

Central Texas College Catalogue 1987-1989

Twenty Years Of Excellence In Education

MAJOR CAMPUS ADDRESSES COLLEGE PROGRAMS

CENTRAL CAMPUS

CENTRAL TEXAS COLLEGE P.O. Box 1800 Killeen, Texas 76540-9990 1-817-526-1132

FORT HOOD CAMPUS

CENTRAL TEXAS COLLEGE

Dean, Fort Hood Campus P.O. Box 1800 Killeen, Texas 76540-9990 1-817-526-1326

SERVICE AREA CAMPUS

CENTRAL TEXAS COLLEGE
Executive Dean, Service Area Campus
P.O. Box 1800
Killeen, Texas 76540-9990
1-817-526-1227

CONTINENTAL CAMPUS CENTRAL TEXAS COLLEGE

Office of the Dean P.O. Box 1800 Killeen Texas 76540 9990

Killeen, Texas 76540-9990 1-817-526-1368

EUROPE CAMPUS

CENTRAL TEXAS COLLEGE Office of the Dean Yorkhof Kaserne Building 1205 APO New York 09165 (Civilian) 06181-13027/13028

(Military) 322-8219/8871

PACIFIC FAR EAST CAMPUS

CENTRAL TEXAS COLLEGE
Office of the Dean
Bldg. 526, Bobzien Avenue
Yokota AB, Japan
475 ABW/DPE (CTC)
APO San Francisco 96328-5000
225-3690/3691/3692

CENTRAL TEXAS COLLEGE

Student and Administrative Services Camp Market - Building P-1530 APO San Francisco 96483 2923-814 (Administration) 2923-807 (Student Services)

NAVY CAMPUS

CENTRAL TEXAS COLLEGE - Navy Campus Office of the Dean P.O. Box 1800 Killeen, Texas 76540-9990 1-817-526-1306

> ATLANTIC CENTRAL TEXAS COLLEGE 1301 East Little Creek Road, Suite 2 Norfolk, VA 23518 1-804-587-8873

PACIFIC CENTRAL TEXAS COLLEGE 4250 Pacific Highway, Suite 122 San Diego, CA 92110 1-619-226-6626

CORRESPONDENCE AND INQUIRIES

Correspondence and inquiries should be addressed to the appropriate office, e.g. Admissions, Records, Financial Aid, etc., as listed in the catalogue, at the location where the student currently attends. Records and transcript service for students currently enrolled in Pacific Far East/Europe will be provided by the Pacific Far. East/Europe campuses.

Students should become familiar with the contents of this catalogue and should bring their catalogues with them to the campus for degree planning and scheduling.

Board of Trustees



Back Row (Standing) left to right: Marvin A. Mickan, Copperas Cove: Dr. Luis M. Morton, Jr., Chancellor, American Educational Complex; Dr. W. A. Roach, President, Killeen; Mr. William L. Shine, Killeen.

Front Row (Seated) left to right: Mr. Cleo Bay, Killeen; Mrs. Linus D. Frederick, Secretary, Copperas Cove; Mr. Guinn C. Fergus, Treasurer, Killeen; Mr. J. A. Darossett, Vice President, Copperas Cove.

Chancellor's Welcome

As we complete our twentieth year of service, it is appropriate to reflect on our past and set new goals for the future.

Our history reveals a story of phenomenal growth and development. From modest beginnings, Central Texas College has expanded its services across the nation and into foreign lands, in quest of its dedicated purpose. . . "to the service of the people. . . " Why has this institution succeeded in such a dramatic fashion? Obviously, the reasons for success have been multiple. The people of this College District have supported this institution. The Board of Trustees, the administration and the faculty have worked in harmony to develop an educational system to serve the total career development needs of the local population, as well as the needs of military and civilian personnel throughout the world. Perhaps of greatest significance, the students



have understood the frustrations of creating and expanding the institution to fulfill its dedicated purpose. Like older brothers and sisters looking after the younger, they have sacrificed, helped and protected the institution through the years. Returning students and students to arrive at our doors in future years will be the benefactors of these unselfish contributions. Relying on this strong foundation of dedication and commitment we look forward to continuing our quest for excellence and meeting the needs of the international communities we now serve.

On behalf of the Board of Trustees, the administration and the faculty, I take the sincere and simple pleasure of welcoming you to Central Texas College. You are a valued member of our educational family. We pledge our best efforts in helping you attain your educational goals.

Respectfully,

S. M. Morlon , 1.

Luis M. Morton, Jr. Chancellor

Central Texas College

An Operating Unit of the American Educational Complex

Twelfth

1987-1989

GENERAL CATALOGUE

Accredited By Southern Association of Colleges and Schools

Approved By Coordinating Board, Texas College and University System Texas Education Agency

Listed In Report of Credit Given By American Association of Collegiate Registrars and Admissions Officers

and

Accredited Institutions of Postsecondary Education by Council On Postsecondary Education

and

Education Directory of Colleges and Universities by U.S. Department of Health, Education and Welfare

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American Association of Community and Junior Colleges

Association of Texas Colleges and Universities

Broadcast Education Association

National Association of Veteran Program Administrators National Association of Student Financial Aid Administrators Servicemembers Opportunity College

Southern Association of Collegiate Registrars and Admissions Officers
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M.L., The University of Houston
Ph. D., The University of Texas
J.D., St. Mary's University
Post Doctoral Studies:
Michigan State University
University of Colorado

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B.S., Southwest Texas State University
M.A., Southwest Texas State University
Post Graduate Studies:
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Nova University

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B.B.A., Michigan State University
M.B.A., Florida State University
Ph.D., Florida State University

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Ben H. Wickersham, Vice Chancellor for College Programs
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B.S., East Texas State University
M.S., East Texas State University
Additional Graduate Study:
Texas A & M University

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James R. Anderson

Deputy Chancellor For College Programs

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Dean, Pacific Far East Campus
Dean, Continental Campus
Dean, Fort Hood Campus
Dean, Navy Campus

SENIOR ADMINISTRATIVE STAFF

Sheridan D. Cavitt Robert R. Dunlap Reginald L. Ludwig Vesna Ostertag Lucius O. Owsley Noel H. Schnitz Dale Wilson Dean of Admissions and Counseling
Dean of Instructional Programs
Associate Dean, Vocational Skills Center
Associate Dean, College Programs, Europe Campus
Director of Food Services
Dean of Library Services
Director, Administrative Services, Europe Campus

ADMINISTRATIVE STAFF

Lois Anderson Arnold Arms Howard G. Bass Gary Bishop Director of Human Resource Development Director, Administrative Services, Pacific Far East Campus Director, MOS Programs/Regional Director - Europe Campus Regional Director, Europe Campus

ADMINISTRATIVE STAFF (cont'd)

Thomas D. Carter Ruth Douglas Robert Durant Marcia Fairbrook Lloyd Garbarino Bruce Greenwood Mary Lea Hayhurst Jerry Herrick William R. Hutcheon Edward B. Jasuta, Ir. Lillian Kroeger Dawn Manning Peter M. Maloney R. Marie Marteney David McClure Thomas Peckinpaugh Maurice Price JoAnne Robinson Allie K. Spaulding William Taylor Erik van Brero Iohnelle Wallesch Kenneth Woodward

Associate Dean, Korea Associate Dean, College Programs, Pacific Far East Campus Regional Director, Europe Campus Regional Director, Europe Campus Regional Director, Europe Campus Regional Director, Europe Campus Bookstore Manager Director, Evening College Associate Dean, Student Services, Europe Campus Director of Broadcast Systems Registrar Regional Administrator, Continental Northeast Region Associate Dean, PACE Atlantic Assistant to the Chancellor Coordinator, Placement and Follow-up Associate Dean, College Service Area Campus Regional Administrator, Continental Southeast Region Director, Admin. Services, Continental/International Navy Campuses Regional Director, Europe Campus Regional Director, Europe Campus Director, Logistical/Personnel Services Associate Dean, Student Services, Pacific Far East Campus

