .3 .3
II.	(2. A. B. C. D. E. F. G.	7 credi CHDV CHDV CHDV CHDV CHDV CHDV CHDV	151 152 153 154 157 161 251	Early Child Dev. (0-3 yrs)	3 .3 .3
II.	(2. A. B. C. D. E. F. G.	7 credi CHDV CHDV CHDV CHDV CHDV CHDV CHDV CHDV	151 152 153 154 157 161 251 252	Early Child Dev. (0-3 yrs)	3 3 3 3 3

III. Major Course	S	
(II credit hou	ırs)	
A. CHDV 155	Material and Activities Development I	4
B. CHDV 156	Material and Activities Development II	4
C. CHDV 158	Practicum B	3
IV. Electives		
(minimum 6 c	redit hours)	
A. CHDV 159	Infant and Toddler Materialsand Activity Development	.3
B. CHDV 160	Child Development (5-12 yrs)	3
C. CHDV 255	Internship	3
D. CHDV 256	Cooperative Education	3
E. CHDV 297	Selected Topics in Child Development	1
F. CHDV 253	Administration of Early Childhood Programs	3
G. CHDV 254	Organization and Management of Early Childhood Programs	.3

CHILD DEVELOPMENT CERTIFICATE PROGRAMS

(33-35 CREDIT HOURS)

ABOUT OUR PROGRAMS:

The Child Development Certificate programs are one-year curriculums designed to prepare individuals for entry-level positions working with young children and their families. The course work can also be applicable as in-service training for teachers, administrators, nannies and family day home providers.

l.	General Educ	ationCore C	redit Hours
	(9 credit hour	s)	
	A. ENGL 151	Composition/Rhetoric I	3
	B. SPCM 151	Fundamentalsof	
		Speech Communication _	3
	C. MATH 150	Contemporary Mathematic	es3
11.	Technical Pro	gram Core	
	(18 credit hou	ırs)	
	A. CHDV 151	Early Child Dev. (0–3) or	3
	CHDV 152	Early Child Dev. (3–5)	3
	B. CHDV 161	Early Childhood Fundame	entals 3
	C. CHDV 251	Child Guidance	3
	D. CHDV 154	Nutrition, Health and Safe	ety3
	E. CHDV 257	Parents and The Caregiver	r3
	F. CHDV 157	Practicum A	3

III. Major Courses

Note: Pending approval of the Texas Higher Education Coordinating Board

COMPUTER INFORMATION SYSTEMS

BUSINESS PROGRAMMING

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

64 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The development and use of computers in business and industry have created a need for many data processing technicians who are proficient in business programming languages **as** well as computer operations. Many small and medium sized businesses spend a considerable amount of money seeking qualified computer specialists who can solve business problems.

The degree program in Computer Information Systems with an emphasis in Business Programming is for the person who wants to obtain the entry-level skills and technical knowledge necessary for the demands of today's business and industry needs. **Areas** of study include:

- business programming—use of COBOL in a business environment is emphasized
- financial skills —accounting and economics courses are used to strengthen the background of the graduate
- management skills information systems management, systems analysis, database management systems, applied psychology and technical writing are used to enhance effective management decisions
- technical skills—operating systems, data structures and statistics are presented to further technical competency

Students planning to transfer **to** a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

Students in the Business Programming option program will receive basic instruction and pre-employment training for positions requiring high degrees of skill and technical knowledge. The Computer Information Systems curriculum will extend or improve the existing occupational competence of employed persons. The Business Programming option readies students to seek one of many new job opportunities. a few of which are:

- business programmer produce new business programs and modify existing ones
- · computer operator-control and monitor mainframe computer functions
- database manager—design and manage business data
- production analyst—maintain computer security. computer libraries. and business forms and equipment.

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: COMPUTER INFORMATION SYSTEMS **BUSINESS PROGRAMMING**

۱.	General I	Educa	ation Core	Credit Hour	s
	(22 credit hou		rs)		
	A.ENGL	151	Composition/Rhetoric I	[<u></u>	3
	B. MATH	151	Pre-Calculus for Bus./E	Con	3
	C. CPSC	150	Introduction to Comput	ters	3
	D. HUM	151	Introduction to Human	ities	3
	E. PSYC	121	Applied Psychology or		3
	PSYC	151	General Psychology		3
	F. ECON	291	Principles of Macro		3
			Economics II		
	G. SPCM	151	Fundamentals ofSpeech Comm.		3
	H. HPED		Any Activity Course		1
11.	Technica	l Pro	gram Core		
	(15 credi	t hou	rs)		
	A. CIS	130	BASIC Programming		3
	B. CIS	200	COBOL I		3
	C. CIS	222	Systems Analysis and l	Design	3

D. CIS	235	Networking/Telecommunications	3
E. CIS	245	Computer Operating System	3
III Major Co	urse	s	
(21 credi	t hou	rs)	
A.CIS	140	RPG Programming	3
B.CIS	205	COBOL II	3
C. CIS	224	Information Systems Mgmt	. 3
D. ACCT	191	Principles of Accounting I	3
E. ACCT	192	Principles of Accounting II	3
F. ENGL	291	Technical Writing*	3
G. MATH	152	Calculus for Bus/Econ	3
*See ENGL 29	1 cour	se description.	
IV Electives	5		
(minimu	m 6 c	eredit hours)	
A. CIS	121	Computer Graphics Systems	3
B. CIS	128	Microcomputer Concepts	3
C. CIS	210	Data Structures for Business	3
D. CIS	220	Integrated Spreadsheet App	3
E. CIS	225	Desktop Publishing	3
F. CIS	230	Database Applications	3
G.CIS	297	Special Topics in CIS I	3
H. CIS	298	Special Topics in CIS II	3
I. CIS	700	Cooperative Education I	3
J. CIS	705	Cooperative Education 11	3
K. BSAD	121	Introduction of Business	3
L. CPSC	190	Programming Concepts I	3
M.CPSC	19 1	Programming Concepts II	3
		l	

COMPUTER INFORMATION SYSTEMS **COMPUTER SYSTEMS**

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

64 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The area of computer information systems is an exciting field that presents many opportunities for a student who is proficient in both applications and business programming. The skills acquired in this program will enable the student to solve problems that are encountered when working in this ever-changing and growing field. Ten certificates are offered that can be a part of this degree. After completing one or more certificates students can continue at Collin

County Community College and receive an Associate of Applied Science degree.

The degree program in Computer Information Systems is for persons who want to obtain the entry level skills and knowledge necessary for the demands of today's business and industry needs. Areas of study include:

- microcomputer applications
- · financial skills
- business programming
- management skills
- · technical skills

Students planning to transfer to a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

Students in the Computer Systems option program will receive basic instruction and pre-employment training for positions requiring high degrees of skill and technical knowledge. The certificates will provide the knowledge to update currentjob requirements. The skills acquired will be directly applicable in a variety of business and industry jobs. a few of which are:

- · manufacturing firms
- · computer centers
- governmental agencies
- accounting firms
- microcomputer support firms
- transportation industry
- financial firms

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer program.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS; COMPUTER INFORMATION SYSTEMS! COMPUTER SYSTEMS

ı.	General Educ	eation Core Credit Hours
	(22 credit hou	ırs)
	A. ECON 291	Principles of Economics–Macro3
	B. ENGL 151	Composition/Rhetoric I 3
	C. HUM 151	Intro. to Humanities 3
	D. MATH 151	Pre-Calculus for Bus./Econ

E. PSYC	121	Applied Psychology or 3
PSYC	151	General Psychology 3
F. SPCM	151	Fund of Speech Comm3
G.CPSC	150	Intro. to Computers 3
H. HPED		Any Activity Come1
II Technical	Prog	gram Core
(15 credi	t hou	ırs)
A. OFAD	223	Word Processing I 3
B.CIS	130	BASIC Programming 3
C.CIS	220	Integrated Spreadsheet Appl 3
D. CIS	230	Database Applications 3
E. CIS	224	Information Systems Mgmt 3
III Electives	;	
		rs—may consist of certificate
requirem	ents	3)
A.CIS	121	Computer Graphics System3
B. CIS	128	Microcomputer Concepts3
C.CIS	140	RPG Programming3
D. CIS	200	COBOL I 3
E. CIS	205	COBOL It3
F. CIS	210	Data Structures for Bus3
G.CIS	222	Systems Analysis and Design3
H. CIS	225	Desktop Publishing 3
I. CIS	235	Networking and Telecomm3
J. CIS	245	Computer Operating Systems3
K.CIS	297	Special Topics in CIS 3
L. CIS	700	Cooperative Education I 3
M.CIS	705	Cooperative Education II3
N. ACCT	191	Principles of Accounting I3
O. BSAD	228	Organizational Behavior 3
P. BSAD	122	Principles of Management3
Q.CPSC	190	Programming Concepts I 3
R.CPSC	191	Programming Concepts II 3
S. ENGL	291	Technical Writing* 3
T. ACCT	131	Elementary Accounting 3
+Co. FNCI 20	1 ~~	an description

*See ENGL 291 course description.

COMPUTER INFORMATION SYSTEMS

MICROCOMPUTER APPLICATIONS

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

64 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The development and use of computers in business and industry has created a need for many data processing technicians who are proficient in business programming languages **as** well as a variety of computer application packages.

The United States Office of Technology Assessment estimates that by the year 2000, 80 percent of all jobs will be computer-related.

The Associate of Applied Science degree program in Computer Information Systems with an emphasis in Microcomputer Applications accentuates the entry level technical skills necessary for the demands of today's business and industry needs. These skills are:

- business applications—fluency in the use of dBASE,
 Lotus 1-2-3, Symphony, word processing and desktop publishing software is emphasized
- technical skills-operating systems, data structures, networking, telecommunications and microcomputer concepts courses are used to enhance technical competency
- management skills systems analysis and design, applied psychology and database design techniques are used to enhance effective management decisions

Note: Students planning to transfer to a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

Students in the Microcomputer Applications option will prepare for entry into the work force by experiencing practical applications and "real world" simulations using the latest in advanced software applications packages.

The degree in Computer Information Systems with a Microcomputer Applications option readies students for many new business and industry job opportunities, a few of which are:

 database: dBASE programmer—using the latest database applications programs to design and maintain business data

- PC support specialist—business problem solving using a variety of micro application packages
- micro programmer—design new programs and modify existing programs using microcomputer business languages
- PC service representative—support networking and the micro telecommunications industry

ARTICULATION/TRANSFER AGREEMENT

I. General Education Core

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: COMPUTER INFORMATION SYSTEMS! MICROCOMPUTER APPLICATIONS

Credit Hours

	Ochici al Lado	adonoore orealt rours	
	(22 credit hours)		
	A. ENGL 151	Composition/Rhetoric I 3	
	B. MATH 151	Pre-Calculus for Bus./Econ3	
	C. CPSC 150	Introduction to Computers3	
	D. HUM 151	Introduction to Humanities3	
	E. PSYC 121	Applied Psychology or 3	
	PSYC 151	General Psychology3	
	F. ECON 291	Principles of Economics — Macro 3	
	G. SPCM 15 1	Fundamentals of Speech Corn3	
	H. HPED	Any Activity Course 1	
11.	Technical Pro	gram Core	
	(15 credit hou	ırs)	
	A. CIS 128	Microcomputer Concepts 3	
	B. CIS 130	BASIC Programming 3	
	C. CIS 224	Information Systems Mgmt3	
	D. CIS 245	Computer Operating Systems 3	
	E. CIS 235	Networking and Telecomm3	
Ш	. Major Course	s	
	(21 credit hou	ırs)	
	A. CIS 121	Computer Graphics 3	
	B. CIS 220	Integrated Spreadsheet Appl 3	
	B. CIS 225	Desktop Publishing 3	
	C. CIS 230	Database Applications 3	
	E. OFAD 223	Word Processing I 3	
	F. ACCT 191	Principles of Accounting I3	
	G. BSAD 121	Introduction to Business 3	

IV_Electives	CERTIFICATE REQUIREMENTS: COMPUTER OPERATING		
(minimum 6 credit hours)	Systems		
A. CIS 140 RPG Programming 3	(15 credit hours)		
B. CIS 200 COBOL I 3	A.CPSC 150 Intro.to Computers 3		
C. CIS 205 COBOL II	B. CIS 128 Microcomputer Concepts3		
D. CIS 210 Data Structures for Business3	C. CIS 130 BASIC Programming 3		
E. CIS 222 Systems Analysis and Design3	D. CIS 222 Systems Analysis and Design 3		
F. CIS 297 Special Topics in CIS I 3	E. CIS 245 Computer Operating Systems 3		
G. CIS 298 Special Topics in CIS II 3	CERTIFICATE REQUIREMENTS: DATABASE APPLICATIONS		
H.CIS 700 Cooperative Education I 3	(12 CREDIT HOURS)		
I. CIS 705 Cooperative Education II3	·		
J. BSAD 122 Principles of Management3	A. CIS 130 BASIC Programming 3		
K. BSAD 228 Organizational Behavior 3	B. CIS 128 Microcomputer Concepts		
COMPUTED INFORMATION	C. CIS 230 Database Applications 3		
COMPUTER INFORMATION	D. CIS 222 Systems Analysis and Design3		
SYSTEMS	CERTIFICATE REQUIREMENTS: DESKTOP PUBLISHING		
CERTIFICATE PROGRAMS	(12 CREDITHOURS)		
	A. CIS 121 Computer Graphics Systems3		
(12-24 CREDIT HOURS)	B. CIS 128 Microcomputer Concepts 3		
CERTIFICATE REQUIREMENTS: BASIC PROGRAMMING	C.CIS 225 Desktop Publishing 3		
(12 CREDIT HOURS)	D. OFAD 223 Word Processing I 3		
A.CIS 130 BASIC Programming 3	CERTIFICATE REQUIREMENTS: INFORMATION SYSTEMS		
B. CIS 128 Microcomputer Concepts3	M ANAGEMENT		
C. CIS 245 Computer Operating Systems	(24 CREDIT HOURS)		
D. CIS 222 Systems Analysis and Design	A.CIS 128 Microcomputer Concepts3		
CERTIFICATE REQUIREMENTS: COBOL PROGRAMMING	B.CIS 130 BASIC Programming 3		
(18 CREDIT HOURS)	C. CIS 220 Integrated Spreadsheet App3		
•	D. CIS 224 Info. Systems Management 3		
A. CIS 128 Microcomputer Concepts	E. CIS 230 Database Applications 3		
C. CIS 200 COBOLI	F. ACCT 191 Principles of Accounting I 3		
	G. BSAD 228 Organizational Behavior 3		
D. CIS 222 Systems Analysis and Design3 E. CIS 245 Computer Operating Systems3	H. OFAD 223 Word Processing I 3		
F. CIS 205 COBOL II	CERTIFICATE REQUIREMENTS: INTEGRATED		
CERTIFICATE REQUIREMENTS: COMPUTER APPLICATIONS	SPREADSHEETS		
	(12 CREDIT HOURS)		
(24 CREDIT HOURS)	A. CIS 128 Microcomputer Concept8 3		
A. CIS 128 Microcomputer Concepts3	V B. CIS 220 Integrated Spreadsheet App3		
B. CIS 130 BASIC Programming 3	C. ACCT 191 Principles of Accounting I3		
C. CIS 220 Integrated Spreadsheet App3	ν D.OFAD 223 Word Processing I3		
D. CIS 224 Info. Systems Management3			
E CIS 225 Desktop Publishing 3			
F. CIS 230 Database Applications 3			
G. ACCT 131 Elementary Accounting or			
ACCT 191 Principles of Accounting I			
H. OFAD 223 Word Processing I3			

CERTIFICATE REQUIREMENTS NETWORKING AND **TELECOMMUNICATIONS**

(18 CREDIT HOURS)

A. CPSC	150	Introduction to Computers	. 3
B. CIS	130	Basic Programming	3
C. CIS	235	Networking and Telecomm	3
D. CIS	245	Computer Operating Systems	. 3
E. CIS	222	Systems Analysis and Design	3
F. CIS	700	Cooperative Education I	3

CERTIFICATE REQUIREMENTS: RPG PROGRAMMING

(15 CREDIT HOURS)

A.	CIS	128	Microcomputer Concepts	3
B.	CIS	130	BASIC Programming	3
C.	CIS	140	RPG Programming	3
D.	CIS	245	Computer Operating Systems	3
E.	CIS	222	Systems Analysis and Design	3

COMPUTER SCIENCE

A TWO-YEAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The accelerating pace of industrial and technological developments has created an ever-increasing demand for highly qualified professionals to formulate and solve the problems of today and the future. The Associate of Science degree with an emphasis in Computer science discipline. The course work for a BS in Computer Science is similar in most disciplines; however, the student is advised to consult an academic adviser when deciding upon which university he/she wishes to attend and which course of study he/she wishes to pursue.

CAREER OPPORTUNITIES

At the present time, over two-thirds of all the technical and a large percentage of the managerial positions in industry are occupied by software engineers and computer scientists. Our computer science program prepares the students for transfer to a four-year institution where they can specialize in such disciplines as Computer Science Computer Software Engineering.

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS: **COMPUTER SCIENCE**

I. General Education Core

Seepage 42for General Education Core requirements.

11.	Recommende	ed Electives Credit Hour	rs
	(14-16 credit	hours)	
	A. ENGL 291	Technical Writing*	3
	B. MATH 292	Linear Algebra	3
	C. CPSC 190	Programming Concepts I	3

E. CPSC 210 Assembly Language ___ 3 F. CPSC **292** Scientific Programming _____ 3 G. CPSC 135 C Programming 3 3

H. ENGL 200 Literature

I. PHIL 152 Logic

3

• See ENGL 291 course description

COMPUTER SCIENCE SOFTWARE DEVELOPMENT

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

65 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The development and use of computers, especially microprocessors, has created a demand for software application programs. There are career opportunities in both real time control programs and systems software development. This involves not only developing programs but correcting and updating existing software.

This degree program requires extensive hands-on programming on both microcomputers and VAX minicomput-

Students planning to transfer to a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

This program prepares entry level computer programmers for work in **an** applications environment. The student gains a background in basic programming concepts including software design and is exposed to present-day computer languages. Careers available for the graduate include:

- · computer service technician
- computer programmer
- software development programmer
- numerical control programmer
- minicomputer programmer

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Credit Hours

Associate of Applied Science Degree Requirements: Software Development

I. General Education Core

	(2	2 credi	t hou	rs)
	A.	ENGL	151	Composition/Rhetoric I 3
	B.	MATH	181	College Algebra
	C.	ECON	291	Principles of Economics - Macro 3
	D.	HUM	151	Introduction to Humanities3
	E.	PSYC	151	General Psychology 3
	F,	CPSC	150	Introduction to Computers 3
	G.	SPCM	151	Fundamentals of Speech Comm 3
	H.	HPED		Any Activity Course
11,	Tec	chnical	Prog	gram Core
	(1	0 credi	t hou	ırs)
	A.	EET	150	AC/DC Fundamentals 4
	B.	ENGL	291	Technical Writing* 3
	C.	MATH	182	Trigonometry 3
*Se	e E	MGL 291	cours	re description.
111.	M	ajor Co	ourse	s
	(24	4 credi	it hou	ırs)
	A.	CPSC	130	Large Scale Operating System3
		CPSC		0 0
	C.	CPSC	190	Programming Concepts I
		CPSC		Programming Concepts II
	E.	CPSC	210	, , ,
	F.	CPSC	221	Software Engineering 3
	G.	CPSC	223	Computer Networks 3
	H.	CPSC	230	Systems Programming 3
IV.	EI	ective		
	(9	credit	hour	•
			201	Programming in Windows 3
		CPSC	213	Data Structures with C
			232	Adv. Software Engineering
			233	Adv. Assembly Language
			236	Intro. to Artificial Intelligence
		CPSC		Scientific Programming
		CPSC		C++
		CPSC	297	Advanced Topics
	I.	CPSC	700	Cooperative Education I 3

CRIMINAL JUSTICE

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Providing comfort and direction during a rape crisis intervention, assisting persons with developmental disabilities, resolving a domestic dispute, arresting a dangerous offender or counseling a correctional client are just a few of the myriad of functions performed by criminal justice agents. Law enforcement, court and corrections personnel work with people most often when they are **m** dire need of help, when they **are** perplexed or sometimes when they are at their worst. Few careers will require the perseverance and compassion needed in criminal justice, yet few will be as personally rewarding.

The Criminal Justice Program prepares its graduates for entry-level positions in law enforcement, court services, and corrections at the local, state and federal echelons of government. Through classroom and laboratory experiences students will acquire the fundamental knowledge and skills necessary to understand the criminal justice system, its agencies, personnel and functions. Students planning to transfer to a four-year institution will have a solid foundation upon which to build as they pursue further studies in criminal justice.

CAREER OPPORTUNITIES

Challenging career opportunities await graduates at all levels of government as:

- · law enforcement officers
- · investigators
- corrections officers
- victim services counselors
- youth service and juvenile court officers

Students planning to transfer to a four-year institution should consult with the coordinator of the criminal justice program.

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: CRIMINAL JUSTICE

I. General Education Core

See page 40 for General Education Core requirements.

II.	I. Recommended Electives Credit			
	(I 4–16 cı	redit	hours)	
	A. CRJS	15 1	Crime in America	3
	B. CRJS	152	Introduction to Criminal Justice	3

53	Fundamentals of Criminal Law	3
154	The Court and Criminal Procedure	3
22	Principles of Management	3
51	General Psychology	3
253	Psychology of Personality	3
151	Introduction to Sociology	3
152	Social Problems	3
153	Human Sexuality	3
252	Social Psychology	3
253	Minority Studies	3
152	Public Speaking	3
153	Ethics	3
	54 22 51 53 51 52 53 252 253 152	53 Fundamentals of Criminal Law

DRAFTING AND COMPUTER AIDED DESIGN

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

62-63 CREDIT HOURS REQUIRED TO GRADUATE.

ABOUT OUR PROGRAM

High-tech industries **are** constantly creating new career opportunities in exciting, highly specialized fields. The degree in Drafting and Computer Aided Design provides **both an** educational foundation in computer-aided design and insight into current industry practices. Students in CCCC's intensive computer aided design (CAD) hands-on training program are taught the skills the designer, draftsman, architect, or engineer needs for successful CAD operations.

Studentsplanning to **transfer to** a four-year institution should check with an academic adviser.

Note: Students completing the two-year Industrial Arts program at Lewisville ISD, McKinney ISD, or Plano ISD may be eligible to receive articulated credit. See "CustomizedArticulationPrograms" in this catalog.

CAREER OPPORTUNITIES

Enjoy a profitable career in a modern business environment. Expanding job market possibilities related to drafting and design exist in such industries as:

- manufacturing firms
- research organizations
- aircraft industry
- governmental agencies
- computer centers
- architectural firms

ARTICULATION/TRANSFER AGREEMENT

I. General Education Core

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Credit Hours

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: DRAFTING AND COMPUTER AIDED DESIGN

(19 credit	t hou	rs)
A.ENGL	151	Composition/Rhetoric I 3
B. SPCM	151	Fundamentals of Speech Comm3
C. MATH	181	College Algebra
. D.ECON	121	Introduction to Economics3
E. PSYC	121	Applied Psychology 3
F. HUM	151	Introduction to Humanities3
G. HPED		Any Activity Course 1
II. Technica	l Pro	gram Core
(14 credit	t hou	rs)
A.PHYS	191	General Physics I 4
B. PHYS	192	General Physics II 4
C.EET	150	AC/DC Fundamentals 3
D. MATH	182	Trigonometry3
III . Major Co	urse	s
(21 credi	t hou	ırs)
A.CAD	151	Technical Graphics I3
B. CAD	152	Technical Graphics II 3
C. CAD	153	Computer Aided Drafting 3
D. CAD	224	Adv. Computer Aided Drafting3
E. CAD	231	Electronic PCB Drafting 3
F. CAD	235	Manufacturing Processes 3
G.CIS	121	Computer Graphics Systems 3
IV Electives		
(8 –9 cred	dit ho	ours)
A.CAD	220	Technical Illustration 3
B. CAD	221	Computer Aided Design 3
C. CAD	232	Descriptive Geometry3
D.CAD	236	NC Programming 3
E. CAD	237	Computer Integrated Mfg3
F. CAD	240	Printed Circuit Design3
G. CAD	243	Adv. Printed Circuit Design3
H. CAD	255	Appl. in PCB Design3
I. CAD	700	Cooperative Education I 4

J. CAD	705	Cooperative Education II4
K. CAD	710	Cooperative Education III4
L. CPSC	297	Adv. Topics — Autolisp Prog3

DRAFTING AND COMPUTER AIDED DESIGN

ELECTRONIC DESIGN OPTION

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

66 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Never before has the demand for printed circuit board designers been so great. The degree in Drafting and Computer Aided Design — Electronic Design Option provides both an educational foundation in computer aided printed circuit board (PCB) design and insight into current industry practices. Students in the intensive computer aided design (CAD) program are taught the skills the designer of PCBs needs to seek high-tech career opportunities in this rapidly growing and ever changing field.

Students planning to transfer to a four-year institution should check with an academic adviser.

Note: Students completing the two-year Industrial Artsprogram at Lewisville ISD. McKinney ISD. or Plano ISD may be eligible to receive articulated credit. See "CustomizedArtfculationPrograms" in this catalog.

CAREER OPPORTUNITIES

Enjoy a profitable career in a modern business environment. Expanding job market possibilities related to PCB design exist in the following industries:

- aerospace
- telecommunications
- digital switching
- electronics
- computer centers
- research organizations
- aircraft industry
- biomedical

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For

detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: DRAFTING AND COMPUTER AIDED **DESIGN-ELECTRONIC DESIGN OPTION**

i.	General	Educ	ationCore Credit Hours
	(16 credi	it hou	ırs)
	A. ENGL	151	Composition/Rhetoric I 3
	B .MATH	181	College Algebra
	C. SPCM	151	Fundamentals of Speech Comm3
	D.HUM	151	Introduction to Humanities3
	E. PSYC	121	Applied Psychology 3
	F. HPED		Any Activity Course1
Π.	Technica	al Pro	ogram Core
	(18 credi	it hou	ırs)
	A.EET	151	Circuit Analysis I 4
	B.EET	152	Circuit Analysis II 4
	C.ELT	210	Digital Control Applications3
	D.ELT	208	Active Devices4
	E. MATH	182	Trigonometry 3
111	Major Co	ourse	s
	(24 credi	it hou	ırs)
	A.CAD	151	Technical Graphics I 3
	B. CAD	152	Technical Graphics II 3
	C.CAD	153	Computer Aided Drafting 3
	D. CAD	224	Adv. Computer Aided Drafting 3
	E. CAD	23 I	Electronic PCB Drafting 3
	F. CAD	240	Printed Circuit Design 3
	G.CAD	243	Adv. Printed Circuit Design3
	H. CIS	121	Computer Graphics Systems 3
I۷	Electives		
	(8 credit	hour	s)
	A. CAD	220	Technical Illustration 3
	B. CAD	221	Computer Aided Design 3
	C.CAD	232	Descriptive Geometry3
	D. CAD	235	Manufacturing Processes3
	E. CAD	236	NC Programming 3
	F. CAD	237	Computer Integrated Mfg 3
	G.CAD	255	Applications in PCB Design3
	H. CAD	700	Cooperative Education I 4
	I. CAD	705	Cooperative Education II
	J. CAD	710	Cooperative Education III4
	K.CPSC	297	Adv. Topics—Autolisp Prog3

DRAFTING AND COMPUTER AIDED DESIGN

MANUFACTURING OPTION

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

70 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

An emerging new field in computer integrated manufacturing is rapidly gaining a place in the manufacturing industry. The degree in Drafting and Computer Aided Design—Manufacturing Option provides both an educational foundation in computer integrated manufacturing and an insight into current industry practices. Students in the intensive Computer Aided Design (CAD) program are taught the skills the CAD/CAM technician needs to seek high-tech career opportunities in this rapidly growing field.

Studentsplanning to transfer to a four-year institution should check with an academic adviser.

Note: Students completing the two-year Industrial Arts program at Lewisville ISD, McKinney ISD, or Plano ISD may be eligible to receive articulated credit. See "Customized Articulation Programs" in this catalog.

CAREER OPPORTUNITIES

Students receiving and Associate of Applied Science degree in Engineering Technology with an emphasis in Drafting and Computer Aided Design Manufacturing can seek careers in:

- manufacturing
- research
- aerospace
- · aircraft industries
- electronics industries

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Associate of Applied Science Degree REQUIREMENTS: DRAFTING AND COMPUTER AIDED DESIGN—MANUFACTURING OPTION

I.	Ge	neral E	Educ	ation Core Credit Hours
	(22	2 credit	hou	rs)
	A.	ENGL	151	Composition/Rhetoric I 3
	B.	SPCM	151	Fundamentals of Speech Comm 3
	C.	MATH	181	College Algebra 3
	D.	ECON	121	Introduction to Economics 3
	E.	PSYC	121	Applied Psychology 3
	F.	HUM	151	Introduction to Humanities 3
	G.	CIS	121	Computer Graphics Systems 3
	H.	HPED		Any Activity Course1
II.	Те	chnica	l Pro	gram Core
	(I :	5 credi	t hou	ırs)
	A.	PHYS	191	General Physics I.: 4
	B.	PHYS	192	General Physics II 4
	C.	EET	150	AC/DC Fundamentals 4
	D.	MATH	182	Trigonometry 3
III.	Ma	ajor Co	urse	s
	(2	1 credi	t hou	ırs)
	A.	CAD	151	Technical Graphics I 3
	B.	CAD	152	Technical Graphics II 3
	C.	CAD	153	Computer Aided Drafting 3
	D.	CAD	224	Adv. Computer Aided Drafting 3
	E.	CAD	235	Manufacturing Processes 3
	F.	CAD	236	NC Programming 3
	G.	CAD	237	Computer Integrated Mfg3
111.	El	ectives	;	
	(I	2 credi	t hou	ırs)
	A.	CAD	220	Technical Illustration 3
	B.	CAD	221	Computer Aided Design 3
	C.	CAD	231	Electronic PCB Drafting 3
	D.	CAD	232	Descriptive Geometry 3
	E.	CAD	240	Printed Circuit Design 3
	F.	CAD	243	Adv. Printed Circuit Design3
	G.	CAD	255	Appl. in PCB Design 3
	H.	CAD	700	Cooperative Education I 4
	I.	CAD	705	Cooperative Education II4
	J.	CAD	7 10	Cooperative Education III 4
	K.	CPSC	297	Adv. Topics—Autolisp Prog3

DRAFTING AND COMPUTER AIDED DESIGN

CERTIFICATE **P**ROGRAMS

(30-39 CREDIT HOURS)

CERTIFICATE REQUIREMENTS: DRAFTING AND COMPUTER AIDED DESIGN

(30 CREDIT HOURS)

	A.	CPSC	297	Adv. Topics—Autolisp Prog	3
	B.	CAD	151	Technical Graphics I	3
	C.	CAD	152	Technical Graphics II	3
	D.	CAD	153	Computer Aided Drafting	3
	E.	CAD	220	Technical Illustration	3
	F.	CAD	221	Computer Aided Design	3
	G.	CAD	224	Adv. Computer Aided Drafting	3
	H.	CAD	231	Electronic PCB Drafting	3
	I.	CAD	235	Manufacturing Processes	3
	J.	CIS	121	Computer Graphics Systems	3
Æ	RT	TECA"	REQ	UIREMENTS: ELECTRONIC DESIGN	

C

(39 CREDIT HOURS)

A. EET	151	Circuit Analysis I	4
B. EET	152	Circuit Analysis II	4
C. ELT	210	Digital Control Appl	3
D. ELT	208	Active Devices	4
E. CIS	121	Computer Graphics Systems	3
F. CAD	151	Technical Graphics I	3
G. CAD	152	Technical Graphics II	3
H. CAD	153	Computer Aided Drafting	3
I. CAD	224	Adv. Computer Aided Drafting	3
J. CAD	231	Electronic PCB Drafting	3
K. CAD	240	Printed Circuit Design	3
L. CAD	243	Adv. Printed Circuit Design	3

CERTIFICATE REQUIREMENTS MANUFACTURING DESIGN

U CR	EDIT HOU	IRS)		
A.	CPSC	297	Adv. Topics — Autolisp Prog	3
B.	CIS	121	Computer Graphics System	3
C.	CAD	151	Technical Graphics I	3
D.	CAD	152	Technical Graphics II	3
E.	CAD	153	Computer Aided Drafting	.3
F.	CAD	221	Computer Aided Design	3
G.	CAD	224	Adv. Computer Aided Drafting	3
H.	CAD	235	Manufacturing Processes	3
I.	CAD	236	NC Programming	3
J.	CAD	237	Computer Integrated Mfg	3

DRAFTING AND COMPUTER AIDED DESIGN

COMMERCIAL INTERIOR DESIGN OPTION PLUS CERTIFICATE

66-67 CREDIT HOURS

ABOUT OUR PROGRAM

Commercial interior design is an upcoming, fast-emerging new career field for young CAD designers. Computer Aided Drafting and Design is reaching into every aspect of the industrial community. The demand for commercial interior designers with a CAD background has never been as high as it is today. The interior design program at CCCC will prepare the student for a rewarding career in this field. It will also provide the student with a strong foundation in preparation for transfer to many four year institutions.

Studentsplanning to transfer to a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

Enjoy a profitable career in a modem business environment. Expanding job market possibilities related to commercial interior design exist in all sectors of the industrial community.

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE IN ENGINEERING TECHNOLOGY REQUIREMENTS DRAFTING & COMPUTER AIDED DESIGN COMMERCIAL INTERIOR **D**ESIGN

I. General Education Core **Credit Hours** (22 credit hours) A. ENGL 151 Composition/Rhetoric I B. SPCM 151 Fundamentals of Speech+......3 C. CPSC 150 Introduction to Computers3 E. PSYC 121 Applied Psychology F. HUM 151 Introduction to Humanities3 G. MATH **150** Contemporary Math Any Activity Course _____ H. HPED 1

II.	Te	chnica	l Pro	gram Core	
	(12	credit	hou	rs)	
	A.	BSAD	121	Introduction to Business**3	,
	B.	CIS	121	Introduction to Computer Graphics 3	,
	C.	CAD	151	Technical Graphics I 3	5
	D.	CAD	153	Computer Aided Drafting	5
III.	Ma	ijor Pro	ogra	m Core	
	(2	l credi	t hou	•	
	A.	ART 19	91	Design I	
	В.	ART		Drawing I	š
	C.	ART	196	Design III	3
	D.	CAD	221	Computer Aided Design	
	E.	IND	121	Applied Interior Design I	3
	F.	IND	221	Applied Interior Design II	3
	G.	IND	222	Applied Interior Design III	3
IV.	. Ele	ectives			
	(1	- 2 cr	edit	hours)	
	A.	ART	293	Watercolor I	3
	В.	ART	295	,	3
	C.	ART	296	11101115001j —	3
	D.	BSAD	221	Principles of Marketing	3
	E.	BSAD	223	Principles of Retail	3
	F.	BSAD	224	Principles of Advertising	3
	G.	CAD	220	Technical Illustration	3
	H.	CAD	224	Adv. Comp. Aided Drafting	3
	I.	CAD	700	Cooperative Work Experience	4
	J.	CAD	705	Cooperative Work Experience	4
	K.	CAD	710	Cooperative Work Experience	4
	L.	CPSC	297	Adv. Topics—Autolisp Prog	3
	M	.HLT	117	Interior Design	3
		HLT	210	1 &	3
	Ο.	HLT	202	Home Landscape Design	3
*5				e substituted for SPCM 151	
**	SBA	AT 121 .	may b	e substituted for BSAD 121	
C	ERT	IFICATE	PRO	GRAM	
In	teri	ior Des	sign T	echnology Certificate	
(3	0 CI	redit h	ours)		
	A.	ART	191	Design I	3
	В.	ART	193	8	3
	C.	ART	196	Design III	3
	D.	CAD	151	Technical Graphics I	3
	E.	CAD	153	Computer Aided Drafting	3
	F.	CAD	221	Computer Aided Design	3
	G.	CIS	121	Intro. to Computer Graphics	3
	H.	IND	121	Applied Interior Design I	3

I.	IND	221	Applied Interior Design II
J.	IND	222	Applied Interior Design III

Eating Disorders Counselor

A ONE-YEAR CERTIFICATE PROGRAM

31 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

To meet the increasing demand for certification of professionals in the area of eating disorders counselors, the Certificate for Eating Disorders Counselor has been developed to educate students in all areas of the disorders. The certificate program is appropriate for retraining of psychologists, therapists, counselors and social workers as well as serving as a foundation for students beginning their education in these fields.

The certificate provides state-of-the-art training in assessment, symptoms, treatment modalities, medical aspects, individual and group counseling and natrition. It also incorporates an experiential component in treatment facilities. The program is approved by the International Association of Eating Disorders Professionals which is the credentialing agency. CCCC is currently the only college in Texas offering the certificate.

CCCC's program has established, adopted and promoted a uniform curriculum of the highest possible education **and** training standards for eating disorders counselors. The health care professional provides eating disorders counseling services within the limitations of applicable state and local statutes and adheres to the ethical principles of the International Association of Eating Disorders Professionals.

Students planning to transfer to a four-year institution should check with the coordinator of the program.

CAREER OPPORTUNITIES

Certified eating disorder counselors can expect excellent job opportunities. Recent studies in Collin County and the nation emphasize the need for counselors certified in the specialized area of eating disorders. This certificate program is recognized across the United States **as** well as in Texas.

Counselors can obtain positions in:

- hospitals
- · private agencies
- private practice

- community agencies
- private industry

CERTIFICATE REQUIREMENTS: EATING DISORDERS COUNSELOR

4.	Generali	=auc	ation Core Credit F	iours
	(7 credit	hour	s)	
	A. ENGL	15 1	Composition/Rhetoric I	3
	B. PSYC	151	General Psychology	3
	C. HPED		Any Activity Come	1
Ħ.	Technical	Prog	gram Core	
	(6 credit	hour	rs)	
	A. PSYC	251	Life-span Psychology	3
	B. HLSC	191	Nutrition	3
111	. Major Co	urse	s	
	(I 8 credi	t hou	ırs)	
	A. EDCC	221	A Survey of Eating Disorders	3
	B. EDCC	222	Treatment Modalities of Eating Disorders	3
	C. EDCC	223	Medical Aspects of Eating Disorders	3
	D. EDCC	224	Individual Counseling	. 3
	E. EDCC	225	Group Processes	3
	F. EDCC	226	Practicum	3

ECONOMICS

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT OURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The Collin County Community College Associate of **Ats** degree with an emphasis in **economics** establishes **an** academic foundation for future studies at a four-year college or university. Students will develop an understadning of past and present economic theories and learn **to** apply this information toward solving tomorrow's economic problems.

CAREER OPPORTUNITIES

Numerous career opportunities are available to those with a background in economics. Areas of career opportunities arc listed below. Prospective students should bear in mind that many of these areas require trammg beyond the Associate of Arts degree, and some may require professional degrees.

- · banking and finance
- · college teaching
- economists
- governmental agencies
- investment specialists
- planners

Associate of Arts Degree Requirements: Economics

I. General Education Core

See page 40 for General Education Core requirement.?.

II. RecommendedElectives Credit Hours (14–16 credit hours) A. ECON 291 Principles of Economics—Macro.......3 B. ECON 292 Principles of Economics—Micro3

F. ENGL **252** Forms of Literature I _____ 3
G. PSYC **151** General Psychology ____ 3
H. MATH **152** Calculus for Business and **Econ.*****3**

I. MATH **153** Statistics _______ 3

EDUCATION

Suggested curriculum for elementary (interdisciplinary studies) and secondary education is located in the Transfer Lab.

^{*}Math 151 recommended in general education core

ELECTRONIC TECHNOLOGY

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

68-69 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Graduates of this degree program will receive training in several diversified areas of modem electronics. The student will be exposed to a combination of classroom theory and hands-on laboratory experiments that will provide entry level **skills** for the electronics industry. Maintenance. repair. basic equipment calibration and troubleshooting techniques are emphasized.

Program curriculum and laboratory experimentshave been formally evaluated and endorsed by an advisory committee consisting of members of the electronics industry.

Articulation agreements with four-year institutions allow students to complete this program to transfer credit toward a bachelor's degree.

Students planning to transfer to a four-year institution should check with an academic adviser.

CCCC is a member of the Texas Association of Schools of Engineering Technology and certified as a testing center for the Certified Electronic Technician Exam.

CAREER OPPORTUNITIES

Trained electronic stechnicians are in demand in Texas and nationwide. According to "Jobs 1995," a Texas Employment Commission publication. Texas will require approximately 2 000 electronics technicians each year through 1995.

Students completing this program will receive quality training that will provide skills that may lead to employment in specific areas such as:

- telecommunications
- computer maintenance
- · avionics
- · biomedical
- automotive electronics
- · marine electronics

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For

detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: ELECTRONIC TECHNOLOGY

1.	General E	duc	ation Core Credit Hwn	
	(I 9 credit hours)			
	A. ENGL	151	Composition/Rhetoric I 3	
	B. MATH	181	College Algebra' 3	
	C.ECON	121	Introduction to Economics3	
	D.HUM	151	Introduction to Humanities 3	
	E. PSYC	121	Applied Psychology 3	
	F. SPCM	151	Fundamentals of Speech Comm.**3	
	${\tt G.HPED}$		Any Activity Course1	
11.	Technical	Prog	gram Core:	
	(I 2 credi	t hou	ırs)	
	A.CIS	121	Computer Graphics System3	
	B. MATH	182	Trigonometry 3	
	C.CAD	231	Electronic Drafting 3	
	D. ENGL	291	Technical Writing*** 3	
	II. Major	Prog	gram Core:	
	(30 credi	t hou	ırs)	
	A.ELT	111	Basic Electronics I 4	
	B.ELT	112	Basic Electronics II 4	
	C.ELT	113	Electronic Fabrication I 4	
	D.ELT	114	Solid State Devices 4	
	E. ELT	115	Basic Digital	
	F. ELT	207	Fund of Electronic Comm4	
	G.ELT	208	Active Devices 4	
	H.ELT	209	Instrumentation and Telemetry3	
111	Electives	;		
	(minimu	m 7 -1	ß credit hours)	
	A.ELT	210	Digital Control Applications3	
	B.ELT	211	Power Supply Systems 3	
	C.ELT	212	Applied Electronic Circuits4	
	D. ELT	213	Computer Architecture 4	
	E.ELT	214	Applied Computer Programming4	
	F. ELT	215	Microcomputer Systems 3	
	G.ELT	216	Optoelectronics 4	
	H.ELT	700	Cooperative Education I 4	
	I. ELT	705	Cooperative Education II 4	
*1	Highermathe.	matic:	s andphysics courses may be used.	

^{**}SPCM 293 (Business and Professional speaking) may be substitutedfor SPCM 151.

^{***}See ENGL 291 course description.

ELECTRONIC TECHNOLOGY CERTIFICATE PROGRAM

(30 CREDIT HOURS)

A. ELT	111	Basic Electronics I	4
B. ELT	112	Basic Electronics II	4
C. ELT	113	Electronic Fabrication I	4
D. ELT	114	Solid State Devices	4
E. ELT	115	Basic Digital	3
F. ELT	207	Fund of Electronic Comm	4
G. ELT	208	Active Devices	4
H. ELT	209	Instrumentation and Telemetry	3

A certificate in Electronic Technology will be granted after completion of the majorprogram core **6** the Associate of Applied Science Degree in Electronic Technology.

ELECTRONICS ENGINEERING TECHNOLOGY

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DECREE PROGRAM

67-68 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Graduates of this degree program will receive training in several diversified areas of electronics. The emphasis of this program will be the application of mathematical theorems and applied physics toward the design and analysis of electronic circuits. Students will be exposed to a combination of classroom theory and hands-on laboratory design and analysis experiments. This training will provide students with entry level skills for employment in the electronics industry.

Program curriculum and the design/analysis laboratory experiments have been formally evaluated and endorsed by an electronics industry advisory committee.

Articulation agreements with four-year institutions allow **students** graduating **from** this program to transfer credit toward a bachelor's degree. Students planning to transfer to a four-year institution should check with **an** academic adviser.

CCCC is a member of the Texas Association of Schools of Engineering Technology and certified as a testing center for the Certified Electronic Technician exam.

CAREER OPPORTUNITIES

Trained electronics technicians are in demand in **Texas** and nationwide. According to "Jobs 1995," a Texas Employ-

ment Commission publication, Texas will require approximately 2,000 electronics technicians each year through 1995.

A severe shortage of trained electronics design/analysis technicians has led to excellent employment opportunities for students completing this program These positions are:

- engineering aides
- · research and development technicians
- applied engineering technicians

Graduates of this program will receive quality training that will provide skills that may lead to employment in specific areas such as:

- · telecommunications
- computer systems applications
- avionics and space communications
- biomedical applications and design
- printed circuit board design and manufacturing
- laser and fiber optics applications

ARTICULATION TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer program.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: ELECTRONICS ENGINEERING TECHNOLOGY

I. General Education Core **Credit Hours** (19 credit hours) A. ENGL 151 Composition/Rhetoric I B. MATH 181 College Algebra* ECON 291 Principles of Economics—Macro 3 D. HUM 151 Introduction to Humanities 3 E. PSYC 121 Applied Psychology *or* PSYC 151 General Psychology ____ F. SPCM 151 Fundamentals of Speech Comm.** ...3 G. HPED Any Activity Course 1 II. Technical Program Core (I 8 credit hours) A. PHYS 191 General Physics I* 4 B. PHYS 192 General Physics II* 4 C. MATH 182 Trigonometry* D. MATH 191 Calculus I*** E. CIS

II. Major Program Core	ELECTRONICS ENGINEERING
(24 credit hours)	
A. EET 151 Circuit Analysis I 4	TECHNOLOGY
B, EET 152 Circuit Analysis II 4	CERTIFICATE PROGRAMS
C. EET 153 Digital I.C. Analysis 4	/22 23 CREDIT HOVING
D. EET 154 Fundamentals of Computers4	(22–23 CREDIT HOURS)
E. EET 250 Circuit Analysis III 4	CERTIFICATE REQUIREMENTS: COMPUTER OPTION
F. EET 254 Telecommunications 4	(22 CREDITHOURS)
III. Electives	A. EET 154 Fund of Computers4
(3–4 credit hours)	B. EET 251 Computer Interfacing 3
A. EET 150 AC/DC Fundamentals 4	C. EET 252 computer Maintenance 4
B. EET 251 Computer Interfacing 3	D, ELT 213 Computer Architecture 4
C. EET 252 Computer Maintenance 4	E. ELT 214 Computer Programming 4
D. EET 253 Microwave Fundamentals4	F. ELT 215 Microcomputer Systems 3
E. EET 290 Selected Topics 3	This certificate may be earned only after completion of the
F. EET 291 Independent Study 3	Electronics Engineering Technology degree.
G. EET 700 Cooperative Education I 4	CERTIFICATE REQUIREMENTS: ELECTRONIC
H. EET 705 Cooperative Education II 4	COMMUNICATION OPTION
IV. Free Elective	(23 CREDIT HOURS)
(3-4 credit hours)	A. ELT 207 Fundamentals of Elec, Comm4
A. May be chosen from any come in catalog	B. ELT 211 Power Supply Systems 3
*Higherlevel physics and mathematics courses may be used.	C. ELT 212 Applied Electronic Circuits
**SPCM 293 (Business and Professional Speaking)may be	D. ELT 216 Optoelectronics4
substitutedfor SPCM 151.	E. EET 253 Microwave Fundamentals
***CCCC has a prerequisite of MATH 183 (Analytic Geometry) for MATH 191	F. EET 254 Telecommunications 4
,	This certificate may be earned only after completion of the
	ElectronicsEngineeringTechnology degree.

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EMERGENCY MEDICAL SERVICES

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

66 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Society has become **so** accustomed **to** the availability of emergency medical services that citizens are often unaware ofthe impact these services have **on our** everyday lives. In the past, emergencies, whether minor injuries **or** life threatening situations, had to be handled by family members or friends without the benefit of education in emergency medical procedures. Advanced technology and education now provide a viable and reliable emergency medical services alternative.