MANAGEMENT STAFF

Beth Acree Gordon D. Bacon Betty Broadhurst William C. Brown Katie Cheatham Valerie Coddington Leslie L. Christensen Vernon B. Davis Robert Dent Wanda L. Edwards George Erskine Michael G. Garcia S. Margaret Lyons Rebekah I. Rasnick Annabelle Smith Noel T. Smith Sharon Throm Lillian I. Young

Director of Student Services, Central Campus Director, Child Care Center Director, Evaluations Services Student Services Coordinator, College Service Area Campuses Coordinator, International Student Services Coordinator, Educational Programs, Killeen Mall Center Registrar, Fort Hood Campus Assistant to Dean, Continental Campus Counselor, Fort Hood Campus Counselor, Probation & Suspension Director of Testing Registrar, Director of Records, Central Campus Assistant Director, Library Services Director, Special and Academic Programs, Fort Hood Campus Director, Financial Aid/Veterans Services Station Manager, KNCT Registrar, Academic Advisor, Killeen Mall Center Director, Community Education

Associate Dean, PACE Pacific

CENTRAL TEXAS COLLEGE

As a result of unparalleled achievement, Central Texas College has grown from a single campus public community college in Central Texas to an international educational complex. In 1965, Central Texans voted to create a college district resulting in an enormous challenge as to whether to develop a traditional community college or to create a master plan for the future.

The Board of Trustees, together with business and industrial personnel, educators, military leaders, and a dedicated staff under the guidance of Dr. Luis M. Morton, formed the master plan for one of the most successful educational experiences America has ever witnessed. The union of minds developed a new educational complex to serve the total career development needs of a local population, as well as the needs of military and civilian personnel throughout the world.

Considering cost effectiveness, efficiency, and immediate application to present needs and future growth, it was clearly recognized that no single educational institution could provide all the programs to meet the career development needs of people in commerce, business and industry, military, government, and the world society. Today, Central Texas College is an operating unit of the American Educational Complex. Central Texas College provides a "total career educational program."

The American Educational Complex, comprised of Central Texas College, American Technical Institute, American Preparatory Institute and the Research Institute for Advanced Technology, has mushroomed into a multi-million-dollar-a-year educational system with numerous activity centers within the state and worldwide. The American Educational Complex has been recognized as a leader in providing educational services that successfully address the unique needs of today's students.

Worldwide Services:

From its beginning in 1967, Central Texas College has provided a wide variety of educational programs to meet the specific needs of its military neighbors at Fort Hood, Texas. Today CTC serves the armed services across the nation and overseas. This commitment to provide expanded educational opportunities carries the same thrust of dedication which is characteristic of Central Texas College.

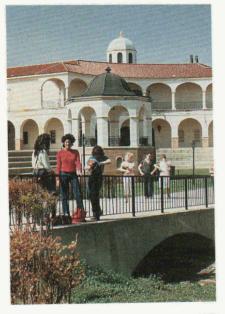
Central Texas College provides the opportunity for higher education to military personnel serving our country in the United States and in foreign lands. Technical-vocational programs are offered by the College at over 200 locations throughout Europe and the Far East, as well as at military bases in the United States and to the United States Navy, Pacific and Atlantic Fleets. For further information concerning College offerings around the world, the Continental and International Catalogue Supplement should be consulted.

Campus Scenes

Central Texas College claims many distinctions, one of which is its beautiful Central Campus.

Central Texas College is located in the hill and lake country between Killeen and Copperas Cove. The classical Spanish exterior of each building is enriched by the soft blend of brick and mission tile roof.

Modern facilities, advanced instructional methods and an excellent faculty provide the maximum support to help each student succeed in whatever educational program he or she chooses.





CENTRAL CAMPUS COLLEGE CALENDAR

The following calendar displays major activity dates of the academic year. Not all activities are displayed herein and students are cautioned to read bulletin boards and other announcements publishing dates of other scheduled academic and social activities.

Prior to each registration period, a detailed Schedule Bulletin is prepared, providing a final calendar of activities, registration procedures and schedules of course offerings. For administrative purposes, the Schedule Bulletin becomes the official calendar for the semester for which it is published.

This College Calendar addresses only Central Campus activities. Students attending Central Texas College at other locations should contact Central Texas College officials serving their location.

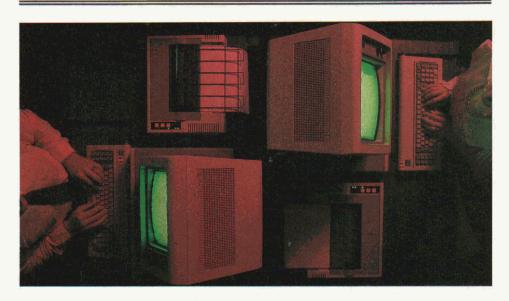
1987 - 1989

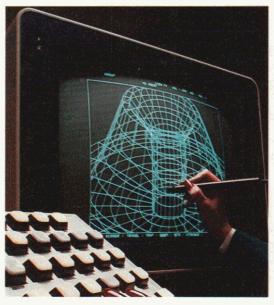
DATES	FALL 1987
AUG 10-28	Fall Registration
AUG 26	Dormitory open for occupancy
AUG 26-27	Faculty in-service meetings
AUG 31	Classes begin/late registration begins
SEPT 7	Labor Day (no classes)
SEPT 16	12th class day
OCT 1	Last day to apply for Fall graduation
NOV 11	Veteran's Day (no classes)
NOV 18-19	Final exams - 12 week courses
NOV 26-29	Thanksgiving Holiday (no classes)
DEC 12-19	Final exams - 16 week courses
DATES	SPRING 1988
DEC 14 - JAN 8	Spring Registration
JAN 6	Dormitory opens for occupancy
JAN 11	Classes begin/late registration begins
JAN 26	12th class day
FEB 1	Last day to file for Spring graduation
MARCH 14-18	Spring Break
APRIL 1	Good Friday (no classes)
APRIL 6- 7	Final exams - 12 week courses
APRIL 29-MAY 5	Final exams - 16 week courses
MAY7	Graduation
D. 1000	CVD O CED 1000
DATES	SUMMER 1988
MAY 16-JUNE 3	Summer Registration
MAY 30	Memorial Day (no classes)
JUNE 1	Dormitory opens for occupancy
JUNE 6	Classes begin/late registration begins
HINDA	(Summer Session I and 11 week courses)
JUNE 9	4th class day - Summer Session I
JUNE 10	Last day to apply for Summer graduation
JUNE 15	8th class day - 11 week courses
JULY 4	Independence Day (no classes)
JULY 12	Final exams - Summer Session I
JULY 13	Classes begin/Summer Session II
JULY 19	4th class day - Summer Session II
AUG 17-18	Final exams - 11 week courses
AUG 18	Final exams - Summer Session II

COLLEGE CALENDAR 1987 - 1989

GE CALENDAR 1987 - 1989			
DATES	FALL 1988		
AUG 10-30	Fall Registration		
AUG 10-30 AUG 29	Dormitory open for occupancy		
AUG 29-30	Faculty in-service meetings		
AUG 31	Classes begin/ late registration begins		
SEPT 5	Labor Day (no classes)		
SEPT 16	12th class day		
OCT 3	Last day to apply for Fall graduation		
NOV 11	Veteran's Day (no classes)		
NOV 11 NOV 21-22	Final exams - 12 week courses		
NOV 21-22 NOV 24-25	Thanksgiving Holiday (no classes)		
DEC 14-20	Final exams - 16 week courses		
DEC 14-20	Fillal exams - to week comses		
DATES	SPRING 1989		
JAN 4-JAN 13	Spring Registration		
JAN 11	Dormitory opens for occupancy		
JAN 16	Classes begin/late registration begins		
JAN 31	12th class day		
FEB 1	Last day to file for Spring graduation		
MARCH 13-17	Spring Break		
MARCH 24	Good Friday (no classes)		
APRIL 12-13	Final exams - 12 week courses		
MAY 5-11	Final exams - 16 week courses		
MAY 13	Graduation		
DATES	SUMMER 1989		
MAY 15-JUNE 2	Summer Registration		
MAY 24	Dormitory opens for occupancy		
MAY 29	Memorial Day (no classes)		
JUNE 5	Classes begin/late registration begins		
	(Summer Session I and 11 week courses)		
JUNE 8	4th class day - Summer Session I		
JUNE 12	Last day to apply for Summer graduation		
JUNE 14	8th class day - 11 week courses		
JULY 4	Independence Day (no classes)		
JULY 11	Final exams - Summer Session I		
JULY 12	Classes begin/Summer Session II		
JULY 18	4th class day - Summer Session II		
AUG 16-17	Final exams - 11 week courses		
AUG 17	Final exams - Summer Session II		
T. 4 TTT 6	W. V.		
DATES	FALL 1989		
AUG 9-29	Fall Registration		
AUG 28	Dormitory open for occupancy		
AUG 28-29	Faculty in-service meetings		
AUG 30	Classes begin/late registration begins		
SEPT 4	Labor Day (no classes)		
SEPT 15	12th class day		
OCT 2	Last day to apply for Fall graduation		
NOV 11	Veteran's Day (no classes)		
NOV 20-21	Final exams - 12 week courses		
NOV 23-24	Thanksgiving Holiday (no classes)		
DEC 13-19	Final exams - 16 week courses		

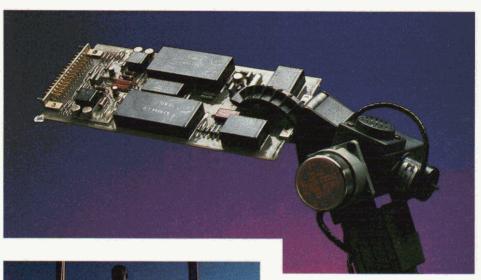


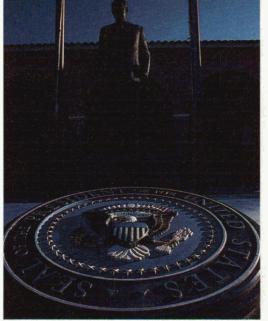














CENTRAL CAMPUS

1987 - 89 Faculty

Wynona W. Alexander, Department Manager (1969, 1974)

Art

ART

B.A., East Texas State University

M.A., East Texas State University

Ph.D., North Texas State University

Exzelia O. Alfred, Instructor (1985)

Associate Degree Nursing

NURSING

Diploma, Harlem Hospital School of Nursing

B.S.N., Hunter College

M.A., Teachers College, Columbia University

M.Ed., Teachers College, Columbia University

Gordon D. Bacon, Director, Child Development Center (1985) Child Development

CHILD DEVELOPMENT

B.A., Montana State University

M.A., University of Montana

Gayle J. Blum, Instructor (1980)

Associate Degree Nursing

NURSING

Diploma: Hillcrest School of Nursing B.S.N., University of Mary Hardin-Baylor

M.S.N., Texas Women's University

Bethelee Bodkin, Instructor (1984)

Nursing

History

Air Conditioning

Offset Printing

NURSING

Diploma: St. Elizabeth Hospital

B.S.N., University of Texas at Austin

M.S.N., University of Texas at Austin

J. Parker Bogue, Faculty (1973)

SOCIAL SCIENCE B.A., University of Maine

M.A., University of Maryland

Ph.D., University of Maryland

John W. Brewer, Faculty (1978)

INDUSTRIAL TECHNOLOGY

B.S., American Technological University

M.S, American Technological University

Wayne L. Caldwell, Department Manager (1974)

OFFSET PRINTING

A.A.S., Central Texas College

Elizabeth L. Cheatham, Faculty (1974)

OFFICE ADMINISTRATION

B.A., Louisiana Tech University

M.B.A., Louisiana Tech University

Office Administration

Daniel A. Corbin, Faculty (1987) Legal Assistant/Accounting **BUSINESS MANAGEMENT** B.S., University of Illinois M.A., University of Illinois J.D., University of Texas School of Law Licensed C.P.A., State of Texas John Cornelius, Department Manager (1978, 1980) Mid-Management/ **BUSINESS MANAGEMENT** Real Estate & Banking B.A., Texas Christian University M.S., American Technological University B. J. Cummings, Faculty (1982) **Auto Body Repair** INDUSTRIAL TECHNOLOGY A.A.S., Central Texas College Richard Diller, Faculty (1984) Computer Science COMPUTER SCIENCE A.A.S., Central Texas College B.S., U.S. Military Academy M.S., U.S. Naval Post Graduate School Career Pilot Paul Doering, Flight Instructor (1985) CAREER PILOT A.A.S., Central Texas College B.S., American Technological University Charles P. Dolney, Faculty (1986) Maintenance Technology INDUSTRIAL TECHNOLOGY B.S., University of Houston Diesel Mechanics Donald Donaldson, Instructor (1985) INDUSTRIAL TECHNOLOGY A.A.S., Central Texas College Office Administration Mary C. Feild, Faculty (1973) **OFFICE ADMINISTRATION** B.A., Lamar University M.A., University of Texas at Austin Ronald R. Fitz-Randolph, Faculty (1981) Computer Science COMPUTER SCIENCE B.A., University of Oklahoma M.S., American Technological University Associate Degree Nursing Frances H. Forgione, Faculty (1975) NURSING B.S.N., Niagara University M.S.N., Texas Women's University Vocational Nursing Harriet Foster, Instructor (1983) NURSING B.S.N., University of Mary Hardin-Baylor

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Adel M. Galanffy, Department Manager (1967, 1973)

M.M., Franz Liszt Music Conservatory

MUSIC

Piano

James D. Gebhardt, Chief Flight Instructor (1978, 1981)

Career Pilot

CAREER PILOT

A.A.S., Central Texas College

B.A.S., University of Mary Hardin-Baylor

M.S., American Technological University

Barbara Jean George, Faculty (1986)

Medical Laboratory Technician

SCIENCE

B.S., North Texas State University M.A., Central Michigan University

Curtis Gibson, Department Manager (1981) (1987)

Career Pilot

CAREER PILOT

B.S., East Carolina University

M.S., American Technological University

Jane M. Gibson, Faculty (1979)

Intensive English/Foreign Language

COMMUNICATIONS

B.A., Abilene Christian University

M.A.T., Southwest Texas State University

Donna S. Giebler, Faculty (1976, 1980)

Office Administration

OFFICE ADMINISTRATION B.S., Howard Payne College M.S.Ed., Howard Payne College

Vicki Greenfield, Instructor (1984)

Associate Degree Nursing

NURSING

B.S.N., University of Texas at San Antonio M.S.N., Texas Women's University

Thomas Grimes, Faculty (1985)

Electronics

ELECTRONICS

A.A., Blinn College

B.S., University of Houston

Terry L. Hale, Faculty (1985)

Computer Science

COMPUTER SCIENCE B.S., Baylor University

Audrie E. Hall, Faculty (1985)

Electronics

ELECTRONICS

B.S., Lamar State University

M.B.A., Stephen F. Austin University

Timothy R. Hall, Department Manager (1969, 1974)

Mathematics

MATHEMATICS

B.A., Oklahoma State University

M.S., West Texas State University

William G. Handorf, Faculty (1969, 1976)

Psychology/Sociology

SOCIAL SCIENCE

A.A., Morton Junior College

B.A., Northwestern University

M.A., Northwestern University

Ed.D., American University

Elaine E. Hayes, Department Manager (1986) NURSING

B.S., Louisiana College

M.S.N., The University of Texas at Austin

John L. Henderson, Faculty (1970)

COMMUNICATIONS

B.A., West Texas State University M.A., West Texas State University

Patrick K. Hidy, Faculty (1976)

SCIENCE

A.A.S., Phillips County Community College

B.S., East Texas State University

M.S., East Texas State University

Lewis M. Hilley, Department Manager (1979)