CCCC's degree program in Emergency Medical Services establishes an excellent foundation for work in the field of emergency medicine. After completion of the program, **a** student qualifies to test for certification as **an** EMT or **EMT/** Paramedic.

Logic, reason, curiosity, creativity and a desire to aid in the care and treatment of people in need are requirements for someone desiring to achieve certification in Emergency Medical Services.

Students planning to transfer to a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

Students certified as Emergency Medical Technicians may find employment opportunities with paramedics, fire departments, private ambulance services, or certain hospital emergency rooms. Certified technicians may find rewarding careers such as those listed below:

- paramedic
- EMT
- emergency room assistants firefighter
- private ambulance service.
- lab technician

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific bur-year universities. For

detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Associate of Applied Science Degree Requirements: Emergency Medical Services

General Education Core

I.	General Educ	
	(22 credit hou	ırs)
	A. ECON 121	Introduction to Economics 3
	B. ENGL 151	Composition/Rhetoric I 3
	C. HUM 151	Introduction to Humanities3
	D. MATH 150	Contemporary Mathematics* 3
	E. PSYC 121	Applied Psychology 3
	F. SPCM 151	Fundamentals of Speech Comm 3
	G. CPSC 150	Introduction to Computers3
	H. HPED 140	Beginning Weight Training 1 and Conditioning
II.	Major Course	s
	(4 I credit hou	ırs)
	A. EMTP 121	Introduction to Emergency Care3
	B. EMTP 141	Emergency Medical Procedures5
	C. EMTP 221	Paramedic Procedures I 8
	D. EMTP 225	Pharmacology 4
	E. EMTP 231	Paramedic Procedures II 7
	F. HLSC 132	Medical Terminology 3
	G. BIOL 291	Anatomy and Physiology I 4
	H. BIOL 292	Anatomy and Physiology II 4
	I. PLSC 261	American Government I 3
111.	Electives	
	(3 credit hou	•
	A. EMTP 211	Speical Skills Training 5
	B. EMTP 149	Emergency Medical Dispatch 3
	C. EMTP 230	Emergency Medical Services 3 Management
	D. EMTP 296	Emergency Med Tech Seminar1
	E. BIOL 293	Microbiology4
	F. SPAN 191	Beginning Spanish I 4
	G. HPED 160	Beginning Swimming1
	H. HPED 161	IntermediateSwimming 1
	I. HPED 163	Advanced Lifesaving 1
	J. HPED 164	Water Safety Instructor 1

Note: Special admission applies to this program and registration is by permission only. See coordinator/adviser for additional information.

^{*} Student placement in mathematics is based on the results of tests and subjects completed before admission.

ENGINEERING

A TWO-YEAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The accelerating pace of industrial and technological developments has created an ever-increasing demand for highly qualified professional engineers to formulate and solve the problems of today and the future. The pre-engineering degree at CCCC prepares the student for transfer to a four-year institution in almost any engineering discipline. The course work for a BS in Engineering is similar in most disciplines; however, the student is advised to consult an academic adviser when deciding upon which university he/she wishes to pursue.

CAREER OPPORTUNITIES

At the present time, over two-thirds of all the technical and a large percentage of the managerial positions in industry are occupied by engineers. Or pre-engineering program prepares the students for transfer to a four-year institution where they can specialize in such disciplines as:

- aerospace engineering
- agriculture engineering
- bioengineering
- biochemical and food engineering
- chemical engineering
- civil engineering
- computer science engineering
- electrical engineering
- forest engineering
- industrial engineering
- mechanical engineering
- nuclear engineering
- ocean engineering
- petroleum engineering
- radiological health engineering

Associate of Science Degree Requirements: Engineering

I. General Education Core

Seepage 42for General Education Core requirements.

II. RecommendedElectives	
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Credit Hours

(14-I6 credit hours)

A.	MATH 291	Calculus III		4
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R	MATH 202	Linear	Algebra	 3
D .	$WI \cap I \cap L \cup L$	Lincai	Aigcula	J

C. MATH 293 Differential Equations	3
D. CPSC 190Programming Concepts I	3
E. ENGR 151 Engineering Graphics	3
F. ENGR 191Engineering Mechanics I	3
G. ENGR 192 Engineering Mechanics II	3
H. ENGR 291 Materials and Processes	3
I. ENGR 292 Electrical Circuit Analysis	3
J. CHEM 191 General Chemistry I	4
K. CHEM 192 General Chemistry 11	4
L. ENGL 291 Technical Writing*	3

Note: CCCC has aformal articulation agreement with the University of Texas at Dallas. Check with the CCCC program coordinator or Transfer Labfor detailed information.

ENGLISH

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The courses in English train students to communicateeffectively through writing. Compositions/Rhetoric I and II enable students to build skills in thinking and writing. In Composition/Rhetoric I, students practice expository and persuasive writing. In Composition/Rhetoric II, students focus **on** argumentation, logical thinking and the research paper. Each of these courses includes a lab component that is an integral part of the course, designed to help students identify weak areas in their writing, eliminate individual problems in writing and strengthen their writing skills. The Writing Center, another part of the English program, provides professional consultation to students across the arriculum Students can get immediate help in composing, writing and revising papers, resumes, reports, etc. Some of the Composition/Rhetoric I courses are taught in the Macintosh classroom, and many instructors have their students use the PC (IBM compatible) classroom.

CAREER OPPORTUNITIES

- Positions requiring writing skills
- Positions requiring editing/proofing skills
- Positions requiring word processing skills
- Positions requiring knowledge of the research process Combined with further study, the associate degree with an emphasis in English may equip students for a variety of careers in education, law, government, and public information.

[•] See ENGL 291 course description

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: ENGLISH

1 General Education Core

See page 40 for General Education Core requirements.

II. Recommended Electives Credit Hours (14–16 credit hours)

A. ENGL 241	Creative Writing 3
B. ENGL 251	Forms of Literature I 3
C. ENGL 252	Forms of Literature II 3
D. ENGL 253	British Literature I 3
E. ENGL 254	British Literature II 3
F. ENGL 255	American Literature I 3
G. ENGL 256	American Literature II 3
H. ENGL 257	World Literature I 3
I. ENGL 258	World Literature II 3
	Foreign Language Sequence I4
	Foreign Language Sequence II4
J. ENGL 291	Technical Writing 3

FIRE SCIENCE

For complete A.A. degree requirements in Fire Science, contact the coordinator of Fire Science or the Transfer Lab.

FIRE SCIENCE

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

66 CREDIT HOURS REWIRED TO GRADUATE.

ABOUT OUR PROGRAM

The firefighter with a well-balanced educational background will be better prepared to serve and protect the community. The Collin County Community College Associate of Applied Science degree in Fire Science is designed to give a broad perspective on various facets of providing fire protection. The program is applicable for students wishing to enter the fire service and for persons already employed as firefighters or in related career fields. Students will learn technical knowledge needed to combat the fire problems created by modern living.

The Basic Firefighter Certificate is designed to prepare the student for certification as a Basic Firefighter by the Texas Commission on Fire Protection. Students enrolled in the Basic Firefighter Certification Program are involved in various hands-on exercises including rescue practices and live fire training.

CCCC's courses are scheduled to accommodate traditional firefighterwork shifts. Full-time, full-paid firefighters

employed by any political subdivision enrolled in fire science courses offered as a part of CCCC's fire science curriculumare exempt from payment of tuition and laboratory fees.

Students planning to transfer to a four-year institution should check with academic adviser.

CAREER OPPORTUNITIES

Today's fire protection responsibilities provide new and exciting challenges in both the public **and** private sectors. Students enrolled in the Fire Science program prepare for occupations involving fire suppression, investigation, prevention and education. These challenging job opportunities include:

- firefighter
- fire department officer
- municipal emergency administrator
- safety technician
- hazardous material team member
- tire equipment sales and service representative
- industrial fire protection technician

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreementshave been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: FIRE SCIENCE

л.	LCON	141	introduction to Economics	ر
B.	ENGL	151	Composition/Rhetoric I	3
C.	HPED	140	Beginning Weight Trainingand Conditioning	. 1
D.	HUM	151	Introduction to Humanities	3
E.	MATH	150	Contemporary Mathematics	.3
F.	PSYC	121	Applied Psychology	3
G.	SPCM	151	Fundamentals of Speech Corn	3
H.	CPSC	150	Introduction to Computers	3
I.	CHEM	151	Introduction to Chemistry	.4
J.	ENGL	291	Technical Writing*	3
K	PLSC	261	American Government I	3

^{*}See ENGL 291 course description.

II.	Technical Pr	ogram Core	F. FISC 140 Firefighter Certification VI1
	(18 credit ho	_	G. EMTP 121 Intro. to Emergency Care*3
	-	Fund. of Fire Protection 3	Note: Special admission criteria applies to Basic Firefighter
	B. FISC . 116	Fire Safety Education 3	certificate program option. See coordinator/adviserfor additional
	C. FISC 117	Fire Protection Systems 3	information.
	D. FISC 121	Industrial Fire Protection I3	 Higher level of EMTP may be substituted
	E. FISC 131	Building Codes and Construction3	EDENCH
	F. FISC	Fire Commission Approved	FRENCH A two-yéar Associate of Arts degree program
Ш	. Major Cours		60 CREDIT HOURS REQUIRED TO GRADUATE
	(16 credit ho	•	ABOUT OUR PROGRAM
	_	hter Courses	
		Firefighter Certification I3	An associate of <i>arts</i> degree with an emphasis in French
		Firefighter Certification II2	provides the essential language background for the ad -vanced study of French, for the mastery of the competencies
		Firefighter Certification III 2	in listening, speaking, and writing the language, and for a
		Firefighter Certification IV 2	more rapid acquisition of other foreign languages (particu-
		Firefighter Certification V 3	larly Romance languages like Spanish). The courses are
		Firefighter Certification VI 1	oral-proficiency based in order to enable the student to
		Intro. to Emergency Care3	converse in French as quickly as possible.
	OR		* * *
		ssion Approved Courses	CAREER OPPORTUNITIES
		2 Fire Prevention3	When combined with further study beyond the associate
		5 Chemistry of Hazardous Materials I . 3	degree, an emphasis in French may lead to careers in
		3 Fire Cause and Determination3	education, information science, business and government.
		Fire Administration I 3	In light of the economic opportunities presented by the
		Firefighting Tactics4	emergence of a European Community, the mastery of
		Chemistry of Hazardous Materials II 3	French and other European languages may lead to exciting
		Methods of Fire Service Inst3	career opportunities when combined with a business or
		Fire Science Computer Appl 3	marketing degree.
		Introduction to CAMEO 3	Associate of Arts Degree Requirements: French
		Fire Administration II 3	i. General Education Core
	K. FISC 290	6 Seminar 1	See page 40 for General Education Core requirements.
_		ENOE	II. Recommended Electives Credit Hours
	IRE SCI		(16 credit hours)
C	ERTIFICATE	Program	A. FREN 191 Beginning French I 4
C	EDTIEICATE REC	QUIREMENTS: BASIC FIREFIGHTER	B. FREN 192 Beginning French II 4
		SOUTH THE ASSOCIATION AND ASSOCIATION ASSO	C. FREN 291 Intermediate French I
(1	6 CREDIT HOURS)		D. FREN 292 Intermediate French II 3
		Firefighter Certification I3	E. FREN 293 Conversational French I*1
		6 Firefighter Certification II2	F. FREN 294 Conversational French 11*1
		7 Firefighter Certification III2	*Co-requisite of FREN 291
		8 Firefighter Certification IV2	**Co-requisite & FREN 292
	E. FISC 13	9 Firefighter Certification V3	

GEOGRAPHY

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The geography **program** has **been** designed to assist students expand their knowledge about the physical and cultural environments of the world. We are entering a period in human history of tremendous change marked by increasing globalization. It is extremely important to be geographically literate as our world approaches the Information Age.

CAREER OPPORTUNITIES

Students transferring into a four-year institution geography curriculum will be able to prepare for diverse careers in urban planning, petroleum exploration, cartography (mapping) and corporate planning for expansion and development. Many universities require education majors to take **a** geography course as part of their degree.

ASSOCIATE OF ARTS DEGREE REQUIREMENTS GEOGRAPHY

I. General Education Core

Seepage 40 for General Education Core requirements.

II. Recommended Electives Credit Hours (14–16 credit hours)

A. GEOG 151	Physical Geography	3
B. GEOG 152	Cultural Geography	3
C. ANTH 151	Cultural Anthropology	3
D. PSYC 151	General Psychology	3
E. HIST 251	Western Civilization I	3
F. HIST 252	Western Civilization II	3
G.	Foreign Language Sequence I	4
H.	Foreign Language Sequence II	4

HISTORY

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The history **program** at CCCC is designed for both students who are interested in completing an associate degree **ar** pursuing a bachelors degree and for those in the community who have an interest in their country's past. The American survey history course meets the state's requirement of six hours of American history. **In** addition to the survey courses,

the department **also offers** classes in Western Civilization (required by some colleges) and special courses that are designed to examine a specific topic in detail, such as: Women in History, the 1960s, the Civil War and the History of Race Relations in the united States. These courses count **as** elective hours or in some cases will transfer as part of the state's six hour requirement.

CAREER OPPORTUNITIES

Students who major in history will be attractive employee prospects because of the demands of the discipline: writing **skills**, organizational abilities, critical thinking and an ability to analyze problems in a holistic fashion. This liberal **ruts** background prepares the student not just for a career **as** an historian but for a variety of fields such as journalism, law, politics, social work, television and radio, etc.

A degree in history will naturally assist the **student** interested in being a writer or teacher but also will provide career opportunities in such adjacent fields as public history, museum curator, archivist, research associate for public and private agencies, and in developing fields like environmental historian for state agencies, contract work for legal **firms** and in the areas which will dominate the 21st century—computer/video/film documentaries.

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: HISTORY

I. General Education Core

Seepage 40 for General Education Core requirements.

II. Recommended Electives Credit Hours (14–16 credit hours)

A.	HIST	251	Western Civilization I	3
B.	HIST	252	Western Civilization II	3
C.	HIST	253	Texas History	3
D.			Foreign Language Sequence I	4
E.			Foreign Language Sequence II	4
F.	ENGL		Sophomore Literature	3
G.	ECON	291	Principles of Economics-Macro	3
H.	ECON	292	Principles of Economics-Micro	3
I.	PHIL	151	Introduction to Philosophy	3
J.	PHIL	152	Logic	3
K.	PSYC	151	General Psychology	3
L.	SOC	151	Introduction to Sociology	3

HORTICULTURE/LANDSCAPE TECHNOLOGY

A TWO-MAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The demand for developing new plants through research increases continuously. Students interested in continuing their education at a four-year university may begin by completing the core courses offered through the AS-Horticulture curriculum. Smaller class size allows students greater opportunity for individual study and prepares them for advanced courses in Horticultural Science at a university.

CAREER **O**PPORTUNITIES

- extension horticulturist
- plant research and development
- · countyagent
- · horticultural education
- department of agriculture

Associate of Science Degree Requirements: Horticulture/Landscape technology

I. General Education Core

Seepage 42 for General Education Core requirements.

II. Recommended Electives

Credit Houn

(I4-16 credit hours)

A.	BIOL	281	General Botany	4
B.	BIOL	294	Genetics	4
C.	HLT	117	Interior Plants	3
D.	HLT	125	Soils and Plant Nutrition	.3
E.	HLT	126	Plant Pests and Controls	3
F.	HLT	190	Basic Horticulture	3
G.	HLT	191	Woody Plant Materials	4
H.	HLT	192	Herbaceous Plant Materials	4
I.	HLT	265	Plant Propagation	4

HORTICULTURE/LANDSCAPE TECHNOLOGY

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

68 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Challenging careers for the 1990s and beyond may be found in the nursery and landscape industry. The degree programs

in Horticulture and Landscape Technology **are** designed to prepare the student for immediate employment in the landscape or horticulture field. Students who are currently in the field can update their knowledge and skills in the **areas** of landscape installation, maintenance and **many** horticultural specialties.

An excellent instructional staff, small class size and laboratory experiences give Horticulture and Landscape Technology students a personalized, high quality educational experience.

Students planning to transfer **to** a four-year institution should refer to the Associate of Science degree in Horticulture (above).

CAREER OPPORTUNITIES

The field of landscape and horticulture is changing at a tremendous rate. Public awareness of the value of landscapes and gardens and increasing technical sophistication is contributing to the need for trained people in this area. Some of the opportunities for employment are:

grounds supervision landscape contracting and maintenance

- landscape supplies and plant sales
- plant propagation nursery ownership and management landscape management greenhouse production tree maintenance

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: HORTICULTURE TECHNOLOGY

I.	General E	Educ	ation Core	Credit Hours	
	(27 credit	t hou	ırs)		
	A. ENGL	151	Composition/Rhetoric I	3	
	B. BIOL	191	General Biology I	4	
	C. HUM	151	Introduction to Humani	ties3	
	D. MATH	150	Contemporary Mathema	atics3	
			Introduction to Comput		

G. SPCM 151 Fundamentals of Speech Comm.3

	H.BIOL 2	294	Genetics or	4	II. Technica	l Pro	ogram Core
	BIOL 2	281	General Botany	4	(46 credit	t hou	urs)
	1. HPED Activity Elective		I	A. HLT	125	Soils and Plant Nutrition	
n.	Technical	Pro	gram Core		B.HLT	126	Plant Pests and Controls 3
	(35 credit l	hou	ırs)		C. HLT	140	Turf Science and Management 3
	A. HLT 1	17	Interior Plants	3	D.HLT	190	Basic Horticulture 3
	B.HLT 1	25	Soils and Plant Nutrition	3	E. HLT	191	Woody Plant Materials 4
	C.HLT 1	26	Plant Pests and Controls	3	F. HLT	192	Herbaceous Plant Materials4
	D.HLT 1	90	Basic Horticulture	3	G.HLT	210	Intro. to Landscape Design 3
	E. HLT 1	91	Woody Plant Materials	4	H.HLT	220	Irrigation Systems 3
	F. HLT 1	92	Herbaceous Plant Materials	4	I. HLT	225	Landscape Construction 4
	G. HLT 2	10	Intro. to Landscape Design	3	J. HLT	230	Site Analysis and Surveying4
	H.HLT 2	50	Nursery and Greenhouse Prod	4	K.HLT	235	Landscape Business Operations 4
	I. HLT 2	65	Plant Propagation	4	L. HLT	260	Landscape Maintenance I3
	J. HLT 2	90	Field Training I	3	M. HLT	293	Summer Internship 4
	K.HLT 2	96	Seminar	1	N. HLT	296	Seminar 1
111	Electives				III Electives		
	(6 credit he	our	s)		(3 credit l	hour	rs)
	A. HLT 1	15	Native Plants of Texas	3	A. HLT	115	Native Plants of Texas 3
	B. HLT 1	40	Turf Science and Management	3	B.HLT	117	Interior Plants 3
-	C.HLT 2	211	Home Landscape Design	4	C. HLT	261	Landscape Maintenance II3
	D.HLT 2	20	Irrigation Systems	3	D. HLT	270	Arboriculture 4
	E.HLT 2	75	Floriculture	3	E.HLT	280	Viticulture 3
			Viticulture	3	F. BSAD	125	Supervisory Management3
	G.HLT 2	91	Field Training II	3	G. PSYC	151	General Psychology 3
	H.SMBT 1	21	Small Business Management	3			•
	I. PSYC 1	51	General Psychology	3	LANDS	CA	PE INDUSTRY
As	SOCIATE OF	App	LIED SOENCE DEGREE		C ERTIFICATE	Pro	GRAM
RE	QUIREMENT	s: L	ANDSCAPE TECHNOLOGY		A certificate. pi	ogra	m for the landscape industry will begin
i.	General E	duc	ation Core Credit Ho	ours	in spring 1993	. pen	ding final approval. This program will
	(19credit	hοι	ırs)				ing the landscape contracting and
	A.ENGL 1	51	Composition/Rhetoric I	3			an opportunity to gain an education. even ttle or no previous academic background.
	B.BSAD 1	21	Introductionto Business or	3			should contact the coordinator of the
	ECON 1	21	Introduction to Economics	3			ape technology program at Spring Creek
	C.HUM 1	51	Introduction to Humanities	3	campus.		
	D. MATH 1	150	Contemporary Mathematics	3			
	E. CPSC 1	50	Introduction to Computers	3			
	F. SPCM 1	51	Fundamentals of Speech Comm	3			建
	G. HPED		Any Activity Come	1			

LEGAL ASSISTANT

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM OR CERTIFICATE

ABOUT OUR PROGRAM

Collin County Community College has two degree plans for legal assistant studies: Associate of **Arts** and Associate of Applied Science.

In addition CCCC has several certificate options to be implemented in fall **1992.** Students must be pre-admitted.

CAREER OPPORTUNITIES

Career opportunities in the legal field include legal assistant, legal secretary, law office manager, law clerk and attorney positions. Some of these careers require additional training and may require additional training and may require graduate or professional degrees. Prospective employers include: Private law firms, governmental agencies at county, state and federal levels, private industry such as banks, savings and loan associations, title companies and corporations, transportation industry such as airlines, railroads and rapid transit systems.

CCCC's two degrees in Legal Assistant are designed for the student who wants to develop office skills and acquire general knowledge of law.

The Associate of Arts Legal Assistant degree is recommended for those students who plan to transfer to a four-year institution for a bachelor's degree.

JOB DESCRIPTION

A legal assistant performs specialized legal duties under the supervision of a licensed attorney. While the range of duties performed by a legal assistant will be determined by the individual employer, most positions require the clerical skills of a legal secretary plus the ability to perform some of the legal skills normally performed only by attorneys. Commonly, legal assistants draft legal documents, perform some legal research, obtain information relevant to cases from various sources, interview clients and assist in trial preparation.

BASIC SKILL REQUIREMENTS

- 1. Personality traits: integrity, above-average intelligence, dependable, hard-working, self-disciplined, self-motivated, energetic.
- 2. Clerical proficiency: typing, word processing, calculator, filing, telephone etiquette, mail distribution, systems designing and implementation.

3. Interpersonal skills: active listening, oral communication, written communication, management.

LEGAL SKILLS

The following is illustrative and not meant to be all-inclusive.

- 1. Interviewing and fact-gathering.
- Locate relevant law in all major types of legal literature.
- 3. Conduct, evaluate discovery.
- **4.** Draft legal documents and **other** written work.
- **5.** Billing, accounting, banking functions.
- 6. Maintain ethical standards as required by State Bar.

Areas of study include:

- legal **terms** and concepts
- law office management skills
- .• legal ethics
- legal research and writing
- · substantive law
- · procedural law
- word processing concepts
- · legal word processing
- legal transcription

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Arts degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the program coordinator of the Legal Assistant program or the director of articulation and transfer programs.

Students pursuing either degree plan may transfer to a four-year university and should consult an academic adviser.

Associate of Arts Degree REQUIREMENTS LEGAL ASSISTANT

I. General Education Core

60 credit hours required to graduate

See page 40 for General Education Core requirements.

II. Recommended Electives Credit Hours (14–16 credit hours*)

(14-10 Clean Hours)				
A. LEGL 130	Law and Judicial Systems	.3		
B. LEGL 132	Legal Research	3		
C. LEGL 135	Law Office Management	3		
D. LEGL 230	Civil Procedure or			

E. CRJS 154 Courts and Criminal Procedures3

	F. OFAD 122 Adv. Typewriting/Lega 3	F. LEGL	261 Business Organizations 3
	G. OFAD 223 Word Processing I 3	G.LEGL	262 Tort and Insurance Law 3
	H. OFAD 224 Word Processing II/Legal3	H. LEGL	264 Business Legal Environment 3
	I. OFAD 225 Machine Transcription/Legal3	I. LEGL	700 Cooperative Education I 3
'A	dditional hours may be requiredfor transfer. See the adviser.	J. ACCT	192 Principles of Accounting II
_	_	K. BSAD	122 Principles of Management 3
L	EGAL ASSISTANT	L. BSAD	123 Business Law 3
	TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM	M. CRJS	152 Intro. to Criminal Justice
		N. CRJS	153 Fundamentals of Criminal Law 3
	SSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS:	O. CRJS	154 Courts and Criminal Procedure 3
	GAL ASSISTANT	P. PLSC	261 American Government I 3
	credit hours required to graduate	Q. PLSC	262 American Government II3
١.	General Education Core Credit Hours	R. HIST	151 U.S. History I
	(25 credit hours)		152 U.S. History II 3
	A. ENGL 151 Composition/Rhetoric I 3	T. RLST	139 Real Estate Law-Contracts3
	B. ENGL 152 Composition/Rhetoric II 3	U. RLST	237 Real Estate Law
	C. SPCM 151 Fundamentals of Speech Corn3	1	A
	D. MATH 150 Contemporary Mathematics or3	L EGAL	Assistant
	MATH 151 Pre-Calculus for Bus./Econ	CERTIFICA	ATE PROGRAMS
	E. ECON 291 Principles of Economics _Macro3	General Co	rtificate Program ^g
	F. Behavioral Science (PSYC,3 SOC, or PHIL)	ACCT 131	Elementary Accounting**
	G. HUM 151 Introduction to Humanities3	CPSC 150	Introduction to Computers or
	H. CPSC 150 Introduction to Computers	CIS 128	Micro Computer Concepts
	I. HPED Any Activity Course 1	LEGL 130	Basic Legal Studies
11.	Technical Program Core	LEGL 131	Law and Judicial Systems
	(I 2 credit hours)	LEGL 132	Legal Research and Writing
	A. OFAD 122 Advanced Typewriting/Legal3	LEGL 135	Law Office Management
	B. OFAD 223 Word Processing I 3	LEGL 230	Civil Procedure
	C. OFAD 224 Word Processing II/Legal	OFAD 122	Advanced Typewriting/Legal
	D. OFAD 225 Machine Transcription/Legal3	OFAD 223	Word Processing I
111	. Major Courses	OFAD 224	Word Processing II/Legal
	(18 credit hours)	OFAD 225	Machine Transcription/Legal
	A. LEGL 130 Basic Legal Studies 3	*To enroll in t	his certificate program the student must meet one of
	B. LEGL 131 Law and Judicial Systems3	thefollowing a	dmission requirements:
	C. LEGL 132 Legal Research 3	a. Any asso	ociate degree
	D. LEGL 135 Law Office Management3	b. Any bacl	nelor or higher-level degree
	E. LEGL 230 Civil Procedure3	c. 3 years f	full-time employment in a legal related field or
	F. ACCT 191 Principles of Accounting I	•	ull-time employment in a secretarial related
I۷	'. Electives	field.	
	(6 credit hours)	₹*Higher leve	l may be substituted.
	A. LEGL 237 Texas Legal Systems 3		orporate Litigation Certificate Program*
	B. LEGL 238 Law of Defendants 3	LEGL 261	Business Organizations 3
	C. LEGL 242 Personal Property3	LEGL 242	Personal Property, Sales and Credit
	D. LEGL 251 Family Law 3	LEGL 264	Business Legal Environment 3
	E. LEGL 252 Wills, Trusts, Probate 3		Total

	nis certificate program the student must meet on dmissions requirements:	e cf		
a A.A.S. or A.A. in Legal Assistant or				
b. Legal As	sistant General Certificate Program			
Civil Litigat LEGL 238	ion Certificate Program. Law of Defendants and Police Relationships	3		
LEGL 242	Personal Property, Sales and Credit	. 3		
LEGL 262	Tort and Insurance Law or			
LEGL 264	Business Legal Environment	3		
	Total	9		
	his certificate program the student must meet on dmissionsrequirements:	e c£		
	S. or A.A. in Legal Assistant or all Assistant General Certificate Program			
Criminal La CRJS 153 CRJS 154	Fundamentals of Criminal Law The Courts and Criminal Procedure			
LEGL 238	Law of Defendants and Police Relationships	3		
	Totalhis certificate program the student must meet on dmissions requirements:	9 ne Œ		
	S. or A.A. in Legal Assistant or al Assistant General Certificate Program			
Family and LEGL 242	Personal Law certificate Program. Personal Property, Sales and Credit	3		
LEGL 251	Family Law	3		
LEGL 252	Wills, Trusts, and Probate	3		
	Total	9		
	this certificate program the student must meet of g admissions requirements:	ne		
	S. or A.A. in Legal Assistant or al Assistant General Certificate Program			
Real Estate	Certificate Program*			
RLST 139	Real Estate Law—Contracts	3		
RLST 237	Real Estate Law	3		
LEGL 264	Business Legal Environment	3		
	Total	9		

* To enroll in this certificateprogram the student must meet one cf the following admissions requirements:

- a. A.A.S. **\arpi** A.A. in Legal Assistant **or**
- b. Legal Assistant General Certificate Program

MANAGEMENT MANAGEMENT DEVELOPMENT

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

64 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The world of management development is **an** exciting field that presents many unique opportunities. Every business, organization and group needs effective leaders to plan, organize, lead and control the many activities that accompany a successful venture. Topics include basic management foundations and theories, human resource management, human relations training, sales and promotion, and capital acquisition skills.

The **skills** acquired in this **program** will enable the student to identify and resolve many problems that are encountered daily when working with individuals, **groups** and organizations.

Studentsplanning to transfer to a four-year institution should check with **an** academic adviser.

CAREER OPPORTUNITIES

Earning an Associate of Applied Science degree in Management Development can enable the student to work in many fields:

- manufacturing retail
- service
- restaurant
- hotel/motel
- generaloffice

Management is an element **common** to all organizations. As a result, jobs will always be available in many fields, including government and public service.

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. **For** detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS MANAGEMENT DEVELOPMENT I. General Education Core **Credit Hours** (22 credit hours) A. ENGL 151 Composition/Rhetoric I B. SPCM 151 Fundamentals of Speech Comm.3 **C.** MATH **150** Contemporary Mathematics or3 MATH 151 Pre-Calculus for Bus,/Econ,3 D. ECON 121 Introduction to **Economics** or3 ECON 291 Principles of Economics—Macro3 E. PSYC 121 Applied Psychology or _____ PSYC 151 General Psychology _____ F. **HUM** 151 Introduction to Humanities3 G. CPSC 150 Introduction to Computers3 H. HPED Any Activity Course _____ II. Technical Program Core (12 credit hours) A. ACCT 191 Principles of Accounting I3 C. MRKT 228 Principles of Marketing _____ 3 3 D. BSAD 222 Personnel Management _____ III. Maior Courses (24 credit hours) 3 A. BSAD 123 Business Law B. BSAD 125 Supervisory Management3 C. BSAD 228 Organizational Behavior _____ D. BSAD 232 Strategic Management _____ G. ENGL 291 Technical Writing* H. ACCT 192 Principles of Accounting II3 * See ENGL 291 course description. **IV.** Electives (6 credit hours) 130 BASIC Programming _____ A. CIS 3 B. CIS 224 Information Systems Management3 C. CIS 230 Database Applications _____ 3 D. BSAD 226 Sales Management _____ 3 E. SBMT 222 Principles of Retailing ____ 3 F. MRKT 227 Principles of Advertising3 G. BSAD 225 International Business _____ H. BSAD 226 Sales Management

I. BSAD 231 Labor Management Relations3

J. BSAD 298 Select Topics-Personnel Mgmt3

L. BSAD **705** Cooperative Education II3

K. BSAD 700 Cooperative Education I _____

CERTIFICATE REQUIREMENTS: BUSINESS MANAGEMENT (30 CREDIT HOURS)

A. BSAD 122	Principles of Management 3
B. BSAD 123	Business Law 3
C. BSAD 125	Supervisory Management 3
D. BSAD 222	Personnel Management 3
E. ACCT 191	Principles of Accounting I3
F. BSAD 228	Organizational Behavior 3
G. BSAD 231	Labor Management Relations3
H. ACCT 192	Principles of Accounting II3
I. CIS 220	Integrated Spreadsheet App3
J. SBMT 221	Financing a Small Business

MANAGEMENT

SMALL BUSINESS MANAGEMENT

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

6 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The degree in Management with a Small Business major is designed to provide an understanding of **how** to operate a business. Topics include how to prepare a business plan, raise capital, plan cash flow requirements, create tax strategies, develop marketing programs and establish rewarding employee benefit plans.

This program offers a unique opportunity for the student to generate ideas, identify and resolve business problem and develop **an** entrepreneurial management style.

Students planning to transfer **to** a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

The Associate of Applied Science degree in Management with a Small Business major provides the essential core of management practices and prepares students for:

- entrepreneurship
- · manufacturing
- construction
- retail
- · services
- personnel

The federal government considers 97 percent of American businesses to be small businesses; one half of those employed in this **country** work in small business enterprises. Small businesses create over 80 percent of all new jobs in the United States.

ARTICULATION/TRANSFER AGREEMENT Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs. ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: SMALL BUSINESS MANAGEMENT I. General Education Core **Credit Hours** (22 credit hours) A. ENGL 151 Composition/Rhetoric I B. SPCM 151 Fundamentals of Speech Comm.3 D. ECON 291 Principles of Economics—Macro 3 E. PSYC 121 Applied Psychology or PSYC 151 General Psychology* 3 Any Activity Course _____ H. HPED II. Technical Program Core (I 2 credit hours) B. BSAD 122 Principles of Management...... 3 C. MRKT 228 Principles of Marketing _____ 3 D. BSAD 222 Personnel Management _____ 3 III. Major Courses (I 8 credit hours) 3 A. BSAD 123 Business Law C. SBMT 221 Small Business Finance _____ 3 3 **D.** MRKT 222 Principles of Selling _____ 3 E. SBMT 223 Entrepreneurship F. CIS 220 Integrated Spreadsheet App. 3 IV. Electives (9 credit hours) A. CIS 130 BASIC Programming 3 B. BSAD 226 Sales Management 3 C. PHIL 152 Logic D. SBMT 222 Principles of Retailing...... 3

F. BSAD 225 International Business _____

G. BSAD 121 Introduction to Business _____

H. ECON 292 Principles of Economics—Micro 3

I ACCT 102	Detectological Accordant				
I. ACC1 192	Principles of Accounting II3				
J. SBMT 700	Cooperative Education I 3				
K. SBMT 705	Cooperative Education II3	,			
L, RLST 134	Principles of Real Estate 3	,			
M. MRKT 226	International Marketing 3	i			
Higher level coursefor transfer					
ERTIFICATE REQUIREMENTS: SMALL BUSINESS					

(30 CREDIT HOURS)

A. ACCT 191	Principles of Accounting I	3
B. BSAD 123	Business Law	3
C. MRKT 228	Principles of Marketing	3
D. CIS 128	Microcomputer Concepts	3
E. ECON 121	Introduction to Economics	3
F. SBMT 121	Small Business Management	3
G. SBMT 221	Small Business Finance	3
H. MRKT 222	Principles of Selling	3
I. ELECTIVES	S (Select two):	
ACCT 192	Principles of Accounting II	3
CIS 220	Integrated Spreadsheet App	3
BSAD 122	Principles of Management	3
BSAD 222	Personnel Management	3
SBMT 223	Entrepreneurship	3
SBMT 700	Cooperative Education I	3
MRKT 226	International Marketing	3
SBMT 705	Cooperative Education II	3

MARKETING

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

61 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The Collin County Community College Associate of Applied Science degree in Marketing incorporates professional education courses to prepare individuals for career paths with retail **ar** wholesale organizations, profit or non-profit service organizations, governmental agencies and academic institutions.

This program is designed to give a thorough background in aspects of marketing to students who desire such and to provide **methods** for improving skills for students already in a marketing career.

Students planning to transfer to a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

The Associate of Applied Science degree in Marketing provides the essential core of marketing practices and prepares students for positions in:

- retailing
- wholesaling
- · marketing management
- sales
- consulting
- directing
- promotion
- advertising
- · industrial marketing management
- · international marketing

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Associate OF Applied Science Degree REQUIREMENTS: MARKETING

I.	General Educ	ationCore Credit Hours		
	(22 credit hours)			
	A. CPSC 150	Introduction to Computers3		
	B. ECON 291	Principles of Economics — Macro3		
	C. ENGL 151	Composition/Rhetoric I 3		
	D. HUM 151	Introduction to Humanities3		
	E. MATH 150	Contemporary Mathematics or		
	MATH 151	Pre-Calculus for Bus./Econ3		
	F. PSYC 121	Applied Psychology or		
	PSYC 151	General Psychology' 3		
	G. SPCM 151	Fund of Speech Communication or		
	SPCM 293	Business and Professional Speaking 3		
	H. HPED	Any Activity Course 1		
Ħ.	Technical Pro	ogram Core		
	(15 credit hou	urs)		
	A. ACCT 191	Principles of Accounting I3		
	B. BSAD 123	Business Law 3		
	C. MRKT 222	Principles of Selling 3		
	D. MRKT 228	Principles of Marketing 3		
	E. SBMT 121	Small Business Management3		

III. Major Courses

(I 8 credit hours)		
A. MRKT 227	Principles of Advertising	
B. MRKT 221	Market Research	
C. MRKT 223	Business Ethics	
D. MRKT 224	Promotion Techniques	
E. MRKT 226	International Marketing	
F. SBMT 222	Principles of Retailing	
IV. Electives		
(6 credit hours)		
A. ADV 190	Survey of Advertising Art	
	Survey of Advertising Art	
B. ADV 287	•	
B. ADV 287 C. JOUR 151	Visual Communications I	
B. ADV 287C. JOUR 151D. MRKT 225	Visual Communications I	
B. ADV 287C. JOUR 151D. MRKT 225E. MRKT 297	Visual Communications I	
B. ADV 287C. JOUR 151D. MRKT 225E. MRKT 297F. MRKT 700	Visual Communications I	

MARKETING

CERTIFICATE PROGRAM

CERTIFICATE REQUIREMENTS: MARKETING

(30 CREDIT HOURS)

A. BSAD 123	Business Law	3
B. MRKT 221	Market Research	3
C. MRKT 222	Principles of Selling	3
D. MRKT 223	Business Ethics	3
E. MRKT 224	Promotion Techniques	3
F. MRKT 226	International Marketing	3
G. MRKT 227	Principles of Advertising	3
H. MRKT 228	Principles of Marketing	3
I. SBMT 121	Small Business Management	3
J. SBMT 222	Principles of Retailing	3

MARKETING

FASHION MARKETING

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCEDEGREE PROGRAM

61 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The Collin County Community College Associate of Applied Science degree in Marketing with a major in Fashion Marketing incorporates **both** marketing **and** management aspects of skills needed for a fashion merchandising career. CCCC is committed to providing students with excellent educational programs that meet the demands of today's fashionjob market—and excellence in teaching that meets the needs of each student enrolled.

This program is designed to give the novice a thorough background in fashion marketing management and to provide an opportunity for those currently in the business to improve skills needed for success in the apparel industry.

Students planning to transfer to a four-year institution should check with an adviser.

CAREER OPPORTUNITIES

Positions with apparel makers fall into five general categories: production, administration, design, selling and communication. Job duties can be varied and depend upon a firm's particular job interpretation. Listed below are some of the possible career opportunities:

- · marketing director
- · costing engineer
- piece goods buyer
- order processor
- draper
- sketcher
- · designer trainee
- pattern maker
- showroom salesperson
- buyer
- · public relations
- · fashion director

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: MARKETING/FASHION MARKETING

I. General Education Core (22 credit hours)

A.	ENGL 151	CompositiodRhetoric I	3
B.	MATH 150	Contemporary Mathematics or	. 3
	MATH 151	Precalculus for Bus./Econ.*	3
C.	ECON 291	Principles of Economics — Macro	. 3

	D. HUM 151	Introduction to Humanities3
	E. PSYC 121	Applied Psychology or3
	PSYC 151	General Psychology* 3
	F. CPSC 150	Introduction to Computers 3
		Fundamentals of Speech Comm.**3
	H. HPED	Any Activity Course 1
II.	Technical Pro	ogram Core
	(I 2 credit ho	urs)
	A. ACCT 191	Principles of Accounting I3
	B. MRKT 222	Principles of Selling 3
	C. MRKT 228	Principles of Marketing 3
	D. SBMT 121	Small Business Management3
III.	Major Course	es
	(18 credit ho	urs)
	A. MRKT 122	Fashion Marketing 3
	B. MRKT 126	Fashion Design 3
	C. MRKT 220	Fashion Buying 3
	D. MRKT 221	Market Research 3
	E. MRKT 225	Fashion Show Production 3
	F. SBMT 222	Principles of Retailing 3
IV.	 Electives 	
	(9 credit hou	rs)
	A. SPCM 293	Business and Prof. Speaking 3
	B. MRKT 70 0	Cooperative Education I 3
	C. ART 298	Fibers I 3
	D. ADV 287	Visual Communications I3
	E. ACCT 192	Principles of Accounting II3
	F. BSAD 123	Business Law 3
* <i>H</i>	igher level course	e necessary for transfer.

^{**}SPCM 293 may be substituted.

MATHEMATICS

A TWO-YEAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The mathematics program offers courses which meet general mathematics requirements for associate degrees and for transfer and technical programs. More advanced courses prepare students for majors in mathematics, science and engineering. All comes include calculator or computer use, and lab components emphasize applications of mathematical concepts. Mathematics instruction at CCCC features a well-qualified instructional staff and a mathematics laboratory providing persona, computer and audio-visual tutorial assistance.

CAREER OPPORTUNITIES

Mathematics majors have many potential career opportunities. They may provide technical assistance in business, engineering science, medicine and many other fields. In addition, a knowledge of mathematics plays a crucial role in providing access to a wide range of technical information in areas that are not so obviously dependent upon mathematics.

actuary

- statistician
- teacher
- consultant
- operations researcher

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS: MATHEMATICS

I. General Education Core

See page 42 for General Education Core requirements.

II. RecommendedElectives Credit Hours (14–16 credit hours)

A. ENG	L 291	Technical Writing*	3
B. MAT	TH291	Calculus III	4
C. MAT	H 292	Linear Algebra	3
D. MAT	TH 293	Differential Equations	3
E. CPS	C 190	Programming Concepts I	3
F. ENG	L	Sophomore Literature	3
G. PHII	152	Logic	3

^{*} See EWGL 291 course description

Music

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The music department offers a two-year Associate of Arts degree, emphasizing a strong curriculum of music theory, music literature, private study and ensemble participation. Opportunities to study recording techniques and curriculum in commercial music classes such as The Business of Music, Arranging, Introduction to Synthesizer, and Improvisation are also available to students interested in a career in the recording industry.

CAREER OPPORTUNITIES

- Music education
- Performer
- · Audio engineer
- · Recording technician
- Music retailer

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: MUSIC

I. General Education Core

Seepage 40for General Education Core requirements.

It. Recommended Electives Credit Hours (14–16 credit hours)

(14-14-6)	Cuit	iloui 3)	
A. MUS	140	Music Fundamentals	3
B. MUS	145	Music In America	3
c. Ms	150	chorus	1
D. MUS	151	Music Theory I	3
E. MUS	152	Aural Skills I	1
F. MUS	153	Music Theory II	3
G. MUS	154	Aural Skills It	1
H. MUS	155	Class Voice	3
I. MUS	157	Class Guitar	3
J. MUS	160	Band	1
K. MUS	167	Intro. to Synthesizer I	2
L. MUS	168	Intro. to Synthesizer II	2
M. MUS	170	Ensemble	1
N. MUS	191	Applied Music-Major	1
O. MUS	251	Music Theory III	3
P. MUS	252	Aural Skills III	1
Q. MUS		Music Theory IV	3
R. MUS	254	Aural Skills IV	1
S. MUS	256	Beginning Piano I	1
T. MUS	291	Music Literature I	3
U. MUS	292	Music Literature II	3

NURSING

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

72 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

This two-year Associate of Applied Science degree is offered to prepare the student to test for the Registered Nurse license. The nursing curriculum is approved by the Board of Nurse Examiners for the State of Texas and accrediting by the National League for Nursing Council of Associate Degree **Programs** is in progress.

Collin County health care facilities enthusiastically support the ADN program Studies indicate that from 250-300 nursing positions will be available in Collin County within the next five years.

CCCC has developed a direct transfer agreement with bachelor (B.S.N.) and master (M.S.N.) degree programs. Students planning to transfer to a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

Registered nurses *can* expect excellentjob opportunities. Recent studies in Collin County emphasize the **need** for registered nurses in hospitals, clinics, nursing homes and doctor's offices.

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

SCHOLARSHIPS

Various scholarships are available to students when they have been accepted into the nursing program. Most scholarships are awarded based on financial need. Other types of monetary support are available through the Financial Aid Office.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: NURSING

I. Pre-Entrance Requirements (19 credit hours)

A. MATH 151	Pre-Calculus for Bus./Econ. or	3
MATH 153	Statistics or	3
MATH 181	College Algebra	3

B, BIOL 191	General Biology I*	4
C. BIOL 291	Anatomy and Physiology I	4
D. BIOL 292	Anatomy and Physiology II	4
E. BIOL 293	Microbiology	4
II. FirstSemeste		
(I 4 credit hou	ırs)	
A. NURS 147	Nursing I	8
B. PSYC 151	General Psychology	3
C. ENGL 151	CompositiodRhetoric I	3
III. Second Seme	ster	
(15 credit hou	ırs)	
A. NURS 148	Nursing II	8
B. PSYC 251	Life Span Psychology	3
C. ENGL 152	Composition/Rhetoric II	3
D. HPED	Any Activity Course	1
IV. Summer Sess	sion	
(4 credit hour	s)	
A. NURS 244	Nursing III	4
V. Fourth Semes	ster	
(12 credit hou	•	
A. NURS 259	Nursing IV	9
B. SOC 151	Intro. to Sociology or	3
SOC 152	Social Problems or	3
SOC 297	Death and Dying	3
VI. Fifth Semeste	er	
(12 credit hou	ırs)	
A. NURS 269	Nursing	9
B.	Elective	3

Notes: Special admission criteria applies to thisprogram and registration is by permission only. Applications can be obtained from the science and health division office.

Student placement in mathematics and English is based upon the results \triangle tests and subjects completed before admission.

*Biology 191 is not counted toward degree requirements.

OFFICE ADMINISTRATION GENERAL

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

62 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The degree in Office Administration-General is designed to incorporate both the technical and behavioral aspects of **jobs** in the automated office. Areas of study include:

 public relations —effective communication and the business image

- office skills—document production, business telephone techniques and electronic memory calculators
- proofreading/editing—language applications for business correspondence and documents
- computers and spreadsheet software —hands-on experience with DOS, spreadsheet and integrated programs such as LOTUS 1-2-3 and Microsoft Works
- word processing —hands-on experience using software such as WordPerfect 5.0, 5.1, Microsoft Word 5.0 for document production and desktop publishing
- records management —ARMA filing rules, design and implementation of efficient and cost-effective system

The General **Office** program was created jointly by business and education leaders **from** DSC Communications, Electronic Data Systems, Fisher Control International, InteCom Incorporated, J.C. Penney Financial Services, **Texas** Instruments and Kelly Temporary Services.

Studentsplanning to transfer to a four-year institution should check with an academic adviser.

Note: Students completing the two-year Office Occupations program at Allen ISD, Denton ISD or Plano ISD may be eligible to receive articulated credit. See "CustomizedArticulation Programs" in this catalog.

CAREER OPPORTUNITIES

"Classifieds" for those with general office training would include:

- Human Resources Clerk—primary responsibilities include greeting and screening visitors, data input and general office support.
- Receptionist/Typist—individuals for front desk positions to answer phones, type 65 wpm and handle various other duties. Dictaphone experience helpful.
- CRT Operator—enter bills of lading by CRT, answer phones, process daily shipping reports and shipping labels.
- Typist—entry-level position requiring accurate typing skills (50 wpm).
- Billing Clerk detail-oriented person to process invoices, purchase orders and inventory records. Typing and IO-key skills required.

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Associate of Applied Science Degree Requirements: office Administration/General

J.	General E	Educ	ation Core	Credit Hours
	(22 credit	t hou	ırs)	
	A. ENGL	151	Composition/Rhetoric]	1 3
	B. SPCM	151	Fundamentals of Speed	eh 3
	C. MATH	150	Contempomy Mathem	atics or3
	MATH	151	Pre-Calc for Bus./Econ	3
	D. CPSC	150	Introduction to Compu	ters3
	E. HUM	151	Introduction to Human	ities3
	F. PSYC	121	Applied Psychology	3
	G. ECON	121	Introduction to Econom	nics3
	H. HPED		Any Activity Course	1
II,	Technica	l Pro	gram Core	
	(16 credi	t hou	ırs)	
	A. OFAD	121	Intermediate Typewriti	ng*3
	B. OFAD	122	Advanced Typewriting	* 3
	C. OFAD	131	Records Management*	2
	D. OFAD	132	Proofreading/Editing*	2
			Word Processing I*	
	F. CIS	128	Microcomputer Conce	pts3
	, Major Co			
	(12 credi		-	
			Electronic Calculator*	
			Office Procedures	
			Word Processing II*	
	D. ACCT	131	Elementary Accounting	g*3
IV	. Electives			
	(12 credi		•	
			Business Corresponder	
			Word Processing Softw	
			Machine Transcription	
			Word Processing III	
	E. OFAD		Cooperative Education	
	F. OFAD		Cooperative Education	
	G. BSAD		Introduction to Busine	
	H. BSAD		Principles of Managen	
	I. BSAD		Business Law	
	J. CIS	220	Integrated Spreadshee	t Appl3

^{*}These courses also apply toward the Office Support Certificate.

OFFICE **ADMINISTRATION** MEDICAL

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

62 CREDITHOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The degree in Office Administration — Medical is designed to develop specialized skills for medical office personnel. Areas of study include:

- administrative responsibilities appointments. telephone procedures. records management
- medical terminology general and specialized medical terms and abbreviations
- medical transcription—patient records and reports
- financial responsibilities—insurance claims. accounting systems. fees and payments
- computers and spreadsheet software—hands-on experience with DOS. spreadsheet and integrated programs such as LOTUS 1-2-3 and Microsoft Works
- word processing —hands-on experience using software such as WordPerfect 5.0, 5.1, and Microsoft Word 5.0 for document production and desktop publishing

Students planning to transfer to a four-year institution should check with an academic adviser.

Note: Students completing the two-year Office Occupations program at Allen ISD. Denton ISD or Plano ISD may be eligible to receive articulated credit. See "CustomizedArticulation Programs" in this catalog.

CAREER OPPORTUNITIES

The skills and personal attributes of health care personnel are unique to the profession.

A medical secretary may work for a doctor in:

- the general practitioner's office
- a group practice
- · the dental office
- hospitals and clinics

A person with medical secretarial training and skills is valued in other avenues of health care including:

- public health departments
- convalescent and nursing homes
- health insurance companies
- manufacturers and distributors of drugs. pharmaceutical products. surgical instruments and hospital supplies
- · medical laboratories

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree. to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

Associate of Applied Science Degree REQUIREMENTS: OFFICE ADMINISTRATION MEDICAL

ı.	General E	Educ	ation Core	Credit Hours
	(22 credit	hou	rs)	
	A.ENGL	151	Composition/Rhetoric l	3
	B. SPCM	151	Fundamentals of Speed	ch 3
	C.MATH	150	Contemporary Mathem	atics or3
	MATH	151	Precalculus for Bus./E	3con,3
	D. CPSC	150	Introduction to Compu	ters3
	E. HUM	151	Introduction to Human	ities3
	F. PSYC	121	Applied Psychology	3
	$G \boldsymbol{.} ECON$	121	Introduction to Econom	nics3
	H. HPED		Any Activity Course	1
11 -	Technica	l Pro	ogram Core	
	(I 6 credi	t hou	ırs)	
	A. OFAD	121	Intermediate Typewrit	ing* 3
	B. OFAD	122	Advanced Typewriting	s*3
	C. OFAD	131	Records Management*	2
	D.OFAD	132	Proofreading/Editing	2
	E. OFAD	223	Word Processing I*	3
	F. CIS	128	Microcomputer Conce	pts 3
111	■ Major Co	urse	es	
	(I 5 credi		•	
			Word Processing 11*	
			Machine Transcription	
	C. OFAD	237	Medical Office Proced	lures*3
	D. ACCT	131	Elementary Accountin	g*3
	E. HLSC	132	Medical Terminology'	'3
IY	_Electives	•		
	(9 credit		•	
			Beginning Shorthand	
			Intermediate Shorthan	
			Electronic Calculator	
	D. OFAD		Business Corresponde	
	E. OFAD		Word Processing Soft	
	F. OFAD		Word Processing III _	
	G. OFAD		Cooperative Education	
	H. OFAD		Cooperative Education	
	I. CIS	220	Integrated Spreadshee	* *
'T	hese courses	also (apply toward the Medical	Certificate.

OFFICE ADMINISTRATION

SECRETARIAL

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

62 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The degree in Office Administration—Secretarial is designed to prepare the student for an automated office environment. This program enables the student to master office skills and experience state-of-the-arttechnology for the fast-changing business climate. Areas of study include:

- office management—handle administrative details, coordinate office procedures
- document production increase speed, accuracy and production of business documents
- computer applications word processing, desktop publishing, spreadsheet and integrated programs using software such as WordPerfect 5.0/5.1, Microsoft Word 5.0, LOTUS 1-2-3, Microsoft Works, DOS
- records management—ARMA filing rules, design and implementation of cost-effective systems that maintain efficient access to business records
- Certified Professional Secretary Preparation—prestigious credentials for the experienced secretary

Studentsplanningtotransfer to a four-year institution should check with an academic adviser.

Noie: Students completing the two-year Office Occupations program at Allen ISD, Denton ISD or Plano ISD may be eligible to receive articulated credit. See "CustomizedArticulation Programs" in this catalog.

CAREER OPPORTUNITIES

Recent surveys of Collin County businesses indicate secretarial office jobs will continue to increase through the **1990s.** Current technology has broadened the traditional roles of secretaries and enhanced their relationship with management.

Today's secretary is often considered an administrative assistant who complements the executive in making decisions, conducting research and meeting the public. Basic shorthand skills continue to give secretaries an edge both in entry-leveljobs and in opportunities for promotion.

Courses required for the A.A.S. Secretarial degree are also excellent preparation for the experienced secretary who plans to take the Certified Professional Secretary exam. The secretary who has already passed the CPS exam may apply for academic credit from CCCC to be applied toward the A.A.S. degree in Office Administration.

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs,

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: OFFICE ADMINISTRATION SECRETARIAL

I,	Ge	eneral E	Educ	ation Core Credit Hours	
	(22	2 credit	t hou	ırs)	
	A.	ENGL	151	CompositiodRhetoric I 3	
į	B.	SPCM	151	Fundamentals of Speech Comm 3	
ν	C.	MATH	150	Contemporary Mathematics or 3	,
		MATH	1 51	Pre-Calculus for Bus./Econ3	
r	D.	CPSC	150	Introduction to Computers3	
L	E.	HUM	151	Introduction to Humanities3	,
v	F.	PSYC	121	Applied Psychology 3	,
	G.	ECON	121	Introduction to Economics3	,
٤	Н,	HPED		Any Activity Come1	L
II.	Те	chnica	l Pro	gram Core	
	(1	6 credi	t hou	ırs)	
4	A.	OFAD	121	Intermediate Typewriting* 3	,
2	B.	OFAD	122	Advanced Typewriting 3	ò
L	C.	OFAD	131	Records Management* 2	,
	D.	OFAD	132	Proofreading/Editing*2)
	E.	OFAD	223	Word Processing I* 3	,
	F.	CIS	128	Microcomputer Concepts 3	
III.	M	ajor Co	urse	s	
	(1:	5 credi	t hou	ırs)	
U	A.	OFAD	135	Business Correspondence3	
r	B.	OFAD	224	Word Processing II*3	i
ري	C.	OFAD	225	Machine Transcription 3	3
	D.	OFAD	230	Office Procedures 3	,
V	E.	ACCT	131	Elementary Accounting,3	j
IV.	Ele	ectives			
	(9	credit	hour	s)	
	A.	OFAD	126	Beginning Shorthand 3	3
	B.	OFAD	127	Intermediate Shorthand 3	,
	C.	OFAD	134	Electronic Calculator* 3	,
	D.	OFAD	220	Word Processing Software* 3	3
	E.	OFAD	226	Word Processing III* 3	j
	F.	OFAD	700	Cooperative Education I 3	,
	G.	OFAD	705	•	
V	Н.	CIS	220	Integrated Spreadsheet Appl 3	,

2	I.	BSAD	121	Introduction to Business	3
	J.	BSAD	123	Business Law	3
V	K.	BSAD	122	Principles of Management	3
	L.	BSAD	125	Supervisory Management	. 3
		ecourses sing cert		upply toward the Office Support and Wor cs.	d
)ı	FICE	<u> </u>	DMINISTRATION	
			1	PROGRAMS	

(22 -26 CREDIT HOURS)

MEDICAL OFFICE

The Medical Ofice Certificate program is a one-year curriculum designed to prepare individuals for entry-level positions in a medical office or health care facility.

CERTIFICATE REQUIREMENTS: MEDICAL OFFICE

(26 CREDIT HOURS)

A. OFAD 121	Intermediate Typewriting	.3
B. OFAD 122	Advanced Typewriting	3
C. OFAD 131	Records Management	2
D. OFAD 223	Word Processing I	3
E. OFAD 224	Word Processing II/Medical	3
F. OFAD 225	Machine Transcription/Medical	3
G. OFAD 237	Medical Ofice Procedures	3
H. ACCT 131	Elementary Accounting	3
I. HLSC 132	Medical Terminology	3

OFFICE SUPPORT

The Office Support Certificate program is a one-year program designed to prepare individuals for entry-level general office support positions.

CERTIFICATE REQUIREMENTS: OFFICE SUPPORT

(22 CREDIT HOURS)

	A.	OFAD	121	Intermediate Typewriting	3
L	B.	OFAD	122	Advanced Typewriting	3
**	Ċ.	OFAD	131	Records Management	2
V	D.	OFAD	132	Proofreading/Editing	2
\bigcirc	E.	OFAD	134	Electronic Calculator	3
	F.	OFAD	223	Word Processing I	3
	G.	ACCT	131	Elementary Accounting	3
L	H.	OFAD	224	Word Processing II	3

WORD PROCESSING

The Word Processing Certificate program is a one-year program designed to prepare individuals for entry-level positions requiring extensive document preparation using microcomputer equipment and word processing software.

CERTIFICATE REQUIREMENTS: WORD PROCESSING (25 CREDIT HOURS)

F	A. OFAD	121	Intermediate Typewriting	3
~	B. OFAD	122	Advanced Typewriting	3
Ø ²	C. OFAD	131	Records Management	2
	D. OFAD	132	Proofreading/Editing	.2
	E. CIS	128	Microcomputer Concepts	3
	F. OFAD	223	Word Processing I	3
6	G. OFAD	224	Word Processing II	3
ν	H. OFAD	226	Word Processing III	3
U	L CIS	220	Integrated Spreadsheet App	3

Note: Students completing the two-year Office Occupations program at Allen ISD, Denton ISD or Plano ISD may be eligible to receive articulated credit. See "CustomizedArticulation Program" in this catalog.

PHILOSOPHY

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The philosophy program seeks to develop men and women dedicated to the pursuit of knowledge. Students become acquainted with the main problems of philosophy and acquire the habit of philosophical thinking which will enable them to integrate their work and lives.

CAREER OPPORTUNITIES

- Preparation for those who plan to major in philosophy at a four-year institution
- Preparation for related fields such as law, government, education, and the humanities

Associate of Arts Degree Requirements: PHILOSOPHY

I. General Education Core

See page 40 for General Education Core requirements.

... RecommendedElectives **Credit Hours** (14-16 credit hours)

A.	PHIL	151	Introduction to Philosophy	3
B.	PHIL	152	Logic	3
C.	PHIL	153	Ethics	3

D.	PHIL	154	Comparative Religion	3
E.	PSYC	151	General Psychology	3
F.	HDEV	105	Personal Development	2
G.			Foreign Language Sequence I	4
H.			Foreign Language Sequence II	.4

PHOTOGRAPHY

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The photography program provides an opportunity **to** acquire the **various** technical and aesthetic **skills** necessary to prepare for a career in professional photography. The program is designed to meet the needs of the fine arts photographer and the commercially directed photographer.

For commercial photography, instructional emphasis is offered in product illustration, news photography, color processing and printing, the portrait, large format photography and digital photography. For fine arts photography, courses are offered in landscape, portrayal, large format cameras and the zone system, non-silver printing and portfolio.

The student **can** complete a two-year degree **program** and receive the Associate Degree of Art with a major in photography, or complete the **45** hours of commercial photography courses to receive the Certificate in Commercial Photography.

CAREER **OPPORTUNITIES**

Jobs in photography vary and can be applied to related disciplines:

Portrait studio

Commercial illustration

Product catalog illustration

Industrial photography

Digital image manipulation

Multimedia presentation

Freelance work

Photo lab technician
 Architectural photographer
 Historical documentary photographer

Associate of Arts Degree Requirements: PHOTOGRAPHY

I. General Education Core

Seepage 40 for General Education Core requirements.

II. RecommendedElectives Credit Hours (14–16 credit hours)

(
A. PHO	180	Photography I	3
B. PHO	181	Photography 11	3
C. PHO	280	Portrayal	3
D. PHO	281	Contemp. Studies m the Visual Arts	. 3
E. PHO	290	Photo Illustration	3
F. PHO	291	News Photography	3
G. PHO	298	History of Photography	3
H. PHO	299	History of Film Making	3

PHYSICAL EDUCATION

A TWO-YEAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Students may earn an Associate of Science degree. with an emphasis in physical education. The degree program emphasizes the interrelatedness of several fields of study. Physical **skills** and knowledge are acquired through the physical education activity and theory classes. Offerings in the humanities, social sciences and biological sciences also prepare the student for a career in physical education.

CAREER OPPORTUNITIES

Physical education offers challenging, rewarding careers. Listed below **are** some of the possibilities, many of which may require training beyond the Associate of Science degree.

- · athletic director
- athletic trainer
- coach
- fitness center instructor
- · recreation coordinator
- sports administrator
- sports medicine
- teacher

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS: PHYSICAL EDUCATION

I. General Education Core

See page 42 for General Education Core requirements.

II. Recommended Electives **Credit Hours** (14-16 credit hours) A. BIOL 291 Anatomy and Physiology I 4 B. BIOL 292 Anatomy and Physiology II 4 C. HPED 101 Introduction to Physical Education ... 3 D. HPED 103 Personal Health E. PSYC 151 General Psychology _____ Any Activity Course _____ F. HPED

PHYSICS

A TWO-YEAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The science of physics seeks to understand the physical universe and deals with the behavior of matter and energy at the most fundamental level. By observation, physicists search for the basic principles that explain natural phenomena. The concepts of physics overlap many disciplines. A knowledge of physics provides a strong background for careers in science, engineering, computer technology or education.

The CCCC Associate of Science degree with an emphasis in physics prepares the student to pursue university studies leading to a bachelor's degree. The basis AS program, at the General Physics level, will prepare the student for further education in fields such as biology, medicine or secondary education. Students seeking a bachelor's degree in fields such as physics, engineering or computer science will require the College Physics level more advanced mathematics and physics.

Students planning to transfer to a four-year institution should check with the specific degree plan requirements of their intended major.

DEGREE **R**EQUIREMENTS

The Associate of Science degree with physics emphasis requires the General Education Core requirements for the A.S. degree offered by CCCC. Depending on the career plans of the student, the physics emphasis will be at either the general physics or the college physics level.

CAREER OPPORTUNITIES

Physics students may select a career in a wide range of scientific and technical fields. The student should bear in mind that most of these career areas require education or training beyond the Associate of Science degree. Career

fields available to the physics student include:

- aerospace technology
- astronomy
- biophysics
- chemistry
- computer science
- elementary or secondary education
- engineering-civil, electrical or indushial
- geophysics
- hydrogeology
- medicine
- meteorology
- patent law
- physics
- seismology

ASSOCIATE OF SCIENCE DEGREE REQUIREMENTS: PHYSICS

1. General Education Core

See page 42 for General Education Core requirements.

General Physics Level

Students should select math and physics courses from the General Education Core.

College Physics Level

Mathematics: 8 credit hours

Students seeking advanced degrees in science and engineering fields can substitute these higher level math and physics sequences for the A.S. degree.

A. MATH 191 Calculus I

B. MATH 192 Calculus II	4
Physics: 8 credit hours	
See coordinator/adviser for additional information.	
A. PHYS 291 College Physics I	4

B. PHYS 292 College Physics II _____ II. Recommended Electives **Credit Hours**

(I 4–1 6 credit hours)				
MATH	183	Analytic Geometry (General Level)	3	
MATH	187	Pre-Calculus (General Level)	3	
MATH	291	Calculus III (College Level)	4	
MATH	292	Linear Algebra (College Level)	3	
MATH	293	Differential Equations (College)	3	
CPSC	190	Programming Concepts I	3	
CHEM	191	General Chemistry I	4	
CHEM	192	General Chemistry II	4	
PSCI	153	Elementary Astronomy	4	
ENGL	291	Technical Writing*	3	

* See ENGL 291 course description.

POLITICAL SCIENCE

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The political science program features introductory courses in American and Texas politics, International Relations and Comparative Politics. The courses emphasize. contemporary political analysis, critical thinking and hands-on experiential learning exercises.

CAREER **O**PPORTUNITIES

An Associate of Arts degree in Political Science is a stepping stone to a liberal arts education whose second step is a bachelor's degree from a four-year institution. Persons **who** major in political science often aspire to attend law school, anticipate a career in education or desire the broad background inherent in a liberal *arts* education which is valued by employers in all areas.

Associate of Arts Degree Requirements: Political science

I. General Education Core

Seepage 40 for General Education Core requirements.

II. RecommendedElectives Credit Hours (14–16 credit hours)

(17-10 Credit Hours)				
A. PLSC 155	Introduction to Political Science3			
B. PLSC 263	International Relations 3			
C. PLSC 264	Comparative Politics 3			
D. CPSC 190	Programming Concepts I3			
E. CPSC 191	Programming Concepts II3			
F. CRJS 152	Introduction to Criminal Justice3			
G. ECON 291	Principles of Economics-Macro3			
H. ECON 292	Principles of Economics–Micro3			
I. ENGL	Sophomore Literature 3			
J.	Foreign Language Sequence I			
K.	Foreign Language Sequence I14			
L. PHIL 152	Logic 3			
M. PHIL 153	Ethics 3			
	General Psychology 3			
O. SPCM 152	Public Speaking 3			
	Argumentation and Debate3			

PRE-DENTAL/PRE-MEDICAL

A TWO-YEAR ASSOCIATE OF SCIENCE DEGREE PROGRAM

60 CREDITHOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

This program provides a background in science **as** required for admission to medical or dental school, or for other health-related career training **programs**. While all of the electives listed are recommended for students planning to enter the medical or dental field, the Associate of Science degree **may** be earned with emphasis on biology, chemistry **a** physics. Additional courses also are available to broaden the student's understanding of the function of the human body, and advisers with experience in medical fields can help prepare the student for future studies.

CAREER OPPORTUNITIES

In addition to preparing the student for further bachelor's degree work leading to medical or dental school, this major also provides the background for direct entry into numerous programs leading to a health care profession upon completion of the bachelor's degree. Related training that might be entered from this major include programs in:

- physician's assistance
- · health services
- administration
- health care education
- · clinical nutrition
- geriatric services
- prosthetics
- orthotics
- · medical laboratory technology
- physical therapy
- rehabilitation sciences

Associate of Science Degree Requirements: Pre-Dental/Pre-Medical

I. General Education Core

See page 42 for General Education Core requirements.

II. RecommendedElectives Credit Hours (I4-15 credit hours) A. CHEM 191 General Chemistry I 4 B. CHEM 192 General Chemistry II 4 C. CHEM 291 Organic Chemistry I 4 D. CHEM 292 Organic Chemistry II 4

E. BIOL 291 Anatomy and Physiology I4

F.	BIOL	292	Anatomy and Physiology II	4
G.	BlOL	293	Microbiology	4
H.	PHYS	291	College Physics I	4
I.	PHYS	292	College Physics II	4
J.	BIOL	264	Human Genetics	4
K.	BIOL	294	Genetics	4
L.	HLSC	132	Medical Terminology	3
M	HLSC	191	Nutrition	3
N.	CHEM	193	Biochemistry	1

PRE-LAW

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

A person who aspires to be an attorney may major in any undergraduate curricula. Therefore, there is no set pre-law program. **Students** are encouraged to complete the General Education Core courses and take electives that encourage independent thought and Critical thinking and emphasize writing **skills**.

CAREER OPPORTUNITIES

The completion of the two-year core **curriculum**is the first of four steps to a career as an attorney. Receipt of a bachelor's degree at a four-year institution, acceptance to and completion of **a** law degree and passage of the State Bar exam **are** all required before one can practice law.

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: PRE-LAW

1. General Education Core

Seepage 40for General Education Core requirements.

II. Recommended Electives Credit Hours (14–16 credit hours)

A. PSYC 151 General Psychology 3 B. SOC 151 Introduction to Sociology 3 C. SPCM 152 Public Speaking 3 D. CRJS 152 Introduction to Criminal Justice 3 E. LEGL 130 Law and Judicial Systems 3 F. LEGL 236 Legal Research and Writing 3 G. GEOG 151 Physical Geography 3 H. BSAD 121 Introduction to Business 3 I. PHIL 151 Introduction to Philosophy 3 J. PHIL 152 Logic 3 K. PHIL 153 Ethics 3

PSYCHOLOGY

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The psychology **program** features a **variety** of introductory courses exploring the nature of behavior and mental processes. Featured courses include general psychology, applied psychology and life-span psychology. These **courses** emphasize current psychological theory and research, **as** well **as** the practical application of the basic principles of psychology to the student's daily life. Many courses in the program require participation in hands-on, experiential laboratory exercises which further emphasize practical application of course material.

CAREER OPPORTUNITIES

An Associate of Arts Degree in Psychology serves as a foundation on which continued studies in psychology may be built. Since most careers in psychology require a graduate degree, many students continue on to four-year institutions and eventually enter graduate school in psychology. Students who earn degrees in psychology are often employed as counselors, psychotherapists and mental health workers. With further study, a psychology degree may also be used as a stepping-stone to a career in education, business, law ar medicine.

Associate of Arts Degree Requirements Psychology

I. General Education Core

Seepage 40 for General Education Core requirements.

II.	Recomm	ende	ed Electives	Credit Hou	ırs
	(14–16 cr				
	A. PSYC	151	General Psychology		3

(14-10 6	Cuit	IDULS)	
A. PSYC	151	General Psychology	3
B. PSYC	152	Psychology of Adjustment	3
C. PSYC	153	Human Sexuality	3
D. PSYC	251	Life-span Psychology	3
E. PSYC	252	Social Psychology	3
F. PSYC	253	Psychology of Personality	3
G. PSYC	297	Selected Topics in Psychology	3
H. SOC	151	Introductionto Sociology	3
I. SOC	152	Social Problems	3
J. SOC	251	Marriage and Family	3
K. SOC	297	Selected Topics in Sociology	3

Credit Hours

REAL ESTATE

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

63 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Real Estate is a dynamic field in which highly motivated men and women *can* and do create their own *success* stories. The degree program in Real Estate is designed with flexibility to allow students to successfully achieve a goal. whether it be personal knowledge. receipt of a degree. completion of a certificate program, transfer to a four-year institution or real estate licensure.

Students will explore a variety of topics including:

- fundamentals and principles of real estate
- · sources of financing
- state and federal influences on financing
- legal rights of owners. buyers and brokers
- · property appraisal
- contract negotiations
- closing

An excellent instructional staff and a cooperative education program with local brokers give real estate students at CCCC a personalized, practical. high quality educational experience.

Students planning to transfer to a four-year institution should check with an academic adviser.

CAREER OPPORTUNITIES

The study of real estate can be the **beginning** of an interesting and profitable career. Real estate is a vast and complex industry and career options **are** numerous. Some of the possibilities **are**:

- brokerage
- appraisal
- finance
- · property development
- counseling
- education
- insurance

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For

detailed information contact the coordinator of the A.A.S. **program** or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: REAL ESTATE

General Education Core

	(22 credi	t hou	ırs)
	A.ENGL	151	Composition/Rhetoric I 3
	$B_{\:\raisebox{1pt}{\text{\circle*{1.5}}}} ENGL$	152	Composition/Rhetoric II 3
	C. MATH	150	Contemporary Mathematics or 3
	MATH	151	Pre-Calculus for Bus./Econ3
	D. ECON	121	Introduction to Economics3
	E. PSYC	121	Applied Psychology or3
	PSYC	151	General Psychology3
	F. HUM	151	$Introduction \ to \ Humanities \ \underline{\hspace{1cm}} 3$
	G. CPSC	150	$Introduction \ to \ Computers \ 3$
	H. HPED		Any Activity Come1
11.			ogram Core
	(8 credit		•
			Computer Keyboarding 2
			Fundamentals of Speech Comm3
			Introduction to Business 3
Ш	■Major Co		
	(I 8 credi		•
			Real Estate Principles I 3
			Real Estate Principles II 3
			Real Estate Math 3
			Real Estate Sales and Mktg3
			Real Estate Law-Contracts
•		235	Real Estate Finance3
IV	Electives		
	(15 credi		-
	•		UM 6 CREDIT HOURS
			Real Estate Appraisal 3
			RE Property Management3
			Real Estate Investments 3
			Real Estate Law
			Title, Abstract. Escrow 3
	F. RLST	700	Cooperative Work Experience I 3
	G. RLST		
	H.RLST		•
	I. RLST		Real Estate Brokerage3
	A. ACCT		
	B.CIS	220	
			Principles of Management
	CIDOAD	144	1 111101p105 01 111anagement

D.	BSAD	123	Business Law 3	
E.	BSAD	222	Personnel Management 3	į
			Small Business Management 3	š
			Small Business Operations3	
			Sales Management	
I.			Selected Topics	3
J.			arse Work as Approved by	
٥.	Coordi		iso work as ripproved by illimining	_
		_		
RE	AL L	Es7	TATE	
			PROGRAM	
			ROGRAM	
0 CR	EDIT HOL	IRS)		
ERTI	FICATE	Requ	JIREMENTS: REAL ESTATE	
A.	RLST	133	Real Estate Principles I 3	3
				3
				3
				3
				3
Ε.			Real Estate Sales and Marketing	3
F.			Real Estate Law /Contracts	
G.	RLST	235	Real Estate Finance	3
H.	RLST	237	Real Estate Law	3
I.	ELEC'	TIVE	S: Select two:	
	RLST	234	Real Estate Investments	3
	RLST	236	Real Estate Property Mgmt	3
	RLST			
	RLST	700	Cooperative Work Experience	3

RLST 241 Real Estate Commercial

Other course work as approved.

RLST 242 Real Estate Financial Analysis3

RLST 251 Real Estate Brokerage _____

RESPIRATORY CARE

A TWO-YEAR ASSOCIATE OF APPLIED SCIENCE DEGREE PROGRAM

72 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

Respiratory care offers two programs which prepare individuals for an allied health specialty in clinical care and management of respiratory disorders. The 12-month program leads to a certificate of proficiency and qualifies the graduate to apply for the Certified Respiratory Therapy Technician board examination. The 22.5 month program graduates a student with an Associate in Applied Science degree and qualifies the individual to apply for the Registered Respiratory Therapist board examination.

The curriculum for the certificate program is included in the registry curriculum which is expanded with academic comes.

CAREER OPPORTUNITIES

Career opportunities in the health care industry for certified respiratory therapy technicians and registered respiratory therapists are increasing rapidly. Recent surveys indicate that the supply of trained respiratory care professionals has not been sufficient to meet the progressive growth in demand.

Employment opportunities include:

- Certified Respiratory Therapy Technician (CRTT)
- Registered Respiratory Therapist (RRT)

ARTICULATION/TRANSFER AGREEMENT

Formal articulation and/or transfer agreements have been established allowing graduates with an Associate of Applied Science degree to continue their education in bachelor's degree programs at specific four-year universities. For detailed information contact the coordinator of the A.A.S. program or the director of articulation and transfer programs.

ASSOCIATE OF APPLIED SCIENCE DEGREE REQUIREMENTS: RESPIRATORY CARE TECHNOLOGY (CARDIOPULMONARY)

CERTIFICATION ELIGIBILITY OPTION

I. Semester One

3

3

(I 6 credit hours)

A. RTTP	112	Cardiopulmonary Anatomy 2
		and Physiology
B. RTTP	113	Respiratory Chemistry/Physics*3
C. RTTP	114	Respiratory Clinical Practicum I4
D. RTTP	115	Fundamentals of Resp. Care I4

E. CPSC 150	Introduction to Computer Science3					
II. Semester Tw	0					
(I 5 credit hou	(I 5 credit hours)					
A. R'ITP 120	Respiratory Pathophysiology3					
B. RTTP 122	Respiratory Pharmacology2					
C. RTTP 123	Respiratory Clinical Practicum II2					
D. RTTP 124	Fundamentals of Resp. Care II4					
E. BIOL 291	Anatomy and Physiology I** 4					
111. Semester Thi	ree					
(5 credit hour	rs)					
A. R'ITP 125	Respiratory Clinical Practicum 1113					
B. RTTP 127	Critical Care2					
IV. Semester For	ur					
(5 credit hour	rs)					
A. RTTP 121	Neonatal and Pediatric Resp. Care2					
	Respiratory Clinical Practicum IV3					
FIRST YEAR TOTAL = 4						
_	quisite: MATH 151, 181 or permission from					
the program director.						
** Prerequisite BIO						
REGISTRY ELIGIBLE CR	TT-RRT Transition Curriculum					
V. Semester Five	•					
(16 credit hou	,					
	Clinical Practicum V2					
	Advanced Respiratory Care I4					
	Cardiopulmonary Dynamics3					
D. BIOL 292	Anatomy and Physiology II					
E. Elective	Social or Behavioral Sciences3					
VI. Semester Six						
(15 – 1 6 credit	•					
A. RTTP 220	Resp. Care Clinical Specialties3					
B. RTTP 221	1 2					
	Clinical Practice VI2					
D. BIOL 293	Microbiology4					
E. HPED	Any Activity Course (optional)1					
F. ENGL 151	Composition/Rhetoric I 3					
SECOND YEAR TOTAL	-					

Students must pass each respiratory care course with a minimum of a **2.5** on a **4.0** scale and each sciencerelated course with a **2.0** in order to apply for a certificate of completion for either the certification preparation option or the registry preparation option.

Note: Special admission criteria applies to thisprogram and registration is by permission only. See coordinator/adviserfor additional information.

Sociology

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The sociology **program** has been designed to provide students with essential life skills to help them better understand themselves and the world around them. Sociology courses at CCCC will enable all students to comprehend the tremendous social change brought about by the transition of our world into the Information Age. Sociology helps us to better understand how human behavior is influenced by social forces which exist in the world. Students will develop critical thinking skills and a global perspective which will benefit them regardless of their major in college. Sociology majors or minors will gain a solid foundation in the discipline which will prepare them for transferring into a university program.

CAREER OPPORTUNITIES

The majority of students who select sociology as their focus at the community college level transfer into a four-year program. There are career opportunities available in entry level positions with social service agencies upon completion of an associate's degree. Sociology is an excellent minor for students considering careers in business, law, medicine or psychology. The knowledge gained from sociology courses will enhance a student's chances of being successful in accomplishing their career and life goals.

Sociology majors typically seek careers in teaching social services or research and planning in governmental or corporate settings.

Associate of Arts Degree Requirements:

L General Education Core

Seepage 40 for General Education Core requirements,

II.	Recomm	ende	ed Electives Credit Hour	'S
	(I 4-16 c	redit	hours)	
	A. SOC	151	Introduction to Sociology	3
	B. SOC	152	Social Problems	3
	C. SOC	153	Human Sexuality	3
	D. SOC	251	Marriage and Family	3
	E. SOC	252	Social Psychology	3
	F. SOC	253	Minority Studies	3
	G. SOC	297	SelectedTopics in Sociology	3
	H. PSYC	151	General Psychology	3

I.	PSYC	251	Life Span Psychology	3
J.	PSYC	253	Psychology of Personality	}
K.	PSYC	297	SelectedTopics in Psychology	3

SPANISH

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

An associates of acts degree with an emphasis in Spanish provides the essential language background for the advanced study of Spanish, for the mastery of the competencies in listening, speaking, and writing the language, and for a more rapid acquisition of other foreign languages (particularly Romance languages like French.) The courses are oral-proficiency based in order to enable the student to converse in Spanish as quickly as possible.

CAREER OPPORTUNITIES

Because of the growing number of Hispanics in this area and the blossoming United States/Mexico trade, the demand for Spanish both in the community and the business environment is growing rapidly. The impact of new international trade agreements means more need for Spanish-speaking individuals. Combining Spanish with another field can enlarge opportunities in the areas of nursing, teaching, computer science, sociology, banking, counseling, legal and para-legal areas to name just a few.

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: SPANISH

I. General Education Core

Seepage 40 for General Education Core requirements.

II. RecommendedElectives

Credit Hours

(I 4-1 6 credit hours)				
A. SPAN 191	Beginning Spanish I	4		
B. SPAN 192	Beginning Spanish II	4		
C. SPAN 291	Intermediate Spanish I	3		
D SPAN 292	Intermediate. Spanish II	3		
E. SPAN 293	Conversational Spanish I	. 1		
F. SPAN 294	Conversational Spanish II	. 1		

SPEECH COMMUNICATION

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDIT HOURS REQUIRED TO GRADUATE.

ABOUT OUR PROGRAM

Excellent communication skills are essential in today's society. In school, the workplace, and at home, success depends greatly on our ability to communicate effectively. The Associates of Arts degree in Speech Communication gives students a broad background in communication competencies. Students who enroll in Speech Communication courses will become aware of the impact of communication on their personal and professional lives. They will also improve interpersonal communication skills and strengthen presentational abilities.

Both the traditional rhetorical approach (oral presentation) and the behavioristic approach (communication theory and **skill**) are reflected in Speech Communication course offerings. Media-oriented courses are also offered in the Speech Communication **program.**

In addition, the CCCC Speech Communication program includes a forensics workshop, which includes participation in speech competitions (scholarships are available for qualified students—contact the Speech Communication department for eligibility requirements).

CAREER OPPORTUNITIES

An Associate of Arts degree in Speech Communication will aid individuals seeking employment in all occupations, especially those that involve a high degree of interaction with the public. Occupations involving marketing research, conference and special events planning, product/service demonstrations, and sales are but a few of the career opportunities well-suited to Speech Communications majors.

The Associate of Arts degree in Speech Communication provides the academic foundation to successfully complete a bachelor's degree at a four-year institution, and then to pursue a career in fields such as mass media, public relations, law, government, personnel, employee relations and education.

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: SPEECH COMMUNICATION

I.	General Educ See page 40for	cation Core General Education Core requirements.
II.	Recommend	edElectives Credit Hours
	(14-16 credit	hours)
	A. SPCM 152	Public Speaking 3
		Advanced Public Speaking3
	C. SPCM 155	TV Production 3
	D. SPCM 192	Forensic Workshop 2
	E. SPCM 291	Oral Interpretation:3
	F. SPCM 292	Language and Communication3
	G. SPCM 293	Business and Professional Speaking 3
	H. SPCM 294	Interpersonal Communication3
	I. SPCM 295	Radio and TV Announcing3

J. SPCM 296 Radio and TV News

THEATRE

A TWO-YEAR ASSOCIATE OF ARTS DEGREE PROGRAM

60 CREDITHOURS REQUIRED TO GRADUATE

ABOUT OUR PROGRAM

The theatre program at CCCC strives to introduce students to the aesthetic and analytical elements of theatrical productions. We offer studies in the principles and practices of acting, stagecraft, basic costuming preparation, technical theater production and stage management.

Our labs permit students "hands-on" experiences through performances, as well as shop and crew duties. Our studies include contemporary theories and classical aspects of theatrical studios.

CAREER OPPORTUNITIES

- theater education
- performer
- · technical assistant
- · lighting technician
- costumer
- producer/director

ASSOCIATE OF ARTS DEGREE REQUIREMENTS: THEATRE

I. General Education Core

Seepage 40 for General Education Core requirements.

I.	Recommend	dedElectives Credit Ho	ours
	(14-16 credit hours)		
	A. THEA 15	Introduction to the Theatre	3
	B. THEA 18 5	Stagecraft	3
	C. THEA 18 0	Introduction to Costuming	3
	D. THEA 19 0	Practicum—Performance	2
	E. THEA 19 1	Practicum—Technical	2
	F. THEA 192	Voice and Diction	3
	G. THEA 193	Acting I	3
	H. THEA 194	Acting []	3
	I. SPCM 152	Public Speaking	3
	J. SPCM 29	Oral Interpretation	3
	K. SPCM 295	Radio and TV Announcing	3

Course Descriptions

Common Course Numbers are in parenthesis after course names. For more information on Common Course Numbering s a page 127.

ACCOUNTING

ACCT 131 ELEMENTARY ACCOUNTING

Designed for those persons who n a d to be familiar with the basic principles of accounting in order to manage the financial records of a business. It covers the recording and reporting of business transactions including the accounting cycle, financial statements and payroll. Lab required. 3 credit hours

ACCT 191 Principles OF ACCOUNTING (ACCT 2301)

Concepts and applications of measuring and analyzing financial information for business entities. Topics include the accounting cycle, current assets, long-term assets and the preparation of financial statements. Lab required 3 credit hours.

ACCT 192 Principles & Accounting 11 (ACCT 2302)

Concepts and applications of measuring and interpreting fmancial information for partnerships and corporations. Topics include cost data, budgeting and financial report analysis for use by management and third parties. Pmequisite: ACCT 191, Lab required. 3 credit hours.

ACCT 193 MANAGERIAL ACCOUNTING

Preparation and interpretation of accounting data used in management planning, decision-making and administrative control. Topics include product costing, budgeting, accounting controls and analytical techniques. Prerequisite: ACCT 192. Lab required. 3 credit hours.

ACCT 194 INTERMEDIATE ACCOUNTING I

Continued study of financial accounting topics in greater depth than m principles of accounting. Includes financial accounting functions and basic theory, current assets and current liabilities, plant assets and long-term liabilities. Prerequisite: ACCT 192. Lab required. 3 credit hours.

ACCT 195 INTERMEDIATE ACCOUNTING !

Continuation of Intermediate Accounting I. Topics include stockholder's equity, dilutive securities and investments, issues related to income measurement and preparation and analysis of financial statements. Prerequisite: ACCT 194, Lab required, 3 credit hours.

ACCT 196 AUDITING

Introduction to auditing theory and practice. Topics include introduction to professionalism, the general technology of auditing, audit program applications and reporting responsibilities. Prerequisite: ACCT 195. Lab required. 3 credit hours.

ACCT 291 INDIVIDUAL INCOME TAXATION

History and the structure of federal income tax legislation and law as it pertains to individuals. Emphasis on current tax laws, preparation of tax returns and/or specific tax problems. Prerequisite: ACCT 191. Lab required. 3 credit hours.

ACCT 292 CORPORATE INCOME TAXATION

History and structure of federal income tax legislation as it pertains to partnerships and corporations. Emphasis on current tax laws, tax return preparation and/or specific tax problems. Prerequisite: ACCT 194, 195 and 291. Lab required. 3 credit hours.

ACCT 295 ACCOUNTINGETHICS

Examination of problems and ethical dilemmas faced by those practicing accounting Designed to develop the qualities required of a professional accountant, regardless of the organization in which the accountant will be active. Prerequisite: Consent of instructor. 3 credit hours.

ACCT 700 COOPERATIVE EDUCATION I

A comprehensive treatment of career related activities encountered in the student's area of specialization. Under supervision of the college and the employer, the student combines classroom learning with work experience. Prerequisite: Consent of instructor. 3 credit hours.

ADVERTISING ART (APPLIED COMMUNICATION DESIGN)

ADV 130 Introduction to STAT CAMERA OPERATION

Introduction to principles, procedures and practices of large format camera operation. Exposure and experience on Agfa and DuPont cameras. Line art, halftones and architectural applications. Lab required. 1 credit hour.

ADV 140 Introduction to Computer GRAPHICS

Introduction to the computer as an act tool. Exposure to the various fields of advertising computer graphics including electronic imaging, electronic publishing, computer illustration, interactive multimedia and photo manipulation. Introduction to basic computer functions, draw, paint and text tools, terminology, technology, keyboard Familiarization, mouse use, software function and access. Lab required. 3 credit hours.

ADV 141 CREATIVE PROBLEM SOLVING

Introduction to creative problem solving techniques. Emphasis on concept development, copy writing and innovative and creative thinking. 3 credit hours

ADV 142 Introduction to Electronic Maging

Introduction to electronic imaging and color separation using the computer as the primary tool. Photo retouch and manipulation, scanned art imaging and computer generated art image processing. Companion course for Digital Photography. Photo and fine arts majors welcome. Prerequisite: ADV 140. Lab required. 3 credit hours.

ADV 143 COMPUTER TYPOGRAPHY

Introduction to typography using the computer as the main tool. Exploration and definition of type, type design, beginning type manipulation and rendering. Prerequisite: ADV 140. Lab required. 3 credit hours.

ADY 144 Introduction to Interactive Multimedia Authoring

Introduction to multimedia, principles, theories, systems and applications. Exposure and experience in all major authoring software, lectures by leading multimedia developers and work on continuing multimedia projects. Prerequisite: ADV 140. Lab required. 3 credit hours.

ADV 190 SURVEY OF ADVERTISING ART

Introduction to advertising art including investigation into the various career opportunities and into the workings of an agency or in-house studio. Understanding of the relationship of art and visual communication and the psychology of effective advertising will be covered. 3 credit hours.

ADV 208 SKETCHING FOR ILLUSTRATION

Contemporary, period and character drawing from live models with props. Emphasis on drawing and analysis of people and objects for accuracy, perspective, composition, analysis of light, shadow and value. Photo reference. Lab required. 3 credit hours.

ADV 223 Introduction to ART DIRECTIONS VIDEO

Develops student's ability to design commercials. Students are taken step by step through all phases of production and pre-production. Each student designs and produces a 15 to 30 second commercial. Computer graphics included where necessary. Prerequisite: ADV 143. Lab required. 3 credit hours.

ADV 23 I ADVERTISING COMPUTER GRAPHICS

An exploration of computer graphics with applications in design, illustration and other areas of advertising art. Cumnt trends in computer graphics will be explored. Creative solutions will be stressed, Prerequisite: ADV 140 and ADV 288. Lab required. 3 credit hours.

ADV 232 IMAGE PROCESSING

Continuation of Introduction to Electronic Imaging, ADV 142. Use of Macintosh hardware, latest photo-imaging software, video capture and scanning to create electronic images. Output to high-end color printers, film printer and video. Prerequisite: ADV 142. Lab required. 3 credit hours.

ADV 233 ELECTRONIC PUBLISHING FOR GRAPHIC DESIGN

Explores the use of electronic publishing software on Macintosh hardware as a tool in graphic design. Students will also scan and print. Prerequisites: ADV 231,287. Lab required. 3 credit hours.

ADV 236 2D COMPUTER ANIMATION

Various aspects of *two* dimensional animation on Macintosh with latest software. Students will develop concepts, *storyboards* and produce a two dimensional animation with music and soundtrack. Prerequisite: ADV **231.** Lab required. **3** credit hours.

ADV 2373D COMPUTER ANIMATION

Introduction to three dimensional animation using highend Macintosh hardware and latest software. Students will begin to produce a three dimensional animated film concept. storyboard and production. Music and soundtrack will be included. Lab required. 3 credit hours.

ADV 238 INTERACTIVE MULTIMEDIA AUTHORING

Further exploration of multimedia principles with practical application through work on continuing projects. Emphasis on interface design, instructional design issues, storyboard and concept. Macintosh hardware, latest authoring software. Prerequisite: ADV 143 and 144. Lab required. 3 credit hours.

ADV 287 VISUAL COMMUNICATIONS I

An introduction to the field of advertising art including basic terminology, tools and media, typography, paste-up techniques, layout and design concepts, reproduction process and problem solving. Prerequisite: ART 191. Lab required. 3 credit hours.

ADV 288 VISUAL COMMUNICATIONS II

An introduction to illustration for reproduction including techniques for **wet** and *dxy* media with emphasis on problem solving. Prerequisite: **ART 193.** Lab required. 3 credit hours.

ADV 289 COMPUTER ILLUSTRATION

Illustration using the computer as the main tool. The primary focus is on 3D software. Concentrated exploration of computer rendering, tools, scanning and printing. Fine arts and photo majors welcome. Prerequisites: ADV 142, ADV 231 and ADV 288. Lab required. 3 credit hours.

ADV 290 GRAPHIC DESIGNAND PRODUCTION

Investigation of various graphic design problems with consideration of technical requirements and presentation techniques for camera-readyart. Current trends will be explored. Creative solutions will be stressed. Prerequisite: ADV 287. Lab required. 3 credit hours.

ADV 292 ILLUSTRATION

Problems in advertising illustration with consideration of technical requirements and presentation techniques for camera-ready art. Current trends will be explored. Creative solutions will be stressed. Prerequisite: ADV 288. Lab required. 3 credit hours.

ADV 294 PROFESSIONAL PRACTICES

Overview of professional practices required both in the work place and as a free-lance artist. Networking, professional organizations, presentation skills and job-seeking techniques will be covered. Prerequisite: ADV 287 or ADV 288. Lab required, 3 credit hours.

ADV 295 AD AGENCY

Advanced students from the **rress** of production art, illustration and computer graphics will **work** in teams to produce advertising and illustration solutions for clients both on- and off-campus.. Prerequisite: Consent of instructor. Lab required. 3 credit hours.

ADV 296 ADVANCED COMPUTER LLUSTRATION

More advanced work in computer illustration, including color. Prerequisites: ADV 289 and ADV 292. Lab required. 3 m dit hours.

ADV 700 COOPERATIVE EDUCATION

A comprehensive treatment of career related activities encountered in the student's area of specialization Under supervision of the college and the employer, the student combines classrnom learning with work experience. Prerequisite: Consent of instructor. 3 credit hours.

ANTHROPOLOGY

ANTH 151 CULTURAL ANTHROPOLOGY (ANTH 2351)

Utilizes the comparative method to examine the concepts of culture and society. The social and cultural beliefs and practices of people of diverse ethnic backgrounds are investigated and compared. Lab required. 3 credit hours.

ART

ART 190 Art Appreciation (ARTS 1301)

Introduction to the visual arts, emphasizing the understanding and appreciation of art. 3 credit hours.

ART 191 DESIGN I (ARTS 1311)

Introduction to two-dimensional visual **organizationdealing** with basic elements and principles of design. Exploration of black and white, color **and** avariety of media. The experience in this class will prepare the student for composition in painting, drawing and other two-dimensional courses. **Lab** required. 3 m d it hours.

ART 192 DESIGN II (ARTS 1312)

A study of three-dimensional design problems. Prerequisite: ART 191. Lab required. 3 credit hours.

ART 193 DRAWING I (ARTS 1316)

An introduction to drawing including space, form, line, contour, gesture, texture, value and composition. The student will learn observational skills in order to render the subjects of still life, figure, perspective and landscape more accurately. Emphasis will be placed on technique. imagination and use of a variety of materials. Lab required. 3 credit hours.

ART 194 Drawing II (ARTS 1317)

Continued study of space, form, line, contour, gesture, texture, value and composition in still life, figure, perspective and landscape. Use of color will be introduced in various media Emphasis will be placed on imagination, technique, development of a personal drawing style and composition. Prerequisite: ART 193. Labrequired. 3 credit hours.

ART 195 CREATIVE SOLUTIONS IN MIXED MEDIA (ARTS 1370)

An introduction to contemporary **solutions** in mixed media painting. Prerequisite: ART **291**. Lab required. 3 credit hours.