PHYSICAL EDUCATION A.B., Baylor University

M.Ed., University of Texas at Austin

Ed.D., University of Texas at Austin

Erdeene V. Hyde, Department Manager (1968, 1976)

COMMUNICATIONS

B.A., Bethany Nazarene College M.A., East Texas State University

Truell W. Hyde, Department Manager (1968)

SOCIAL SCIENCE

B.S., Texas Tech University

M.Ed., Texas Tech University

Nancy Isett, Instructor/Graphic Artist (1985)

ART

B.A., University of Texas at Austin

B.F.A., University of Texas at Austin

M.F.A., University of Texas at Austin

Edward B. Jasuta, Jr., Director (1970, 1980)

TELECOMMUNICATIONS

B.A., University of Texas at El Paso

M.S., American Technological University

Jeanette M. Jost, Faculty (1978, 1981, 1985)

NURSING

Diploma: Scott & White Hospital School of Nursing

B.S.N., University of Mary Hardin-Baylor

M.S., American Technological University

Carliss J. King, Faculty (1984)

COMMUNICATIONS

B.A., Bethany Nazarene College

M.A., Baylor University

Associate Degree Nursing

English

Biology

Physical Education

English/Reading

History

Art

Telecommunications

Associate Degree Nursing

English

Edward F. King, Faculty (1975, 1984)

SCIENCE

B.S., Loyola University of the South

B.A., Gregorian University

Ph.D., University of New Orleans

Jack L. Kinn, Faculty (1980)

COMPUTER SCIENCE

B.G.S., University of Nebraska at Omaha

M.S.B.A., Boston University

Peter W. Knightes, Faculty (1982)

SCIENCE

B.S., State University College at Oneonta, New York

M.Ed., Texas A & M University

Lawrence H. Kriegel, Instructor (1986)

NURSING

B.S.N., Houston Baptist University

M.S., American Technological University

Billie J. Laney, Faculty (1970)

SOCIAL SCIENCE

B.A., Southern Methodist University

M.A., East Texas State University

Ph.D., East Texas State University

Ray Stanley Laney, Division Director (1969)

BUSINESS MANAGEMENT

B.B.A., University of Texas at Austin

M.S., East Texas State University

Ph.D., East Texas State University

Reginald L. Ludwig, Associate Dean (1970, 1982)

INDUSTRIAL TECHNOLOGY

B.S., American Technological University

M.S., American Technological University

Gloria L. Lyons, Faculty (1974)

NURSING

B.S.N., Winston Salem University

M.S.N., Texas Women's University

Herbert J. Maglietta, Department Manager (1974)

DRAFTING & DESIGN

B.S., Southwest Texas State University

M.Ed., Southwest Texas State University

Catherine M. Mason, Department Manager (1976, 1978)

CHILD DEVELOPMENT

B.S., American Technological University

M.S., Texas Women's University

Dale Mohler, Faculty (1983)

COMPUTER SCIENCE

B.S., University of Houston

Chemistry/Physics

Computer Science

Geology

Associate Degree Nursing

Psychology/Sociology

Business/Management

Automotive Service & Repair

Associate Degree Nursing

Drafting & Design

Child Development

Computer Science

Edgar A. Odom, Director of Training, Criminal Justice Division Centex Police Academy (1975, 1984) CRIMINAL JUSTICE A.A., Central Texas College B.S., American Technological University M.C.J., American Technological University Thena E. Parrott, Instructor (1983) Associate Degree Nursing NURSING B.S.N., Baylor University M.S.N., Texas Women's University Gary R. Ragsdale, Department Manager (1971) Office Administration OFFICE ADMINISTRATION B.S., Abilene Christian University M.B.A., Abilene Christian University Ed.D., Arizona State University Paula J. Ray, Faculty (1976, 1980) Biology SCIENCE B.S., Kansas State University M.S., Kansas State University M.S., American Technological University Patricia L. Reid, Faculty (1980) Vocational Nursing NURSING Diploma: Jameson Memorial Hospital B.S.N., University of Mary Hardin-Baylor Shirley L. Robertson, Instructor (1981) Associate Degree Nursing NURSING B.S., Texas Christian University M.S., University of Texas D. Gail Robinson, Department Manager (1973, 1980) Computer Science COMPUTER SCIENCE A.A.S., Central Texas College B.S., American Technological University M.S., American Technological University

Theodore C. Robinson, Sr. Faculty (1971, 1974)

COMPUTER SCIENCE

COMPUTER SCIENCE

B.S., American Technological University M.S., American Technological University

B.S., American Technological University

Lee Roy Rose, Faculty (1976)
INDUSTRIAL TECHNOLOGY
A.A.S., Central Texas College

A.A.S., Central Texas College

Max L. Rudolph, Faculty (1979)
TELECOMMUNICATIONS
A.A.S., Central Texas College

Gus D. Rummel, Department Manager (1970)

ELECTRONICS

B.S., University of Houston

M.S., American Technological University

Shane K. Simon, Faculty (1981)

COMMUNICATIONS

B.S., Southwest Texas State University

M.A., Southwest Texas State University

Noel M. Smith, Sr., Faculty (1977)

DRAFTING & DESIGN

B.S., University of Houston

M.S., North Carolina State College

Ed Spence, Department Manager (1972, 1978)

HOSPITALITY INDUSTRY

B.S., University of Mary Hardin-Baylor

M.S., American Technological University

Antonio V. Suarez-Barrio, Executive Dean,

Criminal Justice Division (1973, 1986)

CRIMINAL JUSTICE

A.A., Yuba College

B.S., University of Nebraska

M.S., American Technological University

M.C.J., American Technological University

M.P.A., Nova University

D.P.A., Nova University

Doris Louise Sutton, Faculty (1984)

MATHEMATICS

B.S., West Texas State University

M.S., West Texas State University

Ella Teague, Faculty (1968)

PHYSICAL EDUCATION

B.S., Sul Ross State University

M.Ed., Sul Ross State University

Dora Thrash, Instructor (1974)

NURSING

B.S.N., Prairie View A & M

M.S.N., Texas Women's University

H. Allan Tolbert, Faculty (1969, 1980)

BUSINESS MANAGÉMENT

B.S., Texas Tech University

M.A., Texas Tech University

Lavinia Truli, Instructor (1975, 1985)

FARM & RANCH MANAGEMENT

A.S., Central Texas College

B.S., American Technological University

Speech

Drafting & Design

Computer Maintenance

Food Service & Hotel/Motel

Criminal Justice Division

Mathematics

Physical Education

Associate Degree Nursing

Mid-Management

Agriculture

Charles L. VanBibber, Faculty (1977) **CRIMINAL JUSTICE**

A.A., Central Texas College

B.A., American Technological University M.C.J., American Technological University

Timothy Walker, Faculty (1984) INDUSTRIAL TECHNOLOGY B.S., Tarleton State University

Welding

James D. Waters, Faculty (1984)

SCIENCE B.S., Tarleton State University M.S., Tarleton State University Biology/Geology

Criminal Justice Division

Henry R. Wessels, Faculty (1974, 1980)

CAREER PILOT

Diploma: Spartan School of Aeronautics

A.A.S., Central Texas College

B.A.S., University of Mary Hardin-Baylor

Beverly J. Wickersham, Faculty (1976)

COMMUNICATIONS B.A., Baylor University

M.A., Sam Houston State University

Dennis L. Williams, Faculty (1969)

COMMUNICATIONS

B.A., Texas Christian University

English

Norman R. Williams, Department Manager (1968)

SCIENCE

B.S., Texas Tech University M.S., Texas Tech University

Naomi Wilson, Instructor (1986)

NURSING

B.S.N., University of Southern Maine M.S.N., University of Texas at Austin

Raiford Williams, Department Manager (1968)

FARM & RANCH MANAGEMENT B.S., Sam Houston State University M.S., Sam Houston State University

Ed.D., University of Missouri at Columbia

Kenneth J. Word, Faculty (1977)

MATHEMATICS

A.S., Central Texas College

B.S., Southwest Texas University

M.A., Southwest Texas State University

Donnie D. Yeilding, Faculty (1974, 1982)

COMMUNICATIONS

B.A., Stephen F. Austin State University M.Ed., Stephen F. Austin State University

Aviation Maintenance Technology

English

Biology

Associate Degree Nursing

Agriculture

Mathematics

English

Thomas D. Yeilding, Faculty (1976, 1981) SOCIAL SCIENCE B.A., Hardin-Simmons University M.A., Hardin-Simmons University

Ph.D., North Texas State University

Government

(NOTE: Figures in parentheses indicate date of first appointment on the College staff and date of appointment to present position, respectively.)