ART 196 Design III Color theory (ARTS 231 I)

Practical application of current color theories used in both fine arts and commercial art. Emphasis is on color perception and color psychology with exercises in transparent and opaque pigments, printing inks and color photography. Prerequisite: ART 191, 193. Lab required. 3 credit hours.

ART 249 Art FOR ELEMENTARY EDUCATORS (ARTS 1325)

Art for elementary educators. Includes project, in drawing, painting, printing, crafts and sculpture. Lab required. 3 credit hours.

ART 28 | Sculpture I (ARTS 2326)

A study of three-dimensional form. including basic **methods** of **modeling**, construction and simple casting procedures. **Prerequisite**: **ART 192.** Lab required. 3 credit hours.

ART 282 Sculpture II (ARTS 2327)

Application of the principles of three-dimensional form with an emphasis m creative expression, Prerequisite: ART 281. Lab required. 3 credit hours.

ART 283 CERAMICS I (ARTS 2346)

Introduction to ceramic design, including hand building, potter's wheel and glazing and fixing techniques. Lab required. 3 credit hours.

ART 284 CERAMICS II (ARTS 2347)

Continuation of Ceramics I with further study in clay and glaze composition and kiln operation with **an** emphasis on creative expression Prerequisite: ART **283**. Lab required **3** credit hours.

ART 285 Printmaking I (ARTS 2333)

Introduction to the process of intaglio and relief printing. Prerequisite: ART 193. Lab required. 3 credit hours.

ART 286 Printmaking II (ARTS 2334)

Continuation of Printmaking I with an emphasis on creative expression. Prerequisite: ART 285. Lab required. 3 credit hours.

ART291 Painting I (ARTS 2316)

Introduction to painting including **use** of materials, techniques, color study and composition. **Vaccious** painting styles will **be** practiced. Prerequisite: ART 193. Lab required 3 credit hours.

ART 292 PAINTING II (ARTS 2317)

Acrylics, oil and other media. Intermediate level course designed to increase the student's ability to use various techniques, color and composition. Realistic and abstract approaches to painting will be explored. Emphasis will be placed on design, imagination, personal expression and painting style. Prerequisite: ART 291. Lab required 3 credit hours.

ART 293 WATERCOLOR I (ARTS 2366)

Introduction to watercolor including instruction in the use of brushes, papers, materials and various painting techniques on wet and dry paper. The student will gain experience in mixing colors, color methods, problem solving in the use of technique and in skillful observation of composition and painting style. herequisite: ART 193. Lab required. 3 credit hours.

ART 294 WATERCOLOR II (ARTS 2367)

Intermediate-level course designed to increase the student's ability to master technique, to identify the different pigment properties of color and to determine their best use. Exploration of different tools, papers, materials and techniques will be practiced. Emphasis is on composition, imagination, personal expression and painting style. Prerequisite: ART 293. Lab required. 3 credit hours.

ART 295 ART HISTORY I (ARTS 1303)

Survey of art history from prehistoric times to the Renaissance. Special consideration is given to the form and content of a work of art, as well as the social and cultural context in which the work is created, 3 credit hours.

ART 296 ART HISTORY II (ARTS 1304)

Survey of art history from the Baroque period to the present. Special consideration is given to the form and content of a work of art, as well as the social and cultural context in which the work is created 3 credit hours.

ART 297 LIFE Drawing (ARTS 2323)

Drawing from the life model including instruction in anatomical and **creative** approaches to figure drawing. Emphasis is on **personal** expression and creativity. May be taken for up to six (6) hours credit. The second **semester** of work is more advanced **than** the previous semester. Prerequisite: ART 194. Lab required. 3 credit hours.

ART 298 FIBERS I (ARTS 2336)

Investigates the problems of two and three-dimensional design with emphasis on individual expression and creativity based on loom and off-loom weaving techniques. Basic papermaking and elementary dyeing processes explored. Lab required. 3 credit hours.

ART 299 FIBERS II (ARTS 2337)

Investigation of the creative and functional aspects of loom weaving; experience in the construction, warping, threading and manipulation of both standard and modern design techniques. Prerequisite: ART 298. Lab required. 3 credit hours.

BIOLOGY

BIOL 151 Introduction to Biology I (BIOL 1408)

Survey of biology including molecular and cellular biology, genetics and the biology of plants and lower organisms. **The** cellular and molecular basis of life will be emphasized, Cumnt topics in biology and medicine will be discussed Students will meet **three** lecture hours/week, two lab hours/week and **one** recitation hour/week. Lab and recitation required. **4** credit hours.

BIOL 152 INTRODUCTION TO BIOLOGY II (BIOL 1409)

Continuation of Biology 151. The biology of plants and lower animals and humans will be studied, as well as organisms in nature, their ecology, ecosystems, behavior and evolution. Current topics in biology and medicine will be discussed. Students will meet three lecture hours/week, two lab hours/week and one recitation hour/week. Prerequisite: BIOL 151. Lab and recitation required. 4 credit hours.

BIOL 153 MARINE BIOLOGY (BIOL 1470)

Morphological, physiological and ecological adaptations of marine organisms to their environment. Prerequisite: BIOL 151 nr 191, SCUBA certification and consent of instructor. BIOL 152 or BIOL 192 is preferred. Lab required, including week-long field hip to Cozumel, Mexico. 4 credit hours

BIOL 155 HUMAN ANATOMY AND PHYSIOLOGY (BIOL 1471)

A one-semester come for non-science majors in the structure and function of the human body. Discussion of the body systems, including neuroendocrine, integumentary, musculoskeletal, digestive, urinary, reproductive and circulatory, will be accompanied by discussion of diseases of each system. Prerequisite: BIOL 151 or 191. Lab required. 4 credit hours.

BIOL 19I GENERAL BIOLOGY I (BIOL 1406)

For science majors. Current knowledge in the fundamentals of biology. Will develop concepts in cellular structure and function from the molecular to the organism level with a study of genetics and plants and lower organisms. General topics covered include basic biochemistry, metabolism, energetics, cell structure and function; bacteriq viruses and lower organisms; and plant structure and function. Laboratory includes study of tissue types, cellular structure and function, physiological chemistry, and plant anatomy and physiology. Lab required. 4 credit hours.

BIOL 192 GENERAL BIOLOGY II (BIOL 1407)

For science majors. Continuation of the study of biological systems including animal organ systems, immunity reproduction, development, diversity, inter- and intra-species behavior of animals, evolution and environment. The cellular and molecular basis of biology is emphasized. Dissections of invertebrates and a mammal arc included. Laboratory correlates with lecture topics. Prerequisite: BIOL 191. Lab required. 4 credit hours.

BIOL 264 HUMAN GENETICS (BIOL 2470)

A study of the principles of molecular and classical genetics and the function and transmission of hereditary material with emphasis on the human. Medical applications include genetic diseases, genetic counseling and genetics as involved in cancer and other acquired diseases. Prerequisite; BIOL 192. May be taken concurrently with BIOL 192 if BIOL 191 has been completed. Credit will not he given for both BIOL 264 and BIOL 294. Lab required. 4 credit hours.

BIOL 281 GENERAL BOTANY (BIOL 14! I)

The study of structure and function of plant cells, tissues and organa. An evolutionary survey and life histories of these representative groups: algae, fungi, mosses, liverworts, ferns and seer-producing plants. Plants' reproductive and functional interactions with their environment and with man will be included. Selected laboratory exercises will complement the lecture topics. Prerequisite: BIOL 192. May be taken concurrently with BIOL 192 if BIOL 191 has been completed. Lab required. 4 credit hours.

BIOL 283 INVERTEBRATE ZOOLOGY (BIOL 2418)

Classification, anatomy, physiology, ecology and evolutionary relationships of the invertebrate animals. Laboratoly will be correlated with animals studied in lecture and will include observation and dissection of invertebrates. Prerequisite: BIOL 192. Lab required. 4 credit hours.

BIOL 284 VERTEBRATE ZOOLOGY (BIOL 2428)

Classification, anatomy, physiology, development, ecology **and** natural history of the vertebrate animals with emphasis on comparative **evolution**. Prerequisite: BIOL **192**. Lab required. **4** credit hours.

BIOL 29! ANATOMY AND PHYSIOLOGY I (BIOL 2401)

A study of comparative structure and function of the mammalian system with emphasis on anatomy. Topics include cell structure and function, tissues, skin, skeletal, muscular and nervous systems. The molecular aspects of cells and coganisms are stressed. Laboratory section includes dissection of a mammal, as well as study of models, slides and charts correlating with lecture topics. Prerequisite: BIOL 191. Lab required. 4 credit hours.

BIOL 292 ANATOMY AND PHYSIOLOGY II (BIOL 2402)

Continuation of the study of the structure and function of the mammalian system with emphasis on physiology. Topics include genetics, digestion, nutrition, metabolism, respiratory systems, blood and cardiovascular system, endocrine system, lymphatic, urinary system, reproduction and human development Laboratory includes correlated physiological experiments and continued mammalian dissection. Prerequisite: BIOL 291. Lab required. 4 credit hours.

BIOL 293 MICROBIOLOGY (BIOL 2420)

Principles of microbiology. Classification, cell structure, metabolism and historical concepts of microorganisms including bacteria, viruses, fungl, protozoa and rickettsia Infectious diseases and immunology will be emphasized. Practical microbiology will include diagnostic microbiology of water, food, sewage, soil and industrial applications. Laboratory methods are stressed and experimentation with pure culture of medical, environmental and industrial importance are studied extensively. Prerequisite: BIOL 291 and BIOL 292. Lab required. 4 credit hours.

BIOL 294 GENETICS (BIOL 2416)

A study of the principles of classical and molecular genetics, and the function and transmission of hereditary material. Course content will include population genetics and genetic engineering, with special attention paid to human genetics and current research in genetics. Prerequisite BIOL 192. Lab required. 4 credit hours.

BUSINESS ADMINISTRATION

BSAD 121 Introduction to Business (BUSI 1301)

Survey of business operations in a capitalistic economy including ownership, management, marketing, finance, and legal and regulatory environment The role of business in society is studied. 3 credit hours.

BSAD 122 PRINCIPLES OF MANAGEMENT

Process af management is examined. The functions of planning, organizing, leading and controlling are covered Emphasis is on management philosophy, decision making. policy formulation, communications and motivation. Lab required. 3 credit hours.

BSAD 123 Business Law (BUSI 2301)

General principles of the law of contracts, property and torts. The historical and ethical background of the law and current legal principles are covered 3 credit hours.

BSAD 124 PERSONAL FINANCE (BUSI 1307)

Personal financial issues **are** covered. Topics include financial planning, insurance, budgeting, credit, home ownership, savings and tax problem. Lab required. 3 credit hours.

BSAD 125 SUPERVISORY MANAGEMENT

Designed to instill a balanced quantitative/qualitative (high-touch) approach to management The theories of Taylor, Fayol, Maslow, Mayo, Herzberg, Likert, etc. all are explored The challenges and quartunities presented by accelerated technological change are discussed. Effective leadership skills (time management, stress management, negotiation, assertion, active listening, effective meeting leadership, effective business communications and technical writing, etc.) are demonstrated. The student is required to practice these leadership skills during labs. Lab required. 3 credit hours.

BSAD 222 PERSONNEL MANAGEMENT

Study of principles and procedures in the management of employees. Topics include selection, placement, compensation, working conditions, training, labor relations and government regulations. Prerequisite: BSAD 121, BSAD 122 or SBMT 121.3 credit hours.

3 credit hours.

BSAD 225 International Business

Introduction to international trade. Overview of managerial, financial and marketing issues for the operation of small α large firms in α entering world trade. Problems of adaptation to different sociological, legal, political and economic characteristics are emphasized. 3 credit hours.

BSAD 226 SALES MANAGEMENT

Study of the principles of the management of personal selling. Attention given to personal qualifications and training programs. Topics include buying motives, sales psychology, sales techniques and management of sales personnel, Lab required, 3 credit hours.

BSAD 228 ORGANIZATIONAL BEHAVOR

Human problems of administration in modem organizations are examined. The **theory** and methods of behavioral science as they relate to organizations are included. Lab required. 3 credit hours.

BSAD 231 LABOR MANAGEMENT RELATIONS

Organized labor and management organizations are examined. Topics include labor union development, legislative acts, legal considerations, labor-management relationships and collective bargaining. Lab required. 3 credit hours.

BSAD 232 STRATEGIC MANAGEMENT

Functions of management are examined and expanded in the formation of strategic goals, objectives and policies to enhance organizational effectiveness. Enghasis will be on organizational design and redesign. sociotechnical and systems integration. forecasting techniques and leadership. Prerequisite: BSAD 122.3 credit hours.

BSAD 297 SELECTED TOPICS IN PERSONNEL MANAGEMENT

An in-depth study of selected topics on current issues in personnel management. Course may be repeated for credit as topics vary. 3 credit hours.

BSAD 298 SELECTED TOPICS IN BUSINESS PRINCIPLES (BUSI 2371)

Provides an overall picture of business operations, develops a business vocabulary and directs the thinking of each student to the field of business best suited to his/her interest and talent. Subject matter includes an analysis of the specialized fields within the business organization and of the role of business in modem society. Topics may vary freensemester to semester. Course may be repented for credit as topics change. 3 credit hours.

BSAD 700 COOPERATIVE EDUCATION I

A comprehensive treatment of career related activities encountered in the student's area of specialization. Under supervision of the college and the employer, the student combines classroom learning with work experience. Prerequisite: Consent of Instructor. 3 credit hours.

BSAD 705 Cooperative Education II

A comprehensive treatment of career related activities encountered in the student's area of specialization. Under supervision of the college and the employer, the student combines classroom learning with work experience. Prerequisite: Consent of Instructor. 3 credit hours.

CHEMISTRY

CHEM IS! INTRODUCTION TO CHEMISTRY (CHEM ! 405)

A laboratory, lecture and recitation program designed for non-science majors. Studies include the metric system, scientific calculations, states of matter, chemical equations, atomic theory, bonding theory and introductory qualitative chemistry. One hour recitation session develops methods of problem solving. Laboratory exercises reinforce concepts presented in lecture. Prerequisite: high schwl algebra or quivalent. Lab and recitation required. 4 credit hours.

CHEM 152 Introduction to Chemistry! (CHEM 1407)

A laboratory, lecture and recitation program for non-science majors. This survey course is a continuation of CHEM 151 and includes the study of acids and bases, solution chemistry. nuclear chemistry, kinetics, organic chemistry and biochemistry. Prerequisite: CHEM 151. Lab and recitation required. 4 credit hours.

CHEM 191 GENERAL CHEMISTRY I (CHEM 1411)

A classical chemistry course designed for science majors, pre-medical, dental or engineering students. Topics include stoichiometry, ideal **gas** behavior, atomic theory, periodic trends, VSEPR theory, thermochemistry, bonding theory and states of matter. Laboratory exercises demonstrate concepts presented in class and develop basic lab skills. Prerequisite: 1 year of high school chemistry or CHEM **151**; MATH **181**. Lab and recitation required. **4** credit hours.

CHEM 192 GENERAL CHEMISTRY! (CHEM | 412)

A continuation of Chemistry 191 that addresses topics in chemical equilibria, acid-base theory, solubility, electrochemistry, nuclear chemistry, organic chemistry and biochemistry. Laboratory exercises demonstrate concepts presented in lecture and develop more advanced lab methods. Prerequisite: CHEM 191. Lab and recitation required. 4 credit hours.

CHEM 193 BIOCHEMISTRY (CHEM 1170)

Biochemistry is a seminar course for science **majors** exploring topics of catabolism and anabolism with excursion into areas of current biochemical investigations. Prerequisite: BIOL **191** and CHEM **191**. Lab required. **1** credit hour.

CHEM 291 ORGANIC CHEMISTRY I (CHEM 2423)

Study of carbon chemistry that considers covalent bonding, nomenclature, stereochemistry, structure and reactivity, reaction mechanisms, functional groups and introductory synthesis. Laboratory experiments develop organic techniques and reinforce lecture material. Prerequisite: CHEM 192. Lab and recitation required. 4 credit hours.

CHEM 292 ORGANIC CHEMISTRY!! (CHEM 2425)

A continuation of Chemistry 291 that includes methods of structural analysis, advanced synthesis and reactions, biochemistry and organometallic topics. Laboratory experiments emphasize techniques in synthesis, purification, and analyses, and reinforce lecture material. Prerequisite: CHEM 291. Lab and recitation required. 4 credit hours.

CHILD DEVELOPMENT

CHDV IS I EARLY CHILDHOOD DEVELOPMENT (0-3 YRS.)

Comprehensive study of **growth** and development from conception through three years of age. Emphasis **on** cognitive, language, emotional and social development. Lab required. 3 credit hours.

CHDV 152 EARLY CHILDHOOD DEVELOPMENT (3-5 YRS.)

Comprehensive study of growth and development from three years through five years of age. Emphasis on cognitive, physical, emotional and social development. Lab required. 3 credit hours.

CHDV 153 Early CHLDHOOD PROGRAMS AND SERVICES

Study of appropriate learning experiences for young children in a variety of child-care environments. Emphasis on quality environments, learning activities and effective teaching techniques. Lab required 3 credit hours.

CHDV 154 NUTRITION. HEALTH AND SAFETY

Practical experience and information on the nutritional, health and safety needs of the young child. Students earn first aid and CPR certificates during this course. Lab required. 3 credit hours.

CHDV 155 MATERIAL AND ACTIVITIES DEVELOPMENT

Language Arts, Pre-reading, Computers and Math: Techniques and materials for the progress of each child in language arts, reading and math concepts for appropriate stages of their cognitive development. Lab required. 4 credit hours

CHDV 156 MATERIAL AND ACTIVITIES DEVELOPMENT !!

Nature, World of People and the Arts: The interrelationships among science, social science and creativity in the ruts is studied as it applies to the total development of the young child Activities, content, methods and materials are explored. Lab required. 4 credit hours.

CHDV 157 Practicum A

Application of learning experiences through participation as an assistant teacher or assistant administrator in the Child Development Laboratory School. Prerequisite or co-requisite: CHDV 155 or CHDV 156 for Early Childhood Educator majors; CHDV 253 or CHDV 254 for Early Childhood Administration majors. Permission of instructor required. Lab required. 3 credit hours.

CHDV 158 PRACTICUM B

Advanced application of learning experiences involving increased responsibility for teaching or administration in the Child Development Laboratory School or in an approved early childhood facility such as a registered family day home, a licensed child care center or an accredited school. Prerequisite: CHDV 157. Permission of instructor required. Lab required 3 m dit hours.

CHDV 159 INFANT AND TODDLER MATERIALS AND ACTIVITIES DEVELOPMENT

Appropriate experiences for infants and toddlers including learning activities, materials and teaching techniques. Prerequisite: CHDV 151. Lab required. 3 credit hours.

CHDV 160 CHILD DEVELOPMENT (5-12 YRS.)

Comprehensive study of growth and development from 5 through 12 years of age. Emphasis **on** cognitive, language, emotional and social development. Lab required. 3 credit hours.

CHDV 161 EARLY CHILDHOOD FUNDAMENTALS

Introduction to early childhood education, with an emphasis on the development of observation skills. Content includes methods for observation and recording of data, interpreting information and planning for children based on observations. The importance of children's play is emphasized. Lab required. 3 credit hours.

CHDV 251 CHILD GUIDANCE

Study of effective methods of guiding young children with **emphasis on** developing a positive self-concept, recognizing individual differences. varied family situations and various crisis situations. Includes observations and interpretations of case studies of **young** children. Lab required. Prerequisite: CHDV **151**, CHDV **152**, CHDV **161** or permission of instructor. 3 credit hours.

CHDY 252 CHILD ABUSE PREVENTION

Focuses on the causes and symptoms of abusive behavior. Emphasis on developing skills and competencies for working with the abused child and families to help alleviate abusive experiences. Lab required. 3 credit hours.

65.5

CHDV 253 Administration of Early Childhood Programs

Business administration procedures for early childhood programs are studied. Topics include food, health, **personnel** practices, budgeting, record keeping, legal procedures and **use** of the computer. Lab required. 3 credit hours.

CHDV 254 ORGANIZATION AND MANAGEMENT OF EARLY CHILDHOOD PROGRAMS

Organization and management procedures are studied. Topics include philosophy of early childhood education, organizational **goals**, staffing policies and training plans, facility planning and design, program management and evaluation. Lab required. 3 credit hours.

CHOV 255 INTERNSHIP

Supervised teaching or administrative experience in an approved program or service agency for young children and their families. Prerequisite: permission of instructor. Lab required. 3 credit hours.

CHDV 256 COOPERATIVE EDUCATION

A comprehensive treatment of career related activities encountered in the student's area of specialization. Under supervision of the college and the employer, the student combines classmom learning with work experience. Prerequisite: permission of instructor. 3 credit hours.

CHDV 257 PARENTS AND THE CAREGIVER

Explores relationships between care givers and parents of young children. Focuses on parental involvement, effective relationship building techniques and communication skills. Prerequisite: CHDV 151 or CHDV 152 and CHDV 251 or permission of instructor. Lab required. 3 credit hours.

CHDV 297 SELECTED TOPICS IN CHILD DEVELOPMENT

Current topics in the field of Child Development will be studied. May **be** repeated for credit **as** topics vary. Lab required. 1 credit hour.

COMMUNICATION

COMM 150 SURVEY OF RECORDING TECHNIQUES I (COMM 2371)

Introduction to the concepts and techniques of audio recording including operation of recording equipment, session procedures, simultaneous recording and multi-track recording. Lab required. 3 credit hours.

COMM 151 Survey OF Recording Techniques II (COMM 2324)

continuation of COMM 150, studying advanced recording studio techniques and practical application of basic skills. Prerequisite COMM 150. Lab required. 3 credit hours.

COMPUTER INFORMATION SYSTEMS

CIS 121 COMPUTER GRAPHICS SYSTEMS

Basic computer systems used in drafting and design applications. Hardware and **software** operations including booting, displays, filer, commands, defaults, input-output, disks, printers, plotters, precision, utilities and data bases. 3 credit hours.

CIS 128 MICROCOMPUTER CONCEPTS

Designed to develop PC skills in DOS (Disk Operating System) from simple commands through creation of BATCH files. Instruction and practice using an integrated software package (database, spreadsheet and word processing) are included. Lab required. 3 credit hours.

CIS 130 BASIC PROGRAMMING

This course is designed to provide a comprehensive understanding of fundamental programming logic. The student is required to write several business-oriented programs in BASIC. Systems analysis, structured design, flowcharting and other fundamental terms and concepts of hardware and software are introduced. Prerequisite: CPSC 150; or CIS 128; or consent of instructor. Lab required. 3 credit hours.

CIS 140 RPG PROGRAMMING

Provides a comprehensive understanding of programming digital computers using Report Program Generator language. Proficiency is developed as. students design, code, compile and debug RPG programs. Lab required. 3 credit hours.

CIS 200 COBOLI

Presents structured program design, development, testing, implementation and documentation of common business applications using COBOL. Syntax, data and file processing, hatch and interactive modes are covered. The student is required to write several COBOL programs. Prerequisite: CIS 130. Lab required. 3 credit hours.

CIS 205 COBOLII

Continuation of CIS 200 with emphasis placed on advanced techniques, disk accessing and storage, direct and sequential access, and console input and output. Programs studied are complex and varied and are designed to employ all features available on the computer. Prerequisite: CIS 200. Lab required. 3 credit hours.

CIS 210 DATA STRUCTURES FOR BUSINESS

This course emphasizes the file structure to solve computer problems. The, , student will use a language to develop methods of searching and sorting sequential and direct access file systems. Concepts of stacks, queues, the linked list, and data collision and resolution techniques will be applied to data files. Prerequisite: One programming language. Lab required 3 credit hours

CIS 220 INTEGRATED SPREADSHEET APPLICATIONS

Introduction to solving business problems using LOTUS 123 by Lotus Dev. . Corp. Student will be required to produce spreadhseet, database and graphic, documents. Prerequisite: CIS 128 or CPSC 150, or consent of instructor. Lab required. 3 credit hours.

CIS 222 SYSTEMS ANALYSIS AND DESIGN

Techniques of documentation; information gathering; systems flowcharting; the design, classification and coding of records; data controls; and file organization. The basic techniques of business systems analysis and design **are** applied to an ongoing **case** study. Prerequisite: One programming language. Lab required. 3 credit hours.

CIS 224 INFORMATION SYSTEMS MANAGEMENT

Designed to solidify and update the student's quantitative and qualitative (high-tech. high-touch) managerial skills. Cumnt theories, capabilities, applications, benefits, liabilities and economics of management information systems are presented. Computer-based decision support systems are emphasized. The student is required to lead and participate in groups to define, analyze, solve and present management information systems case studies. Prerequisite: One programming language. Lab required. 3 credit hours.

CIS 225 DESKTOP PUBLISHING

Use of the computer to produce printed communications using commercially available desktop publishing software. To demonstrate proficiency, the student will be required to produce several projects. Prerequisite: CIS 128, OFAD 223. Lab required. 3 credit hours.

CIS 230 DATABASE APPLICATIONS

Concepts and techniques for solving business problems using dBase IV by Bourland Corp. Emphasis is on database design, custom repots, file management and application creation. Prerequisite: CIS 128 or CPSC 150 or consent of instructor. Lab required. 3 credit hours.

CIS 235 NETWORKING AND TELECOMMUNICATIONS

This course reviews data, text, graphics and voice communications technology and their applications. Included is vocabulary, configuration of local networks, modems, rates and standards. An overview of protocols is given. Prerequisite: CIS 128 or CPSC 150 or consent of inshuctor. Lab required. 3 credit hours.

CIS 245 COMPUTER OPERATING SYSTEMS

An introduction to operating systems theory and concepts. Topics include computer hardware, **software** and their interaction, single-user vs. multiple-user systems, MS-DOS, UNIX and JCL. Prerequisite: One programming language, CPSC 150 or CIS 128. Lab required. 3 credit hours.

CIS 297 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS 1

Current developments in the rapidly changing field of computer information systems **are** studied. May be repeated when topics vary. Prerequisite; Will vary based **on** topics covered and will be annotated in each semester's class schedule. Lab required 3 credit hours.

CIS 298 SPECIAL TOPICS IN COMPUTER INFORMATION SYSTEMS II

Current developments in the rapidly changing field of Computer infomation systems are studied. May be repeated when topics vary. Prerequisite: Will vary based on topics covered and will be annotated in each semester's class schedule. Lab required 3 credit hours.

CIS 700 COOPERATIVE EDUCATION I

This course is designed to help the student integrate classroom knowledge with the work experience. The student, the student's supervisor and the instructor coordinate a set of goals for the student to accomplish. Requires the student to attend a 1 hour weekly seminar. 3 credit hours.

CIS 705 COOPERATIVE EDUCATION II

Continuation of supervised on-the-job training related to **students** field of study. Learning objectives **are** reviewed and new ones established; continued participation in seminars. Prerequisite: CIS **700.3** credit hours.

COMPUTER SCIENCE

CPSC 123 Introduction System Software Architecture

Introduction to system level operations, booting, compilers, translators, linkers, loaders, system control and runtime **software.** Laboratory examples assigned to reinforce principles. Prerequisite: CPSC 150. Lab required. 3 credit hours.

CPSC 130 LARGE SCALE OPERATING SYSTEMS

A study of UNIX and VMS operating systems concepts with hands-on laboratory exercises. Topics include **I/O** techniques, buffering, spooling, device drivers, resource allocation, memory, tile management, deadlock avoidance and job scheduling. Prerequisite: In-depth knowledge of **one programming** language. 3 credit hours.

CPSC 135 C Programming (COSC 1320)

An introduction to fundamental high-level programming using the C programming language. Prerequisite CPSC or knowledge of one programming language. Lab required. 3 credit hours.

CPSC 150 INTRODUCTION TO COMPUTERS (COSC 1306)

Study of basic hardware components and major software applications. Topics emphasized in labs include introduction to **DOS** commands, WordPerfect, dBASE III+, Lotus 1-2-3 and elementary programming using BASIC language. Lab required. 3 credit hours.

CPSC! 90 Programming Concepts I (COSC I 3 18)

Study of logical operation and organization of a computer, number systems, Boolean algebra, problem solving techniques, algorithmic processes and top-down design using the PASCAL language. Co-requisite: MATH 181, CPSC 150; or consent of instructor. Lab required. 3 credit hours.

CPSC 19 | PROGRAMMING CONCEPTS ! (COSC 2318)

Continuation of Computer Science 190, including structured **programming**, design, data structures, documentation and file processing. Emphasis *on* creating and modifying larger programs. Prerequisite: CPSC 190. Lab required. 3 credit hours.

CPSC 201 PROGRAMMING IN WINDOWS

Programming in a windows integrated development environmentusing C and Pascal. Topics also include coding for dialogs, buttons, list boxes. edit fields, icons and other resources. Prerequisite: CPSC 135 or 190.3 credit hours.

CPSC 210 ASSEMBLY LANGUAGE (COSC 2325)

Study of the architecture of the computer **through** the use of assembly language programming. Includes study of registers, instruction sets, addressing technques, machine execution traces, table searching/sorting, file I/O, program linking and macros. Prerequisite: CPSC 135 or 191. Lab required. 3 credit hours.

CPSC 213 DATA STRUCTURESWITH C

Using C language, an in-depth look at records, variant records, enumerated data types, pointers, records, list processing tress, stacks, queues, abstract data types, searching, sorting, linked lists, graphs, traversals and recursions. Prerequisite: CPSC 135.3 credit hours.

CPSC 221 SOFTWARE ENGINEERING

Study of software design, implementation, validation techniques through team projects. Structured analysis, programming style and project documentation are emphasized in software projects large enough to give a group meaningful work experience. Lab required. 3 credit hours.

CPSC 223 COMPUTER NETWORKS

Use of distributed networks containing **mini** and micro **computers** with **an** introduction **to** wide area networks. Hands-on experience in local **area** networks, network architecture, protocols and **software** security using a network software package, such as NOVELL. Lab required. 3 credit hours.

CPSC 224 SOFTWARE TECHNIQUES

Introduction to **software** testing methodologies. Emphasis **on** program development techniques which aid testing. Introduction to proof of correctness. Laboratory exercises assigned to reinforce principles of program development. Prerequisite: CPSC 221. Lab required. 3 credit hours.

CPSC 225 ADA PROGRAMMING

Syntax and semantics of Ada language, packages, I/O, encapsulation, tasking, blocks, exceptions, private and generic types. Prerequisitc: CPSC 191. Lab required. 3 credit hours.

CPSC 230 SYSTEMS PROGRAMMING

Introduction to systems level operations booting compilers, translators, linkers, loaders, system control and runtime **software**. Laboratory examples assigned to reinforce principles. Prerequisite: CPSC 290. 3 credit hours.

CPSC 232 ADVANCED SOFTWARE ENGINEERING

Advanced study of large program design and documentation, **group** problems, software maintenance and reliability. Prerequisite: CPSC 221. Lab required. 3 credit hours.

CPSC 233 ADVANCED ASSEMBLY LANGUAGE PROGRAMMING

Program design and practice with assembly languages, macro definitions, conditioned assembly, advanced I/O, floating point operations. Prerequisite: CPSC 290. Lab required 3 credit hours.

CPSC 235 LISP PROGRAMMING

Syntax and semantics of LISP programming language, style and recursion, tail recursion, algorithm development, list processing techniques. Prerequisite: CPSC **290**. Lab required. 3 credit hours.

CPSC 236 Introduction to Artificial Intelligence

Introduction to concepts and ideas in artificial intelligence. Topics will include search techniques, knowledge representation, control strategies and advanced problem-solving architecture. Prerequisite: CPSC 235. Lab required. 3 credit hours.

CPSC 292 Scientific Programming (COSC 1317)

Introduction to numerical techniques with applications in science and engineering using FORTRAN. Emphasis on program design and documentation. Topics include subscripting, file processing and subroutines.

Prerequisite: MATH 182. Lab required. 3 credit hours.

CPSC 293 PL/1 Programming (COSC 2333)

Introduction to PL/1 programming with emphasis on the structured approach to program design using both mathematical and business applications. Prerequisite: CPSC 191. Co-requisite: MATH 181; CPSC 150; or consent of instructor. Lab required. 3 credit hours.

CPSC 294 C++

A **study** of the principles underlying object oriented **programming** and design using C++. Prerequisite: CPSC 135 or consent of instructor, Lab required 3 credit hours.

CPSC 297 ADVANCED TOPICS IN COMPUTER SCIENCE

Selected topics in computer science **and** software development to address current issues. Topics may vary each semester. Course may be repeated for credit **as** topics vary. 3 credit hours.

CPSC 298 SPECIAL TOPICS II

Selected topics in computer science and **software** development **to** address current issues. Topics may **vary** each semester. Course may be repeated for credit. 1 credit hour.

CPSC 700 COOPERATIVE EDUCATION I

Supervised on-the-job training related to Computer Science and Software Development. The student, the student's supervisor and program coordinator will establish five specific goals for the student to accomplish. Approval by instructor. 3 credit hours.

CRIMINAL JUSTICE

CRJS 151 CRIME IN AMERICA (CRI) 1307)

A survey of the natum, location and impact of crime in America, Includes historical foundations of crime, theoretical explanations of criminality and delinquency, the recording and measurement of crime, descriptions of criminal careers and an analysis of public policies concerning crime control. 3 credit hours.

CRJS 152 INTRODUCTION TO CRIMINAL JUSTICE (CRIJ 1301)

A multidisciplinary overview and analysis of the major agencies, personnel and decision-makingpoints which comprise the criminal justice system. Included are a survey of problems and issues confronting legislatures, police, courts, corrections and the community as they respond to crime in a free society. Legal precedents guiding the decisions of criminal justice agents are also discussed. 3 credit hours.

CRJS 153 FUNDAMENTALS OF CRIMINAL Law (CRI) 1310)

Study of the nature of criminal law; historical and philosophical development of law in society; major definitions and Concepts; classifications of crime; elements of crimes and penalties using the Texas statutes as illustrations; criminal responsibility. 3 credit hours.

CRJS 154 THE COURTS AND CRIVINAL PROCEDURE (CRIJ 1306)

Study of procedural regulations which guide the processing of criminal cases through the criminal justice system with emphasis on the Texas Code of Criminal Procedure and tules of evidence. Included is a discussion of due process rights of the criminal defendant from arrest through confinement as well as issues related to the administration of capital punishment. 3 credit bores

DRAFTING AND COMPUTER AIDED DESIGN

CAD 151 TECHNICAL GRAPHICS I

Use of instruments, applied geometry, engineering lettering, orthographic projections, dimensioning, pictorial drawing and sketching, sectional views and working drawings. Lab required. 3 credit hours.

CAD 152 TECHNICAL GRAPHICS !!

A continuation of Technical Graphics I. This course covers working detail drawings with proper dimensioning and tolerances. Standard symbols, stock shapes and descriptions are covered and applied to fabrication and forming drawings. Prerequisite: CAD 151. Labrequired. 3 credit hours.

CAD 153 COMPUTER AIDED DRAWING

Capabilities and limitations of the electronic computer as an aid to the designer are studied. Drafting procedures using an interactive system with computer graphics are practiced. Forms and uses of computer aided products are viewed in perspective with the overall design and documentation process. Prerequisite: CIS 121. Lab required. 3 credit hours.

CAD 220 TECHNICAL ILLUSTRATION

Applications of computer graphics in the field of technical illustrations. Students will learn how to produce axonometric and perspective drawings on a CAD system, which will be suitable for use in such areas as desktop publishing, commercial advertising and technical publications. Concepts in animation, rendering and 3-D modeling will be introduced. Prerequisite: CIS 121 or CAD 153. Lab required. 3 credit hours.

CAD 22 I COMPUTER AIDED DESIGN

An advanced course in design applications. Students will complete actual design projects in the architectural, mechanical, civil, electronics, graphics or manufacturing fields of study. Prerequisite: CAD 153. Lab required.

3 credit hours.

CAD 224 ADVANCED COMPUTERAIDED DRAFTING

Advanced uses of the electronic computer as an aid to the designer are studied. Special emphasis is given to three-dimension design, specifically mechanical. Menu and library construction will be practiced while using the interactive graphic system. Prerequisite: CAD 153. Lab required 3 credit hours.

CAD 231 ELECTRONIC PCB DRAWING

Focuses on drawings used in the electronics industry. Topics include block and logic diagrams, schematic diagrams, interconnecting wire diagrams, taping printed circuit boards, integrated circuits, component packaging and current practices. Lab required 3 credit hours.

CAD 232 DESCRIPTIVE GEOMETRY

Study of points, lines and planes in **space** with application of various technologies. Prerequisite: CAD 152. Lab required. 3 credit hours.

CAD 235 MANUFACTURING PROCESSES

Study of the characteristics of industrial materials and the processes employed in their conversion. The areas covered are sheet metal, machined parts and castings. Prerequisite: CAD 151, Lab required. 3 credit hours.

CAD 236 NC PROGRAMMING

NC Programming will provide students with basic conceptual knowledge about the fundamentals of NC Programming and basic understanding of various NC Programming languages. Prerequisite: CAD 235. Lab required. 3 credit hours.

CAD 237 CONFUTER INTEGRATED MANUFACTURING

Systematic introduction of the aspects of Computer Integrated Manufacturing technology. This course includes software examples, practical case studies and simulation techniques. Prerequisite: CAD 235. Lab required. 3 credit hours.

CAD 240 PRINTED CIRCUIT DESIGN

This course develops skills in the design of double-sided and multi-layer printed circuit boards. Students design boards from schematics, parts lists and manufacturing specifications. Some boards are designed for manual parts insertion and taped artworks. Others are designed for automatic parts insertion and digitized inputs for artworks. Prerequisite: CAD 231. Lab required. 3 credit hours.

CAD 243 ADVANCED PRINTED CIRCUIT BOARD DESIGN

Continuation of CAD 240. Students will be designing power supply boards, shielding and denser PCB designs. Multi-layer board design concepts will be introduced. Prerequisite: CAD 240, CAD 153. Lab required. 3 credit hours.

CAD 255 Applications in PCB Design

Advanced topics io PCB technology to include surface mount and microwave circuit design together with new advancements in technology. Prerequisite: CAD 243. Lab required. 3 credit hours.

CAD 700 COOPERATIVE EDUCATION I

A course designed to integrate on-campus classroom **study** with hands-on work experience. The student, the student's supervisor and the instructor coordinator will establish five specific goals for the student to accomplish. Also requires one hour per week of lecture. Approval by instructor. **4** credit hours.

CAD 705 COOPERATIVE EDUCATION II

A course designed to integrate on-campus classroom study with hands-on work experience. The student, the student's supervisor and the instructor coordinator will establish five specific goals for the student to accomplish. Also requires one hour per week of lecture. Approval by instructor. Prerequisite: CAD 700.4 credit hours.

CAD 7 IO COOPERATIVE EDUCATION III

A course designed to integrate on-campus, classmom study with hands-on work experience. The student, the student's supervisor and the instructor coordinator will establish five specific goals for the student to accomplish. Also requires one hour per week of lecture. Approval by instructor. Prerequisite: CAD 705.4 credit hours.

EATING DISORDERS

EDCC 221 A SURVEY OF EATING DISORDERS

Studies the history, dynamics, prevalence, symptoms and treatment approaches to eating disorders. Examines biological, psychoanalytic, behavioral. cognitive **and** other theoretical perspectives. 3 credit hours.

EDCC 222 TREATMENT MODALITIES OF EATING DISORDERS

An in-depth study of the dominant approaches to treating eating disorders including diagnosis, assessment, various forms of psychotherapeutic **as** well **as** other interventions employed, and clinical issues encountered in treatment. Prerequisite: EDCC 221.3 credit hours.

EDCC 223 MEDICAL ASPECTS OF EATING DISORDERS

Analyzes the physiology of obesity, anorexia nervosa and bulimia nervosa, focusing on predisposition, medical complications and differential diagnosis. Explores medical, nutritional and dental treatment approaches employed in conjunction with psychological treatment. Prerequisite: EDCC 221. 3 credit hours

EDCC 224 INDIVIDUAL COUNSELING

Presents an introduction to interviewing, history-taking, can-giving, listening, intervention and interpretation **skills**. Includes experience under supervision. Prerequisite: PSYC 151. 3 credit hours.

EDCC 225 GROUP PROCESSES

Introduces the patterns and dynamics of small group interaction, communication styles, impact of group processes on the individual, curative factors of group therapy and effective approaches to facilitation of groups. Includes experience under supervision. Prerequisite: PSYC 151.3 credit hours.

EDCC 226 PRACTICUM

Helps the student integrate classroom knowledge with work experience. Indepth observation and participation experiences under supervision will be conducted at appropriate trealment facilities and hospitals. prerequisite: EDCC 222 and permission of instructor. Requires 20 hours per week of field work. 3 credit hours.

ECONOMICS

ECON 121 Introduction to Economics (ECON 1301)

Study of economics of current issues including antibust, deregulation, social security, labor **and** the banking system. **Also** included **arc** the purpose, functions and results of a capitalistic system. 3 credit hours.

ECON 29 I Principles of Economics—Macro (ECON 230 I)

Principles of macroeconomics. Topics include supply and demand economics organization, national income determination, *money* and banking, monetary and fiscal policy, economic fluctuations and growth. 3 credit hours

ECON 292 PRINCIPLES OF ECONOMICS —MICRO (ECON 2302)

Principles of microeconomics. Topics include theory of demand, supply and price, Income distribution, theory of **the** firm, international economics and contemporary economic problems. 3 credit hours.

ELECTRONIC TECHNOLOGY

ELT I 10 ELECTRONIC FUNDAMENTALS

Introductory course recommended for non-electronics majors in areas such as manufacturing, marketing and sales. The course provides the student with a knowledge of vocabulary, definitions, component identification and applications for electrical/electronics systems. Lab required. 3 credit hours.

ELT III BASIC ELECTRONICS I

Overview of terminology, concepts, devices and basic laws of direct current. Historical perspective on the development of static and dynamics of electrical properties. Basic circuit laws and applicatiws are provided in the course. An introduction to advanced laws is provided. Laboratory work will support material covered and enhance the students knowledge of circuit construction to develop a logical troubleshooting framework Lab required. 4 credit hours.

ELT | 12 BASIC ELECTRONICS ||

Overview of the terminology, concepts, devices and basic laws applied to alternating current. RC time constants, AC generation, parameter conversions and basic laws are presented. The laboratory will provide enhancement to applying AC theory to practice. Prerequisite: EET 111 or equivalent course. Lab required. 4 credit hours.

ELT | 13 ELECTRONIC FABRICATION |

A basic course in elect-onic assembly, Topics include component identification, schematic diagrams, soldering principles, wire preparation and harness assembly, terminal connections, inspection and quality control. Lab required. 4 credit hours.

ELT 114 SOLID STATE DEVICES

Survey of solid state devices and their associated circuitry, Presents the fundamentals of common electronic circuits which contain integrated circuits and elements of solid state devices from the principle of the PN junction through the function of integrated circuits. Prerequisite: ELT 111. Lab required. 4 credit hours.

ELT I 15 BASIC DIGITAL

Basic digital logic, its symbology and **notation** in terms of **digital** integrated circuits (IC's), logic *gates*. flipflops, decoders, numbering systems and Boolean algebra. Lab required. 3 credit hours.

ELT 207 FUNDAMENTALS OF ELECTRONIC COMMUNICATIONS

Overview of the systems and circuits involved in electronic communication, Topics include: radio, television. satellite, microwave, fiber optics and lasers theory in communication. Integrated circuits will be emphasized. Prerequisite: ELT 112. Lab required. 4 credit hours.

ELT 208 **A**CTIVE **D**EVICES

Semiconductors (active devices) include composition, parametered, linear and no-linear characteristics, in circuit action, amplifiers, rectifiers and switching. Prerequisite: ELT 114 or concurrent enrollment in ELT 114. Lab required. 4 credit hours.

ELT 209 Instrumentation and Telemetry

Operation and use of meters, counters, oscilloscopes, signal generators and test sets which are utilized in electronic circuit fault isolation and measurement. Lab required. Prerequisite: ELT 112.3 credit hours.

ELT 210 DIGITAL CONTROL APPLICATIONS

Digital principles as applied to microcomputer systems. Logic design, computer structure and organization, number systems conversion, busing and interfacing. Co-requisite: ELT I IS. Lab required. 3 credit hours.

ELT 2 II POWER SUPPLY SYSTEMS

Theory and **operation** of linear and switching power supplies. Topics covered will **be:** waveform analysis to include pulse characteristics **and pulse** train measurements, full-wave rectification, filtering and regulation, Prerequisite: ELT **208.** Lab required. 3 credit hours.

ELT 212 APPLIED ELECTRONIC CIRCUITS

Electronic circuit applications with considerations in rest of high speed EMI; high speed switching, coupling and decoupling circuits, transmission modes, noise source and types. trans-conductive, measurement techniques. Prerequisite; ELT 114, Lab required. 4 credit hours.

ELT 213 COMPUTER ARCHITECTURE

Tri-state output circuits, added detail to flip-flops and integrated circuitry, magnetic bubble storage, charge coupled devices, semi-conductor memories. A micro-programmed version of BLUE will be discussed to illustrate this important design tool. Also brief discussions of STARAN, ILLIACIV and the Hpercube machines as examples of array processors. Prerequisite: ELT 115. Lab required. 4 credit hours.

E IT 2 14 Applied Computer Programming

Computer programming techniques using Fortran or BASIC to solve problems and demonstrate system operation. The language syntax, flow-charting and coding with applications to technical project, is emphasized. Lab required. 4 credit hours.

E IJ 2 IS MICROCOMPUTER SYSTEMS

Microcomputer interfacing and the use of programmable peripherals devices. Selected programmable interface devices will be studied and the software and hardware interfaces developed. Experience in testing and troubleshooting interface circuits will be provided in a laboratory setting, Specialized logic analyzer and emulation systems will be utilized. Lab required. 3 credit hours.

ELJ 2 16 OPTOELECTRONICS

A comprehensive course on the theory and application of optical electronic devices, circuits and fiber optics as they apply to industrial controls, data transmission and telecommunications. Prerequisite: ELT 112. Lab required. 4 credit hours

ELT 700 COOPERATIVE EDUCATION I

A course designed to integrate on campus classroom study with off campus work experience. The student, the student's supervisor and the instructor coordinator will establish five specific goals for the student to accomplish.

Also requires one hour per week of lecture. 4 credit hours.

ELJ 705 COOPERATIVE EDUCATION !!

A course designed to integrate **on** campus classroom study with **off** campus work experience. The student, the student's supervisor and **the** instructor coordinator will establish five specific goals for the student **to** accomplish. Also requires **one** hour per week of lecture. Prerequisite: ELT **700.4** credit hours

ELECTRONICS ENGINEERING TECHNOLOGY

EET 150 AC/DC FUNDAMENTALS

Provides a systems approach to electricity/electronics and concerns itself with vocabulary, definitions of electrical/electronics circuits, components and systems. An introduction to printed circuit board design, preparation, processing will be covered, including hook-up wiring and interconnection techniques. Lab required. 4 credit hours.

EEJ 15 | CIRCUIT ANALYSIS |

Introduction to design principles of electrical/electronic direct current circuits. The course will cover division principles and various analysis techniques for analyzing different circuits. Node analysis, Superposition, KVL, KCL, Thevenin equivalent, Norton equivalent and the Millman equivalent theorems are utilized. This course is an applied mathematics course and includes Cramer's rule. Prerequisite: MATH 181. Lab required 4 credit hours.

EEJ 152 CIRCUIT ANALYSIS !!

Continuation of Circuit Analysis I. The information from the first semester course will be applied to alternating current circuits. Additional topics covered for AC circuits are: the effects of frequency and impedance: resonant circuit characteristics and filter networks; troubleshooting techniques; coupling networks, transformers. Utilization of standard phaser notation and application of fundamental laws and theorems for network analysis is covered. Prerequisite: EET 151, MATH 182 or concurrent enrollment in MATH 182. Lab required. 4 credit hours.

EET 153 DIGITAL I.C. ANALYSIS

In-depth course in digital circuit analysis. theory, design and troubleshooting. Topics include: numbering systems and codes, logic elements, synchronous sequential logic, IC architecture, chip survey applications, design of memory systems, A/D and D/A converters and survey of peripherals. Lab required. 4 credit hours.