GENERAL INFORMATION

HISTORY

To provide increased opportunities in higher education, the voters of the Killeen and Copperas Cove Independent School Districts and the Nolanville Common School District created the Central Texas Union Junior College District in July, 1965. A \$2,000,000 bond issue to construct and equip the campus followed in October, 1965. In January, 1966, the Board of Trustees employed Dr. Luis M. Morton as President of Central Texas College and offices were opened in Killeen that same month. In June of that same year, ground-breaking ceremonies were held and the first classes were held in September, 1967. Since that time, Central Texas College has expanded to include three Texas Campuses: Central Campus in Killeen, the Fort Hood Campus, and the Service Area Campus. Additionally, a full-service support facility is located in the Killeen Mall. The Central Campus Physical Plant now includes the present thirty-two buildings. The current student population for the three Texas Campuses is approximately 6,000 per semester.

The 560-acre campus, located on U.S. Highway 190 between Killeen and Copperas Cove, Texas, was dedicated "...to the service of the people..." on December 12, 1967, by the 36th President of the United States, Lyndon Baines Johnson.

EDUCATIONAL PHILOSOPHY

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

In order to ensure the fullest service possible to the civilians of the surrounding area, to the personnel of the large military installation adjacent to the Central Campus and to the personnel of military installations around the world, the educational programs of the College are designed to meet the needs of full-time and part-time students. To accommodate diverse educational needs, Central Texas College provides a variety of educational programs.

The objective of Central Texas College is to become a total learning environment, encompassing traditional and non-traditional forms of education. The guiding principle of the total learning environment is the College's commitment to meet the real educational needs of all the people. The College proposes to make available, in its total environment, the opportunity to achieve success in life, which is the birthright of every American.

EDUCATIONAL OBJECTIVES

Central Texas College meets the varied educational needs of its students by providing the following categories of programs:

- For students working toward a baccalaureate or professional degree, the College offers a
 wide range of first-year and second-year courses which transfer to senior colleges and
 universities.
- The College offers one-year and two-year programs in technical and occupational fields for students interested in preparing for careers in a variety of business, health, industrial, and vocational occupations.
- The College provides general education courses for those students wishing to develop competence, skills, and attitudes essential to effective performance as an individual, as a

citizen, and as a productive member of society.

- 4. For the person wishing to improve job skills or to move into a new career, the College offers credit and non-credit continuing education courses, as well as service programs on cultural, civic, and other topics of community interest. Continuing education services are provided to individual adults, business, industrial, and military organizations.
- 5. The College provides counseling and guidance services to assist students in defining goals, identifying abilities, and selecting appropriate courses. Placement Services are provided to assist students in locating full-time and part-time jobs while they are attending College and to assist students in securing employment after graduation.

THE CATALOGUE

This catalogue is an official bulletin of Central Texas College containing policies, regulations, procedures, tuition and fees in effect at the time this catalogue was published. The College reserves the right to make changes at any time to reflect current board policies, administrative regulations and procedures, amendments required by state law, and tuition and/or fee changes. The catalogue serves two purposes: first, to provide general policy for all Central Texas College operations and second, to provide specific information, policy, and directives for the Texas Campuses. Rules, regulations, and procedures for the Continental and International Campuses are found in the Central Texas College Continental and International Supplement.

Students are urged to study the contents of this catalogue carefully, as they are responsible for observing the regulations contained herein.

Other official bulletins published by the College include the Catalogue Supplement describing policies, procedures, regulations, and fees for campuses outside the State of Texas and the Student Handbook, which includes the Institution's policies and regulations relating to student conduct and student activities at the Central Campus.

EQUAL OPPORTUNITY POLICY

Central Texas College is committed to its policy of equal educational opportunity and administers its educational programs without regard to sex, handicap, race, color, or national origin in its educational and vocational programs, activities, or employment as required by Title IX, Section 504 Title VI.

Central Texas College has established programs to ensure that a lack of English language skills will not be a barrier to admission and participation in all educational and vocational programs.

For information about rights or grievance procedures, students should contact the Director of Student Services, Central Texas College in Room 100 of the Roy J. Smith Student Center, phone number (817) 526-1258.

PROGRAM/COURSE AVAILABILITY

Programs of study displayed in this catalogue are offered when sufficient interest indicates a level of enrollment required for program continuation. Students desiring to enter specific programs of study are advised to seek confirmation of program availability prior to their first registration.

The College further reserves the right to adjust course scheduling, including class cancellation, when enrollment or other circumstances require this action.

ADMISSIONS AND REGISTRATION

GENERAL ADMISSION INFORMATION

Requests for application materials or questions concerning admission should be addressed to the Admissions Office.

Central Texas College is an open-door comprehensive community college. An open-door admission policy is maintained to ensure that all persons who may benefit from post-secondary education have the opportunity to enroll. New students will be admitted to the College providing all admission requirements are met.

Admission to the College does not guarantee admission to specific programs and courses. Departmental approval is required to register for certain courses, as published in the registration schedule.

ADMISSION REQUIREMENTS - ALL STUDENTS

Students who hold diplomas from accredited secondary (high) schools or GED equivalency certificates will be admitted to Central Texas College. Students transferring from another accredited college will be admitted if they are eligible to return to the institution last attended. Adults, veterans and military personnel who have not completed a high school program, but who are prepared to undertake post high school studies, may be admitted by individual admission to certain areas of study if, in the judgment of College officials, such study will be of value to the individual. NOTE: An adult, for purposes of admission, is defined as an individual 18 years of age or older.

ENTRANCE EXAMINATIONS

American College Test (ACT) or Scholastic Aptitude Test (SAT) entrance examinations are recommended for admission counseling. Test scores should be forwarded to Central Texas College or included with your application. Students who have submitted ACT or SAT scores are not required to take Placement Tests.

All other entering students seeking a degree or certificate will be required to take the reading portion of the Placement Test. Students without ACT or SAT scores enrolling in English or mathematics courses for the first time will be required to take the English and mathematics Placement Test before registering for classes.

The Central Texas College Placement Tests are designed to assist the individual and the counseling staff in placing students in English or mathematics courses where the student's potential for success is optimal.

FORMS REQUIRED

In addition to the above criteria, students must complete an Application for Admission and provide residency certification prior to being considered for admission.

RECORDS REQUIRED

TRANSCRIPTS AND TEST SCORES

Records of all previous education must be on file with the Records Office in order to fulfill admission requirements of Central Texas College. Test scores are required prior to admission to certain programs.

 HIGH SCHOOL GRADUATES: Who have not previously completed 12 semester hours of coursework from a regionally accredited college or university must submit an official high school transcript.

- HIGH SCHOOL EQUIVALENCE GRADUATES: Who have not previously completed 12 semester hours of coursework from a regionally accredited college or university must submit High School General Education Development (GED) scores.
- COLLEGE TRANSFER STUDENTS: Seeking certificates or degrees from Central Texas College must provide official transcripts for all regionally accredited college study before official degree plans are provided.
- INDIVIDUAL ADMISSIONS STUDENTS (except transient students): Must provide official transcripts for all previous college study from accredited colleges or universities they previously attended.

NOTE: Students are responsible for requesting their official records to be forwarded directly from the issuing institution to the Central Texas College campus serving the student's location. Addresses are listed in the front of the catalogue. Transcripts must bear original mark or seal and signature of the Registrar to be acceptable. Admission requirements have not been met until records required are on file with the appropriate campus records office.