EEJ !54 FUNDAMENTALS OF COMPUTERS

Study of microcomputers; how they operate, how they are used, how they are programmed and how they relate to their equipment. Topics include: memories, microprocessor architecture, input/output operations, bus operations, control, execution cycles and bootstrap procedures. Prerequisite: EET 153. Lab required. 4 credit hours.

EET 250 CIRCUIT ANALYSIS III

The analysis and design of linear devices are studied, while emphasizing their circuit applications. Specifications and limits of voltage, current and heat-dissipation are included. Circuits covered include amplifiers, regulators, oscillators, filters, timers and signal processors. Prerequisite: EET 152. Lab required 4 credit hours.

EEJ 25I COMPUTER INTERFACING

Microcomputer interfacing and the **use** of programmable peripheral devices. Selected programmable interface devices will be studied and the **software** and hardware interfaces developed. Experience in testing and troubleshooting interface circuits and **use** of specialized logic analyzer and emulation systems will be provided in a laboratory setting. Prerequisite: £ET 154. Lab required. 3 credit hours.

EET 252 COMPUTER MAINTENANCE

Emphasis on the distinction between hardware and software failures in a computing system. This determination will be made in a lab setting using equipment with simulated or actual failures. Concentration is on the use of factory supplied and technician written diagnostic programs to identify and isolate a faulty device or subsystem. Lab required. 4 credit hours.

EET 253 **M**ICROWAVE FUNDAMENTALS

Introduction to microwave theory and applications, transmitter and receiver. Prerequisite: EET 250. Lab required. 3 credit hours.

EET 254 TELECOMMUNICATIONS

Topics include: circuit and system application **necessary** to implement signals protocols, conversion systems, formats, loop **starts**, E & M, **DX** (duples) and looping systems, telephone set public switched **networks**; local exchanges, networks, **two** and four wire systems, tip and ringing requirements and digital transmission techniques. Prerequisite: EET **250**. Lab required. 4 credit hours.

EET 700 COOPERATIVE EDUCATION!

A course designed to integrate **on** campus classmom **study** with **off** campus work experience. The **student**, the students's supervisor and **the** instructor coordinator will establish five specific goals for the student to accomplish. **Also** requires **one** hour **per** week **of** lecture. 4 credit hours.

EEJ 705 COOPERATIVE EDUCATION !!

A course designed to integrate on campus classroom **study** with **off** campus work experience, the student, the student's supervisor and the instructor coordinator will establish five specific **goals** for the student to accomplish. **Also** requires one hour per week of lecture. Prerequisite: EET 700.4 credit hours.

EMERGENCY MEDICAL TECHNOLOGY

EMTP 121 Introduction to Emergency Care

Overview of emergency medical care systems, including historical, state-ofthe-art and future perspectives. Legal and ethical issues and responsibilities of emergency care responders are covered. Included as well is training in emergency care. Students successfully completing the course will be eligible to take the State Examination for certification as Emergency Care Attendant (ECA). Lab required. 3 credit hours.

EMTP 14 | EMERGENCY MEDICAL PROCEDURES

Successful completion of this course qualifies a student to take the State Examination for Emergency Medical Technician (EMT) ceaification. Includes classroom, clinical and ambulance training. Topics include anatomy and physiology, extrication and management of injured patients, cardiopulmonary resuscitation (CPR). bleeding control and pneumatic antishock garments (MAST). Lab and clinical required. S credit hours.

EMTP 149 EMERGENCY MEDICAL DISPATCH

This course is designed to familiarize and equip communications personnel to give medical advice over the telephone while emergency responders are en route to the scene. Lab required. 3 credit hours.

EMTP 211 SPECIAL SKILLS TRAINING

Successful completion of EMTP 211 qualifies a student to take the state examination for EMT-Special Skills certification. In addition. this course is part of a sequence of courses (EMTP 211, 221,231) designed to qualify a student to take the state examination for Advanced EMT (Paramedic). This course introduces the student to skills required for providing Advanced Life Support (ALS). All areas of EMT training are reviewed In addition, Department of Transportation (DOT) EMT-Advanced Course Modules I, II, III and V rue covered Prerequisite: EMT CERTIFICATE. Lab and clinical required 5 credit hours.

EMTP 22 I PARAMEDIC PROCEDURES I

One of a series of courses (EMTP 211,221,231) designed to prepare the successful student to take the state examination for Advanced EMT (paramedic) certification. Department of Transportation (DOT) Modules IV and VII are covered in this course including general pharmacology and the central nervous system. Prerequisite: EMT CERTIFICATION. Lab and clinical required. 8 credit hours.

EMTP 225 PHARMACOLOGY

Designed to train emergency medical responders to prepare and administer emergency medicines safely and therapeutically. Mathematics of medications, preparation and administration of medication, therapeutic effects of drugs. side effects of drugs, toxic effects of drugs, drug interactions and contraindications are included Prerequisite: EMT CERTIFICATION, MATH 150 or equivalent. Lab required. 4 credit hours.

EMTP 230 EMERGENCY MEDICAL SERVICES MANAGEMENT

This course will assist students in understanding the complex workings of ambulance operations, including problems related to supervision, morale, communication, insurance, equipment purchasing and maintenance, scheduling and training. Prerequisite: EMT CERTIFICATION. 3 credit hours.

EMTP 231 PARAMEDIC PROCEDURES !!

One of a series of courses (EMTP 211, 221 and 231) designed to prepare the successful student to take the state examination for EMT-Advanced (Pruamedic) certification. Department of Transportation (DOT) Modules VI, VIII, IX, X,XI, XIII, XIV and XV are covered including: the cardiovascular system; soft tissues injuries; musculoskeletal injuries; medical emergencies; obstetric/gynecological emergencies; pediatrics and neonatal transport; management of the emotionally disturbed, rescue techniques; telemetry and communications. Prerequisite: EMT CERTIFICATION. Lab and clinical required. 7 credit hours.

EMTP 296 SEMINAR' PARAMEDIC REFRESHER

Designed to keep students informed **on** a variety of issues **affecting** emergency medical care. Weekly topics will range widely, covering topics from equipment and techniques to moral and legal issues. May be repeated for credit. 1 credit hour.

ENGINEERING

ENGR 151 Engineering GRAPHICS (ENGR 1304)

Use of instruments, applied goometry, engineering lettering, orthographic projections, dimensioning, pictorial drawing and sketching, sectional views and working drawings. Lab required. 3 credit hours.

ENGR 191 Engineering Mechanics I (ENGR 2301)

Vectors, tensors, foundations of mechanics. Motion of particles including momenta, energy, work concepts. Statics including concept of free-body diagrams, friction forces, virtual work. Prerequisite: MATH 192.3 credit hours.

ENGR 192 ENGINEERING MECHANICS ! (ENGR 2302)

Dynamics of particles including **harmonic** motion, motion of a particle **in** a central force field, momentum and energy methods. Relative motion in rigid bodies. Prerequisite: ENGR **191.3** credit hours.

ENGR 291 MATERIALS AND PROCESSES (ENGR 2332)

Simple **structural** elements are studied. Emphasis on forces, deformation and material properties. The concepts of **stress**, strain and elastic properties **arc** presented. Behavior phenomena such **as fracture**, fatigue and creep **arc** introduced. Prerequisite: ENGR **191.** 3 credit hours.

ENGR 292 ELECTRICAL CIRCUIT ANALYSIS (ENGR 2405)

Electrical science introduced. Includes fundamental electrical systems and signals. Basic concepts of electricity and magnetism with mathematical representation and computation are also examined. Prerequisite: MATH 293 or concurrent enrollment in MATH 293; EET 150 or instructors consent Lab required 4 credit hours.

ENGLISH

ENGL 040 DEVELOPMENTAL WRITING!

A skills improvement course designed to help the student improve basic writing skills necessary for ENGL 151. Focus is on paragraph and short essay writing. Basic grammar, punctuation and sentence construction studied as needed. This course may not be used to satisfy the requirements of an associate degree. Lab required. 3 credit hours.

ENGL 041 DEVELOPMENTAL WRITING !!

A skills improvement course designed to help **students** reach competencies necessary for ENGL **151**. Focus is **on** advanced paragraph development and medium length essay writing. Critical reading skills, analytical writing and vocabulary building are emphasized. Punctuation and sentence construction studied **as** needed. **This** course may not be wed to **satisfy** the requirements of an associate degree. Lab required. **3** credit hours.

ENGL 050 DEVELOPMENTAL GRAMMAR I

A skills improvement course designed to help the student strengthen the sentence for clearer, more emphatic, more concise expression of thought Focus is on all facets of standard written English—correct grammar, punctuation and usage. This course will teach the student to recognize and correct common errors in sentence structure and may be taken concurrently with any English course. This course may not be used to satisfy the requirements for an associate degree. Lab required. 3 credit hours.

ENGL 151 Composition/RHETORIC I (ENGL I301)

A beginning freshman course in writing. Development of paragraphs and the whole composition, study of model essays, extensive theme writing, individual conferences and departmental final exam. Assessment prior to enrollment required. Lab required 3 credit hours.

ENGL 152 COMPOSITION/RHETORIC II (ENGL 1302)

Continued development of skills acquired in English 151 and development of skills in argumentation. Analysis and interpretation of various types of argumentation and identification of fallacies. Extensive reading, outlining and summarizing of essays. Extensive writing, study of research methods and materials, preparation of research paper and individual conferences. Prerequisite: ENGL 151. Labrequired. 3 credit hours.

ENGL 241 CREATIVE WRITING (ENGL 2307)

Practical experience m the techniques of imaginative writing. May include fiction, non-fiction, poetry or drama. This course does not satisfy CCCC requirements for a sophmore literature course. Prerequisite: ENGL 152.3 credit hours

ENGL 251 FORMS OF LITERATURE 1 (ENGL 2339)

A study of short stones, novels and non-fiction. Analysis and evaluation of major writers in these geares, their techniques and their contributions to our literary heritage. Prerequisite: ENGL 152.3 credit hours.

ENGL 252 FORMS OF LITERATURE II (ENGL 2340)

A study of poetry and drama, and a study of mythology as it relates to these genres. Analysis and evaluation of our classical heritage, the *origins* of drama and development of contemporary drama and film, and the elements and types of poetry. Prerequisite: ENGL 152, 3 credit hours.

ENGL 253 BRITISH LITERATURE 1 (ENGL 2322)

A general survey of major works in British literature from its origin to the beginning of the Romantic movement. Analysis of **these** works in their historical, cultural and social contexts. Prerequisite: ENGL **152.3 credit** hours

ENGL 254 BRITISH LITERATURE II (ENGL 2323)

A general survey of major works in British literature from the Romantic period to the present. Analysis of these works in their historical, cultural and social contexts. Prerequisite: ENGL 152.3 credit hours.

ENGL 255 AMERICAN LITERATURE (ENGL 2327)

The study of major writers from the Colonial period to the beginning of the Civil War. The analysis and evaluation of these works in their historical, cultural and social contexts and the study of their contributions to the growth of American literature. Prerequisite: ENGL 152.3 credit hours.

ENGL 256 AMERICAN LITERATURE !! (ENGL 2328)

The study of major writers from the Realistic movement to the present. Evaluation and analysis of these works in their historical, cultural and social contexts and the study of their contributions to the growth and development of American literature. Prerequisite: ENGL 152. 3 credit hours.

ENGL 257 WORLD LITERATURE I (ENGL 2332)

Introduces the student to a multiplicity of literary histories beginning with the classical **Greek period through the 16th** century. The students will **read** representative selections, analyze and discuss philosophies, societal mores, social milieus and social concerns. Prerequisite: ENGL **152.3** credit hours.

ENGL 258 WORLD LITERATURE II (ENGL 2333)

Introduces *the* student to a multiplicity of literary histories beginning with the 17th century through the 20th century. The students will read representative selections, analyze and discuss philosophies, societal mores, social milieus and social concerns. Prerequisite: ENGL 152.3 credit hours.

ENGL 291 TECHNICAL WRITING (ENGL 2311)

Introduction to technical writing and communication including preparation of reports, proposals. technical papers, abstracts and summaries of specific technical interest to the student. Prerequisite: ENGL 152. Note: Students in certain technical programs may he admitted to this course with a prerequisite of ENGL 151 and consent of English coordinator and dean. No lab required. 3 credit hours.

ENGLISH AS A SECOND LANGUAGE

ESLC 061 ESL LISTENING-CONVERSATION

This course is designed to develop the non-native speaker's competencies in English. The purpose of the course is to prepare students to function in an English speaking society. (This course may not be used to satisfy the requirements for an associate degree.) Prerequisite: Score of 36-42 on the assessment, Lab required. 3 credit hours.

ESLC 062 ESL LISTENING-CONVERSATION

This course is a continuation of ESLC 061 and is designed to develop the non-native speaker's competencies in English. Its purpose is to prepare students to function in an English speaking society. (This course may not be used to satisfy the requirements for an associate degree.) Prerequisite: Score of 43-52 on the assessment. Lab required. 3 credit hours.

ESLC 063 ESL LISTENING-CONVERSATION

This course is a continuation of ESLC 062 and is designed to develop the non-native speaker's competencies in English. Its purpose is to prepare students to function in an English speaking society. (This course may not be used to satisfy the requirements for an associate degree.) Prerequisite: Score of 53-65 on the assessment. Lab required. 3 credit hours.

ESLR 06 I ESL READING

This course is designed to develop fundamental reading skills for non-native speakers. The purpose of the course is to prepare students to read and comprehend the English language. (This course may not be used to satisfy the requirements for an associate degree.) Prerequisite: Score of 36-42 on the assessment. Lab required. 3 credit hours.

ESLR 062 ESL READING

This course is a continuation of ESLR **061** and is designed to develop reading competencies for the non-native speaker. (This **course** may not be used to satisfy the requirements for an associate degree.) Prerequisite; Score of **43–52** on the assessment, Labrequired. 3 credit hours.

ESLR 063 ESL READING

This course is a continuation of ESLR **062** and is designed to develop reading competencies for **the non-native speaker**. (This **course** may not **be** used to satisfy the requirements for an associate degree.) Prerequisite: Score of **53-65** on **the** assessment **Lab** required. 3 credit hours.

ESLW 061 ESL WRITING

This course is designed to develop the non-native speaker's competencies in writing in the English language. The purpose of this course is to prepare students to communicate through written words. Spelling, punctuation, usage and sentence construction will be stressed. (This course may not be used to satisfy the requirements for an associate degree.) Prerequisite: Score of 36-42 on the assessment Lab required. 3 credit hours.

ESLW 062 ESL WRITING

This course is a continuation of **ESLW 061** and is designed to **develop** competencies in **writing** in the English language. Its purpose is to prepare students to communicate through written **words**. Spelling, punctuation, **usage** and sentence construction will be stressed. (This course may not be used to satisfy the requirements for an associate degree.) Prerequisite: Score of 43-52 on the assessment. Lab required. 3 credit hours.

ESLW 063 ESL WRITING

This course is a continuation of ESLW **062 and** is designed to develop competencies **m** writing in the English language. Spelling, punctuation, **usage** and sentence construction will **be sassed** (This course may not be used to **satisfy** the requirements for an associate degree.) Prerequisite: Score of **53-65** on the assessment, Lab required. 3 credit hours.

FIRE SCIENCE

FISC 106 FUNDAMENTALS OF FIRE PROTECTION

History and philosophy of fire protection; review of statistics of loss of life and property by fire; introduction to agencies involved in fire protection; current legislative developments and career orientation; recruitment and training for fire departments; position classification and pay plans; employee organization; a discussion of current related problems and review of expanding future fire protection problems. 3 credit hours.

FISC 112 FIRE PREVENTION

The objectives and view of inspections, fundamental principles, methods, techniques and procedures of fire prevention administration. Fire prevention organization; public cooperation and image; recognition of fire hazards; insurance problems and legal aspects; development and implementation of a systematic and deliberate inspection program. Survey of local, state and national codes pertaining to fire prevention and related technology; relationship between building inspection agencies and fire prevention organizations. Engineering as a solution to fire hazards. 3 credit hours.

FISC 116 FIRE SAFETY EDUCATION

The study of the design, development and delivery of public fue and bum safety information and education programs including: methods of identification of fire and bum problems; the selection of target problems and strategies to affect reduction; methods of designing and implementing information and education programs; and methods of evaluating program impact. Study includes theoretical and practical skills training in individual, *group* and mass media communications, instructional skills, planning priorities and evaluation techniques. 3 credit hours.

FISC 117 FIRE PROTECTION SYSTEMS

A study of basic built-in fire detection, alarm and extinguishing systems. An examination of the devices and systems installed in buildings used to protect life and property from fire and support the role of the fire department through early detection of fire and extinguishment. 3 credit hours.

FISC 121 INDUSTRIAL FIRE PROTECTION I

Specific concerns and safeguards related to business and industrial organizations. A study of industrial fire brigade organization and development, plant layout, fire prevention programs, extinguishing factors and techniques, hazardous situations and prevention methods. Gaining cooperation between the public and private fire department organizations. Study of elementary industrial fire hazards in manufacturing plants. 3 credit hours.

FISC 125 CHEMISTRY OF HAZARDOUS MATERIALS

Study of chemical characteristics and behavior of various materials that **burn** or react violently related to storage, transportation, handling **hazardous** materials, i.e., flammable liquids, combustible solids and gases. Emphasir on emergency situations and the most favorable methods of handling **fin** fighting and control. 3 credit hours.

FISC 131 BUILDING CODES AND CONSTRUCTION

Fundamental consideration and exploration of building construction and design with emphasis on fire resistance of building materials and assemblies, exposures and related data focused on fire protection concerns; review of related statutory and suggested guidelines, both local and national scope. Review of Model Building Codes and Life Safety Codes. 3 credit hours.

FISC 133 FIRE CAUSE AND ORIGIN DETERMINATION

A study of the detection of arson, investigation techniques, case histories, gathering and preserving of evidence; preparing for a court case; selected discussion of laws, decision and opinions; kinds of arsonists, interrogation procedures, cooperation and coordination between fire fighters and arson investigators and other related topics. 3 credit hours.

FISC 135 FIREFIGHTER CERTIFICATION

First in a series of **courses** preparing the student for certification as a Basic Firefighter by the Texas Commission on Fire Protection Personnel Standards and Education. An introduction to fire department organization, fire apparatus, fire science, firefighter safety, fire alarm and communications, report writing and emergency driving. Prerequisite: Admittance to the program. Lab required. 3 credit hours.

FISC 136 FIREFIGHTER CERTIFICATION!

Second in a series of courses preparing the student for certification as a Basic Firefighter by the Texas Commission on Fire Protection Personnel Standards and Education. A study of fire service hydraulics, water supplies, fire stream practices and fire hose. Prerequisite: FISC 135. Lab required. 2 credit hours.

FISC 137 FIREFIGHTER CERTIFICATION III

Third in a series of courses preparing the student for certification as a Basic Firefighter by the Texas Commission on Fire Protection Personnel Standards and Education. A study of forcible entry techniques, rope practices, fire extinguisher applications, ventilation practices, ladder practices, self-contained breathing apparatus and the role of the fire service during civil disorders. Prerequisite: FISC 136. Lab required 2 credit hours.

FISC 138 FIREFIGHTER CERTIFICATION IV

Fourth in a series of courses preparing the student for certification as a Basic Firefighter by the Texas Commission on Fire Protection Personml Standards and Education. A study of rescue practices, aircraft fire protection and rescue procedures, structure fire salvage and overhaul techniques and the operations of automatic sprinklers. Prerequisite: FISC 137. Lab required. 2 credit hours.

FISC 139 FIREFIGHTER CERTIFICATION V

Fifth in a series of courses preparing the student for certification as a Basic Firefighter by the Texas Commission on Fire Protection Personnel Standards and Education. A study of inspection practices, hazardous materials, fire and arson investigation, pre-fire planning, bomb search investigations, emergency management operations and community relations. Prerequisite: FISC 138. Lab required. 3 credit hours.

FISC 140 FIREFIGHTER CERTIFICATION VI

Sixth in a series of courses preparing the student for certification as a Basic Firefighter by the Texas Commission on Fire Protection Personnel Standards and Education. An in-depth study of simulated emergency operations and hands-on live fire training exercises applying basic fire suppression principles and techniques. Prerequisite: FISC 139 or approval from fire science discipline coordinator. Lab required. 1 credit hour.

FISC 141 FIRE ADMINISTRATION I

In-depth study of the organization and management as related to a fire department including budgeting, maintenance of records and reports, and management of fire department officers. Personnel administration and distribution of equipment and personnel and other related topics, including relation of various government agencies to fire protection ress. Fire service leadership as viewed from the company officer's position. 3 credit hours.

FISC 148 FIREFIGHTING TACTICS AND STRATEGY

Essential elements **m** analyzing the nature of fire and determining the requirements. Efficient and effective utilization of manpower, equipment and apparatus. Emphasis on pre-planning, study of conflagration problems, fire ground organization problem solving related to fire ground decision making and attack tactics and strategy. Use of mutual aid and large scale command problems. Lab required. 4 credit hours.

FISC 225 CHEMISTRY OF HAZARDOUS MATERIALS II

Hazardous materials covering storage, handling, laws, standards and fire fighting techniques associated with chemicals, gases, flammable liquids, corrosives, poisons, explosives, rocket propellants and exotic fuels, and radioactive materials. The formation of toxic fumes and health hazards is also stressed. Ignition and combustion characteristics of gases, liquids and solids related to free-burning fire and explosion phenomena. Familiarization with radiological instruments, human exposure to radiation, decontamination procedures, common uses of radioactive materials and operational procedures. Prerequisite: FISC 125. 3 credit hours.

FISC 226 HAZARDOUS MATERIALS III

An in-depth study of the tactics used to correct problems encountered at hazardous materials incidents including: diking, drum/cylinder plugging and/or repair, evacuation procedures, use of monitoring equipment. Review of legislative mandates applicable to hazardous material incident responders. Students will have extensive "hands-on" experience throughout the course of instruction, 3 credit hours.

FISC 229 METHODS FOR FIRE SERVICE INSTRUCTION

Principles of learning and teaching including instructor responsibilities, lesson plan design and development, motivation for learning, methods of teaching, effective use of instructional aids, safety considerations, evaluation techniques, record keeping and practice teaching. 3 credit hours.

FISC 230 FIRE SERVICE COMPUTER APPLICATIONS

Designed to familiarize the student with various **software** packages for fire service management applications. Provides in-depth training in the use of Texas Fire Incident Reporting System (TXF)RS) software and the associated data analysis programs. Students will have extensive "hands-on" experience throughout the course of instruction, Lab required, 3 credit hours.

FISC 237 FIRE INCIDENT REPORTING SYSTEMS

In-depth study of computerized systems that may be utilized for storing and retrieval of fie loss statistics, also techniques and procedures for programming various types of records and reports valuable to the fire service. Exploration of the new systems of microfilming including the modem technology of COM (Computer Output Microfilm) and the systems utilizing microfiche, including reduction of ratios and various type readers. A review of standards for the uniform coding for tire protection as developed by the NFPA in Pamphlet 901 and 901 AM. Lab required. 3 credit hours.

FISC 240 Introduction to CAMEO (COMPUTER-AIDED MANAGEMENT OF EMERGENCY OPERATIONS)

An in-depth study of the CAMEO computerprogram and its usage for hazardous material incident response. Data manipulation within the CAMEO system for pre-incident planning, chemical listing, mapping and risk assessments are explored. Students will have extensive "hands-on" experience throughout the course of inshuction. Prerequisite: FISC 125. Lab required. 3 credit hours.

FISC 241 FIRE ADMINISTRATION 11

Study to include insurance rates and ratings; preparation of budgets, administration and organization of training in the fire department, city water requirements, tire alarm and communication systems; importance of public relations, report writing and record keeping; measurements of results, use of records to improve procedures and other related topics; legal aspects relating to tire prevention and tire protection with stress on municipal and state agencies; design and construction of fire department buildings. 3 credit hours

FISC 296 SEMINAR

Designed to keep students informed on a variety of fire ground techniques developed to address problems encountered during fire suppression operations. May be repeated for credit 1 credit hour.

FRENCH

FREN 191 BEGINNING FRENCH I (FREN 1411)

An introduction to the four basic skills of speaking, reading. Writing and listening, designed for students with little or no previous language training. **Also** includes an introduction to selected aspects of French civilization. Instruction is enhanced by the **use** of tapes, slides, computer **software** and video cassettes. Lab required. **4** credit hours.

FREN 192 BEGINNING FRENCH !! (FREN 1412)

A continuation of French 191. Prerequisite: French 191, Lab required, 4 credit hours.

FREN 291 INTERMEDIATE FRENCH I (FREN 231 I)

Review and continued development of the four basic language skills with increased attention to reading and writing. Inshuction enhanced by slides, tapes and other audio-visual aids. Prerequisite: FREN 192 or consent of discipline coordinator, Co-requisite: FREN 293. 3 credit hours.

FREN 292 INTERMEDIATE FRENCH II (FREN 2312)

A continuation of French 291. Prerequisite: FREN 291. Co-requisite: FREN 194.3 credit hours.

FREN 293 FRENCH CONVERSATION I (FREN 1 100)

Intensive practice in conversational French. Prerequisite: FREN 192 or consent of discipline coordinator. Co-requisite: FREN 291. I credit hour.

FREN 294 FRENCH CONVERSATION!! (FREN I 110)

A continuation of French 293. Prerequisite: FREN 293. Co-requisite: FREN 292. I credit hours.

FREN 295 FRENCH LITERATURE! (FREN 2303)

A survey of French literature in its historical context from the sixteenth through the eighteenth century. Continued practice in the basic language skills. Reading of selected writers such as Ronsard, Moliere, Voltaire. Prerequisite: FREN 292. 3 credit hours.

FREN 296 FRENCH LITERATURE II (FREN 2304)

A continuation of French 295. A survey of French literature in the nineteenth and twentieth conturies with reading from representative writers such as Hugo, Baudelaire and Camus. Prerequisite: FREN 292.3 credit hours.

GEOGRAPHY

GEOG 151 PHYSICAL GEOGRAPHY (GEOG 1301)

Introduction to the study of the physical environment. Emphasis on climates, landforms, vegetation and spatial relationships of selected geographical regions of the world. Lab required. 3 credit hours.

GEOG 152 CULTURAL GEOGRAPHY (GEOG 1302)

Introduction to the study of the cultural and economic environment. Emphasis on origins, diffusion and distribution of races, religions and languages. Lab required. 3 credit hours.

GEOLOGY

GEOL 191 Physical Geology (GEOL 1403)

Structure of the earth and its composition including topographic maps, rocks and minerals, and geologic processes. These processes are related to weathering, gradation by wind and running water, ground water, glaciers, oceans and volcanism. Lab required. 4 credit hours.

GEOL 192 HISTORICAL GEOLOGY (GEOL 1404)

The earth and its inhabitants as revealed in rocks and fossils. Brief survey of the plant and animal kingdoms, elementary principles of stratigraphy and a systematic study of the development of the earth from its origin as a planet to the present. Lab required. Prerequisite: GEOL 191 or consent of instructor. 4 credit hours.

GEOL 193 Rocks and MINERALS IDENTIFICATION (GEOL 2409)

The chemistry, classification, crystallography, identification and occurrence of minerals. The formation, classification and identification of igneous, sedimentary and metamorphic rocks will also be covered. This course is intended primarily for geology majors. Prerequisite: GEOL 191. Lab required. 4 credit hours.

GERMAN

GERM 191 BEGINNING GERMAN I (GERM ! 4 1 1)

Introduction to the four basic skills of speaking, reading, writing and listening, designed for students with little or no previous language training. Also includes attention to German civilization. Instruction enhanced by the use of tapes, slides, computer software and video cassettes. Lab required 4 credit hours.

GERM 192 BEGINNING GERMAN !! (GERM 1412)

Continuation of German 191 with an emphasis on the reading of elementary texts. Prerequisite: GERM 191 or equivalent. Lab required. 4 credit hours.

GERM 291 INTERMEDIATE GERMAN (GERM 2311)

Review and continued development of the four basic language skills with increased attention to reading and writing. Instruction enhanced by the use of tapes, slides and other audio-visual aids. Prerequisite: GERM 192 or consent of discipline coordinator. 3 credit hours.

GERM 292 INTERMEDIATE GERMAN II (GERM 23 1 2)

Continuation of German 291. Prerequisite: GERM 291.3 credit hours.

GERM 293 CONVERSATIONAL GERMAN I (GERM 1100)

Intensive practice in conversational German. Prerequisite: GERM 192 or consent of discipline coordinator. Co-requisite: GERM 291. 1 credit hour.

GERM 294 CONVERSATIONAL GERMAN ! (GERM III)

Continuation of German 293, intensive practice in conversational German. Prerequisite: GERM 293. Co-requisite: GERM 292. 1 credit hour.

HEALTH, PHYSICAL EDUCATION AND **D**ANCE

HPED 101 Introduction to Physical Education (PHED 1301)

Designed **as a** career orientation in health, physical education **and** recreation The history, philosophy and principles including teacher qualifications, vocational opportunities and skills testing are emphasized. 3 credit hours.

HPED 103 PERSONAL HEALTH (PHED 1304)

Provides an in-depth look at the basic principles of maintaining good health throughout life. The topics cover all aspects of personal health such as mental, consumer and environmental health; physical fitness, nutrition and drug education. 3 credit hours.

HPED 104 Sports Officiating (PHED 1308)

Knowledge and practice in officiating volleyhall, basketball and other appropriate sports are stressed. Students are expected to officiate tournaments and intramural games. Lab required. 3 credit hours.

HPED 106 SAFETY AND FIRST AID (PHED 1306)

Students learn to recognize, evaluate and prioritize the first aid needs of individuals in emergency situations. Lectures, demonstrations and practical experience provide qualified students with American Red Cross certification. 3 credit hours.

HPED I IS ARCHERY (PHED I 115)

Provides instruction in the basic techniques, **rules** and scoring. The history and terminology of archery are also investigated. 1 credit hour.

HPED 116 BADMINTON (PHED 1116)

History, rules, basic strokes and strategies in singles and doubles play are emphasized through intra-class competition. 1 credit hour.

HPED 1 17 BEGINNING TENNIS (PHED 1117)

Introduction to the rules, scoring and fundamental techniques for beginners are stressed. Participation by skill level for singles and doubles play is made to ensure vigorous activity for fitness. 1 credit hour.

HPED 118 INTERMEDIATE TENNIS (PHED 1118)

Develops and improves each skill level in sewing, forehand and backhand drives, lobs and volleys. Performance strategies for both singles and doubles are drilled. Prerequisite: HPED 117 or consent of instructor. 1 credit hour.

HPED I 19 ADVANCED TENNIS (PHED I 119)

Emphasizes advanced techniques and strategies for the **competitive tennis** player. Provides theory and practice drills for advanced players who ultimately compete in singles and doubles tournaments. Prerequisite: **HPED** 118 or consent of instructor. 1 credit hour.

HPED 120 BEGINNING RACQUETBALL (PHED 1120)

Instruction in **rules** and basic skills. Develops the fundamental **techniques of** court play for beginners. Participation by skill level assures vigorous activity to develop cardiovascular fitness. I credit hour.

HPED 12 I INTERMEDIATE RACQUETBALL (PHED 1 12 1)

Drills in serving, forehand **and** backhand drives, kill shots. **Z** shots **and** lobs help develop strategies for singles and doubles play. Prerequisite: HPED **120** or consent of instructor. 1 credit hour.

HPED 122 ADVANCED RACQUETBALL (PHED 1122)

Advanced drills for competitive racquetball players stress techniques and strategies needed for tournament competition. Prerequisite HPED 121 or consent of instructor. 1 credit hour.

HPED 123 Beginning Golf (PHED 1123)

Basic fundamentals, knowledge of the history, terminology and **scoring of** golf **are** stressed. 1 credit hour.

HPED 124 INTERMEDIATE GOLF (PHED 1124)

Advanced skill techniques and strategies of golf are developed. Prerequisite: HPED 123 or consent of instructor. 1 credit hour.

HPED 126 BowLing (PHED 1125)

Ball selection, stance, four step approach, rules and scoring procedures are taught. Emphasis is placed on game situations. 1 credit hour.

HPED 130 BEGINNING AEROEIC DANCE (DANC 1171)

Level of physical fitness is improved through rhythmic dance routines, stretching, muscular strengthening and other aerobic activities. Heart rate, weight and nutritional status are monitored. 1 credit hour.

HPED 13 | INTERMEDIATE AEROBIC DANCE (DANC | 172)

Further toning and trimming of the body is obtained through vigorous exercise routines, stretching, muscular strengthening and other aerobic activities. Heart rate, weight and nutritional status are monitored. Prerequisite: HPED 130 or consent of instructor. 1 credit hour.

HPED 132 Advanced Aerobic Dance (DANC 1173)

An accelerated aerobic conditioning program for advanced fitness students, Advanced exercise routines with weights are choreographed to music to maintain or increase cardiovascular endurance, flexibility and strength. Prerequisite; HPED 131 or consent of instructor. 1 credit hour.

HPED 133 BEGINNING MODERN DANCE (DANC 1145)

An introduction to the art and discipline of modern dance through analysis of dance techniques, exploration and composition development. 1 mdit hour.

HPED 135 BEGINNING JAZZ DANCE (DANC 1147)

A practice in basic jazz movements including isolations, elementaryjump and turns. Participation io choreographed combinations using different rhythmic structures is also included. 1 credit hour.

HPED 136 INTERMEDIATE JAZZ DANCE (DANC 1148)

Further practice in **jazz** movements including intermediate isolations, **jumps** and turns. Participation in choreographed combinations using moderately complex rhythmic structures. 1 credit hour.

HPED 137 BEGINNING BALLET (DANC | | 4 |)

Student develops elementary ballet technique and knowledge ofterminology through participation in barre, center work and beginning movement combinations; emphasis **on** alignment. 1 credit hour.

HPED 138 INTERMEDIATE BALLET (DANC 1142)

Further practice in ballet technique through participation in barre, center work and basic enchainments. Prerequisite: HPED 137 or consent of instructor. I credit hour.

HPED 139 FOLK DANCE (DANC | 122)

Analysis of cultural backgrounds, costumes **and** dance techniques leads to participation in a variety of folk dances. 1 credit hour.

HPED 140 BEGINNING WEIGHT TRAINING AND CONDITIONING (PHED 1100)

An introductory course in weight training and body building to learn the basic techniques for **strength** development **and** cardiovascular conditioning. **The** use of the universal weight machine, **free** weights, dumbbells, bicycle ergometers, rowing machines and a treadmill are utilized to establish individual fitness program. 1 credit hour.

HPED 141 INTERMEDIATE WEIGHT TRAINING AND CONDITIONING (PHED 1102)

Advanced techniques in strength development and cardiovascular conditioning assists individuals in establishing their own fitness program. Prerequisite: HPED **140** or instructor's permission, 1 credit hour.

HPED I 42 Advanced Weight Training and Conditioning (PHED I 103)

Weight training program tailored to the individual who has experience in proper techniques and conditioning and wants to continue in an excelled program. Prerequisite: HPED 141 or consent of instructor. 1 credit hour.

HPED 143 BEGINNING JOGGING AND FITNESS (PHED | 104)

Develops cardiovascular endurance, flexibility and strength through jogging, stretching and weight training. Physical fitness assessment leads to development of an individual fitness program. 1 credit hour.

HPED 144 INTERMEDIATE JOGGING AND FITNESS (PHED 1105)

An accelerated fitness program structured for further improvement in cardiovascular endurance, flexibility and strength. Prerequisite: HPED 143 or instructor's permission. 1 credit hour.

HPED I45 WALKING AND FITNESS (PHED I 106)

The student will improve cardiovascular, muscle toning and flexibility through a vigorous walking and conditioning program. 1 credit hour.

HPED 146 CYCLING (PHED I 107)

An introductory course in cycling to learn the basic **techniques** of bicycling and improve cardiovascular conditioning. Students are **required to** have their **own** bicycle. **1** credit hour.

HPED 148 Cross Training I (PHED 1 108)

Extensive course offering training techniques and strategies for multi-sport aerobic activities. Involves a weight training program specifically designed to build strength and a running program that will include intervals, hills and speed work for the cross training athlete. Consument enrollment in HPED 149 recommended. 1 credit hour.

HPED 149 Cross Training !! (PHED 1109)

Extensive come offering training techniques and strategies for multi-sport aerobic activities. Involves competitive swimming and cycling workouts emphasizing technique and improvement. **Students** are required to have their own bicycle. Concurrent enrollment in HPED 148 recommended. 1 credit hour.

HPED 150 BASKETBALL(PHED I I I I)

Fundamental skills and strategies are reviewed through knowledge of the history, rules, terminology. Student6 then participate in game situations, 1 credit hour.

HPED 152 Soccer (PHED 1112)

Develops the basic skills and strategies through knowledge of the history, rules and terminology are taught along with participation in game situations. 1 credit hour.

HPED 154 SOFTBALL (PHED 1113)

Fundamental skills including throwing, batting, fielding and base nunning as well as knowledge of the rules and terminology are emphasized along with participation in game situations. 1 credit hour.

HPED I56 VOLLEYBALL (PHED I / 14)

Individual skills and techniques, application of rules and an introduction to offensive and defensive strategies are stressed in this come. 1 credit hour.

HPED 160 BEGINNING SVVIMMINGPHED | 131)

Non-swimmers and beginners are taught basic swimming skills and strokes. Personal safety skills and confidence in the water are emphasized 1 credit hour.

HPED I6 I INTERMEDIATE SWIMMING (PHED 1132)

Includes further stroke development in front and back crawl, si& stroke, breast stroke, diving and some competitive swimming techniques. Development of cardiovascular endurance is stressed through lab swimming.

Prerequisite: HPED 160 or instructor's permission. 1 credit hour.

HPED 163 Advanced Life Saving (PHED I 134)

Skills, methods and techniques involved in lifesaving and water safety are reviewed. Successful completion leads to American Red Cross Lifesaving Certification. Prerequisite: Ability to swim 500 yards continuously using following strokes—back, breast, crawl and side, or HPED 161.1 credit hour.

HPED 164 WATER SAFETY INSTRUCTION (PHED 1135)

Successful completion of the course allows the student to take the **standard**ized test given by the American Red **Cross** examiners for certification &(a water instructor. Prerequisite: Current American Red Cross Senior Lifesaving Certificate. I credit hour.

HPED 165 BEGINNING SCUBA (PHED I ISI)

The course is divided into academic training and confined-water training. All equipment is supplied except mask, fins, boots and snorkel. Students completing course requirements are eligible to perform the open wata training for Professional Association of Diving Instructors (PADI) certification as a basic scuba diver (not a course requirement). Permission of HPED coordinator required. 1 credit hour.

HPED 166 ADVANCE OPEN-WATER SCUBA (PHED | 152)

Advance open-water scuba combines advance scuba techniques and rescue diving. Scuba techniques include natural and compass navigation as well as night and deep water diving. The rescue diving techniques include rescue diver exercises in water emergency management and diving first aid.

Prerequisite: Permission of HPED coordinator required. 1 credit hour.

HPED 170 SELF DEFENSE (PHED 1126)

A basic understanding and practical application of fundamental self defense techniques through physical conditioning includes balance, focus, breath control, block and counter, avoiding attack, striking, thrusting and kicking, 1 credit hour.

HPED I71 BEGINNING KARATE (PHED 1127)

Introduction to basic techniques, formal exercises and sparring techniques for the beginner, 1 credit hour.

HPED I72 WRESTLING (PHED I 130)

Introduces basic skills, knowledge of rules, techniques and physical conditioning so that offensive maneuvers, defensive maneuvers and pinning combinations can be drilled. 1 credit hour.

HPED I73 INTERMEDIATE KARATE (PHED I 128)

Intermediate skills and techniques of karate. I credit hour.

HPED 180 Dance Performance (DANC | 151)

Experience in rehearsal, production and performance. Permission of the instructor is required. 1 credit hour.

HPED 184 IMPROVISATION (DANC 1201)

An exploration of movement in dance and design through problem solving activities leading to choreographic studies. 1 credit hour.

HPED 186 POPULAR SOCIAL DANCE (DANC ! 131)

Practice io contemporary social dances including pop/rock and country western forms. 1 credit hour.

HPED 187 BEGINNING TAP (DANC 1110)

Performance of basic rhythms and techniques fundamental to beginning tap dance. 1 credit hour.

HEALTH SCIENCE

HLSC 132 MEDICAL TERMINOLOGY

Study of the basic structure of medical words. Included arc prefixes, suffixes, roots, combining forms and plurals. Emphasis on pronunciation, spelling and definition. Basic understanding of human anatomy and physiology and the terms relating to these and their medical applications are emphasized. 3 credit hours.

HLSC 191 GENERAL NUTRITION (BIOL 1322)

Study of **nutrients** and nutritional processes including functions, food sources, digestion absorption and metabolism with application to normal and therapeutic human nutritional needs. 3 credit hours.

HISTORY

HIST 151 U.S. HISTORY 1 (HIST 1301)

History of the United States is presented focusing on the development of American characteristics and institutions; the forging of a new society from European, African and American cultures. Emphasis on the colonial and early national periods through the Civil War and Reconstruction. HIST 151 and HIST 152 fulfill the Texas legislative requirement for 6 credit hours of history for baccalaureate degrees. Lab required. 3 credit hours.

HIST 152 U.S. HISTORY 11 (HIST 1302)

History of the United States from 1877 to the present day. Focus is on the development of American society in the twentieth century; response to the urban-industrial environment, the United States as a world power and post-World War II society. This course and HIST 151 fulfill the Texas legislative requirement for 6 hours of history for baccalaureate degrees. Lab required. 3 credit hours.

HIST 251 WESTERN CIVILIZATION I (HIST 2311)

A survey of European civilization from ancient times to the Renaissance. Topics include Greece and Rome, the Church, feudalism, the commercial revolution, the Reformation and early colonial movement Lab required 3 credit hours.

HIST 252 WESTERN CIVILIZATION II (HIST 23 | 2)

Continuation of History 251. **Western** Europe is surveyed from the Renaissance to the present. Topics include the Age of Revolution, the **beginning** of industrialism, the growth of nationalism and democracy in the 19th century, causes and consequences of the two world wars and modem Europe. Lab required. 3 credit hours.

HIST 253 HISTORY OF TEXAS (HIST 2301)

History of Texas **from** the Spanish period to the present. Emphasis **on** the period of Anglo-American settlement, revolution, Republic and the development of the modern state. 3 credit hours.

HIST 297 Studies in U.S. History (HIST 2370)

A treatment of selected topics in the history of the United States. This course may be repeated for credit only when the course focuses on new topics.

Prerequisite: HIST 151,152. Lab required, 3 credit hours.

HIST 298 ADVANCED STUDIES IN U.S. HISTORY (HIST 2371)

Indepth **study of** selected topics in minority, local, regional, national or international topics. **This** course may be repeated for credit only **when** the course focuses **on** new topics. **Prerequisite:** HIST 151,152. Lab required. 3 credit hours.

HORTICULTURE/LANDSCAPE TECHNOLOGY

HLT I IS NATIVE PLANTS OF TIEXAS

A non-majors course devoted to the study **of** those plants which are considered native to the state of Texas. Includes identification and landscape use of native plants, and the concept of xeriscape. Lab required. 3 credit hours.

HLT I 16 PLANTS OF NORTH TEXAS

A non-majors course devoted to the study of those plants used in the north Texas area, including trees, shrubs, groundcovers, vines and flowers. Includes identification, use and maintenance of plants. Lab required. 3 credit hours.

HLT 117 INTERIOR PUNTS

Students are introduced to plants which are utilized in interior landscapes and the special maintenance required. Particular attention is given to light and water requirements, temperature control, planting media and design of interior plantings. Prerequisite: HLT 190 or consent of instructor. Lab required. 3 credit hours.

HLT 125 Soils AND PLANT NUTRITION

The study of different soil types and how they affect the availability of nutrierts. Emphasis on making and keeping the soil healthy, proper drainage, and organic and inorganic properties in a soil. Includes the study of organic and inorganic fertilizers, soil additives, organic matter, proper horticultural practices and the role of micro and macro-organisms in the soil. Prerequisite: HLT 190. Lab required. 3 credit hours.

HLT 126 PLANT PESTS AND CONTROLS

A comprehensive course in the pests that inhibit plant growth and **produc**tion and the methods used to control them. Includes biological, chemical and integrated pest management (IPM) programs. Emphasis on beneficial insects, fungi and bacteria. Prerequisite: HLT 190. Lab required. 3 credit hours.

HLT 140 TURF-GRASS SCIENCE AND MANAGEMENT

Introduction to turf-grass science and management. Characteristics of turf-grasses, identification and culture are studied Modem management practices are explained, including installation, renovation and maintenance. Identification and control of diseases and insects that affect turf-grasses will also be studied. Lab required. 3 credit hours.

HLT 190 BASK HORTICULTURE

Introduction to the **culture** of plants, including their distribution, **factors** which affect growth, plant structures, propagation and the impact of plants on the environment and the economy. Lab required. 3 credit hours.

HLT I 91 WOODY PLANT MATERIALS

The study of the woody plants collected or grown for use in the landscape industry, with an emphasis on the north Texas area. Includes trees, shrubs, woody vines and ground covers. Prerequisite: HLT 190. Lab required. 4 credit hours.

HLT 192 HERBACEOUS PLANT MATERIALS

The study of non-woody ground covers and vines, and annual and perennial flowers cultivated or collected for use in the landscape industry, Prerequisite: HLT 190. Lab required. 4 credit hours.

HLT 210 Introduction to Landscape Design

An introductory course covering the history, basic drawing skills, graphic communication, site planning and the elements of landscape design. Prerequisite: HLT 190. Lab required. 3 credit hours.

HLT 21 I HOME LANDSCAPE DESIGN

Intensive course in landscape design. Emphasis on proper plant selection Introduction to the development of the design beyond the conceptual stage, and general construction details. Prerequisite: HLT 210. Lab required. 4 credit hours.

HLT 220 IRRIGATION SYSTEMS

A comprehensive study of incigation systems including equipment, design and performance. Includes residential and commercial applications.

Prerequisite: HLT 190 or consent of instructor, Lab required. 3 credit hours.

HLT 225 LANDSCAPE CONSTRUCTION

Construction materials and their uses in the landscape industry, including soil preparation, wood. concrete and masonry construction, landscape lighting, pools and \$pas, and general construction details. Prerequisite: HLT 190,191 and 192. Lab required. 4 credit hours.

HLT 230 SITE ANALYSIS AND SURVEYING

Analyzing a site to determine existing structures, plane, grades and potential problems. Emphasis on surveying, measurement and the mapping of existing conditions. Includes correct record keeping and area measurement. Prerequisite: HLT 190, Lab required. 4 credit hours.

HLT 235 LANDSCAPE BUSINESS OPERATIONS

Detailed study of the structure of the landscape business including cost estimating, organization, equipment needs, interpretation of financial reports, marketing, and labor and equipment management. Emphasis an the different types of landscape operations, marketing, sales presentations, legal forms and contracts, construction law and safety. Prerequisite: HLT 190. Lab required. 4 credit hours.

HLT 250 Nursery AND GREENHOUSE PRODUCTION

The study of the production of nursery crops in the field, containers and greenhouse for use in the landscape industry. Includes equipment, materials, structures, management, financial considerations and marketing related to nursery production. Emphasis on field and outdoor container crops.

Prerequisite: HLT 190, 191 and 192. Lab required. 4 credit hours.

HLT 260 LANDSCAPE MAINTENANCE

An introduction to landscape maintenance practices, including the proper care of trees, shrubs and turf. Includes organic and inorganic fertilization and pest control. Emphasis also placed on cost analysis, estimating and safety. Prerequisite: HLT 190, 191 and 192. Lab required. 3 credit hours.

HLT 261 LANDSCAPE MAINTENANCE !!

A continuation of landscape maintenance, with emphasis on specialized maintenance programs with special problems. Small engine troubleshooting and repair included. Prerequisite: HLT 125 and HLT 260. Lab required. 3 credit hours.