TRANSIENT STUDENTS

Students not seeking a degree or certificate from Central Texas College are not required to provide previous education records, as noted above. Records will be required if student later elects to seek a diploma or certificate.

READMISSION REQUIREMENTS

Central Texas College students who have not enrolled for two years or more at the College must re-complete the admission process. Students who have attended other institutions during their absence from Central Texas College must provide transcripts from all institutions attended during the absence.

EARLY ADMISSIONS

Early admission offers the opportunity for high school seniors, 17 years of age or older prior to the first class day of session enrolled, to earn college credits while concurrently enrolled in high school or during summer sessions after completion of junior year. Early admission is open to any high school senior, subject to the following conditions:

- a) An Early Admission Form with the signatures of high school principal or counselor* and parent or legal guardian must be submitted.
- b) Student must provide an official high school transcript showing that they are a minimum of 17 years of age and a senior.
- c) The student will be expected to adhere to all policies of the College and the high school to include attendance.

Students who meet the above criteria will be accepted at Central Texas College on individual approval to take one (1) course per semester or one (1) course each summer session at Central Texas College. Credentials must be re-submitted each semester for early admission.

*NOTE: Central Texas College assumes no responsibility for loss of Interscholastic League eligibility of high school students enrolled under this program.

INTERNATIONAL STUDENTS

INTERNATIONAL ADMISSION REQUIREMENTS (Texas Campuses Only):

Sixty days prior to registration, in addition to completing Application and Admission requirements, international students must provide:

- 1. IMMIGRANT AND REFUGEE STUDENTS:
- a) Immigrant Card, or
- b) I-94 Departure Record
- NON-IMMIGRANT ALIEN STUDENTS: (applies to all students holding visa category A-M issued by U.S. Immigration and Naturalization Service):
- a) Official copy of transcript for last four years of secondary school. The official transcript must be an original copy translated into English and must show each course completed and grade earned.
- b) Official copy of transcript from each college or university attended. All foreign transcripts must be certified English translations, to assist counselors in placement and evaluation procedures.

NOTE: Transcripts must bear original mark or seal and signature of the Registrar to be acceptable.

- c) Test of English as a Foreign Language (TOEFL): Minimum acceptable score is 550. Test score cannot be lower than 550; if the test score is below 550, the student must enroll in the Intensive English course.
- d) Financial Statement indicating sufficient funding for tuition, fees, and personal expenses.
- Tuition Deposit A non-refundable deposit of \$500 must be on file with the Admissions
 Office prior to issuance of Form I-20. (\$100.00 is non-refundable should student fail to
 complete registration with Central Texas College.)
- f) Dormitory Application and deposit: A \$100.00 deposit is required before a reservation may be made for a student.
- g) Compliance with all requirements and procedures established for visa category by U.S. Immigration and Naturalization Service.
- International students must purchase medical insurance upon enrollment at Central Texas College.

International students wishing to apply to Central Texas College should address inquiries to the Coordinator of International Student Services, who will provide forms and instructions to complete the requirements listed above.

DEPARTMENTAL ADMISSIONS REQUIREMENTS

CAREER PILOT STUDENTS

All career pilot students must pass FAA physical exams appropriate to their level of training prior to admission to flight training. Written evidence of FAA medical certification must be presented to the Department Manager at the time of pre-registration advisement for admission to this department.

NURSING STUDENTS

Associate Degree Nursing Program

Applicants for the program must follow the regular procedures for admission to Central Texas College. In addition, the following is required of all applicants for admission to the Nursing Program.

1. Application to the Nursing Program.

- 2. Transcripts of high school graduation or completion of GED with a score of 40 or above. It is the applicant's responsibility to ensure receipt of the transcript.
- Transcripts of previous college credits. <u>It is the applicant's responsibility to ensure receipt of the transcript.</u>
- 4. Completion of the courses prerequisite to NURI 1901 with a C or above:

ENGL 1301 MATH 1301 PSYC 1101 PSYC 2301

- All transfer courses accepted in the Nursing curriculum must have a grade of C or above. Science courses that are over 5 years old must be repeated.
- A personal interview with the Director of the Nursing Program. Interviews are held on Wednesdays. Call for an appointment when transcripts are available.
- After a student has been accepted for admission, the following must be on record in the nursing office <u>prior</u> to the first day of class:
 - a. Proof of physical exam completed within the last 6 months signed by a M.D. or D.O.
 - b. Professional liability insurance coverage for 2 years.
 - c. CPR certification BLS Course A.
- Certain students may be eligible for challenging specific courses. Those individuals interested should contact the Nursing Department Director.

Vocational Nursing Program

- Application to the Nursing Program.
- 2. Successful completion of the PSB aptitude or ACT/SAT tests.
- 3. A personal interview with the Director of the program.

PROGRESSION REQUIREMENTS

In order for the student to progress in the Nursing Program, the following requirements must be met:

- Achievement of a grade of "C" or better in all courses in the curriculum, including academic and nursing courses.
- 2. Prerequisites to each nursing course have been successfully completed.
- 3. Achievement of the grade of Satisfactory in the clinical area.
- 4. Current CPR Certification.
- 5. Current liability insurance.
- 6. Proof of physical exam or diagnostic tests as recommended or required.

TRANSFER STUDENTS

- Must meet general admission requirements of Central Texas College and the Nursing Department.
- Must have a GPA of 2.5.
- 3. Must present syllabi of nursing courses already completed.
- 4. Must present transcripts from all colleges attended.
- 5. May be requested to challenge certain nursing courses, depending on the transcripts.
- Placement in nursing courses will be dependent upon availability and recommendations of the Admissions and Standards Committee.

READMISSION POLICY

- Readmission to any nursing course is dependent upon availability of class openings <u>after</u> <u>current class progression</u> but is not automatic.
- The student must complete the nursing program within 4 calendar years of enrollment in NURI 1901.
- The student who does not successfully complete any nursing course or who withdraws from a nursing course with a failing average may apply for readmission <u>only one time</u>.
- 4. Ranking for selection to available class openings is in the following order:
 - A. Former CTC nursing students.
 - 1. Consideration for readmission is based on:
 - a. Former team recommendation.
 - b. Academic grade average and clinical evaluation.
 - c. Reason(s) for failure, if applicable.
 - d. Resolution of outside extenuating circumstances.
 - e. Completion of remedial work and/or completion of corresponding Level 1 or Level 2 academic courses (if recommended).
 - f. The recommendation of the Admission and Standards Committee.
 - 2. An interview may be required.
 - B. Challenge students ranked by grade on exam.
 - C. Transfer students
- 5. Selection of students for readmission will be made in July and December.
- After a student has been accepted for readmission, the following must be on record in the nursing office prior to the first day of class.
 - A. Proof of Physical Exam signed by M.D. or D.O. within the last 6 months.
 - B. Professional liability insurance coverage for the remainder of the nursing program.
 - C. Current CPR certification BLS Course A.

UNIFORM APPLICATION OF STANDARDS

The standards of College policy relative to the academic status of the student and all matters relating to the student are uniform at all locations serviced by Central Texas College. The subsequent sections of the catalogue provide information required and unique to Texas campuses.

CENTRAL TEXAS COLLEGE TEXAS SERVICE LOCATIONS

Central Texas College provides services at ten Texas locations which include:

- Central Campus, located between Killeen and Copperas Cove, Texas.
- * Fort Hood Campus, located within the College District at Fort Hood, Texas.
- * Service Area Campus operates satellite offices strategically located in seven counties with offices in Brady, Copperas Cove, Gatesville, Hamilton, Killeen, Lampasas and San Saba.
- Central Texas College Mall Center located in the Killeen Mall at 2100 W.S. Young Drive.

The following pages provide data and information particularly applicable to students at these campus locations.

REGISTRATION

NEW STUDENT PRE-REGISTRATION ADVISEMENT

All first-time students are required to participate in the pre-registration advisement process on campus. This process includes meeting with counseling staff and referral to other specialized services, such as Financial Aid, Veterans Services, and Testing Services. Schedule bulletins containing necessary registration information are available at all registration and academic department offices.

WHEN TO REGISTER FOR CLASS

REGISTRATION PERIODS

Registration periods for regularly scheduled classes are tentatively scheduled in the college calendar published in this catalogue. Specific times, dates, and class information are published separately in the class schedule bulletin, distributed prior to each registration period.

Special registrations are conducted for classes offered at locations other than the Central Campus and for courses scheduled other than in the semester calendar. Details of special registration are published and distributed separately.

LATE REGISTRATION

Students are permitted to register late as published in the Schedule Bulletin. The fee schedule for late registration is listed on page 10. Students who complete registration after courses begin are not excused from meeting attendance or academic requirements and must arrange with the instructor to make up any assignments missed. No students are permitted to register after the scheduled late registration date.

COURSE ADMISSION

TO BE OFFICIALLY REGISTERED

Students must complete the published registration procedure each term, including payment of all tuition and fees, to gain admission to classes. Installment paying of tuition is not permitted. Students who withdraw are not entitled to remain in class on an unofficial basis.

WITHDRAWAL - see page 32.

Schedule Of Tuition and Fees Texas Campuses 1988-1989 Effective Date: Spring Semester 1989

The new Tuition Schedule for Central Texas College has been approved by the Board of Trustees and appears below.

TUITION

*Semester Hours	Resident	Nonresident & International
1	\$ 48.00	\$225.00
2	\$ 48.00	\$240.00
3	\$ 48.00	\$255.00
4	\$ 64.00	\$270.00
5	\$ 80.00	\$285.00
6	\$ 96.00	\$300.00
7	\$112.00	\$315.00
8	\$128.00	\$330.00
9 .	\$144.00	\$345.00
10	\$160.00	\$360.00
11	\$176.00	\$375.00
12	\$192.00	\$390.00
13	\$192.00	\$405.00
14	\$192.00	\$420.00
15	\$192.00	\$435.00
16	\$192.00	\$450.00
17	\$192.00	\$465.00
18	\$192.00	\$480.00

^{*}NOTE: All tuition and fees are subject to change as aproved by the Board of Trustees.

TUITION AND FEES

All tuition and fees are subject to change without notice. All tuition and fees must be paid at the time of enrollment. A student is not officially registered until payment is made in full. Until all the student's obligations to the College have been satisfied, the student may not graduate or have transcript(s) issued. For tuition and fee schedules in effect at the time of publication, see pages 9 and 10.

SCHEDULE OF TUITION AND FEES **CENTRAL CAMPUS 1987 - 1989 TUITION**

SEMESTER HOURS	RESIDENT	NONRESIDENT & INTERNATIONAL
1	\$45.00	\$215.00
2	\$45.00	\$230.00
3	\$45.00	\$245.00
4	\$60.00	\$260.00
5	\$7 5.00	\$275.00
6	\$90.00	\$290.00
7	\$105.00	\$305.00
8	\$120.00	\$320.00
9	\$135.00	\$335.00
10	\$150.00	\$350.00
11	\$150.00	\$365.00
12	\$150.00	\$380.00
13	\$150.00	\$395.00
14	\$150.00	\$410.00
15	\$150.00	\$425.00
16	\$150.00	\$440.00
17	\$150.00	\$455.00
18	\$150.00	\$470.00
*See Note		

INDIVIDUALIZED INSTRUCTION

(Tuition in addition to above semester hour tuition)

(Tuttion in addition to	(1 diction in addition to above semester notification)						
Aviation Maintenance\$75.00	Music						
Career Pilot * *	Piano and Voice						
CAPI 1300\$1675.00	1 Semester Credit Hour\$90.00						
CAPI 1304\$1585.00	2 Semester Credit Hours\$140.00						
CAPI 2304\$1920.00	3 Semester Credit Hours\$160.00						
CAPI 2305\$2430.00	Other Special Instruction						
CAPI 2306 \$1440.00	1 Semester Credit Hour\$50.00						
CAPI 2308\$1350.00	2 Semester Credit Hours\$60.00						
CAPI 2309\$3210.00	3 Semester Credit Hours\$75.00						
CAPI 2310\$1765.00	Photography\$20.00						
CAPI 2311\$2380.00	Physical Education						
CAPI 2312\$1180.00	Bowling\$36.00						
CAPI 2313\$2640.00	Fitness Center\$36.00						
CAPI 2314\$6750.00	Golf\$22.00						
CAPI 2315\$2970.00	Karate\$22.00						
Criminal Justice	Welding						
Firearms\$25.00	4 Semester Credit Hours\$25.00						
Food Service	5 Semester Credit Hours\$30.00						
FSMG 1401\$30.00							
FSMG 2401\$30.00							
FSMG 2402\$30.00	• *See Note						

FEES

LABORATORY FEE (All Lab Courses except as otherwise specified)	Minimum \$12.00
GED Testing	
Graduation	
Transcript/Records * • *(per copy)	\$2.00
Institutional Challenge Exam	\$30.00
Meal Card Replacement	\$5.00
Pre-registration Fee	\$10.00
FAA Exam (one)	\$55.00
RETURN CHECK FEE	\$10.00
Student I.D. Replacement	\$5.00
Schedule Change Fees (per course)	\$5.00
Late Registration Fee.	\$10.00
*See Note	
RENT, ROOM & BOARD, AND DEPOS	SITS
General Property Deposit	\$10.00
International Student Deposit	
(\$100.00 non-refundable)	φυσοιοσ
Dormitory Property Deposit	\$100.00
College Housing Deposit	
Conlege Flousing Deposit	
Campus Apartments (monthly rental)	
One-Bedroom Apartment.	\$275.00
Two-Bedroom Apartment	\$315.00
(There is an additional fee for electricity, billed monthly)	
Student Resident Hall Room & Board Plan (Per Semester)	
Fall & Spring Semester:	
Seven-Day Meal Plan, including tax	
Five-Day Meal Plan, including tax	\$1028.00
Four-Day Meal Plan, (3 Meals per day, Mon Thurs., including tax)	\$943.00
Five-Day Meal Plan, (2 Meals per day, No Breakfast, Mon Fri., including to Summer Semester:	ax)\$967.00
Seven-Day Meal Plan, including tax	\$858.00
Five-Day Meal Plan, including tax	
Four-Day Meal Plan, including tax	\$653.00
Five-Day Meal Plan, (No Breakfast), including tax	\$669.00
Room & Board Plan (Per Month). Skill Center Students Only:	
Seven-Day Meal Plan, including tax	\$345.00
Five-Day Meal Plan, including tax	\$290.00
rive-Day Ivical I fall, including lax	
Daily Occupancy Rate (with board)	\$17.00
with Linens	\$22.00
Daily Occupancy Rate (without board)	\$8.00
with Linens	\$13.00

^{*}NOTE: All tuition and fees are subject to change as approved by the Board of Trustees.

^{• *}NOTE: Additional Career Pilot individualized instruction tuition may be paid in three monthly payments the first payment due at time of registration.

^{* *}NOTE: Refund of overpayment of transcript/record fees will be made only upon written application of the student.

^{*** *}NOTE: All rent, room and board charges are subject to change as approved by the Board of Trustees.

REFUNDS OF RENT, ROOM & BOARD AND DEPOSITS

RENT - Refunded on a pro-rata basis after deductions for repair, cleaning, etc.

DEPOSITS - Refunded after deduction for repair, cleaning, etc.

ROOM CHARGES - Non-refundable.

BOARD CHARGES - Refundable on pro-rata basis.

REFUNDS OF TUITION AND FEES

No tuition refunds will be made except in the case of cancellation or official withdrawal from the College or from a course.