HLT 265 PLANT PROPAGATION

The principles and practices of sexual and asexual plant propagation, including grafting, budding, layering, cuttings and seed germination. Soil mixes, plant structures and the equipment and facilities for proper plant propagation discussed. Introduction to tissue culture. Prerequisite: HLT 190, 191 and 192. Lab required. 4 credit hours.

HLT 270 ARBORICULTURE

Proper care of trees including pruning, spraying, fertilizing, protection during construction and removal of dead or deseased trees. Continued study of pests which attack trees, and the tools and equipment utilized by arborists included. Prerequisite: HLT 190, 126. Lab required. 4 credit hours.

HLT 275 FLORICULTURE

Production of greenhouse crops, including flowering plants, herbs and interior plane. Emphasis on historical development, growing requirements and the marketing of greenhouse produced plants. Prerequisite: HLT 250. Lab required. 3 credit hours.

HLT 280 VITICULTURE

Growing of grapes for commercial uses, including the wine industry. Special attention given to varietal selection, proper watering, fertilizing, pruning and soil requirements for grape growing. Prerequisite: HLT 190. Lab required. 3 credit hours.

HLT 290 FIELD EXPERIENCE I

On-the-job experience in a work assignment related to student's field of study. Credit is earned for completion of specific learning objectives and participation in an arranged weekly seminar. Students must week 20 hours per week and be concurrently enrolled in another horticulture course at CCCC. Prerequisite: HLT 190,191, 192 and/or Consent of the coordinator. 3 credit hours.

HLT 29 | FIELD EXPERIENCE |

Continuation of supervised on-the-job training related to student's field of study. New learning objectives are established with continued participation in seminar, 20 hours per week employment and concurrent enrollment in another horticulture course at CCCC required. Prerequisite: HLT 290. Lab required 3 credit hours.

HLT 293 SUMMER INTERNSHIP

Intensive on-the-job training during a continuous three month **period**, required of all landscape technology majors. Students will have hands-on experiences in the landscape field and will be required to keep a journal of their experiences. Prerequisite: Consent of discipline **coordinator**. 4 credit hours.

HLT 296 HORTICULTUREAND LANDSCAPE TECHNOLOGY SEMINAR

A topic will be presented and a discussion led by each student during the semester. Topics based on the nursery and landscape industry. Credit based on presentation, class participation and a written paper. May be repeated for credit. Prerequisite: HLT 190 and concurrent enrollment in another HLT course at CCCC. 1 credit hour.

HUMAN DEVELOPMENT

HDEV 010 STUDY SKILLS

Designed to help the student improve study habits and skills. Student assesses learning style, study habits and attitudes toward study. Explores methods and techniques of effective study. Specific approach to studying will be developed by each student utilizing individual preferences. Opportunity provided to practice study skills enhancing the rate of learning. (This course may not be used to satisfy the requirements of an associate degree.) 2 credit hours.

HDEV 030 COLLEGESTUDY SKILLS

Designed to assist the student in **gaining** skills and information necessary to nach his/her educational Objectives. **Sutndets** will learn about resources, programs and services at CCCC. 1 credit hours.

HDEV 102 DEVELOPING LEADERSHIP POTENTIAL

Develops leadership skills. Topics include leadership style, leadership strategies, problem-solving, decision-making, communication. value systems and methods of working with *groups*. Concepts of leadership are explored through both theory and practice. These leadership skills can be applied through the student's personal, professional and business interactions. 3 credit hours.

HDEV 103 CAREER PLANNING AND DEVELOPMENT

Career choices will be explored in relation to interests, value, skills and abilities. Career assessment and exploration of occupational opportunities will be studied through group and independent study activities. Long and short range caner development strategies will be established. Computerized career guidance will be explored on campus, 2 credit hours.

HDEV 105 PERSONAL DEVELOPMENT

Designed to help the student increase Self-eatem, set personal goals that lead to greater motivation and success, and to develop a satisfying lifestyle. Components of a healthy lifestyle will be presented. Problems concerning college survival, educational goals, motivation, interpersonal relationships, societal influences and personal roles will be explored 2 credit hours.

HUMANITIES

HUM 151 INTRODUCTION TO THE HUMANITIES (HUMA 1301)

Designed to achieve a clearer understanding of the nature of man and his need to create. Explores the relationship between one's own values, feelings, attitudes and ideas and man's cultural achievements. 3 credit hours.

INTERIOR DESIGN (COMPUTERAIDED DRAFTING)

IND 121 APPLIED INTERIOR DESIGN I

Provides information in planning interior floor plans an elevations with consideration traffic flow and room functions. Included is planning of traditional as well as contemporary interiors, multiple design solutions; coordination of schemes, styles and furnishings ranging from the single dwelling to the business and recreational complex. Prerequisite: CIS 121 and ART 193.3 credit hours.

IND 221 APPLIED INTERIOR DESIGN !!

Will apply knowledge and skills from IND 121 to advanced solutions to special problems of commercial and residential interiors, working drawings, specifications and client-designer communications. Prerequisite: MD 121.3 credit hours.

IND 222 APPLIED INTERIOR DESIGN III

Designed to help the interior design student who is in the final semester prepare a portfolio of professional quality. The portfolio will be critiqued on a professional basis. Prerequisite: IND **221.** Lab **required 3** credit hours.

JAPANESE

JAPN191 BEGINNING JAPANESE I (JAPN 1411)

An introduction to the basic skills of speaking, reading, Writing and listening with attention to selected aspects of Japanese culture. Lab required 4 credit hours.

JAPN 192 BEGINNING JAPANESE II (JAPN 1412)

A continuation of **JAPN** 191. Prerequisite: JAPN **191. Lab** required. **4** credit hours.

JOURNALISM

OUR 151 INTRODUCTION TO Ass Communication (COMM 1907)

A study of the mass media in the United Sates with emphasis on newspapers, magazines, radio and television, history of the mass media and the role and responsibility of the mass media in modem society. 3 credit hours.

JOUR 152 News GATHERINGAND WRITING I (COMM 2311)

Extensive practice in writing various stories in the areas of international, national and local news, sports, business, lifestyles, etc. Prerequisite: ENGL 152 or consent of instructor. Lab required 3 credit hours.

JOUR 153 News GATHERING AND WRITING II (COMM 2315)

Continuation of JOUR 152 with emphasis *on* more advanced reporting techniques such **as** complex stories, follow-up stories, features and profiles. Prerequisite: JOUR **152.** Lab required. **3** credit hours.

JOUR 251 SURVEY OF BROADCASTING (COMM 1335)

Study of the historical, theoretical and technical development of broadcast journalism. Emphasis on social, political, economic and ethical aspects of the broadcast industry. 3 credit hours.

LEGAL ASSISTANT

LEGL 130 BASIC LEGAL STUDIES

Law, what is it? Lawyers and legal assistants, what can they do for me?

Courts, how are they related to each other? These questions and many more will be explored in this introductory course designed for anyone who has little or no background in law or its various professions. A practical course providing 1) an overview of various areas of law commonly encountered during one's lifetime; and 2) concentrated study of the duties and responsibilities common to various legal professionals, such as legal assistants, lawyers and judges.

LEGL 131LAW AND JUDICIAL SYSTEMS

An introduction to the history of American law, law of evidence, civil and criminal procedure, and to various areas of both civil and criminal substantive law. Study of various personnel in the legal field, the unauthorized practice of law and legal ethics. Prerequisite: LEGL 130. Lab required. 3 credit hours.

LEGL 132 LEGAL RESEARCH

Fundamentals of legal bibliography and legal research. Practical **research** problems utilizing legal **books** and **sets** of **books**. Techniques of legal analysis. Samples of various legal writings will be prepared by students. **Lab** required. 3 credit hour.

LEGL 135 LAW OFFICE MANAGEMENT

Ethical considerations, office organization, specialized bookkeeping and accounting for attorneys, fees and billing procedures, scheduling and calendaring, management of personnel, proofreading, management of investigations and file preparation, legal drafting, management and organization procedures for specialized areas of law, special considerations with respect to attorney's trust account, preparation of law office forms. checklists and files, and disbursement on behalf of clients. 3 credit hours.

LEGL 230 CIVIL PROCEDURE

Overview of civil litigation in both state and federal courts with particular emphasis on the areas in which a legal assistant can assist the trial attorney. Particular attention is paid to preparation for litigation, discovery procedures (intercogatories, requests for admissions, depositions and documents production), pre-trial proceedings and trial. Preparation of various legal documents will be required. Lab required. 3 credit hours.

LEGL 237 Texas LEGAL SYSTEMS

Review of the court system of **Texas**, review of the American Judicial System touching **on** its historical background, introduction to the Federal Court Systems and legal practices and how they relate to **courts** and **court** administration. 3 credit hours.

LEGL 238 LAW OF DEFENDANTS AND POLICE RELATIONSHIPS

A study of the Constitutional tensions between the rights of individuals accused by police of criminal violations and the rights of society to police protection from criminal activity of others. A study of civil rights actions against police. 3 credit hours.

LEGL 242 Personal Property, Sales and Credit

introduction to elements of the law of personal property, contracts, legal research projects. forms related to law of sales and credit transaction, and survey of the Uniform Commercial Code. 3 credit hours.

LEGL 25 I FAMILY LAW

Mamage, separation, adoption, divorce, custody, legitimacy, support and other related legal topics. Emphasis on Texas law: Texas Family Code, community property and case law. 3 credit hours.

LEGL 252 WILLS, TRUSTS AND PROBATE

Fundamental principles of wills **and trusts**. The organization and jurisdiction of the Texas Probate Court, analysis of the administration of estates in Texas Probate, guardianships and independent administration of decedents' estates, and a review of estate and inheritance taxes. 3 credit hours.

LEGL 26 I BUSINESS ORGANIZATIONS

The legal structure of business organizations; corporations, joint stock companies, common law contracts, professional associations, proprietorships, limited partnerships and partnerships, 3 credit hours.

LEGL 262 TORT AND INSURANCE LAW

Fundamental principles of the law of tort and insurance. Includes a study of the research and investigation techniques necessary for tort and insurance negotiation, settlement and litigation Some governmental insurance programs will be covered. 3 credit hours.

LEGL 263 INCOME TAXATIONAND LEGAL ACCOUNTING

Federal, state and local income tax of individuals and tax-paying entities such as estates, trusts and corporations. Introduction to accounting as it relates to legal problems. Prerequisite: Consent of inshuctor. 3 credit hours.

LEGL 264 BUSINESS LEGAL ENVIRONMENT

Role of law in business and society. legal reasoning, sources of law, social policy and legal **institutions**, antitrust, security regulations, consumer protection, environmental law, worker health and safety, employment discrimination, etc. 3 credit hours.

LEGL 700 COOPERATIVE EDUCATION

Designed to integrate on-campus classroom study with hands-on work experience. The student, the student's supervisor and the instructor coordinator will establish five specific goals for the student to accomplish. Also required one hour per week of lecture, 3 credit hours.

MARKETING

MRKT 122 FASHION MARKETING

Introduction into the field of **fashion** through the examination of **modem** merchandising techniques. Cumnt trends and developments are covered, as well as the history of **fashion** merchandising. 3 credit hours.

MRKT 126 FASHION DESIGN

A basic course providing a background of knowledge specific to the **fashion** designer's **job** and **responsibilities**, its history and the relationship of apparel design to human needs from an industrial point of view. Custom **design**, design **for mass**, line production, coordination, selection, color and texture are covered. **There** is **no** sewing involved in this course. 3 credit hours.

MRKT 220 FASHION BUYING

Covers the responsibilities of a buyer. Sources of buying information, selection of fashion merchandise, methods of inventory, elements of profit, pricing, markup and markdown are studied. Economic issues relating to domestic versus offshore apparel goods are researched. 3 credit hours.

MRKT 221 MARKET RESEARCH

Research techniques applied to problems of measuring market and sales potential, allocation of territories, demand for goods, consumer purchasing power, sales forecasts. Students learn use of library and other secondary sources, survey research and design of questionnaires, fundamentals of sampling and data analysis. 3 credit hours.

MRKT 222 PRINCIPLES OF SELLING

Students learn and practice selling techniques including outside and inside sales, telemarketing, presentations, reaching decision makers, closing sales, after-sals evaluations, and understanding buyers and consumers. 3 credit hours.

MRKT 223 Business Ethics

Ethical implications of current issues. Ethical and fmancial problems in operating businesses (locally, nationally, internationally) are addressed. The course emphasizes social responsibility of business as will as ethical dilemmas of bath buyers and sellers. 3 credit hours.

MRKT 224 Promotion Techniques

Methods in how to manage promotion budgets, motivate and reward sales personnel, as well as construct and manage complete promotion programs. Emphasizes the interaction and coordination of promotional planning, implementation and evaluation with an organization's overall marketing strategy. 3 credit hours.

MRKT 225 FASHION SHOW PRODUCTION

Production of an actual fashion show, including lighting, community involvement, marketing, modeling, apparel selection, set design, crew organization, election primary target market Offered only in spring semesters. 3 credit hours.

MRKT 226 International Marketing

Introduction to marketing in an international, multicultural environment, Emphasis on cultural, corporate, and political differences and interactions in business milieu internationally. Instructor permission required. 3 credit hours.

MRKT 227 PRINCIPLES OF ADVERTISING

Introduction to the principles, practices and media of persuasive communication. Topics include buyer behavior, use of media and ad agency operations. 3 credit hours.

MRKT 228 Principles OF MARKETING

The scope and structure of marketing are examined. Marketing functions, consumer behavior, market research, sales forecasting, and relevant state and federal laws are analyzed. 3 credit hours.

MRKT 297 MARKETING SPECIAL TOPICS

In-depth study of selected topics on current issues in marketing and marketing options. Course may be repeated for credit as topics vary. Instructor permission required. 3 credit hours.

MRKT 700 COOPERATIVE EDUCATION

Designed to help the student integrate **classmom** knowledge with work experience. The student, the student's supervisor and the **inshuctor** will coordinate a set of goals for the student to accomplish 3 credit hours.

MRKT 705 COOPERATIVE EDUCATION !!

Designed to help the student integrate classroom knowledge with **work** experience. The student, **the** student's supervisor **and** the **instructor** will coordinate a set of goals for the student to accomplish. Prerequisite: **MRKT** 700.3 credit hours.

MATHEMATICS

MATHOIO DEVELOPMENTAL MATH

Review of basic arithmetic operations with whole numbers, fractions, decimals, percents, basic geometry and an introduction to algebra which includes signed numbers, expressions and equations. (This course may not be used to satisfy the requirements of associate degree.) Lab required 3 credit hours

MATH 020 DEVELOPMENTAL ALGEBRA

Review of signed numbers, expressions, equations, inequalities, polynomials, radicals, exponents, quadratics and graphing. (This course may **not be used** to satisfy the requirements for an associate degree.) Prerequisite: **MATH** 010 or equivalent. Lab required. 3 credit hours.

MATH 030 INTERMEDIATE ALGEBRA

Review of operations of polynomials, rational expressions, radicals, rational exponents, absolute value equations, quadratics, solutions of linear systems and inequalities, graphing, parabolas and functions. (This course may not be used to satisfy the requirements of an associate degree.) Prerequisite; MATH 020 or one year of standard high school algebra Lab quicks credit hours.

MATH 070 INTRODUCTORY GEOMETRY

An introductory course in plane and solid geometry required for students who have not passed the TASP geometry mathematics requirement or who have not passed high school geometry and plan to take trigonometry. (This course may not be used to satisfy the requirements for an associate degree.) Prerequisite: MATH 010 or equivalent. Lab required. 1 credit hours.

MATH 150 CONTEMPORARY MATHEMATICS (MATH 1332)

Intended for general liberal arts or non-engineering technical students. Topics include solving equations, graphs and functions, scheduling, circuits and other math topics in management science, counting methods. probability and consumer mathematics. Prerequisite: Two years high school algebra or equivalent within the last three years. 3 credit hours. 'Note: This course does not satisfy prerequisite for MATH 151 or MATH 181.

MATH 151 Pre-Calculus for Business AND Economics (MATH 1324)

Designed for non-math majors which includes a study of equations, inequalities, functions, matrices, linear programming including the simplex method, probability and statistics. Prerequisite: Two years high school algebra or equivalent within the last three years. Lab required 3 credit hours.

MATH 152 CALCULUS FOR BUSINESS AND ECONOMICS (MATH 1325)

A continuation of MATH 151; a study of finite differential calculus, finite integral calculus, including exponential and logarithmic functions, functions of several variables and basic differential equations. Prerequisite: MATH 151 within the last three years. Lab required. 3 credit hours.

MATH IS3 STATISTICS (MATH 1342)

Study of data collection and tabulation, measures of central tendency, correlation, linear regression, statistical distributions, probability and hypothesis testing with applications in various fields. Prerequisite: Two years of high school algebra or equivalent within the last three years. **Lab** required. 3 credit hours.

MATH 181 COLLEGE ALGEBRA (MATH 1314)

Study of relations and functions, including linear, polynomial, rational, exponential and logarithmic, inverse functions, composition of functions, absolute value, theory of equations, complex numbers, systems of equations, matrices, progressions and the binomial theorem. Prerequisite: Two years high school algebra and one year of high school geometry or Math 070 or equivalent within the last three years. 3 credit hours.

MATH 182 TRIGONOMETRY (MATH 1316)

Study of angular measure, functions of angles, identities, solution of triangles, equations, inverse trigonometric functions, complex numbers and polar Coordinates. Prerequisite: Two years of high school algebra and one year of high school geometry within the last three years. 3 credit hours.

MATH 183 ANALYTIC GEOMETRY (MATH 1348)

Study of lines. distance, conics, transformation of coordinates, polar coordinates, parametric equations and other selected topics. Prerequisite: MATH 181 and 182 or 4 years of standard high schwl math within the last three years. 3 credit hours.

MATH 187 PRE-CALCULUS FOR MATHEMATICS AND SCIENCE (MATH 2312)

Study of the algebra of functions and analytic **geometry**. Includes polynomial, rational, exponential, logarithmic and trigonometric functions, complex numbers, vectors, and the study of conics, transformation of coordinates, mtation of axes, polar cwrdioates and parametric equations. The emphasis will be on mathematical reasoning and problem solving in preparation for calculus. Prerequisite: Algebra I, Algebra II and Trigonometry or equivalents. Lab required. 3 credit hours.

MATH 191 CALCULUS I (MATH 2413)

Study of limits, continuity, the derivative, applications of the derivative. the indefinite and definite integral, and derivatives and integrals of trigonometric, logarithmic and exponential functions. Prerequisite: MATH 183 or MATH 187 or equivalent (high school analysis or pre-calculus) within the last three years. Lab required. 4 credit hours.

MATH 192 CALCULUS! (MATH 2414)

Study of calculus of inverse functions, hyperbolic functions, applications of integration, techniques of integration, infinite series, parametric equations and polar functions. Prerequisite: MATH 191 within the last three years. Lab required 4 credit hours.

MATH 291 CALCULUS 111 (MATH 2415)

Study of vectors in two and three dimensions, vector-valued functions, functions of several variables, multiple integration and the calculus of vector fields. Prerequisite: MATH 192 within the last three years. Lab required. 4 credit hours.

MATH 292 LINEAR ALGEBRA (MATH 23 18)

Study of linear equations, matrices, real vector spaces, linear transformations and eigenvectors. Prerequisite: MATH 192 within the last three years. 3 credit hours.

MATH 293 DIFFERENTIAL EQUATIONS (MATH 2320)

Study of ordinary differential equations including systems of equations, linear equations, separation of variables, series solutions, uniqueness of solutions, boundary value problems, transform methods and singular points. Prerequisite: MATH 192 within the last three years. 3 credit hours.

Music

MUS 140 Music Fundamentals (MUSI 1301)

An intuduction to the elements of music theory: scales, intervals, keys, triads, elementary ear training. keyboard harmony, notation, meter and rhythm. 3 credit hours.

MUS 145 Music of America (MUSI 1310)

General study of various styles of music in America topics to include **folk**, jazz, **pop**, rock and 20th century American composers. 3 credit hours.

MUS 150 CHOIR (MUS1 2143)

A wide variety of music representing the choral literature is studied and performed. This course may be repented for credit. 1 credit hour.

MUS 15 | Music THEORY | (MUSI 1311)

The basic elements of music. Emphasis is on notation, cadences, diatonic triads, scales and modes. Co-requisite: MUS 152. Lab required. 3 credit hours.

MUS 152 AURAL SKILLS ! (MUSI | 116)

Skills include sight-singing, ear training and keyboard harmony. Corequisite: MUS 151.1 credithour.

MUS 153 Music Theory II (MUS1 1312)

Concentrates on part-writing and harmonization with triads and their inversions. Prerequisite: MUS 151. Co-requisite: MUS 154. Lab required, 3 credit hours.

MUS 154 AURAL SKILLS II (MUS1 I I 17)

Skills of sight-singing, ear-training and keyboard harmony are further developed. Prerequisite: MUS 152. Co-requisite: MUS 153. 1 credit hour.

MUS 155 Cuss Voice (MUSI 1183)

Class instruction in the fundamentals of singing including breath support, correct vocal production and diction. For the non-music major. **This** course may be repeated for credit. 1 credit hour.

MUS 156 CLASS VOICE !! (MUS1 1184)

Continuation of Class Voice I. Prerequisite: MUS 155.1 credit hour.

MUS 157 Cuss Guitar (MUSI 1192)

Class instruction in the fundamentals of beginning guitar. For the non-music major. This course may be repeated for credit. 1 credit hour.

MUS 158 Cuss Guitar !! (MUSI ! 193)

Continuation of Class Guitar I employing advanced reading skills, chord structures and techniques. Prerequisite: MUS 157.1 credit hour.

MUS 160 BAND (MUSI 2124)

The band studies and performs a wide variety of music in all **mass** of baud literature. This course may be repeated for **credit 1** credit hour.

MUS 161 CLASS PIANO I (MUSI 1171)

Introduction to fundamentals of keyboard technique for the non-music major. May be repeated for credit. 1 credit hour.

MUS 162 CLASS PIANO II (MUSI 1172)

Continuation of Class Piano I (MUS 161) with emphasis on development of sight reading skills, repertoire and keyboard technique. May be repeated factored to credit 1 credit hour.

MUS 167 Introduction to Synthesizer (MUSI 1271)

Introduces the elements of sound synthesis and electronic music. Lecture and demonstration topics include basic waveform creation, basic sequencing and drum machines, MIDI and SMPTE and associated synthesizer technology. Lab required. 2 credit hours.

MUS 168 INTRODUCTION TO SYNTHESIZER ! (MUSI 1272)

Further study of the elements of sound synthesis, electronic music and computer control. Lecture and demonstration topics include timbre design and computer synthesis control. Prerequisite: MUS 167. Lab required 2 credit hours.

MUS 170 ENSEMBLE (MUSI 1131)

Small instrumental ensembles. Membership is through **audition by** the appropriate director. This course may be repeated for credit 1 credit hour.

MUS 180 MINOR VOCAL ENSEMBLES (MUSI 1159)

Any minor vocal ensemble, jazz choir, duct, trio, quartet. Membership is through audition by the appropriate director. This course may be repeated for credit. 1 credit hour.

MUS 181 Music Appreciation (MUSI 1306)

Understanding music **through** the study of cultural periods, major composers and musical elements. 3 credit hours.

MUS 191 APPLIED MUSIC MAJOR (MUSI 1173)

Private inshuction in the area of **the** student's concentration, consisting of one 50 **minute** lesson per week. Fee required. 1 credit hour.

MUS 251 Music THEORY III (MUSI 2311)

A continuation of music theory including the materials of modulation, larger forms and thematic development. Prerequisite: MUS 154. Co-requisite: MUS 252. Lab required. 3 credit hours.

MUS 252 AURAL SKILLS III (MUSI 21 16)

Aural study of superimposition, singing modulations to closely related keys, melodic and harmonic modulations, compound intervals. Prerequisite: MUS 154. Co-requisite: MUS 251. 1 credit hour.

MUS 253 Music THEORY IV (MUSI 2312)

A continuation of MUS 252 including melody, harmony, tonality and the formal processes of 20th century music. Prerequisite: MUS 251. Corequisite: MUS 254. Lab required, 3 credit hours.

MUS254 AURAL SKILLS IV (MUSI 2118)

Singing remote modulations and difficult melodies. Aural study of unusual and mixed meters; altered chords; 9th, 11th and 13th chords. Prerequisite: MUS 252 Co-requisite: MUS 253. 1 credit hour.

MUS 255 ARRANGING (MUSI 1386)

Class instruction in music arranging and composition. Techniques of transposition for various instruments, music transposition techniques including computer music printing, common notational practices and alternative scoring techniques are offered through lectures and analysis of existing scores. Prerequisites; MUS 153 and MUS 154 or demonstrated competence. Lab required 3 credit hours.

MUS 256 BEGINNING PIANO! (MUSI!181)

Fundamentals of keyboard technique. Suggested for music majora. **Level I.** May be repeated **through** Level IV for credit. Lab required. 1 credit hour.

MUS 257 BEGINNING PIANO II (MUSI 1182)

Fundamentals of keyboard technique. Suggested for music majors. **Level II**. May be repeated through Level IV for credit. Lab required. 1 credit hour.

MUS 258 BEGINNING PIANO !!! (MUSI 2181)

Fundamentals of keyboard technique. Suggested for music majors. Level III. May be repeated through Level IV for credit. Lab required. I credit hour.

MUS 259 BEGINING PIANO IV (MUSI 2 182)

Fundamentals of keyboard technique. Suggested for music majors. **Level IV.** May be repeated for credit. 1 credit hour.

MUS 260 Improvisation (MUSI 1263)

The creation of spontaneous melodic and harmonic ideas and the translation of these ideas into notation are emphasized. Using scales and modes, the instrumentalistimprovises on his nr her instrument, the vocalist utilizes scale singing techniques. Prerequisites: MUS 153 and MUS 154 or demonstrated competence. Lab required. 2 credit hours.

MUS 291 Music Literature I (MUSI 1308)

Study of selected works in music literahue from major periods of music history. Topics include texture, characteristics of sound, elements and development of music. Ancient, Renaissance, Baroque and Classical eras are studied. 3 credit hours.

MUS 292 Musk Literature II (MUSI 1309)

A continuation of MUS **291**. Emphasis is on Romantic, 20th century and popular music. 3 credit hours.

MUS 295 STUDIO TECHNOLOGY PRACTICUM (MUSI 2371)

A comprehensive study of the **theory** of studio, microphone and multi-track mix-down equipment **and** techniques, **to** include repair, maintenance and trouble-shooting, Prerequisite: COMM 151. Lab required. 3 credit hours.

MUS 297 PRACTICUM ELECTRONIC MEDIA (MUSI 2372)

This course reinforces by application and demonstration the theory and skills obtained in Survey of Recording Techniques I and II and Studio Technology with emphasis on audio production in the recording studio. Prerequisite: MUS 295 or demonstrated competence approved by instructor. 3 credit hours.

Nursing

NURS 147 Nursing I

Basic course m nursing on which all other courses build and expand. Introduction to the nursing process as a problem-solving method to develop the communicative and technical skills necessary to meet basic human needs. Concepts of illness, including the surgically induced, are introduced. Through content and selected clinical experiences, students develop the ability to plan and implement nursing care for all age groups and develop skills common to all patients. Basic concepts of nutrition, pharmacology, community health and mental health. Prerequisites: See Nursing Director. A grade of C or better is required to progress to NURS 148. Lab required. 8 credit hours.

NURS 148 Nursing 11

Advanced assessment skills. Application of family-centerednursing care with a focus on normal maternal and child health. Concepts of illness in all age groups include problems that alter mobility (musculo-skeletal system) and disturbances in feelings, thoughts and behaviors. Principles of nuhition, pharmacology and community health referrals. Prerequisites: See Nursing Director. A grade of C or better is required to progress to NURS 244. Lab required. 8 credit hours.

NURS 244 Nursing !!!

Theoretical content continues with disturbances in feelings, thoughts and behaviors and introduces interferences with basic human needs related to problems of the reproductive and gastrointestinal body systems. Intravenous therapy is included with principles related to the administration and complications. Clinical experience in a state mental health hospital is included as a follow-uptheory in mental health. Prerequisites: See Nursing Director. A grade of C or better is required to progress to NURS 259. Lab required. 4 credit hours.

NURS 259 Nursing IV

Theoretical content includes major health problems of all age groups. Theory focuses on the problems of clients with disturbances of the respiratory, urinary and circulatory systems. More complex approaches to the nursing process encourage students to assimilate and synthesize nursing care planning. Team nursing is presented as a method to meet nursing needs for groups of clients. Facilities used for laboratory practice include various community health agencies. Prerequisites: See nursing director. A grade of C is required to progress to NURS 269. Lab required. 9 credit hours.

NURS 269 Nursing V

A continuation of Nursing IV. Focuses on the problems of clients with disturbances of the nervous, endocrine, integumentary body systems, communicable diseases and the complex problems of burns. More complex approaches to the nursing process and team nursing encourage students to assimilate and synthesize nursing care planning and implementation and evaluation. Facilities used for laboratory practice include various community health agencies. Seminar sessions enable students to review professional, ethical and legal aspects of the responsibilities of the registered nurse. To prepare the student for the graduate role, a preceptorship of clinical practice is done in the hospital settings. Each student assumes the responsibilities of the graduate nurse under the supervision of a registered nurse. Prerequisites: See Nursing Director. A grade of C is required in order to graduate. Lab required. 9 credit hours.

OFFICE **A**DMINISTRATION

OFAD 120 BEGINNING TYPEWRITING

Beginning instruction for students with **no** previous typing instruction. Touch keyboarding techniques are developed: skills in centering, tabulating, formatting correspondence and formatting manuscripts **are** introduced. Lab required. 3 credit hours.

OFAD 121 INTERMEDIATE TYPEWRITING

Designed to increase speed and accuracy and improve typing production rate5 of business correspondence, tables, forms and reports. Prerequisite: OFAD **120** or one year of **high** school typing. Lab required. **3** credit hours.

OFAD 122 ADVANCED TYPEWRITING

Specialized instruction emphasizing mailable **production**of simulated office projects. Computers and interactive **software are** used for **speed** building **to** achieve individual speed and accuracy goals. Prerequisite: OFAD **121**, OFAD **223**. Lab required. **3** credit hours.

OFAD 126 BEGINNING SHORTHAND

Introduction to the principles of Gregg shorthand theory. Emphasis on ability to read, write and **transcribe** shorthand outlines. Prerequisite: OFAD **120.** Lab required. **3** credit hours.

OFAD I27 INTERMEDIATE SHORTHAND

Shorthand theory review: development of speed building and transcription skills, including emphasis on grammar and punctuation. Prerequisite: OFAD 126, OFAD 121. Lab required. 3 credit hours.

OFAD I31 RECORDS MANAGEMENT

Classifying documents using basic filing systems; selecting equipment and supplies; analysis and revision of files; survey of systems using electronics and micrographics. Lab required 2 credit hours.

OFAD 132 PROOFREADING/EDITING

Designed to **leam** proofreading and editing skills necessary to assure accuracy in written documents and business correspondence. Prerequisite: OFAD 120 or one year high school typing. Lab required. **2** credit hours.

OFAD 133 COMPUTER KEYBOARDING

Designed to learn the computer keyboard hy touch using computer-assisted instruction. Lab required. 2 credit hours.

OFAD I34 ELECTRONIC CALCULATOR

Principles, procedures and techniques of operating the electronic printing calculator; emphasis **on** speed, accuracy, memory functions and common business math applications. Lab required. **3** credit hours.

OFAD 135 BUSINESS CORRESPONDENCE

Compose and evaluate effective business documents including letters, memos reports, minutes and other correspondence. Pre-requisite: ENGL 151, OFAD 121 or OFAD 223.3 credit hours.

OFAD 220 WORD PROCESSING SOFTWARE

Designed to teach a word processing softwareprogram determined by local area business needs. (See appropriate class schedule for software offered.)

Course may be repeated for credit as software changes. Prerequisite: OFAD 120 or one year high school typing. Lab required. 3 credit hours.

OFAD223 WORD PROCESSING I

Designed to develop basic word processing skills for employment purposes or personal use. Emphasis on creating and revising documents using beginning level applications. Software is state-of-the4 and subject to change reflecting business demands. See class schedule for softwareoffered. Course may be repeated for credit as software changes. Prerequisite: OFAD 120 or one year of high school typing and 35 wpm. Lab required. 3 credit hours.

OFAD 224 WORD PROCESSING!!

Designed to **learn** the advanced features of a comprehensive word processing program using intermediate level output applications including multipage text, document assembly (macros), merges, file/sort and forms. Software is state-of-the-art and subject to change reflecting business demands. See class schedule for **software** offered. Prerequisite: OFAD **121**, **223** and **50** WPM. Lab required. 3 credit hours.

OFAD 225 MACHINE TRANSCRIPTION

Instruction and practice in machine transcription of letters, memos and reports. Language, vocabulary and proofreading skills are reviewed. Specialized content for legal and medical programs. Prerequisite: OFAD 121, OFAD 223. Labrequired. 3 credit hours.

OFAD226 Word Processing!!

Designed to develop advanced skills in word processing using applications and desktop publishing projects requiring critical thinking and decision-making as expected in the work place. Prerequisite: OFAD 121, OFAD 224 AND 55 WPM. Lab required 3 credit hours.

OFAD 230 OFFICE PROCEDURES

Acquaints students with the varied aspects of office routines. Emphasis on time management, mail responsibilities, telephone techniques, communication, job application/interviewing and other topics associated with office technology, Prerequisite: OFAD 121. Lab required. 3 credit hours.

OFAD 237 MEDICAL **O**FFICE PROCEDURES

Career opportunities and qualifications for the medical secretary are explored. Emphasizes the importance of telephone procedures and making appointments; preparation of medical records; financial and legal responsibilities of billing and preparing insurance records. Prerequisite: OFAD 121, OFAD 131. Lab required. 3 credit hours.

OFAD 700 COOPERATIVE EDUCATION

On-the-jobexperience in a **work** assignment related to students' field of study. Credit is earned for completion of specific learning objectives and participation in OFAD co-op seminars. Seminars meet twice monthly. Prerequisite: Second year standing in career program; program coordinator approval; division dean approval. **3** credit hours.

OFAD 705 COOPERATIVE **EDUCATION**

Continuation of supervised on-the-job training related to **students'** field of **study**. Learning objectives **are** reviewed and new ones **established**; continued participation in twice monthly seminars. **Prerequisite:** OFAD **240.3** credit hours.

PHILOSOPHY

PHIL 151 INTRODUCTION TO PHILOSOPHY (PHIL I301)

An introduction to critical **and** reflective thinking **as** applied **to** basic problems of existence and the meaning of human life. Selective philosophical problems are examined through the views of major philosophers. Studies will include ancient, medieval and modem thought. 3 credit hours.

PHIL 152 Logic (PHIL 2303)

An introduction to symbolic logic. Emphasis on logical argument, fallacies, inductive and deductive proof, and correct reasoning. 3 credit hours.

PHIL 153ETHICS (PHIL 2306)

An introduction to moral philosophy. Examines moral problems through a variety of ethical systems. Topics include the nature of good and evil, abortion, bioethics, sexuality and world hunger. 3 credit hours.

PHIL 154 COMPARATIVE RELIGION (PHIL 1304)

A study of **religious** traditions: Eastern and **Western**, ancient **and** modem. Special **emphasis** on such topics **as** the nature of God, religious experience, immortality and human freedom. 3 credit hours.

PHIL 251 Social and Political Philosophy (PHIL 2307)

Theoretical foundations of governmental systems. Philosophers such as Plato, Hobbes, Locke, Kant and Noziek will be considered. 3 credit hours.

PHOTOGRAPHY

PHO 180Photography I (ARTS 2356)

Introduction to photography including basic camera operations, darkroom techniques, with emphasis **on visual** imagination and design. Lab required 3 credit hours.

PHO 181 PHOTOGRAPHY II (ARTS 2357)

Intermediate level course with continued emphasis on darkroom proficiency. Learning color photography will constitute a major part of the curriculum. Beginning study of the zone system of exposure and introduction to large format cameras. Prerequisite: PHO 180. Lab required. 3 mdit hours.

PHO 280 Photography —Portrayal(ARTS 2370)

Exploration of various photographic portrait styles, including both commercial and personal aspects of photographing the human subject Included will be documentary photography of people, the environmental portrait and studio portraits. Creative approaches to the subject are encouraged Prerequisite: PHO 180 or equivalent. Lab required. 3 credit hours.

PHO 281 CONTEMPORARY STUDIES IN THE VISUAL ARTS — PHOTOGRAPHY (ARTS 2371)

In-depth study of concerns and practices in the visual arts. This course may be repeated three times for credit. Specialized topics of study include:

Advanced Black-and-White Photography

Study and use of large-format cameras, custom paper and film developers, and application of the zone system in photography. Prerequisites: PHO 180 and PHO 181. Lab required. 3 credit hours.

Advanced Color Photography

Study of aesthetic and technical elements inherent to color image-making. Historical background combined with current trends **make** up a foundation for critical exploration into this medium. Prerequisites: PHO **180,181.** Lab required. 3 credit hours.

Advanced Portrayal

Advanced portraiture with professional photographer's approach. Includes advanced studio techniques working with color and black-and-white materials. Emphasis on development of personal style. & requisites: PHO 180,181 and 280. Lab required. 3 credit hours.

Alternative Processes

Experimental, antique and non-silver printing processes and unconventional modes of presentation. The Gum-Bichromateprocess, the Cyanotype, the Kwik-Print, the Van Dycke and other alternate processes. Prerequisite: PHO 180, (PHO 181 also recommended) Lab required. 3 credit hours.

Architectural Photography

Exploration into the production of architectural images that go beyond mere documentation. Aesthetics, art, expression, communication, imagination, abstraction, reality, drama and emotion are a few of the dimensions discussed focusing on sensitive photographs not dependent on the quality of the subject matter. Technical considerations include view camera technique. Prerequisites: PHO 180, 181. Lab required. 3 credit hours.

Digital Photography

Photography using the digital camera and learning to shoot and compose far computer imaging, Prerequisite PHO 180. Lab required. 3 credit hours.

Documentary Photography

Extension of the gnat documentary tradition. Production of social documentary photographs centered on a community, phenomenon or dealing with issues in the urban area. Prerequisite PHO 180. (PHO 181 also recommended) Lab required. 3 credit hours.

Fashion Photography

Study of historical and current advertising fashion techniques. Emphasis on cultural contributions and outside artistic influence. Studio and location techniques considered Prerequisites: PHO 180, 181. Lab required. 3 credit hours.

Landscape Photography

Exploration into the aesthetic and technical aspects of landscape as a subject Eighteenth century through modernist and post-modernist approaches to the idea of landscape as a primary source of meaning from both conceptual and design standpoints are examined. Prerequisite: PHO 180. Lab required. 3 credit hours.

Large Format Photography

Examination of the technical requirements of large-format cameras and the resulting aesthetic contribution to the photographic image. Zone system image management, photo chemistry, darkroom procedures and contact, printing are among the concepts investigated. Prerequisites: PHO 180,181, Lab required. 3 credit hours.

Platinum/Palladium Photography

Review of the history of non-silver photography with **emphasis on** platinu/palladium processes. Examination of the various techniques in non-silver printing, learning to mix the emulsion from the basic compounds, learning the results from different paper surfaces and different developing agents. Creative experiementation will be encouraged Prerequisites: PHO 180 and 181. Lab required. 3 credit hours.

Portfolio

Advanced photography for development of a strong portfolio of images, either commercial or fine acts. Outcome will be a portfolio of high quality images that can be shown for the purpose of obtaining commercial contracts or exhibitions. Prerequisites: PHO 180, 181 and one advanced photography course. Lab required. 3 credit hours.

View Camera/Zone System

Examination of the technical requirements of large-format cameras and the resulting aestheic contribution to the photographic image. Zone system image management, photo chemistry, darkroom procedures and contact printing are aomng the concepts investigated. Prerequisites: PHO 180 and 181, Labrequired. 3 credit hours.

PHO 290 PHOTO ILLUSTRATION (COMM 1316)

Problems and practices of photographers in news photography and in advertising. Single, multiple and electronic flash will be studied and put to use. Emphasis on lighting, large format cameras and product photography. Prerequisite: PHO 180 or consent of insbuctor. Lab required. 3 credit hours.

PHO 291 News Photography (COMM [317)

Problems and practices of photographers on newspaper and magazine news publications. Shooting under different lighting and using flash and electronic flash will be studied. Emphasis on work under pressure and high-speed processing. Prerequisite: PHO 180. Lab required. 3 credit hours.

PHO 298 HISTORY OF PHOTOGRAPHY (ARTS 2372)

A study of the emergency and development of the fust technological art. form. Emphasis is placed **upon** the aesthetic and scientific issues that shape the visual literacy of today's society. From early woodcuts to high tech computer imaging, the informationage is scrutinized in order to understand and appreciate photography's growing importance within the visual arts. 3 credit hours.

PHO 299 HISTORY OF FILM MAKING (DRAM 2366)

An examination of the history of motion pictures and its effect on our society as well as its contribution to our culture. Emphasis will be placed on the cinema as an art form. 3 credit hours.

PHYSICAL SCIENCE

PSCI 151 PHYSICAL SCIENCE I (PHYS 1415)

Survey of the principles of physics and chemistry. Topics include: heat, light, sound, matter, Newtonian physics, electricity and magnetism, gas laws and optics. Prerequisite: MATH 020 or equivalent. Lab required. 4 credit hours

PSCI 152 Physical Science II (PHYS 1417)

Survey of the principles of astronomy, meteorology and geology. Topics include: weather and climate, rocks and minerals, erosion, the solar system, stars and **galaxies**. Prerequisite: MATH **020** or equivalent. Lab required. **4** credit hours

PSCI 153 ELEMENTARY ASTRONOMY (PHYS I 411)

Introduction to the solar system, stars. stellar groupings and galaxies; telescopes and other astronomical instruments are discussed. Physical characteristics of the motion of bodies in the solar system are studied along with stellar evolution, supernova, black holes, neutron stars, comets and pulsars. Laboratory exercises, night observations, planetarium and observatory visits all combine to enhance lecture material. Lab required. 4 credit hours.

PSCI 154 EARTH SCIENCE (GEOL 1401)

Concepts of earth processes and relation to man including basic principles from physical and historical geology, oceanography and meteorology for the non-science major. Lab required. 4 credit hours.

PHYSICS

PHYS 191 GENERAL PHYSICS 1 (PHYS 1401)

Algebra-based physics course for the science major in areas such as biology, medicine, pharmacy. Topics include laws of motion of objects, heat, work and energy, and sound. Prerequisite: 2 years of high school algebra or equivalent. Lab required. 4 credit hours.

PHYS 192 GENERAL PHYSICS II (PHYS 1402)

A continuation of Physics 191. Includes topics of electricity, magnetism, light, optics, relativity and atomic physics. Prerequisite: **PHYS** 191. Lab required. 4 credit hours.

PHYS 291 COLLEGE PHYSICS I (PHYS 2425)

A calculus-based analysis of classical physics designed to meet the needs of science majors in fields such as physics, computer science and engineering, Topics include laws of motion, force momentum, work and energy, angular momentum, and rotational and oscillatory motion. Laboratory experiments reinforce concepts presented in lecture. Prerequisite: MATH 191. Corequisite: MATH 192. Lab required. 4 credit hours.

PHYS 292 COLLEGE PHYSICS II (PHYS 2426)

A continuance of Physics **291** that addresses electric fields, AC and DC currents, dielectrics, magnetic fields, magnetic properties of matter, inductance, electromagnetism, properties of waves and optics. Laboratory experiments reinforce principles presented io lecture. Prerequisite **PHYS 291**. **Lab** required. **4** credit hours.

POLITICAL SCIENCE

PLSC 155 Introduction to Political SCIENCE (GOVT 2304)

Introduction to the history and methods of political science. Includes an examination of the basic concepts of politics and political behavior, an overview of the history of the discipline, the scope and methods of political inquiry and an exploration of the basic models of politics that operate in the modem world This course does not apply toward the Texas legislative requirement of 6 credit hours of American Government for baccalaureate degrees. Lab required. 3 credit hours.

PLSC 261 AMERICAN GOVERNMENT I (GOVT 2301)

Introduction to the study of politics and government in the United States. Topics include the origin and development of constitutional democracy in the United States, emphasizing the constitutions of the United States and the state of Texas, federalism and intergovernmental relations, local government and the political process. (This course may not be taken if the student has received credit for Government 252.) Lab required. 3 credit hours.

PLSC 262 American Government II (G O M 2302)

Examines the institutional structures of government at both national and state levels (emphasizing Texas), including the legislative process, the executive and bureaucratic structures and the judicial process. Additional topics include civil rights and civil liberties, domestic policy, foreign relations and national defense. (This course may not be taken if the student has received credit for Government 251.) Lab required. 3 credit hours.

PLSC 263 International Relations (GOVT 2303)

Introduction to the study of international relations, particularly emphasizing those factors which contribute to both conflict and cooperation between nations. Topics include the nation-state system, international economics, international law, security and arms control, and international organizations. Lab required. 3 credit hours.

PLSC 264 COMPARATIVE POLITICS (G O M 2331)

Introduction to the study of comparative political institutions. Topics include the history and methods of comparative political analysis, political socialization and political behavior, the creation of public policy and the politics of major world powers. Lab required. 3 credit hours.

PSYCHOLOGY

psrc 121 Applied PSYCHOLOGY (PSYC 2302)

Surveys the applications of psychological knowledge and methodology **m** the fields of business, industry, education, medicine, law enforcement and government work. Emphasis **on** group dynamics and adjustment factors for employment **and** advancement. Lab required 3 credit hours.

PSYC 151 GENERAL PSYCHOLOGY (PSYC 2301)

Introduces the student to the major topics io scientific psychology **as** applied to human behavior. Topics include research methods, physiological factors, learning, motivation, emotions, personality, adjustment, **stress**, psychological disorders and therapies. Application of these principles will be made to the human experience. Lab required. 3 credit hours.

psrc 153 Human Sexuality (PSYC 2306)

Designed to assist the student in the understanding of human sexuality including an appreciation of different approaches to sexuality as well as an awareness of one's own sexuality and its impact on adjustment to life. A student may register for this course as PSYC 153 or SOC 153, but not for both. 3 credit hours.

PSYC 155 PSYCHOLOGY OF ADJUSTMENT(PSYC 2315)

Psychological theory will he presented enabling students to gain insight into adjustment topics that can be applied to their own lives and the lives of those around them. 3 credit hours.

PSYC 251 LIFE SPAN PSYCHOLOGY (PSYC 2314)

A life-span approach to human development studying the **processes** of life **from** conception **through** adulthood and aging. Information **on physical**, cognitive and psychosocial aspects of human **growth**, development and behavior is included. Application of these principles will be made to daily lifestyles. Prerequisite: PSYC **151. Lab** required. **3** credit hours.

PSYC 252 SOCIAL PSYCHOLOGY (PSYC 2319)

Research and theory regarding social factors that influence human behavior. Focuses on attitudes, interpersonal attraction, aggression, conformity, communication, values, roles and *group* processes. Application of these principles will be made to the human experience. A student may register for this course as PSYC 252 or SOC 252, but not both. Prerequisite: PSYC 151 or SOC 151. Lab required. 3 credit hours.

psrc 253 Psychology of Personality (PSYC 2316)

An indepth study of theories of personality with practical application of each. Methods of personality measurement and assessment are also included. Prerequisite PSYC 151. Lab required. 3 credit hours.

PSYC 255 DRUG USE AND ABUSE PSYC 2370)

A view of the individual, the substance and the cultural context in which they interact. This course is designed to provide a basic understanding of the psychopharmacology of **drugs** used and abused in today's society. The emphasis of the study will be the major perspectives of **drug use** including legal, moral, public health/disease modellpsycho-socialand socio-cultural. Students may enroll in either PSYC **255** or **in** SOC **255**, but not in both. 3 credit hours.

PSYC 297 SELECTED TOPICS IN PSYCHOLOGY (PSYC 2371)

An indepth **study** of selected topics on current issues in psychology. Course may be repeated for credit as topics vary. 3 credit hours.

READING

READ 040 DEVELOPMENTAL READING I

Designed to raise the reading level of students reading on levels 6 through 7 by improving skills in vocabulary and comprehension. A modular approach following individual prescription is used. (This class may not be used to satisfy the requiments of an associate degree.) Prerequisite: Assessment, 1 credit hour.

READ 041 DEVELOPMENTAL READING!

Designed to **raise** the reading level of students reading on **level 8** through **9** by improving skills in vocabulary and comprehension. **A modular** approach following individual prescription is used. (This course may not be used to satisfy the requirements of **an** associate degree.) Prerequisite: Assessment. 1 credit hour.

READ 042 DEVELOPMENTAL READING!!!

Dwigned to **raise** the reading level of students reading **on** level 10 **through** 12 by improving **skills** in vocabulary and comprehension, **A** modular approach following individual prescription is used. (**This** course may not be used to satisfy **the** requirements of an associate degree.) Prerequisitc Assessment. 1 credit hour.

READ 101 Analytical Reading and Critical Thinking

An in-depth inquiry to improve comprehension in non-fiction material. The development of interpretive comprehensions kills and expansion of these skills into higher level analysis. synthesis and evaluative processes will be emphasized, Prerequisite: Assessment. Lab required. 3 credit hours.

REAL ESTATE

RUT 133 REAL ESTATE PRINCIPLES I

Fundamental principles of real estate. Emphasis on property rights, property ownership. listing procedures, legal descriptions, real estate contracts, control and transfer of real properties, the professional ethics and activities of real estate brokers and the Real Estate License Law. Includes a three-hour overview of Principles II. (Core Course). 3 credit hours.

RLST 134 REAL ESTATE PRINCIPLES !!

Fundamental principles and practices of real estate. emphasis on property management, real estate appraisal, real estate investment, closing the real estate transaction and three hours of Federal Fair Housing, Community Reinvestment Act and Equal Credit Opportunity Act. Includes a three-hour review of Principles I. (Core Course). 3 credit hours.

R U T 135 REAL ESTATE APPRAISAL

Includes the central purposes and functions **of** an appraisal, social and economic determinant of value, appraisal case studies. cost, market data and income approaches to value estimates, final correlations and reporting. (Core Course). 3 credit hours.

R E T 136 REAL ESTATE MATH

Review of mathematical logic and arithmetic skills including percentages, interest, time-valued money, depreciation, amortization, protation and estimation of closing statements. (Core Course). 3 credit hours,

R E T 138 REAL ESTATE SALES AND MARKETING

Includes real estate professionalism and ethics, characteristics of successful salespeople, time management, psychology of marketing, listing procedures, advertising, negotiating and closing, fmancing and the Deceptive Trade Practices-Consumer Protection Act. (Core Course). 3 credit hours.

R U T 139 REAL ESTATE LAW - CONTRACTS

Six classroom hours reviewing subjects required by the Real Estate License Act with emphasis on general contract law requirements and thorough coverage of the purpose, history and working process of the broker-lawyer committee. Detailed instruction and maximum hands-on exercises in the preparation of all promulgated contract forms. (Core Course). Prerequisite: RLST 134 or consent of discipline coordinator. 3 credit hours.

RLST 234 REAL ESTATE INVESTMENTS

Financing, evaluation and management of real estate investments. Real estate investment characteristics, techniques of investment and analysis. discount and nondiscounted investment criteria, time-valued money, leverage, tax shelters and consideration, investment risks and applications to property tax. (Corn Course). Prerequisite: RLST 134 or consent of discipline coordinator. 3 credit hours.

R U T 235 REAL ESTATE FINANCE

Includes monetary systems, primary and secondary money markets, sources of mortgage loans, federal government programs, loan applications, processes and procedures, closing costs, alternative financial instruments, Equal Credit Opportunity Acts, Community Reinvestment Act and State Housing Agency. (Core Course). Prerequisite: RLST 134 or consent of discipline coordinator. 3 credit hours.

RLST 236 REAL ESTATE PROPERTY MANAGEMENT

Includes role of a **property manager**, landlord policies, operational guidelines, leases, lease negotiations, tenant relations, maintenance, **reports**, habitability laws and the **Fair** Housing Act. (Core Course). **3** credit hours.

RUT237 REAL ESTATE LAW

Includes the legal concepts of real estate, land description, real property rights and estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures and evidence of titles. (Core Course). Prerequisite: RLST 134 or consent of discipline coordinator. 3 credit hours.

RUT 238 TITLE, ABSTRACT, ESCROW

Legal and procedural aspects of handling titles, abstracts and escrows.

Common office practices and closing procedures. (Related Course).

Prerequisite: RLST 134 or consent of discipline coordinator. 3 credit hours.

RLST 241 REM GTATE COMMERCIAL

A study of the commercial class of real estate, considering the developing, appraising marketing, contracting and financing functions related to businws properties, including office building, shopping centers, stores, hotels and parking facilities. (Related Course). 3 credit hours.

RLST 242 REAL ESTATE FINANCIAL ANALYSIS

Financial applications useful to real estate professionals, real estate students and serious real estate investors. The emphasis is on the use of hand-held HP-17B2 or HP-19B2 calculators as a tool to analyze the many financial problem situations that agents encounter in the business. Topics include loan calculation, net present value, internal rate of return, discounting, depreciation, programming techniques and more. (Related Course). Prerequisite: RLST 134; MUST have a HP-17B2 calculator or HP-19B2 calculator. 3 credit hours.

RLST 251 REAL ESTATE BROKERAGE

Study of the brokerage business including planning and organization, operational policies and procedures, personnel recruiting, selection and training, record keeping and control analysis of real estate firm, criteria for expansion and a study of the law of agency. (Core Course). Prerequisite: RLST 134.3 credit hours.

RUT297 REAL ESTATE SPECIAL TOPICS

This course is designed to provide current legal, judicial, legislative and regulatory information for the real estate licensee, as well as, the advanced real estate student Prerequisites will vary based on topics covered and will be annotated in each semester's class schedule. Course may be repeated for credit as topics vary. (Related Course). 1 credit hour.

RUT 700 COOPERATIVE EDUCATION I

Designed to integrate on-campus study with off-campw work experience. The student will establish five specific goals for the student to accomplish. **Also** requires **one** hour per week **of** lecture. (Related Course). 3 credit hours.

RLST 705 COOPERATIVE EDUCATION II

Designed to integrate on-campus study with off-campw work **experience**. The student will establish five specific **goals** for the student to accomplish. **Also** requires one hour per week of lecture. (Related Course). 3 credit hours.

RESPIRATORY CARE

RTTP I 12 CARDIOPULMONARY ANATOMY AND PHYSIOLOGY

Pmvides an advanced understanding of the anatomy and physiology of the cardiovascular, pulmonary, renal **and** nervous systems. Lab required. 2 credit hours.

RTTP 113 RESPIRATORY CHEMISTRY PHYSICS

Provides an understanding of basic math, physics laws and chemistry principles as they apply to the field of respiratory care. 3 credit hours.

RTTP 114 RESPIRATORY CLINICAL PRACTICUM I

Students apply skills learned in didactic and practiced in **the** laboratory in a clinical hospital setting. Lab required. 4 credit hours.

RTTP 115 FUNDAMENTALS OF RESPIRATORY CARE

Developes a safe working knowledge of the function, wage **and** trouble-shooting of fundamental respiratory care equipment. Lab required. **4** credit hours.

RTTP 120 RESPIRATORY PATHOPHYSOLOGY

Builds upon a basic understanding of patient assessment, the disease process as it relates to the cardiopulmonary system and the proper recognition of the signs and symptons of the disease along with the recommended treatment. 3 credit hours

RTTP 121 NEONATAL AND PEDATRC RESPIRATORY CARE

Teaches a basic understanding of various respiratory diseases associated with newborn infants and children. Lab required. **2** credit hours.

RTTP 122 RESPIRATORY PHARMACOLOGY

Provides a working knowledge of basic drugs used by the therapist related to respiratory care patients. 2 credit hours.

RTTP 123 RESPIRATORY CLINICAL PRACTICUM 11

Continues RTTP 114, providing students with practical experience in those skills acquired in the previous semester. 2 credit hours.

RTTP 124 FUNDAMENTALS OF RESPIRATORY CARE!

Focuses on critical care, including airway care and classification and application of mechanical ventilators. Lab required. 4 credit hours.

RITP 125 RESPIRATORY CLINICAL PRACTICUM III

Continues RTTP 123 providing student with opportunities to apply those skills acquired during the previow semester along with the following new skills: basic pulmonary function testing, arterial blood gas procurement and critical care. 3 credit hours.

RTTP 126 RESPIRATORY CLINICAL PRACTICUM IV

Students complete the clinical experience to prepare to perform **as an entry** level technician. Emphasizes emergency and critical care with a continuation of mechanical ventilatory care. 3 credit hours.

RTTP 127 CRITICAL CARE

Develops a working knowledge of basic pulmonary function testing, arterial and venous blood gas analysis, co-oximetry and tonometry as well as continuation of mechancal ventilation. Lab required 2 credit hours.

RTTP 213 CLINICAL PRACTICUM V

Application of advanced respiratory techniques to include advanced critical care, roentgenographic patterns of respiratory disease, neonatal care and post-operative care of cardiopulmonary patient. 2 credit hours.

RTTP 21 4 ADVANCED RESPIRATORY CARE I

Advanced theory and application of ventilators **as** well **as** critical care procedures, advanced neonatology and radiology **as** it applies to respiratory care. Lab required. **4** credit hours.

RTTP 215 CARDIOPULMONARY DYNAMICS

Provides a working knowledge of advanced cardiac diagnostic techniques to include 12 lead **ECG** interpretation **and** hemodynamic measurements. 3 credit hours.

RTTP 220 RESPIRATORY CARE CLINICAL SPECIALTES

Provides an understanding of clinical areas of specialization on cardiopulmonary medicine. 3 credit hours.

RTTP 221 ADVANCED RESPIRATORY CARE!

Advanced procedures used in pulmonary function **testing**, basic management, education (patient and in-sewice), homecare and rehabilitation techniques as they relate to respiratory can. 3 credit hours.

RTTP 223 CLINICAL PRACTICUM VI

This course is a completion of the clinical experience to prepare the student to perform as an advanced respiratory care practitioner. 2 credit hours,

Russian

RUSN 191 BEGINNING RUSSIAN I (RUSS 1411)

Introduction to the basic skills of **speaking**, reading, writing and listening, designed for students with little or no previous language training. Includes an introduction to Russian culture. Instruction is enhanced by the use of audio tapes, slides, computer **software** and video cassettes. Lab required. 4 credit hours.

RUSN 192 BEGINNING RUSSIAN !! [RUSS 1412]

A continuation of Russian 191. Pmequisite: RUSN 191 or **equivalent.** Lab required. **4** credit hours.

SMALL BUSINESS MANAGEMENT

SBMT 121 SMALL BUSINESS MANAGEMENT

Introduction to planning, establishing and operating a **wall** business; managing employees, records and control systems; **pmduct** and **services** marketing. 3 credit **hours**.

SBMT 221 SMALL BUSINESS FINANCE

Financial planning, we of financial data, forecasting financial needs, control of cash **and** other assets. capital budgeting, acquisition valuation, financial sources. Prerequisite: SBMT 121.3 credit hours.

SBMT 222 PRINCPLES OF RETAKING

The operation of the retail system of distribution is examined. Topics include consumer demand and layout, credit practices and computer use. 3 credit hours.

SBMT 223 ENTREPRENEURSHIP

Business idea development and implementation. A **hands-on** approach **to** business planning, feasibility studies, market analysis and **venture** financing. Instructor permission required. **3** credit hours.

SBMT 700 COOPERATIVE EDUCATION I

Designed to help the student integrate classroom knowledge with work experience. The student, the student's **supervisor** and the instructor coordinate a set of goals for the student to accomplish. 3 credit hours.

SBMT 705 COOPERATIVE EDUCATION!

Designed to help the student integrate classroom knowledge with work experience. The student, the student's supervisor and the instructor coordinate a set of goals for the student to accomplish. Prerequisite: SBMT 700.3 credit hours.

SOCIOLOGY

SOC 151 Introduction to Sociology (SOCI 1301)

An introduction to the social science concerned with humans and their relationship with members of the group and world in which they live. The following aspects of social life will be applied to the human experience: social forces, culture, socialization, deviance, sexuality, gender roles. race relations, social stratification and family. Lab required. 3 credit hours.

SOC 152 SOCIAL PROBLEMS (SOCI 1306)

An in-depth examination of selected social problems, their nature, cause, extent and effect upon society. Emphasis will be **on** the **study** of specific social problems of the local **area**. Topics include: abortion, suicide, family violence, sexual variance. and crime and punishment. Lab required. 3 credit hours

SOC 153 HUMAN SEXUALITY (SOCI 2306)

Designed to assist the student in the understanding of human sexuality including an appreciation of different appmaches to sexuality as well as an awareness of one's own sexuality and its impact on adjustment to life. A student may register for this course as Psychology 153 or Sociology 153, but not for both. 3 credit hours.

SOC 251 Marriage and Family (SOCI 2301)

A functional and empathetic approach to understanding the structural developmental and institutional aspects of marriage and the family. Emphasis on the American family with consideration given to courtship, mate selection, marriage and its dynamics, conflict, family violence, childrearing patterns, the later years of marriage, divorce and remarriage. Lab required. 3 credit hours.

SOC 252 Social Psychology (SOCI 2326)

A study of research and theory regarding social factors that influence human behavior. Focuses on attitudes, interpersonal **attraction**, conformity, communication, values, roles and group processes. Application of these principles will be made to the human experience. A student may register for this course **as** Psychology **252** or Sociology **252**, but not both. Prerequisite: PSYC 151 or SOC 151. Lab required, 3 credithours.

SOC 253 MINORITY STUDIES (SOCI 2319)

The historical, economic, social and cultural development of minority groups in American **society.** Includes the causes and consequences **of** prejudice and discrimination. **Lab** required. 3 credit hours.

SOC 255 DRUG USE AND ABUSE (SOCI 2340)

A new of the individual, the substance and the cultural context in which they interact. This course is designed to provide a basic understanding of the psychopharmacology of drugs used and abused in today's society. The emphasis of the study will be the major perspectives of drug use including legal, maral, public health/disease model/psycho-social and socio-cultural. Students may enroll in either Psychology 255 or in Sociology 255, hut not in both. 3 credit hours.

SOC 297 SELECTED TOPICS IN SOCIOLOGY (SOCI 2371)

An indepth study of selected topics on current issues in sociology. Course may be repeated for credit as topics vary. 3 credit hours.

SPANISH

SPAN 19 BEGINNING SPANISH (SPAN 14 I I)

An introduction to the four basic skills of speaking, reading, writing and listening. Designed for students with **little or** no previous language training. Includes an introduction to aspects of Hispanic civilization. Instruction enhanced by the use of slides, tapes, computer software and video cassettes. Lab required. 4 credit hours.

SPAN 192 BEGINNING SPANISH (SPAN 1412)

A continuation of Spanish 191. Prerequisite: SPAN 191. Lab required. 4 credit hours

SPAN 291 INTERMEDIATE SPANISH I (SPAN 2311)

An intensive review of Spanish grammar followed by continued development of speaking, listening, reading and writing skills. Instruction enhanced by the use of slides, tapes and other audio-visual aids. Prerequisite: SPAN 192 nr consent of discipline coordinator. Lab required. 3 credit hours.

SPAN 292 INTERMEDIATE SPANISHII (SPAN 2312)

A continuation of Spanish **291.** Extensive written and oral work and extensive reading of literary works in Spanish of moderate difficulty. Prerequisite: SPAN 291.3 credit hours.

SPAN 293 CONVERSATIONAL SPANISH I (SPAN 2171)

Intensive practice in conversational Spanish. Prerequisite: SPAN 192 or consent of discipline coordinator. 1 Credit hour.

SPAN 294 Conversational Spanish !! (SPAN 2 172)

A continuation of Spanish 293. Prerequisite: SPAN 293 or equivalent. 1 credit hour.

SPAN 295 SPANSHLITERATURE I (SPAN 232I)

A study of Spanish literature from its origin to 1700 through lectures, discussions and reading of major literary works. Some attention will also be given to the historical context of each work. Prerequisite: SPAN 292.3 credit hours.

SPAN 296 SpanishLiterature II (SPAN 2322)

A study of Spanish literature from 1700 to the present. Discussions, lectures and readings of major literary works with some attention to historical contexts. A continuation of Spanish 295. Prerequisite: SPAN 295.3 credit hours

SPEECH COMMUNICATION

SPCM 151 FUNDAMENTALS OF SPEECH COMMUNICATION (SPCH 1311)

Survey of basic factors affecting human interaction through communication; emphasis on the development of oral communication competencies; practice in delivering oral presentations. 3 credit hours.

SPCM 152 Public Speaking (SPCH 1315)

Study and practice in the preparation and delivery of speeches; practice in different types of speeches and forms of delivery; evaluation of speakers and speeches. 3 credit hours.

SPCM 153 ADVANCED PUBUC SPEAKING (SPCH 1371)

Advanced skills and techniques of speaking. Includes impromptu and extemporaneous speaking, congressional speaking and the use of parliamentary procedure, and speaking before large audiences. Prerequisite: SPCM 152. 3 credit hours.

SPCM 154 Audio/Radio Production

Concepts and techniques of sound production, including coordinating and directing process. "Hands-on" experience with equipment, sound sources and direction of talent emphasized. Lab required. 3 credit hours.

SPCM 155 TELEVISION PRODUCTION (COMM 1336)

Provides a basic orientation to the television studio, with utilization of cameras, lights, microphones, switching consoles, editing suites, **character** generators and telecine. Lab required. 3 credit hours.

SPCM 192 FORENSICS WORKSHOP (SPCH | 144)

Preparation and practice in debate and contest speaking activities; participation in intercollegiate and inter-squad forensic activities; involvement in supervised research and the development of specialized contest speaking skills. Course may be repeated for credit. Prerequisite: SPCM 152 or consent of instructor. 1 credit hour.

SPCM 291 ORAL INTERPRETATION (SPCH 2341)

Introduction to the techniques of interpretation; preparation, analysis, reading of poetry, prose and dramatic literahue; analysis and criticism of a variety of literary forms. Prerequisite: **SPCM 152.3** credit hours.

SPCM 292 LANGUAGE AND COMMUNICATION (SPCH 2370)

Appreciation of interdisciplinary approaches to the study of language; comprehension of viewpoints offered by various fields. Prerequisite: SPCM 151. 3 credithours.

SPCM 293Business and Professional Speaking (SPCH 1321)

Study of the importance of **oral** communication in business; practice in small group communication; study of the relationship of communication to organizational conflict, management and international business; practice in conducting and participating in business interviews and presentations. 3 credit hours

SPCM 294 Interpersonal Communication (SPCH 1318)

The study of verbal and nonverbal communication as it primarily relates to persons in relationships. Emphasis in interpersonal contexts such as communication between the sexes, familial relationships and intercultural communication. Prerequisite or Co-requisite: SPCM 151 or consent of instructor. 3 credit hours.

SPCM 295 RADIO AND TV ANNOUNCING (COMM 2331)

A course in the principles of, and practice in, radio and TV announcing including the study of voice (diction, pronunciation and delivery) as it relates to mediated contexts. and experience in news announcing, interviewing and commercial acting. Prerequisite or Co-requisite: SPCM 152.3 credit hours.

SPCM 296 RADIO/TELEVISION NEWS (COMM 2332)

The preparation and analysis of news styles for the electronic media. Prerequisite or Co-requisite: SPCM 152. 3 credit hours.

THEATRE

THEA 151 INTRODUCTION TO THE THEATRE (DRAM 1310)

Various aspects of theatre are surveyed. Emphasis is on types of plays, directing, acting and technical production. Lab required. 3 credit hours.

THEA! 85 STAGECRAFT (DRAM 1330)

The study and application of the visual aesthetics of design which may include the physical theatre, scenery construction and painting, properties, lighting, costumes, make-up and backstage organizations. Lab required. 3 credit hours.

THEA 186 Introduction to Costuming

A survey of costuming which introduces students to the task of constructing costumes for theatrical productions. Students will gain an appreciation of the art of costuming, a sense of fashion history and changes, and will understand how the costume fits into the total concept and production of the play. Lab required. 3 credit hours.

THEA 190 THEATRE PRACTICUM—PERFORMANCE (DRAM 1271)

A practicum in theatre with emphasis on performance techniques and procedures. The student gains theatrical experience by assuming amajor performance role in a college play. May be combined with THEA 191 or repeated for a maximum total of 6 credit hours. 1 credit hour.

THEA 19 I THEATRE PRACTICUM—TECHNICAL (DRAM 1272)

A practicum in theatre with emphasis on theatre techniques and procedures. Students gain theatrical experience by assuming major technical responsibilities in the production of a college play. May be combined with THEA 190 or repeated for a maximum total of 6 credit hours. I credit hour.

THEA 192 Voice and Diction (DRAM 2336)

Intensive work is provided in the improvement of voice through exercises to develop resonance, range, flexibility, intensity, control of voice. 3 credit hours.

THEA 193 Acting I (DRAM 1351) .

Introduction to the art of acting. Body control, voice, pantomime, interpretation, characterization and stage movement are included. Lab required. 3 credit hours.

THEA 194 ACTING II (DRAM 1352)

A continuation of Theatre 193. Emphasis is on complex characterization, ensemble acting, stylized acting and acting in period plays. Prerequisite: THEA 193. Lab required. 3 credit hours.

COMMON COURSE NUMBERING AT CCCC

CCCC

COURSE

BSAD 121

BSAD123

BSAD 124

BSAD 298

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Business Administration

COMMON

COURSE

BUSI 1301

BUSI 2301

BUSI 1307

BUSI 2371

TITLE

Introduction to Business

Selected Topics in Business

Business Law

Principles

Personal Finance

The Texas Common Course Numbering System (TCCNS) consists of a uniform set of four-character abbreviations for academic disciplines and four-digit course numbers. The first digit of the number reflects the academic level of the course (1=freshman, 2=sophomore) and the second digit reflects the semester-credit-hourvalue of the course. The third and fourth digits are sequences. If the third number is a 7, this indicates that the course may not he common across the state; however, it is considered to be a transfer course. As always, students are reminded to contact the institution to which they plan to transfer for specific information on course equivalences and degree requirements.

tences and degre	ce requirements.		Chemistry		
			CHEM 151	CHEM 1405	Introduction to Chemistry
CCCC	COMMON	TITLE	CHEM 152	CHEM 1407	Introduction to Chemistry II
COURSE	COURSE		CHEM 191	CHEM 1411	General Chemistry I
			CHEM 192	CHEM 1412	General Chemistry II
Accounting			CHEM 193	CHEM 1170	Biochemistry
ACCT 191	ACCT 2301	Principles of Accounting I	CHEM 291	CHEM 2423	Organic Chemistry I
ACCT 192	ACCT 2302	Principles of Accounting II	CHEM 292	CHEM 2425	Organic Chemistry 11
Anthropolog	ŢΥ		Communic		Organic Chemistry 11
ANTH 151.	ANTH 2351	Cultural Anthropology	COMM 150	COMM 2371	Survey of Recording Techniques I
Art		1 27	COMM 151	COMM 2324	Survey of Recording Techniques I Survey of Recording Techniques II
ART 190	ARTS 1301	Art Appreciation			Survey of Recording Techniques IT
ART 191	ARTS 1311	Design I	Computer S		an .
ART 192	ARTS 1312	Design II	CPSC 135	COSC 1320	C Programming
ART 193	ARTS 1316	Drawing I	CPSC 150	COSC 1306	Introduction to Computers
ART 194	ARTS 1317	Drawing I Drawing II	CPSC 190	COSC 1318	Programming Concepts I
ART 194 ART 195	ARTS 1317 ARTS 1370	Problems in Contemporary Art	CPSC 191	COSC 2318	hogramming Concepts II
ART 195	ARTS 231I	Design III Color Theory	CPSC 210	COSC 2325	Assembly Language 1
ART 190 ART 249	ARTS 1325	Art for Elementary educators	CPSC 292	COSC 1317	Scientific Programming
ART 249 ART281	ARTS 1323 ARTS 2326	Sculpture I	CPSC 293	COSC 2333	PL/I Programming
ART 282	ARTS 2320 ARTS 2327	Sculpture I	Criminal Jus	rtice	
ART 282 ART283	ARTS 2327 ARTS 2346	Ceramics I	CRJS 151	CRIJ 1307	Crime in America
ART 284		Ceramics II	CRJS 152	CRIJ 1301	Introduction to Criminal Justice
ART 285	ARTS 2347 ARTS 2333	_	CRJS 153	CRIJ 1310	Fundamentals of Criminal Law
ART 285 ART286	ARTS 2334	Printmaking I	CRJS 154	CRIJ 1306	The Courts and Criminal Justice
ART 291	ARTS 2334 ARTS 2316	Printmaking II	Economics		
ART 291 ART 292	ARTS 23 17	Painting I Painting II	ECON 121	ECON 1301	Introduction to Economics
ART 292 ART293	ARTS 2317 ARTS 2366	Watercolor I	FCON 29I	ECON 2301	Principles of Economics—Macro
ART 293	ARTS 2367	Watercolor II	ECON 292	ECON 2302	Principles of Economics — Micro
ART 294 ART 295	ARTS 1303	Art History I	English	2001,2002	Timelples of Economics Timelo
ART295 ART296	ARTS 1303 ARTS 1304	Art History II	ENGL151	ENGL 1301	Composition/Rhetoric I
ART290 ART297	ARTS 2323	Life Drawing	ENGL 151 ENGL 152	ENGL 1301 ENGL 1302	Composition/Rhetoric II
ART298	ARTS 2323 ARTS 2336	Fibers I	ENGL 132 ENGL 241	ENGL 1302 ENGL 2307	Creative Writing
ART 299	ARTS 2337	Fibers II	ENGL 251	ENGL 2339	Forms of Literature I
	AK13 2331	11001511	ENGL 252	ENGL 2340	Forms of Literature II
Biology	DIOI 1400	Tradict Pid T	ENGL 253	ENGL 2322	British Literature I
BIOL 151	BIOL 1408	Introduction to Biology I	ENGL 254	ENGL 2323	British Literature II
BIOL 152	BIOL 1409	Introduction to Biology II	ENGL 254 ENGL 255	ENGL 2323 ENGL 2327	American Literature I
BIOL 153	BIOL 1470	Marine Biology	ENGL 256	ENGL 2328	American Literature II
BIOL 155	BIOL 1471	Human Anatomy and Physiology	ENGL 257	ENGL 2332	World Literature I
BIOL 191	BIOL 1406	General Biology I	ENGL 257 ENGL 258	ENGL 2332 ENGL 2333	World Literature I
BIOL 192	BIOL 1407	General Biology II	ENGL298	ENGL 2333 ENGL 2311	Technical Writing
BIOL 264	BIOL 2470	Human Genetics			recinical writing
BIOL 281	BIOL 1411	General Botany	Engineering		F ' ' G 1'
BIOL 283	BIOL 2418	Invertebrate Zoology	ENGR 151	ENGR 1304	Engineering Graphics
BIOL 284	BIOL 2428	Vertebrate Zoology	ENGR 191	ENGR 2301	Engineering Mechanics I
BIOL 291	BIOL 2401	Anatomy and Physiology I	ENGR 192	ENGR 2302	Engineering Mechanics II
BIOL 292	BIOL 2402	Anatomy and Physiology II	ENGR 291	ENGR 2332	Materials and Processes
BIOL 293	BIOL 2416	Microbiology	ENGR 292	ENGR 2405	Electtical Circuit Analysis
BIOL 294	BIOL 2416	Genetics			

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CCCC COURSE	COMMON COURSE	TITLE	CCCC COURSE	COMMON COURSE	TITLE
French			HPED 152 HPED 154	PHED 1112 PHED 1113	soccer Softball
FREN 191	FREN 1411	Beginning French I	HPED 156	PHED1114	Volleyball
FREN 19 2 FREN 291	FREN 1412 FREN 2311	Beginning French II Intermediate French I	HPED 160	PHED 1131	Beginning Swimming
FREN 291	FREN 2311 FREN 2312	Intermediate French II	HPED 161	PHED1132	Intermediate Swimming
FREN 293	FREN 1100	French Conversation I	HPED 163	PHED 1 134	Advanced Life Saving
FREN 294	FREN 11 10	French Conversation II	HPED 164	PHED 1135	Water Safety Instruction
FREN 295	FREN 2303	French Literature I	HPED 165	PHED 1151	Beginning Scuba
FREN 296	FREN 2304	French Literature II	HPED 166	PHED 1152	Advance Open-Water Scuba
Geography			HPED 170	PHED 1126	Self Defense
GEOG 151	GEOG 1301	Physical Geography	HPED 171	PHED 1127	Beginning Karate
GEOG 152	GEOG 1302	Cultural Geography	HPED 172	PHED1130	Wrestling Intermediate Karate
Geology		3 1 1	HPED 173 HPED 180	PHED 1128 DANC 1 151	Dance Performance
GEOL 191	GEOL 1403	Physical Geology	HPED 184	DANC 1201	Improvisation
GEOL 192	GEOL 1404	Historical Geology	HPED 186	DANC1131	Popular Social Dance
GEOL 193	GEOL 2409	Rocks and Minerals Identification	HPED 187	DANC 1110	Beginning Tap
German			History	212101110	2 vgg rup
GERM 191	GERM 1411	Beginning German I	HIST 151	HIST1301	U.S. History I
GERM 192	GERM 1412	Beginning German II	HIST 152	HIST 1302	U.S. History 11
GERM 291	GERM2311	Intermediate German I	HIST 251	HIST 2311	Western Civilization I
GERM292	GERM2312	Intermediate German II	HIST 252	HIST 2312	Western Civilization II
GERM 293	GERM1100	Conversational German I	HIST 253	HIST 2301	History of Texas
GERM 294	GERM1110	Conversational German II	HIST 297	HIST 2370	Studies in U.S. History
Health Scie		NT 4 141	HIST 298	HIST 2371	Advanced Studies in U.S. History
HLSC 191	BIOL 1322	Nutrition	Humanities		*
Health, Phy HPED 101	ysical Education PHED 1301		HUM 151	HUMA 1301	Introduction to the Humanities
HPED 101	PHED 1301	Introduction to Physical Education Personal Health	Japanese	TA DNI 1 411	D : : I 1
HPED 103	PHED 1304	Sports Officiating	JAPN 191	JAPN 1411	Baginning Japanese 1
HPED 106	PHED 1306	Safety and First Aid	JAPN 192	JAPN 1412	Beginning Japanese II
HPED115	PHED 1115	Archery	Journalism		Inter-de-di-mat-MC
HPED 116	PHED 1116	Badminton	JOUR I51	COMM I307	Introduction to Mass Comm.
HPED 117	PHED1117	Beginning Tennis	JOUR152 JOUR153	COMM 2311 COMM 2315	News Gathering and Writing I News Gathering and Writing II
HPED 118	PHED1118	Intermediate Tennis	JOUR251	COMM 1335	Survey of Broadcasting
HPED119	PHED1119	Advanced Tennis	Mathematic		Survey of Broadcasting
HPED 120	PHED 1 120	Beginning Racquetball	MATH 150	MATH 1332	Contemporary Mathematics
HPED 121	PHED 1121	Intermediate Racquetball	MATH 150	MATH 1332	Pre-Cal for Business and Econ
HPED 122	PHED 1122	Advanced Racquetball	MATH 152	MATH 1325	Calculus for Business and Econ
HPED 123 HPED 124	PHED 1123 PHED 1124	Beginning Golf Intermediate Golf	MATH 153	MATH 1342	Statistics
HPED 126	PHED 1124 PHED 1125	Bowling	MATH 181	MATH 1314	College Algebra
HPED130	DANC 1171	Beginning Aerobic Dance	MATH 182	MATH 1316	Trigonometry
HPED 131	DANC 1172	Intermediate Aerobic Dance	MATH 183	MATH 1348	Analytic Geometry
HPED 132	DANC 1173	Advanced Aerobic Dance	MATH 187	MATH 2312	Pre-Calculus for Math and Science
HPED133	DANC 1145	Modern Dance	MATH 191	MATH 2413	Calculus I
HPED 135	DANC 1147	Beginning Jazz Dance	MATH 192	MATH 2414	Calculus II
HPED136	DANC 1148	Intermediate Jazz Dance	MATH 291	MATH 2415	Calculus III
HPED 137	DANC 1141	Beginning Ballet	MATH 292	MATH2318 MATH 2320	Linear Algebra Differential Equations
HPED 138	DANC 1142	Intermediate Ballet	MATH 293	WIA111 2320	Differential Equations
HPED 139	DANC 1122	Folk Dance	<i>Music</i> MUS140	MUSI 1301	Music Fundamentals
HPED 140 HPED 141	PHED1100 PHED I102	Beg. Weight Training and Cond Int. Weight Training and Cond	MUS 145	MUSI 1310	Music in America
HPED 141	PHED 1102	Adv. Weight Training and Cond	MUS 150	MUSI 2143	Choir
HPED 142	PHED 1104	Beginning Jogging and Fitness	MUS 151	MUSI 1311	Music Theory I
HPED 144	PHED 1105	Intermediate Jogging and Fitness	MUS 152	MUSI 1 1 16	Aural Skills 1
HPED 145	PHED 1106	Walking and Fitness	MUS 153	MUSI 1312	Music Theory II
HPED 146	PHED 1107	Cycling	MUS 154	MUSI 1117	Aural Skills ĬI
HPED 148	PHED 1108	Cross Training I	MUS 155	MUSI 1183	Class Voice
HPED 149	PHED 1109	Cross Training II	MUS 156	MUSI 1184	Class Voice II
HPED150	PHED 1111	Basketball	MUS 157	MUSI 1192	Class Guitar

MUS 1193	CCCC COURSE	COMMON COURSE	TITLE	CCCC COURSE	COMMON COURSE	TITLE
MUS 161 MUS 1171 Class Piano The SYC 252 PSYC 2319 Social Psychology of Presonality PSYC 253 PSYC 2319 Social Psychology of Presonality PSYC 2319 PSYC 2319 PSYC 2319 PSYC 2310 PS						Psychology of Adjustment
MUSI 1612 MUSI 1172 Class Piano II MUSI 1618 MUSI 1272 Introduction to Synthesizer PSYC 255 PYSC 2371 PSYC 2571 PSYC 2572 PSYC 2						
MUS 167					PSYC 2319	
MUSI 168 MUSI 1173 Introduction to SynthesizerII PSC 151 PSC 237 PSC 237 Selected Topics in Psychology PSC 237 Selected Topics in Psycholo						
MUS 170 MUS 1131 Ensemble Minor Vocal Ensembles Russian MUS 180 MUS 1119 Minor Vocal Ensembles RUSN 191 RUSS 141 Beginning Russian I MUS 181 MUS 11130 Music Appreciation RUSN 192 RUSS 141 Beginning Russian I MUS 1251 MUS 1231 Music Theory III Sociology MUS 252 MUS 12312 Music Theory III SOC 153 SOCI 130 MUS 253 MUS 12313 Aural Skills II SOC 153 SOCI 2306 SOCI 2306 MUS 254 MUS 11813 Aural Skills IV SOC 251 SOC 231 SOCI 2306 MUS 255 MUS 11813 Arranging SOC 251 SOC 234 SOC 234 MUS 257 MUS 11818 Beginning Plano II SOC 255 SOC 224 Music Literature I MUS 290 MUS 12182 Beginning Plano Proficiency IV Branch Proficiency IV SPAN 191 Beginning Spanish I MUS 295 MUS 12371 Music Literature I SPAN 191 SPAN 191 Beginning Spanish II MUS 297 MUS 12372 <t< td=""><td></td><td></td><td>Introduction to Synthesizer Introduction to Synthesizer II</td><td></td><td></td><td></td></t<>			Introduction to Synthesizer Introduction to Synthesizer II			
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PSYC 151 PSYC 2301 General Psychology			GeneralPsychology			
PSYC 153 PSYC 2306 Human Sexuality	PSYC 153	PSYC 2306	Human Sexuality			

FACULTY DIRECTORY

Abbott-White, Jessle Programmer II B.S., University of North Texas CPC/A134, 548-6646

Adams, Clean
Professor, Computer Aided Design/
Engineering
M.S., University of Texas at El Paso

B.S., Tarleton State University CPC/A222, 548-6834

Adler, William

Professor, Psychology Ph.D., University of North Texan M.A., Southern Methodist University B.A., Temple University SCC/K230, 881-5960

Atendis, Stmn J.

Instructional Associate, Biology B.S., Texas A&M University SCC/J224, 881-5946

Agboaye, Ehikioya

Professor, Political Science Ph.D., University of North Texas M.A., University of North Texas B.A., University of North Texas SCC/G214, 881-5914

Ahmad, Jamil

ALC Lab Assistant B.A., University of **Cklahoma** SCC/D154, 881-5868

Akins, Lee

Professor, Art M.F.A., Southern Methodist University B.F.A., College of the Dayton Art Institute SCC/B135, 881-5951

Alarcon, Miguel Science Lab Assistant SCC/H105, 881-5894

Allen, Toni P.

Dean, Enrollment Management M.S., University of North Texas B.S., Arizona State University SCC/G111, 881-5792

Allison, Brian

Professor, Music D.M.A., University of North Texas M.M. Indiana University B.A. California State University SCC/B182, 881-5813 Allison, Carma

Clerk, Developmental Math M.A., Auburn University B.S.E., University of Central Arkansas SCC/J229, 881-5921

Andrade, Mary Anne

Pmfessor, English Ph.D., University of London M.A., Southern Methodist University BA., University of Texas at Austin SCC/B106, 881-5823

Anglin, Deborah Coordinator, Student Peer Tutoring B.A., Texas Tech University

Anthony, John H.
President
Ed.D., Temple University
M.Ed., Temple University
B.S., Susquehanna University

SCC/G203, 881-5678

Ardis, William

CPC/A130, 548-6601

Pmfessor, Mathematics M.S., University of Texas **at Dallas** B.S., University of Texas **at** Dallas SCC/J226, 881-5896

Armijo, Julio

Physical Plant Worker CPC/A151, 548-6690

Art, Sharyn Assistant Manager, Bookstore SCC/G126, 881-5681

Armstrong, Suzanne Revenues and Receivable8 Accountant

B.S., University of Noah Texas CPC/B220, 548-6637

Austin, Juanita

Dean, Developmental Education S.C.T. Murray State University M.A., Murray State University B.S., Lane College SCC/K106, 881-5721

Bachman, Julie

Accounting Manager B.A., University of Michigan M.P.A., University of Texas at Arlington CPC/B212, 548-6632

Bagby, Judy

Data Clerk, Business Office CPC/B213, 548-6639

Bailey, Dawn Secretary, Computer Services CPC/A123, 548-6640

Bains, Tracy ALC Lab Assistant SCUD156, 881-5969

Baker, Bill

Software Support Technician BA., McMurry College SCC/B218, 881-5768

Bakner, Arlene

Instructional Associate, Developmental Mathematics M.A.T., University of fexas at **Dallas** B.S., Towson State University SCC/J241, 881-5959

Baltzer, John

Professor, Electronics
Dip.Ed., University of W. Ontario
B.A.A.S., University of North
Texas
A.A.S., Fanshawe College
SCC/H128, 881-5794

Banta, Patricia

Professor, Real **Estate**M.A., Southern Methodist
University
B.S., Pennsylvania **State** University
SCC/B120, 881-5837

Barck, Catherine

Coordinator, ALC

M.S. North Texas State University
BA, College of St. Benedict
SCC/D154, 881-5864

Beam, Jonathan

Telecommunications Technician II SCC/H253, 881-5669

Beck, Jef

Lab Assistant, Science and Health B.S., Dallas Baptist University SCC/J224, 881-5946

Beck, Larry A.

Professor, Business Administration M.B.E., University of North Texas M.Ed., University of North Texas B.S., Drake University SCC/J103, 881-5832

Beckman, Curtis

Counselor/Adviser, Project SPARK M.A., University of Wisconsin, Madison B.A., Westmar College SCC/G201, 881-5676 Beebe, Patricia

Executive Director, JTPA
M.S., University of Wisconsin
M.S. JUniversity of Wisconsin
B.S. Wisconsin State University
Bane Texas, McKinney-Suite 360
542-0490

Bell, Mike

Professor, Biology M.S., Memphis State University B.A., Hendrix College SCC/H222, 881-5668

Berryman, Martin Q. Professor, HPED and Tennis Coach M.S., East Texas State University B.S., East Texas State University SCC/A212, 881-5884

Boatright, Carole

Division Secretary, **Business** and Engineering A.A., Collin County Community College CPC/A208, 548-6830

Boliver, Doug

Instructional Associate, Biology B.S., Gannon University SCC/J224, 881-5946

Boring, Brian

Telecommunication Analyst B.A., University of North Texas CPC/A136, 548-6644

Bosbyshell, Joan

Registration Assistant, Registrar's office SCC/G103, 881-5745

Boyd, John

Physical Plant Worker CPC/A151, 548-6690

Boyd, Rodney

Professor, Humanities M.F.A., California State M.A., California State B.F.A., North Texas State University SCC/D240, 881-5948

Bradford, Johnnie Child Development Teacher A.S., Los Medano College SCC/B176, 881-5940

Brown, Denise M.
Professor, Mathematics
M.S. University of North Texas
B.S., University of Texas at Dallas

SCC/B134, 881-5886

Brown, Jacquelyn

Professor, Nursing M.S.N., University of North Camlina B.S.N., Winston-Salem State University CPC/A321, 548-6885

Brown, Nancy

Administrative Assistant, Social Sciences B.S., Middle Tennessee State SCC/B240, 881-5806

Brown, Peggy

Professor, English/Humanities Ph.D., University of Texas at

M.A., University of Texas at Dallas B.A., University of Texas at Dallas SCC/H236, 881-5808

Broyles, Michael

Professor, Physics M.S., University of Hawaii M.S.T., University of Wisconsin BA., San Francisco State University SCC/J139, 881-5882

Burch, Peggy

Associate Registrar B. S.Texas Women's University AA., Collin County Community College

SCC/G103, 881-5741

Burgett, Carolyn

Internal Auditor B.B.A., Tarleton State University CPC/A132, 548-6629

Burton, Wendy

Coordinator, Instructional Television B.B.A., Hardin-Simmons University SCC/D132, 881-5828

Campbell, Richard

Physical Plant Worker CPC/A151, 548-6690

Cantu, Maria

Training Employment Coordinator, JTPA BancTexas, McKinney-Suite 360 542-0490

Carroll, Stephen M.

Computer Operations Specialist CPC/A134, 548-6689

Case, George

Training Employment Coordinator, Pittman Office Building, Plano 964-3962

Cartmill, Donna

Bursar

SCC/G115, 881-5634

Cavanaugh, Helene

Coordinator, Job Developer, CWE M.A., Lesley College B.S., Northeastern University SCC/B235, 881-5735

Cereijo, Vicki

Professor, Computer Science M.S. Corpus Christi State University

BA., University of Northern Iowa CPC/A217, 548-6826

Cham, Sara

Division Secretary, Dean of Students CPC/A108, 548-6770

Cheatham, Craig J.

Technical Support Specialist SCC/B218, 881-5769

Ciofani, Therese

Secretary, Continuing Education SCC/F105, 881-5853

Cobb. Sherill

Professor, English

M.A., Texas Woman's University B.A.. Texas Woman's University SCC/C156, 881-5812

Cockerell, Gloria

Professor, Marketing M.A., University of Texas at Dallas MA., University of North Texas B.S., University of Texas at Austin A.A., Kilgore College SCC/J247, 881-5736

Cohick, Mike

Professor, Economics Ph.D., University of North Texas M.A. . Webster University M.S.. University of Washington B.S., Pennsylvania State University B.S., University of Utah SCC/J104, 881-5840

Collins, Billie K.

Director, Articulation and Transfer BS., Texas Woman's University SCC/G229, 881-5758

Collins, Larry

Professor. History M.A., University of North Texas B.A., University of North Texas CPC/A353, 5484820

Collins, Roberta

Switchboard Operator/Information Center Clerk SCC, 881-5790

Comley, Anita

Professor, Nursing M.S.N., Gwynedd Mercy College B.S.N., Indiana University of Pennsylvania CPC/A320, 448-6875

Conry, Linda

Professor, Developmental Writing M.A., Louisiana Tech University B.A., Louisiana Tech University SCC/D115, 881-5915

Cook, Joanne

Accounts Payable, Business Office CPC/B209, 548-6636

Corner, Barbara D.

Division Secretary, Physical Plant B.S., Abilene Christian University SCC/K029, 881-5690

Cosgrove, Rita

Professor, Economics J.D, University of Tulsa M.A., University of Hatford BA, University A.S., Greater Hartford Community College CPC/A229, 548-6889

Cotter, Cathy M. Professor, Art

M.A., East Texas State University B.S.. East Texas State University SCC/B131, 881-5817

Coughlin, Vickie L.

Adviser, Financial Aid/Veteran's Affairs B.A., University of Tmas at Dallas A.A., Kansas City Community College CPC/A111, 548-6760

Coulter, Matthew

Professor, History

M.A., southern Illinois university B.S., Southern Illinois University SCC/B116, 881-5816

Cowan, Elizabeth

Circulation Assistant, LRC BA., University of Oklahoma SCC/D149, 881-5860

Crme, Julie

Secretary, Human Resources SCC/K218, 881-5666

Cnwford, Joan

Secretary, Testing Center SCC/J232, 881-5922

Crawford, Michael

Professor, Music M.A., Eastern Washington University BA., Bastern Washington University SCC/B183, 881-5807

Crewe, Omri

Instructional Associate, Developmental Mathematics B.S., Virginia State University CPC/B338, 548-6896

Crowell, Rebecca C.

Admissions Associate SCC/G103, 881-5711

Culberson, Mary

Director, Recruitment and orientation B.A., Midwestern State University SCC/G116, 881-5712

Cullen, David

Professor, History MA., University of North Texas BA., University of North Texas SCC/K227, 881-5965

Cunningham, Billie

Professor, Accounting Ph.D., University of North Texas M.B.A., University of North Texas B.B.A., University of Noah Texas SCC/G232, 881-5847

Daugherty, Janet

MIS Intake, JTPA BancTexas, McKinney-Suite 360 542-0490

Day, Dede

Project Assistant, Global EDGE CPC/B252, 448-6730

DeGeeter, Patricia

Professor, Office Administration M.S., Northern Illinois University B.S., Illinois State University SCC/J116, 548-5839

DeLeon, Glenda M.

Testing Specialist, Testing Center AA., Collin County Community College

SCC/F132, 881-5902

Demler, Sandra

Switchboard Operator/Information Center SCC, 881-5790

Dennis, Greg

Professor, HPED and Baseball Coach

M.S. Baylor University B.S., Baylor University SCC/C153, 881-5927

DeSoyza, Kumi

Clerk, Testing Center SCC/J232, 881-5922

Devitt, Barbara Pmfessor, Nursing M.S.N., University of Nebraska B.S.N., University of Nebraska CPC/A308, 548-6884

DeWees, Steve

Clinical Coordinator, Respiratory

A.A.S., Odessa College CPC/A324, 548-6719

Dillingham, William A.

Director, Technical Services B.B.A., Abilene Christian University CPC/A306, 548-6641

Dobbs, Vickie J.

Division Secretary, Financial Aid B.S., East Texas State University SCC/G103, 881-5760

Doine, Cheri A.

Student Development Adviser M.S., University of Wisconsin, B.S., University of Wisconsin,

Stevens Point SCC/G105, 881-5774

Ducote, Richard

Dean, Library/Learning Resources Center

M.S., Louisiana State University B.S., Louisiana State University SCC/D123, 881-5861

Duffer, Cynthia

Accounting Clerk, Bookstore SCC/G124, 881-5682

Duncan, Jack

Employment Training Coordinator,

BancTexas, McKinney-Suite 360 542-0490

Dunham, Kathy

Secretary, Continuing Education A.A., Collin County Community College SCC/F105, 881-5854

Dunlop, Ruth

Secretary, Instruction CPC/A208, 548-6800

Dunkle, Sidney

Professor, Biology Ph.D., University of Florida M.S., University of Wyoming B.S., Baldwin Wallace College SCC/J216, 881-5989

Dupont, Helen E.

Human Resources Specialist SCC/K216, 881-5662

Durbin, Diane

Periodicals Assistant, LRC CPC/B105, 548-6860

Durham, Karen

Employment Training Coordinator, JTPA

Pittman OfficBuilding, Plano 964-3962

Dysart, Patricia

Division Secretary, Business and Engineering SCC/F135, 881-5831

Eckoff, Wilma

Executive Secretary,

Administrative Services CPC/B209, 548-6620

Edwards, Jeff Professor, Economics M.S., University of Arkansas B.A., University of Arkansas B.S., University of Arkansas SCC/G217, 881-5833

El-Ashmawy, Amina

Pmfessor, Chemistry M.S., Texas A&M University B.A., Texas A&M University A.S., Kilgore College SCC/K226, 881-5961

Ellis, Martha

Director, Staff, Program and Organizational Development Professor of Psychology B.A., American Christian College M.A., University of Texas at Dallas CPC/A125, 548-6606

Ellis, Steve E.

Vice President, Instruction Ph.D., University of North Texas M.A., University of North Texas B.A.. University of North Texas SCC/G228, 881-5801

Emerson, Mary

Pmfessor, CIS M.A., University of Noah Texas B.A., East Central State University SCC/J115, 881-5953

Erickson, Craig

Technical Director, Theatre B.F.A., University of Texas at Austin SCC/B132, 881-5804

Eubanks, Barbara

Director, Cooperative Work Experience M.B.A., University of Houston/

Clear Lake B.A., Southeastern Louisiana University

A.A.S., Texas Southmost College SCC/B229, 881-5733

Evans, D. Marie Accounts Payable Supervisor CPC/B213, 548-6634

Evans, Susan

Professor, HPED and Volleyball

M.A., Texas Woman's University B.S., East Stroudsburg State University SCC/A211, 881-5899

Everett, Sandra

Accounting Clerk, JTPA BancTexas, McKinney-Suite 360 542-0490

Farr, Kent

Systems Analyst/Programmer B.B.A., University of Oklahoma CPC/A134, 548-6643

Farrar, Susan B.

Director. Academic Computing M.S., University of Texas at Austin B.S., university of Wisconsin SCC/B218, 881-5844

Farrell, Karen

Reference Librarian, LRC M.Ed., University of Arizona M.L.S., University of Noah Texas B.A., University of Texas at Arlington SCC/D117, 881-5730

Fenno, Samantha Lab Assistant. ALC SCC/D116, 881-5673

Fields, Mary C.

Professor, Chemistry M.S., University of South Carolina B.S., Francis Marian College SCC/H112, 881-5883

Fields, Todd Accounting Clerk, Bookstom B.S., East Central University SCC/G124, 881-5685

Fink, Keli

Clerk/Typist, JTPA BancTexas, McKinney-Suite 360 542-0490

Fitz-Gerald, Jimmy

Student Development Adviser B.G.S., Texas Tech University SCC/G116, 881-5773

Flores, Modesto

Physical Plant Worker SCC/K029, 881-5690

Fowler, Carole Administrative Assistant, Small Business Development Center A.A., Panola Junior College Plano Market Square, Plano 881-0506

Franus, Myriam Associate, Financial Aid/Veterans

BA., Stockton State College \$CC/G103, 881-5762

Frelman, Karen Assistant Director, JTPA M.Ed., University of Arizona B.S., Denison University BancTexas, McKinney-Suite 360 542-0490

Furnas, Sue

Administrative Assistant, Business and Engineering A.A.S., Collin County Community College SCC/H233, 881-5830

Garcia, Manuel

Graundskeeper CPC/A151, 548-6690

Garrison, Allan

Systems Manager/Programmer B.B.A. West Texas State University CPC/A133, 548-6642

Garrison, David Professor, Political Science Ph.D., University of North Texas M.A., University of Arkansas, Fayettevlie B.A., Hendrix College SCC/G229, 881-5815

Gaulke, Marjorie

Payroll Assistant, Business Office CPC/B214, 548-6624

Gee, Leslie

Programmer Analyst/Liaison, Enrollment Management B.S., Park College CPC/A140, 548-6777

Gerson, Charlene

Job Developer, Employment Resource Center M.Ed., East Texas State University B.A., State University of Iowa CPC/B117, 548-6857

Glosson, David Lab Assistant, Arts and Humanities SCC/K208, 881-5728

Gober, Lydia

Marketing Coordinator, JTPA MA., Northern Illinois University B.A., Northern Illinois University BancTexas, McKinney-Suite 360 542-0490

Godwin, Judy Professor, Developmental Mathematics

M.A.T., University of **Texas at** Dallas

B.S., **North Texas State** University SCC/J240, 881-5954

Gray, Jack **B**Vice President, Institutional
Advancement

M.A., University of **Oklahoma** B.S., Northwwt **Missouri** State University CPC/A112, 548-6612

Greenlees, Patsy

Accounting Clerk, Bookstom SCC/G124, 881-5667

Grooms, Chris

Professor, English
Ph.D., University College of Wales
MA., Stephen F. Austin State
University
B.S., Stephen F. Austin State
University
SCC/K226, 881-5952

Guyer, Judy Administrative Assistant, Cooperative Work Experience SCC/B228, 881-5734

Haggard, Yvonne Secretary, Employment Resource Center CPC/B107, 548-6844

Hall, Ralph C.

Acting Vice President, Administrative Services B.B.A., Southeastern Oklahoma State University CPC/B210, 548-6631

Haley, Keith

Professor, Criminal Justice M.S, Michigan State University B.S., Wright State University SCC/D241, 881-5984

Hampton, Dinah G. Secretary, VPI/Academic Computing SCC/B218, 881-5766

Hanson, Stephanie Administrative Assistant, Developmental Education SCC/K104, 881-5720

Hardy, Steve **H.**Associate Dean, Continuing Education
M.B.A., Baylor University
B.A., Baylor University
SCC/F136, 881-5851

Harmon, Shirley

Admissions Supervisor SCC/G103, 881-5710

Haroutunian, Barbara

Manager, Benefits and Employee Relations BA., Michigan State University CPC/B217, 548-6663

Harris, Vicki B.

Registrar B.S., University of Texas at Dallas A.A., Collin County Community College CPC/A139, 548-6741

Hayden, Karen

Professor, Developmental Writing M.A. University of Texas at Arlington B.A., University of Texas at Arlington CPC/B318, 548-6898

Hays, Keith Professor, Music M.M., Southern Methodist University B.M., Henderson State University SCC/B220, 881-5973

Helgeson, Jean Professor, Biology M.A., Southwestern Graduate School, UTHSCD B.S., University of Oklahoma SCC/J138, 881-5885

Henderson, Freddy Network Security Technician B.A., University of North Texas SCC/K107, 881-5767 Henry, Michelle
MIS Intake Interviewer, JTPA
BancTexas, McKinney-Suite 360
542-0490

Herrera, Silvia

Physical Plant Worker SCC/K029, 881-5690

Hight, Gina Secretary, Law Enforcement CPC/A355, 548-6861

Hill, Betty L.

Associate, Enrollment Management CPC/A111, 548-6742

Hill, Cherie

Records Assistant, Human Resources CPC/B216, 548-6662

Hoag, Stephen Training Employment Coordinator, JTPA BancTexas, McKinney-Suite 360 542-0490

Hobbs, David

Coordinator, Technical Services SCC/D218, 881-5866

Hodge, Gary

Professor, Sociology
M.A., Texas Christian University
B.A., University of Texas at
Arlington
SCC/G126, 881-5820

Hoglund, Susan

Assistant, Student Activities B.A., Texas A & M University SCC/F129, 881-5785

Holland, Dennis

Program Analyst, Computer Services B.A., University of Maryland CPC/A134, 548-6688

Holloway, Mary Jane Secretary, Physical Plant CPC/A150, 548-6690

Hesack, Sharon

Professor, Mathematics M.S., Florida state University BA., Florida State University SCC/H116, 881-5887

Howard, **Tony J**. Professor, English M.A., Southern Methodist University B.A., University of **Dallas** CPC/B330, 548-6804 Howry, Cindy K.
Professor, Computer Science and
Software Development
M.S., University of North Texas
B.S., University of North Texas
SCC/J125, 881-5838

Huey, Peter

Professor, Accounting M.B.A., Central Oklahoma State University B.S.B.A., Southwestern Oklahoma State University CPC/A250, 548-6890

Ingram, Stephanie M

Career Advising Associate, Future Shop

B.S., Texas Woman's University

SCC/G105, 881-5775

Jack, Billy Building Service Helper CPC/A151, 548-6690

Jackson, Ron
Assistant Director, Plant
Operations

Operations SCC/K028, 881-5698

James, Bill

Computer Operator B.A. Arnber University CPC/A113, 548-6645

James, Washington

Professor, Computer Information Systems M.B.A., Golden Gate University B.S., Park College AA., Northern Virginia Community College SCC/J127, 881-5836

Jaynes, Joe

Professor, History
M.S., East Texas State Univmity
B.S., East Texas State University
A.A., Bastfield Community College
SCC/H221, 881-5822

Jenkins, Carol L.

Associate, Student Activities A.A., Lansing Community College CPC/B251, 548-6787

Jenkins, Joan

Professor, History Ph.D., University of North Texas MA., University of North Texas BA., University of Texas at Austin SCC/J244, 881-5829

Jennings, Cynthia Clerk/Cashier SCC/G115, 881-5634 Johnson, Charles

Professor, Math Ph.D., University of North Texas M.S., Noahwestern State University B.S., Northwestern State University SCC/G224, 881-5722

Johnson, Norma

Student Development Adviser M.A., Texas worsen's University B.S., Southern University CPC/A111, 548-6778

Johnson, Yvonne
Professor,
Ph.D., University of Texas at Dallas
MA. Juniversity of Colorado
B.S.E., University of Arkansas,
Fayetteville
SCC/G223, 881-5834

Joiner, Frankle Registration Specialist, Registrar's office SCC/G103, 881-5743

Jones, Chris A.
Director, small Business
Development Center
B.A., University of Texas, Tyler
Plano Market Square, Plano
881-0506

Jones, Dorothy Records Assistant, Registrar's office CPC/A111, 548-6744

Jona, Eva Assistant Manager, Bookstore CPC/A106, 548-6681

Jon⇔, Karen Secretary, Purchasing CPC/B209, 548-6672

Jones, U. Lynn
professor, Political Science
Ph.D., University of Missouri,
Columbia
M.S., University of North Texas
B.A., University of Nath Texas
SCC/J107, 881-5841

Jordan, Mary
Grants and Contract Accountant,
Business Office
B.A., Texas Tech University
CPC/B209, 548-6625

Justice, Pamela Professor, Physics Ph.D., Pennsylvania State University M.S., Pennsylvania Stat0 University B.A., Albion College SCC/J217, 881-5909 Kappus, Sheryl S.

Dean, Science and Health Division Ph.D., Texas Woman's University M.S., Texas Woman's University B.S., University of South Alabama SCC/K 105, 881-5881

Karr, Rosemary

Professor, Developmental Mathematics M.A., Eastern Kentucky University B.S., Eastern Kentucky University CPC/B333, 548-6638

Keel, Jefferson coordinator, Special Populations M.S., Troy State University B.S., East Central University SCC/G202, 881-5971

Kelley, Sylvia
Manager, Marketing and
Evaluation, Global EDGE
B.S., University of San Fransisco
A.S., College of Sequoias

Kelly, William Administrative Assistant, Arts & Humanities SCC/B105, 881-5857

CPC/B252, 548-6731

Kennedy, JOM Professor, English M.A., University of Texas at Dallas B.A., University of Mary Hardin-Baylor

A.A., Temple Junior College SCC/H212, 881-5980

Kerby, Kathy Division Secretary, Social Sciences A.A., Collin County Community College SCC/B240, 881-5800

Kibby, Esther Professor, Advertising Art B.A., East Texas State University SCC/K.118, 881-5968

Kile, Sidney
Operations/Maintenance
Technician
SCC/K026, 881-5694

Killen, Robert
Programmer Assistant I
B.S., Southwest State University
AA, St. Louis Community
College, Meramec
CPC/A134, 548-6648

Knapp, Nancy Records Assistant, Registrar's Office SCC/G103, 881-5744 Kunz, Russell

Professor, Management Development M.S., Texas **Tech** University B.B.A., Texas Tech **University** SCC/B118, 881-5819

LaFollett, Jean Administrative Assistant, Human Resources CPC/B216, 548-6660

LaFon, Joy Buying Specialist CPC/B209, 548-6670

LaGrone, Judy J.
Executive Assistant to the
President
A.A., San Antonio Junior College
CPC/A124, 548-6600

Lalanne, Charles AV Assistant, LRC BA, Columbia University SCC/D205, 881-5932

Lane, Shelley D.
Professor, Speech Communications
Ph.D., University of Southern
California
M.A., University of Southem
California
B.A., University of California at
Los Angeles

Lasek, Margie
Director, Student Activities
M.Ed., Texas A & M University
B.S., Texas A & M University
SCC/F126, 881-5787

SCC/B108, 881-5821

Lay, Susan Advising Specialist/Employment Counselor B.S., University of Nath Texas CPC/B123, 548-6886

LeForge, Charlotte A.
Assistant, Caroor Planning and
Placement
SCC/G105, 881-5784

Lehr, Tania Infonnation Center Clerk/ Receptionist SCC, 881-5790

Lettner, Peter
Director, Audio/Visual Services
and Circulation
A.A.S.B., American Institute of
Engineering
SCC/D208, 881-5862

Leone, Nora.

Program Assistant, Texas Resource Center CPC/B252, 548-6734

Lewis, Ted professor, Political Science M.S., University of North Texas B.A., Texas Wesleyan University CPC/B328, 548-6813

Lidell, Debbie
Secretary, Science & Health
B.A., University of Nath Texas
CPC/A305, 548-6880

Light, Colin
Program Developer, Continuing
Education
B.S.C. Southern Methodist
University
M.S.C. Southern Methodist
University
M.B.A. Southern Methodist
University
SCC/F104, 881-5855

Lilly, Vivian
Associate Dean. Health & Science
Ph.D., University of North Texas
M.S., Texas Woman's University
B.S., Texas Woman's University
CPC/A320, 548-6883

Lingo, Kathy
Professor, Speech Communications
M.A.T., University of Texas at Dallas
B.S.E., University of Noah Texas
SCC/J106, 881-5906

Lipscomb, Dan
Professor, Psychology
M.S. Pittsburg State University
B.S.S.S., Southwestern University
SCC/G225, 881-5715

Littrell, Doris Secretary, student Advising SCC/G103, 881-5778

Lockhart, Elaine MIS Intake Interviewer, JTPA BancTexas, Mckinney-Suite 360 542-0490

Long, Anne Information Center Receptionist CPC/A108, 548-6790

Ralph

Professor, Speech Communications M.S. University of North Texas B.F.A., University of North Texas AA., Mountain View College SCC/H215, 881-5982

Lusk, Barbara

Professor, Psychology M.A., University of Alabama B.S., University of Alabama CPC/B325, 548-6809

Lyall, Donna G.

Specialist. Public Information B.A., University of Texas at Arlington A.S., Grayson County Junior College SCC/K119, 881-5614

Martin, William Grounds Supervisor

Grounds Supervisor **SCC/K007**, 881-6697

Marton, Sandra

Cataloging Assistant, LRC B.A., Michigan **State** University **SCC/D216**, 881-5931

Marvin, Tom Operations/Maintenance Technician SCC/K026, 881-5694

Mast, Debra S.

Clerk, HPED Department B.S, Texas Women's University A.A., Collin County Community College SCC/A114, 881-5848

Mattjevich, Elke

Professor, German Ph.D., University of Texas at Dallas M.A., University of Texas at Dallas B.A., University of Texas at Dallas \$CC/K229, 881-5970

Matlock, Judy Professor, Developmental Mathematics

M.S. East Texas State University B.A., University of Texas at Austin SCC/J237, 881-5924

McAuliff, Patrick

Professor, Fire Science **B.S.,** Texas A & M University

CPC/A219, 548-6837

McBride, Shirley A.

Professor, Developmental Writing M.A., Baylor University B.A., Abilene Christian University SCC/J218, 881-5675

McCoy, Sandy Instructional Associate, Developmental Mathematics B.A., University of Oklahoma SCC/J241, 881-5959

McCulloch, David

Professor, Biology
Ph.D., Texas A & M
M.S., Steven F. Austin State
University
B.S., Steven F. Austin State
University

SCC/J225, 881-5991 McFerrin, Teddle R.

Professor, English
M.A., Purdue University
BA., East Texas State University
SCC/K227, 881-5916

McGar, Michael

Professor, Advertising Art B.S., Southwest Texas State University SCC/K227, 881-5647

McKinzey, Tommy
Operations/Maintenance
Technician
SCC/K026, 881-5694

McLean, Virginia Coordinator, Publications B.S., Rochester Institute of

Technology A.S., Genesee community College SCC/K119, 881-5613

McMurray, Kathy Receptionist, JTPA Pittman Office Building, Plano 964-3962

McNease, Brenda K.

Administrative Assistant, Continuing Education A.S., Hinds County Community College CPC/A302, 548-6850

McRae, Tony

Professor, Computer Science M.Ed., East Texas State University B.S., Kansas Newman College SCC/J124, 881-5918

McTee, Patricia C.

Accounting Clerk, Bookstore CPC/A105, 548-6683

Meinhardt, Stephanie

Director, Testing
M.Ed., East Texas State University
B.S.. East Texas State University
A.S., El Centro community
College
SCC/F131, 881-5739

Meyers, Raquel

Secretary, HPED A.A.S., Collin County Community College SCC/A218, 881-5925

Mickle, Carol Ann

Child Development Teacher A.A.S., Collin County Community College SCC/B176, 881-5945

Miles-Rosenfield, Marti

Professor, Developmental Writing M.A., University of New Orleans B.A., Texas Tech University CPC/B307, 548-6675

Milford, Mary
Professor, Real Estate
J.D., Southem Methodist
University
B.B.A., Southem Methodist
University
SCC/B121, 881-5639

Miller, Joyce M.

Professor, English M.A., University of Texas at Dallas B.A., University of Texas at Dallas SCC/J243, 881-5981

Miller, Lawrence, W.

Professor, Political Science Ph.D., Texas Tech University M.A., Eastern New Mexico University B.S., Eastern New Mexico University SCC/H216, 881-5895

Mitchell, Carelyn L Division Secretary, Registrar's Office

CPC/A111, 548-6740

Mizell, Kay

Professor, English M.A., Hardin-Sirumons University B.A., Oklahoma Baptist University SCC/H113, 881-5803

Money, Barbara A.

Director, Career Planning and Placement M.Ed., University of Arizona B.S., Langston University SCC/G103, 881-5772

Monroe, Lincoln
Director, Accounting and Financial
Reporting
M.B.A., Abilene Christian
CPC/B210, 548-6621

Moody, Cecil Plant **Operation** Worker II CPC/A151, 548-6690 ,

Moore, Lin Professor, Child Development Ph.D., Texas Woman's University M.S., Texas Woman's University B.S., Texas Woman's University SCC/B175, 881-5824 Mare, Sue Benefits and Payroll Assistant CPC/B216, 548-6662

Moss, Marilyn

Professor, Developmental Mathematics M.A.T., University of Texas at Dallas B.S., University of **North Texas** CPC/B334, 548-6674

Mullin, John
Reference Librarian
M.L.S., University of Texas at
Austin
B.A., University of Iowa
SCC/D120, 881-5867

Murphy, **Darla**Executive **Secretary**, Resource
Development & **Institutional**Advancement
CPC/A114, 548-6608

Myers, Sheryl

Receptionist/Support Staff
Specialist, Continuing Education
SCC/F105, 881-5850

Nanson, Joyce Assistant Director, Child Development Center SCUB 175, 881-5945

Nargecchia, Elizabeth Lab Assistant, Psychology SCC/D223, 881-5936

Nation, Sherri

Division Secretary, Science and Health SCC/K102, 881-5880

Nazario-Rodgers, Vivian

Associate, Computer Lab B.A., **Southern** Mthodist University SCC/J119, 881-5877

Neal, Kenny

Operations/MaintenanceTechnician SCC/K026, 881-5694

Neal, Victoria

Youth Counselor, ETC
MA., Texas A & M University
BancTexas, McKinney-Suite 360
542-0490

Nersome, Audrey Director, SPARK B.S., Winston Salem State University SCC/G201, 881-5677

Nicar, Leslie J.

Professor, Accounting M.S., University of Texas at Dallas B.A., Queens College, New York SCC/J219, 881-5842

Nilsen, Walter

Director, Facilities Planning/ Construction B.M.Ed., University of Colorado CPC/A152, 548-6693

Oakry, Barbara Mail Clerk CPC/A1 16, 548-6694

Okaro, Donna Secretary, Deen of Students SCC/G115, 881-5780

O'Connell, Kevin Associate, Computer Lab B.A., Sonoma State College CPC/A213, 548-6877

O'Neal, Gordon Professor, English M.A., Georgia **Southern** College BA., Georgia Southern College CPC/B329, 548-6841

Dean, Business and Engineering Division Ed.D., East Texas State University M.Ed., University of Houston B.S., University of Houston SCC/F134, 881-5892

Parcells, Rex A.

Palmer, Lillie M.

Associate Dean, Science and Health Director of Athletics M.S., Ithaca College B.S., Cornell University A.A., Auburn Community College SCC/A220, 881-5888

Parker, Rita Chief Operator, HVAC A.A.S., Texas State Technical Institute SCC/K020, 881-5674

Parrish, Percy Director, Financial Aid M.S., Tuskegee University B.S., Tuskegee University SCC/G103, 881-5761

Parsley, Rhonda Employment Training Coordinator, JTPA B.A., University of Oklahoma BancTexas, McKinney-Suite360

Patterson, Paula Administrative Assistant, Enrollment Management SCC/G103, 881-5793

542-0490

Paulson, Susan

Programmer 1 B.S., Central State University CPC/A134, 548-6647

Payne, Karla Professor, Health, Physical Education and Dance M.Ed., Texas Tech University B.S., Texas Tech University A.A., South Plains College CPC/B313, 548-6892

Pell, Juanita Physical Plant Worker CPC/A151, 548-6690

Perkins, Toni Accounting Clerk, Bookstore SCC/G125, 881-5682

Perkus, Gerald H.

Director, Institutional Research Ph.D., University of Rochester M.A., University of Rochester BA., Brooklyn College CPC/A122, 548-6617

Phillips, Hazel

Professor, Developmental Writing M.A., University of Chicago B.A., Dillard University CPC/B114, 548-6899

Pippin, Alan

Reference Librarian, LRC

M.L.S., University of Noah Texas

B.A., University of North Texas

SCC/D120, 881-5910

Porter, Beth M.
Instructional Associate,
Mathematics
M.S., Encry University
B.S., University of North Texas
SCC/J225, 881-5947

Powell, Annette Ciulation Assistant, LRC CPC/B105, 548-6860

Powell, Eugene Director, Plant **Operations** B.S.M.E. Tcxas A & M University SCC/K027, 881-5691

Proffer, P. Douglas
Professor, Mathematics
M.S. West Texas State University
B.S., West Texas State University
A.S., Amarillo Jr. College
SCC/J238, 881-5889

Quigley, Brendan Assistant Technical Director, Theatre SCC/{55, 881-5602 Rabaut, Mary S.
Dean of Students
M.S., Drake University
B.A., Central Michigan University
SCC/G233, 881-5771

Ramsey, Marjorie Learning Disabilities Specialist M.Ed., Wichita State University B.S. Ed., Auburn University SCC/G205, 881-5929

Ramsower, Diana

Professor, Office Administration M.S., NorthTexas State University B.S., Steven F. Austin State University SCC/J117, 881-5835

Reece, J. Rex Coordinator, Art Lab M.A., George Peabody College B.S., Louisiana State University, Baton Rouge SCC/C152, 881-5805

Reeves, Nancy Instructional Associate, ALC M.A., Southern Methodist University B.A., University of Texas at Austin CPC/B118, 548-6869

Reid, Karen Lab Assistant, ALC SCC/D116, 881-5966

Rich, Nelson

Professor, Biology M.S., Northeast Louisiana University B.S.. Southeastern Oklahoma State University SCC/J223, 881-5874

Richardson, Judy P.
Dogreo Plan Specialist
A.S., Cedar Valley Collage
CPC/A111, 548-6712

Richardson, Wanda Clerk, Testing Center AA., West Toxas State University CPC/B341, 548-6888

Ridley, Barbara
Employment Training Coordinator,
JTPA
B.S., Sul Ross State University
BancTexas. McKinney-Suite 360
542-0490

Ridley, Ray
Monitor, JTPA
M.S.E.E., University of Texas at El
Paso
B.S.E.E., University of Texas & El
Paso
BancTexas, McKinney-Suite 360
542-0490

Rodgers, J. Tom

Assistant to the President Ph.D., George Peabody College for Teachers/Vanderbilt University M.S., East Texas State University B.S., University of Texas at Austin CPC/A125, 548-6882

Roessler, P. Dee Professor, Legal Assistant J.D., Southern Methodist University BA., University of West Florida CPC/A352, 548-6823

Rollins, Tamara Secretary, Articulation and Transfer SCC/G231, 881-5757

Roman, Paula Coordinator, Resource Development M.S. University of Texas at Austin B.S., University of Texas at Austin CPC/A114, 548-6609

Rose, Karen Program Developer, Continuing Education M.S., Central State University, Edmond, Ok. B.A., University of Oklahoma SCC/F103, 881-5852

Rubino, Edelin

Professor, Developmental Reading M.Bd., The University of North Texas B.S., Cornell University SCC/D114, 881-5956

Rush, Teresa Circulation Assistant, LRC SCC/D149, 881-5860

Rush, Wayne L.
Assistant Director, Plant
Operations
B.B.A., Dallas Baptist University
A.A., Portland Community College
CPC/A151, 548-6691

Russell, Kimberly K.
Director, Human Resources
M.S., University of Noah Texas
B.S., Baylor University
CPC/B219, 548-6661

Rutz, Shirley Secretary, Computer Services CPC/A305, 548-6662

Salisbury, Marjorie A. Division Secretary, Arts and Humanities SCC/B 189, 881-5810

Sanchez, Judy Professor, Computer Science M.S., East Texas State University B.A., Boston University A.A., Bennett Jr. College SCC/J126, 881-5795

Sanchez, Monlea Secretary, Instruction SCC/K127, 881-5704

Schmidt, Margo Inventory Control, Business Office CPC/B220, 548-6627

Schmittou, Marilyn L. Administrative Assistant, Dean of Students SCC/G227, 881-5770

Schriver, Janet Roar Professor, Humanities M.A., University of Texas at Dallas B.A., University of Texas at Dallas SCC/H113, 881-5825

Schwartz, Harriet
Dean, Social Sciences
Ed.D., Vanderbilt University
Ed.S., The College of William and

MA., Brandeis University
B.A., City College of New York
SCC/B240, 881-5897

Scott, Fritzeen Manager, Purchasing CPC/B222, 548-6671

Scott, John Dayld Operations/Maintenance Technician SCC/K026, 881-5694

Seabolt, Janet S. Physical Plant Worker CPC/A151, 548-6690

Searl, Steven Periodicals Assistant, LRC SCC/D105, 881-5856

Shaum, Ricky Assistant, Future Shop SCC/G103, 881-5781

Shoup Linda Research Associate. Institutional Research M.A., University of Houston CPC/A115, 548-6619 Siebman, C. Sue Director, Bookstore SCC/G127, 881-5684

Sigona, James A.
Professor, HPED
Basketball Coach
B.A., Potsdam State University
A.A.S., Cayuga Community
College
SCC/H104, 881-5845

Smith, Jack Assistant, Health Lab M.A., A.T.I. Health Education Center CPC/A325, 548-6822

Smith, Mitchell E.

Dean, Art and Humanities
M.A., Yale University
M.A., Columbia University
B.A., University of Texas at Austin
SCC/B194, 881-5811

Smith, Mike Clerk, Testing Center SCC/J232, 881-5922

Sobotka, M. Jean Cataloging Assistant, LRC SCC/D217, 881-5869

Sourjah, Susan Receiving/Print Shop Clerk SCC/K016, 881-5692

spars, Ronald
Director, Law Enforcement
Academies
B.S.O.E., Wayland Baptist
University
A.A.S.. Frank Phillips Jr. College
CPC/A350, 548-6861

Stark, Cathryn Professor, Mathematics M.S., Texas A&M University B.S., Texas A&M University SCC/K228, 881-5937

Starnes, Kevin
Professor, Ornamental Horticulture & Landscape Technology
B.S.E.D., Texas Tech University
B.S., Texas Tech University
SCC/J216, 881-5908

Stephensen, Patsy
Employment Training Coordinator,
JTPA
B.B.A., University of Texas at
Austin
Pittman Office Building, Plano
964-3962

Stern, Lawrence

Professor, Sociology M.A., Columbia University B.A., Brooklyn College SCC/J246, 881-5608

Stewart, Elaine

Coordinator, Job Location B.A., University of Texas at **Dallas** CPC/A142, 548-6769

Stoutley, Donna Manager, Payroll CPC/B214, 548-6633

Swift Shari L. Executive Secretary, Institutional Advancement CPC/A114, 548-6611

Tate, Kerry
Adviser for Students with
Disabilities
B.S.. Texas Woman's University

SCC/G105, 881-5950 Taylor, Fern Secretary, JTPA

Pittman **Office** Building, Plano 964-3962

Tebbetts, Connie Lab Assistant, Advertising Art B.A., University of Houston SCC/K227, 881-5647

Terrell, Sandra
Professor, Nursing
M.S., Texas Women's University
B.S., Texas Women's University
CPC/B312, 548-6835

Thomas, RhondaData Entry Clerk, Registrar's Office
CPC/A111, 548-6743

Thompson, Linda Professor, Office Administration M.S. East Texas State University B.S.E., Southem State College CPC/A221, 548-6815

Tibbals, Alicia **T.**Reference Librarian, LRC
M.L.S., University of North Texas
M.A., University of Houston
B.A., Baylor University
CPC/B112, 548-6866

Tolleson, Martha F.
Professor, English
M.A.. East Texas State University
B.S., East Texas State University
CPC/B324, 548-6843

Tremain, Beverly Triana
Professor, HPED
Wellness Coordinator
M.A., Texas Woman's University
B.S., East Texas State University
SCC/A217, 881-5777

Troppy, Cheri M
Assistant/Applications I,
Admissions
SCC/G103, 881-5714

Tullock, Sam
Professor, History
M.Div., Southwestern Seminary
B.A., Dallas Baptist University
SCC/G222, 881-5737

Ulrich, Sharon
Employment Training Coordinator,
JTPA
M.S., Virginia Commonwealth
University
B.S., University of Nath Texas
BancTexas, McKinney-Suite 360
542-0490

Unger, Jerrl Secretary, JTPA BancTexas, McKinney-Suite 360 542-0490

Upton, Card Records Assistant, Registrar's Office SCC/G103, 881-5740

Van Cleef, June Professor, photography M.A., University of Noah Texas BA, Sul Ross State University SCC/H206, 881-5827

Vargas, Margo
Director. Employment Resource
Center
M.A., University of Texas at El Paso
B.A., University of Texas at El Paso
CPC/B108, 548-6856

Voy, Michael A. Professor, Business Administration J.D., University of Missouri M.B.A., Rockhurst College B.A., Hurton College CPC/A307, 548-6840

West, Odie Groundskeeper SCC/K029, 881-5697

Wethor, Kelsey
Coordinator, Job Location and
Development. JTPA
B.A., University of Texas at Dallas
BancTexas, McKinney-Suite 360
542-0490

White, Deborah

professor, Sociology/Psychology M.A., Texas Woman's University B.S., University of Tulsa CPC/B311, 548-6812

White, Judith

program Specialist, Continuing Education CPC/A356, 548-6853

Whitson, Jill

Professor, HPBD/Dance Coordinator M.F.A., Texas Woman's University B.A., California State University SCC/B 105, 881-5913

Professor, Photography M.F.A, Southem Methodist University B.F.A., Texas Christian University SCC/H219, 881-5727

Williams, Lane

Williams, Byrd IV

Audio/Visual Assistant, LRC SCC/D119, 881-5917

Willison, Marie

Cashier, Business Office CPC/B220, 548-6653

Wilson, Deanna F. Executive Secretary, Instruction SCC/G227, 881-5802

Wilson, Debra

Accountant, Grants and Contracts B.S., Florida State Univmity CPC/B220, 548-6628

Winburn, Larry

offset Press Operator \$CC/K129, 881-5650

Wintermute, Douglas

Director, Public Information B.S., Rest Texas State University A.S., Trinity Valley Community College SCC/B193, 881-5610

Wolfe, Betty R

Administrative Assistant, Science and Health B.S., Stephen F. Austin State University SCC/J136, 881-5859

Wood, Sherry

Employment Training Coordinator, JTPA B.A. Indiana University

B.A., Indiana Univmity Pittman Office Building, Plano 964-3962

Woolverton, Vicki

Clerk, Data Entry CPC/A111, 548-6710

Wormald, Anita

Program Manager, Continuing Education B.B.A. Adelphi University SCC/F136, 881-5849

Worsnop, Card A.

Secretary, Learning Resources Center A.S., Holborn School of Law, England SCC/D123, 881-5863

Wright, Mary G.

Division Secretary, President's office CPC/A124, 548-6605

Yates, George

Job Shop/Recreation Room Specialist, Employment **Resource** Center CPC/B113, 548-6854

York, Rleky Physical Plant Worker CPC/A151, 548-6690

York, Vicki Records Assistant, Human Resources CPC/B216, 548-6664

Young, Estellta

Professor, Spanish

M.S. Youngstown State University
BA, Youngstown State University
SCC/G215, 881-5724

Young, Marcia
Accountant, JTPA
M.S. East Texas State University
B.B.A., East Texas State University
A.A., Grayson County Junior
College
BancTexas, McKinney-Suite 360
542-0490

Zerwas, Steve

Director, Academic Advising Ph.D., University of Iowa M.A., University of Iowa B.A., Maryville College SCC/G108, 881-5779

Zimmerer, Debbie

Coordinator, Special Projects, Cooperative Work Experience B.S., University of Nath Texas SCC/B230, 881-5638

GLOSSARY

Academic Advising - Process in which students interact with college staff/faculty advisors in decision-making, problem-solving, and long-range planning related to the student's academic goals.

Advanced Placement - Credit that may be earned through standardized tests offered through the high schools.

Adviser - A member of the college staff who will assistyou with information about CCCC and various academic programs.

Add • To enroll in another course after your original registration within the specific time frame,

Articulation Agreement - After completing an associate degree at CCCC, the entire degree will be used at a four-year institution to satisfy requirements for a bachelor's degree.

Assessment- A method to determine your preparation for college level course wo k

Attempted Hours - The number of hours a student is enrolled in at CCCC, including college-level and developmental coursework.

Audit - To take a credit course without receiving a grade or credit. (plus a fee.)

Behavioral Science · A science examining human activities in an attempt to understand man's social behavior. Includes subjects such as Psychology and Sociology.

Blue Book - Paper used for essay tests available in the college Bookstore.

CAP - Customized Articulation

Class Schedule- List of courses and sections for a specific semester, including names of instructor; day, hour and place of class meetings; and detailed registration procedures.

CLEP - college Level Examination Program is a series of standardized tests for college mdit.

Concurrent Enrollment - The status of students who are enrolled in a CCCC course while they am still classified as high school students, or simultaneously enrolled at CCCC and a four-year institution.

Core Refers to a common set of courses required for a degree.

Co-Requisite - Refers to two courses that must be taken simultaneously during the same

Course Load - The number of somester hours for which a student enrolls magiven term,

Credit - Units assigned to each course.

Credit by Exam - Exams offered through the college that allow you to receive credit for specific courses.

Credit Hour - Variw by course, ht generally refers to the number of hours you will spend in aspecific course each week.

Curriculum - All the courses offered through the college.

Dean/Director - The administrative head of a division or department.

Degree Plan - The list of courses required for a specific degree, usually cutlined in the CCCC catalog.

Drop - Withdrawing from one or mom courses while remaining enrolled in other courses in the college,

Earned Hours - The number of hours a student successfully completes including college-level, developmental, non-traditional and transfer work.

Electives • Credit that does not count toward amajor but which is required for a degree.

Fee - A charge for services that is added to the tuition.

Freshman - A student's classification until 30 credits are earned.

Full-Time • To be enrolled in 12 or mom credit hours during the fall and spring, or six or more hours in the summer.

GPA/Grade Point Average - A calculation made each somester that summarizes grades and credit hours.

Grade Points • The value given to each letter grade to calculate the GPA. It is calculated by dividing the total number of grade points by the total number of semester hours attempted. The cumulative GPA is based upon work taken at CCCC.

Grade Report - A report mailed to each student containing courses and grades for a particular somester.

The branch of learning exploring human thought and relations.

Labs - A kaching component which occurs both inside and outside the classroom that enhances the learning experience.

Lab Sciences - Science courses utilizing scientific principles for experimentation and research.

Major - Your subject area of specialization.

Non-advanced Courses - Courses offered on the freshman and sophomore levels (100 and 200 series).

Non-credit Course - A C O W for which no credit can be earned.

Orientation - A session held to acquaint you with all reas located within the college.

Overload- Course load of more semester hours than students am normally permitted to schedule in a given period, requiring approval of a college dean.

Part-Tinre - To be enrolled in less than 12 m d it hours in the fall and spring semester or less than six hours in a summer session.

Prerequisite - Refers to a course which must be taken before you can enroll in a subsequent course.

Priority Registration - The first cycle of registration, which allows students to register well in advance of a semester.

Probation - A way to warn a student that his/her grades are below a certain standard. Probation may also be for disciplinary research.

Quality Hours - The number of college-level hours a student completes at CCCC, excluding developmental, non-traditional and transfer work. These hours are used in calculating a student's CCCC grade point agerage.

Records, Permanent - Cumulative record of students' courses, grades, credits, classification. address, social security number, etc.

Registration • Enrollment at the beginning of semester, including selection of classes and payment of fees and tuition.

Section - A number used during registration to differentiate between days, times, room numbers, and professors of the same course.

Semester Hour - A unit of measurement of college work equivalent to one hour of class work A 3-hour course is equivalent to three lecture hours per week.

Session - Courses that are offered with start and end times that vary from the "regular" semester.

Typically, a session is shorter than a regular semester.

Sophomere - The classification wed for students who have carned 30 credit hours or more.

Suspension - Dismissing a student whose grades have fallen below a certain standard. Suspension may also be for disciplinary reasons.

Syllabus -An outline, usually presented on the first day of class, covering course topics, textbooks required, attendance and grading policies.

Texas Academic Skills Program (TASP) *Testing component designed to ensure that all students attending public institutions of higher education in Texas have the reading, mathematics, and writing skills necessary to perform college level work.

Transcript • The official record of all COW work at a particular institution.

Transfer Agreement - The majority of lower level requirements, including technical courses, can be satisfied at CCCC before transferring to a four-year institution. The student follows the specific degree plan for each agreement.

Transfer Courses - Courses that should **transfer** to other colleges **or** universities.

Withdrawal · To withdraw from all courses enrolled in for a particular semester.

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COLLIN COUNTY COMMUNITY COLLEGE

☐ First-time college student APPLICATION FOR ADMISSION Applying for (Check one): ■ Transfer student (PLEASE PRINT) Fall Returning student. last attended CCC: Spring ☐ Fall ☐ Spring ☐ Summer 19___ Summer | ar | || 19 ummer II Name: Social Security Number (work) Local Address: Phone: (home) City: County: state! Zìp: Have you lived at this address the past 12 months or longer? Yes — If not, Lit residence for past 12 months: City: State: Zip: Permanent Address; Phone: Date of Birth __/ ____ Place of Birth Sex: Male — Female Are you a U.S. Citizen? Yes ____ No ___ If no, do you have Permanent Resident status? Yes ____ No ___ If yes. date issued __ Number If no, what is country of citizenship: Type of Visa: Visa#: Date: Are you claiming Texas residency for tuition purposes? Yes ____ No ___ Upon whom are you basing your residency? Self Parent _____Legal guardian (If legal guardian, guardianship papers must be provided.) If daim for residency is based upon self, answer the following questions: Haw long have you resided in Texas? ____ Years + ___ Months Previous state or country of residence If you came here within the past 5 years, why did you move to Texas? ____ Education ____ Employment —— Other (Please specify) State Issued ____ Expiration Date ____ Is this a new or a renewed license? New ____ Renewed _ If claim for residency is based upon parent or legal guardian, please answer the following questions: How long has this person resided in Texas? _____ Years + ____ Months Name of person on whom claim is based Previous state or country of residence Is this person a U.S. Citizen? Yes _____ No ____ If this person came here within the past 5 years, why did this person move to Texas? Education Employment _____ Other (Please specify) Has parent or legal guardian claimed you as a dependent for U.S. federal income tax purposes for the tax year preceding your registration? Yes ____ No ___ Will they daim you for the current tax year? Yes _____ No___ 1. While Non-Hispanic — 3. Hispanic — 5. American Indian or Alaskan Native _ Ethnic Origin Black Nan-Hispanic ______ 4. Asian/Pacific ______ 6. Not a U.S. Citizen or Permanent Resident _____ Note: This information is required for federal and state affirmative action reporting and does not affect the admission decision, it is voluntary. Major Field of5tudy/interest: (see reverse) Last high school attended: State: Date of graduation: If you did not graduate, do you have a GED? Yes ____ No ___ If yes, date GED received LIST AU PREVIOUS COLLEGES ATTEMBED (OFFICIAL TRANSCRIPTS REQUIRED.) City/State College Dates Attended Credits Famed Degrees or Certificates Received Are you currently on academic or disciplinary suspension? Yes ____ No____ If yes, name of school: Are you currently on academic or disciplinary probation? Yes _____ If yes, name of school: · In Case of Emergency, Please Contact: Name. (work) Relationship: Phone: (home) OATH OF RESIDENCY Lunderstand that information submitted herein will be relied upon by CCCC officials to determine my status for admission and residency eligibility. Lauthorize CCCC to verify the information have provided. I certify that the information on this application is complete and correct and understandthat the submission of false information is grounds for rejection of my application. withdrawal of any offer of acceptance, cancellation of enrollment or disciplinary action. Note: If you have attended school or resided out of state, additional proof of residency may be required Military personnel/dependents must submit proof of military assignment in Texas at each enrollment. Non-U.S. citizens must provide proof of immigration status. Collin county Community College, Central Park Campus, Admissions Office, Room A108, 2200 W. University Dr., P.O. Box 8001. McKinney. Texas 75069-8001, (214) 548-6710 or Collin County Community College, Spring Creek Campus.

Admissions Office, Room \$103, 2800 E.Spring Creek Pkwy., Plano. Texas 75074, (214) 881-5710

COCC does not discriminate on the basis of race, color, religion, sex, national orgin, age, disability or veteran status.

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MAJOR FIELDS OF STUDY LIST

UND- Still deciding, not ready to declare a major

NDEC-Non-degree seeking

Arts and Humanities C	ollege	Major	Degree	Science and Health	College		Degree
Advertising Art	AH	ADV	AASJCER	Biology	SH	BIOL	As
Art	AH	ART	AA	Chemistry	SH	CHEM	AS
English	AH	ENGL	AA	Dance	SH	DANC	AS
French	AH	FREN	AA	Emergency Medical Services	SH	EMTP	AAS
German	AH	GERM	AA	Fire Saence	SH	FISC	AA/AAS/CER
Humanities	AH	HUM	AA	Geology	SH	GEOL	As
lournalism	AH	JOUR	PA	Health Science	эн	HLSC	AS
Music	AH	MUS	AA	Health, PE Dance	SH	HPED	AS
Philosophy	AH	PHIL	AA	Horticulture	SH	HORT	AS
Photography	AH	PHOT	AA/CER	Horticulture/Landscape Tech.	SH	HORT	AAS
Spanish	AH	SPAN	AA	Mathematics	SH	MATH	AS
Speech Communication	AH	SPCM	AA	Nursing	SH	NURS	AAS
Theatre	AH	THEA	AA	Physical Science	SH	PSCI	As
Arts/General Studies	AH	AUND	AA	Physics	SH	PHYS	As
,				Pre-Dental	SH	PDEN	AS
Business and Engineering				Pre-Medical	SH	PMED	AS
Accounting	BE	ACCT	AA/AAS	Pre-Veterinarian	SH	PVET	AS
Business Admin.	BE	BSAD	AA	Science/General Studies	SH	SUND	AS
Drafting and Computer Aided Design	BE	CAD	AAS/CER	•			
Computer Info. Systems	BE	CIS	AASJCER	Social Sciences			
Computer Science	BE	CPSC	AS	Anthropology	SS	ANTH	AA
Comp. Science-Software Develop.	BE	CSFT	AAS	Child Development-Administrator	SS	CDAD	AAS/CER
Economia	BE	ECON	AA	Child Development-Educator	SS	CHDV	AAS/CER
Electronic Technology	BE	ELT	AAS/CER	Criminal Justice	SS	CRJS	AA
Electronics Engin, Tech.	Œ	EET	AAS/CER	Eating Disorders Counselor	SS	EDCC	ŒR
Engineering	BE	ENGR	As	Education	SS	EDUC	AS
Finance	BE	FIN	AA	Geography	SS	GEOG	AA
Legal Assistant	BE	LEGL	AA/AAS	History	SS	HIST	AA
Mgmt./Mgmt. Develop.	BE	MGMT	AA/AAS/CER	Pditical Science	SS	PLSC	AA
Marketing/Fashion Mktg.	BE	MRKT	AAS/CER	Pre-Law	SS	PLAW	AA
office Admin.	BE	OFAD	AAS/CER	Psychology	55	PSYC	AA
Office Admin. – General	BE	OFGN	AAS	Respiratory Care	SS	RTTP	AAS/CER
Office AdminMedical	BE	OFMD	AAS/CER	Sociology	SS	SOC	AA
Office Admin. – Secretarial	ΒE	OFSC	AAS	Social Sciences/General Studies	SS	SSUN	AA
Office AdminWord Processing	BE	OFWP	CER				, , ,
Real Estate	BE	RLST	AAS/CER	AA - Associate of Arts degree		AS - A	sociate of Science degre
Small Business Mgmt.	Œ	SBMT	AAS/CER	AAS - Associate of Applied Science	dearee		ertificate program
Business/General Studies	BE	BUND	AA	/ loodolato - / ipplied dolollot		JLII O	ooato program

	COUNTY COL	DE LIST						
	Ç ollin	043	Cooke	049	Dallas	057	Denton	061
ļ	Gravson	091	Hunt	116	Rockwall	199	Tarrant	220

RESIDENCY INFORMATION

In order to be eligible for Texas residency, you must have lived in Texas for 12 months prior to registration. Documentation verifying residency status may be requested for students chiming Texas residency for tuition purposes.

COLLIN COUNTY PROPERTY OWNERS

If you have not lived in Texas for 12 months, but you do own property in Collin County, you are eligible for a tuition walver. A copy of your deed is required for verification. (Property owners on most types of temporary visas are generally not eligible for the advalorem waiver.) Dependents of Collin County property owners requesting an ad valorem waiver must also submit the top portion of the federal income tax form from the current and preceeding tax reports.

Contact the Admissions Office if You have any questions regarding your residency status

		FOR OFFICE USE ONLY		
Documentation	estal acada and and and and and and and and and	Number	Valid Date	<u> </u>
Verified By	Ticket Issued	Comments		11 and 12
Level	Term	Req. Rule	Apply Class	
Admit Action Yes	_No E TRIVER (F) C		Admit Type	

Fannin 074