All refunds for tuition will be computed from the date the Application for Withdrawal/Refund is filed with the Records Office (not from the date of last attendance) according to the following schedule:

 Students who officially withdraw from the Institution shall have their tuition and mandatory fees refunded according to the following schedule:

Fall and Spring Semesters

Prior to the first class day - 100%
During the first five class days - 80%
During the second five class days - 70%
During the third five class days - 50%
During the fourth five class days - 25%
After the fourth five class days - NONE

Summer Semesters

Prior to the first class day - 100%

During the first, second or third class day - 80%

During the fourth, fifth or sixth class day - 50%

After the sixth class day - NONE

 Students who reduce their semester credit hour load by officially dropping a course or courses and remain enrolled at the institution will have applicable tuition and fees refunded according to the following schedule:

Regular Session

During the first twelve class days	100%
After the twelfth class day	NONE
The treatment also day	
	Summer Session
During the first four class days	100%
	NONE

- Tuition and fees paid directly to the Institution by a sponsor, donor, or scholarship shall be refunded to the source rather than directly to the student.
- Adjusted tuition and fees schedules, based upon the above guidelines, will be utilized in determining refunds for students enrolled in courses which vary in length from the regular and summer sessions.
- Emergency withdrawal will be considered to be filed as of the date of the emergency.
 Students must submit written proof of emergency such as military emergency leave orders or medical certification of family emergency. Refunds under emergency conditions will follow the tuition refund schedule listed above.
- Class day count begins with the first day of instruction (the first calendar day of the term)
 and includes all weekdays, Monday through Friday, which are not designated College
 holidays.

REFUND POLICY NON-CREDIT COURSES

No tuition refunds will be made except in the case of course cancellation or official withdrawal from a course. The refund policy for non-credit courses offered by Central Texas College will be as follows:

- All refunds will be processed on the basis of the date the withdrawal form is filed with the Records Office.
- For courses which meet for more than one class session, refunds of 100% of tuition and fees will be processed for students withdrawing prior to the second class meeting.
- For courses which meet for only one class session, refunds of 100% will be made only if the application for refund withdrawal is filed with the Records Office prior to the beginning of the class.
- 4. Emergency withdrawal will be considered to be filed as of the date of emergency. Students must submit written proof of emergency, such as military emergency leave orders, or medical certification of family emergency. Refunds under emergency conditions will follow the schedule above.
- Any exceptions to the above policy will require the approval of the appropriate Dean and the Director of Fiscal Management.

RESIDENCE CLASSIFICATION

The responsibility of registering under the proper residence classification is that of the student. If a student has any question concerning residence classification as a resident of Texas, it is the student's obligation to raise the question with the Registrar prior to registration. A STUDENT WHO IS A LEGAL NON-RESIDENT, BUT WHO REGISTERS AS A RESIDENT, IS SUBJECT TO DISCIPLINARY ACTION.

Residence for tuition purposes is determined by State Law for state-supported colleges, and as such is subject to change by the Texas Legislature.

Copies of the Rules and Regulations for Determining Residence Status, Coordinating Board, Texas College and University System, may be obtained from the Registrar or the Records Office. Below is a summary of this publication. It should not be construed to cover all situations.

Whenever a change in the student's status affecting his or her residency classification for tuition purposes occurs or there is a break of one semester or more in his or her attendance at Central Texas College, residency documentation must be provided.

CITIZENS OF THE UNITED STATES OF AMERICA

- Residence for tuition purposes is established by domicile residence in the state for 12 months
 prior to enrolling at an educational institution and actions unequivocally indicative of a fixed
 intention to become a Texas resident.
- A student over 18 years of age or who comes from out of state is considered a non-resident for tuition purposes as long as he remains in Texas only for educational purposes.
- The residence status of a student under 18 years of age is considered to be the same as his parents. If parents are divorced, residency is determined by the parent who claims the student for Federal Income Tax purposes both at the time of enrollment and tax year prior to enrollment.
- 4. An individual under 18 years of age whose family resides in another state, or whose family has not resided in Texas for 12 months immediately preceding the date of registration, is classified a non-resident.
- For dependents over 18 years of age who have not established separate residence from parents, dependency upon a parent may be considered in determining classification. (See 3 above).

CITIZENS OF ANY COUNTRY OTHER THAN THE U.S.A.

An alien living in the United States under a visa permitting permanent residence has the same privilege of qualifying for Texas resident status for tuition purposes as a citizen of the United States.

Aliens who are not permanent residents of the United States will be classified as foreign students.

A student classified as a non-resident retains that classification until he provides proof of residence to the Office of the Registrar.

EXEMPTIONS

Under certain conditions a non-resident student is entitled to pay the same tuition as a resident of Texas. A request for an exemption should be made at the Records Office prior to registration. Documentation to support exemption request is required.

- An individual and dependents of such an individual, who owns property which is subject to
 ad valorem taxation by the College may waive the difference in the rate of tuition between
 resident and non-resident. Property ownership must be verified by presentation of an ad
 valorem tax statement and appropriate evidence of ownership of property that is subject to ad
 valorem taxation by the Junior College District.
- 2. Persons in the military service and their dependents are classified as non-residents, but eligible to pay in-state tuition, provided they are assigned to a permanent duty station in Texas or maintain their Official Home of Record in Texas with the military service. Non-resident military personnel must submit certification of active duty in Texas at each registration to be eligible for resident tuition rates.
 - NOTE: Military personnel, separating from active duty service, whose home of record is other than Texas are not automatically considered residents for tuition purposes. Separated military personnel must have resided in Texas other than as students for 12 months prior to enrollment and subsequent to discharge from service.
- If a non-resident receives an academic competitive scholarship of at least \$200 per academic year, he may pay resident tuition during the registration period in which the scholarship is in effect.

TEXAS RESIDENCY VERIFICATION REQUIREMENTS

ESTABLISHMENT OF RESIDENCE. Individuals 18 years of age or older who move into the state and who are gainfully employed within the state for a period of 12 months prior to enrolling in a public institution of higher education are entitled to classification as Texas residents.

DEPENDENTS OVER 18. For dependents over 18, residency is determined by the parent who claims the student for federal income tax purposes both at the time of enrollment and for the year prior to enrollment.

The Coordinating Board, Texas College and University System, has established residency verification requirements which will affect all new students claiming Texas residency and all returning Texas Resident students who are not continuously enrolled each semester (to include the Summer term).

Specifically, the Coordinating Board requires that all students, <u>not military connected within the past year</u>, claiming Texas Residence must submit to the Records Office, one or more of the following documents which must remain on file in the student's record (all documents must be 12 months old):

- Texas High School Transcript
- Texas College or University Transcript
- * Employer statement of date of employment
- Permanent Driver's License (at least one year old)* Cancelled checks from Texas Bank
- Texas Voter Registration
- Verification of in-district purchase of property
- Lease agreement which includes students' names and periods leased.
- Property Tax Statement
- * Utility Bills
- * Other third party documentation (notarized)

THOSE UNABLE TO PRODUCE DOCUMENTATION WILL NOT BE ELIGIBLE FOR STATE **TUITION RATES**

Individuals who have been connected with the military within the past year must provide a Leave and Earnings Statement dated one year prior to registration which reflects Texas as the permanent address.

Active duty personnel stationed in Texas and their family members are classified non-residents, but are eligible to pay in-state tuition by presenting a military I.D. card effective through certification date (12th class day).

If military personnel and their family members wish to be classified as Texas Residents for tuition purposes they must provide proof that the sponsor entered the service from Texas or a Leave and Earnings Statement dated one year prior to registration which reflects Texas as the tax state.

Individuals who purchase property in Texas one year prior to enrollment are eligible for Texas Residency status.

If the property has been owned for less than one year, a waiver may be given if the property is within the College District. Proof must be secured from the tax office.

RECORDS ACCESS

STUDENT RECORDS

In compliance with the Family Educational Rights and Privacy Act of 1974, information classified as "directory information" may be released to the general public upon consent of the student at the time of initial registration.

DIRECTORY INFORMATION

NAME LOCAL ADDRESS HOME ADDRESS TELEPHONE NO. **BIRTHDATE** MAJOR FIELD OF STUDY DATES OF ATTENDANCE DEGREES AND AWARDS RECEIVED MOST RECENT PREVIOUS EDUCATIONAL AGENCY OR INSTITUTION ATTENDED CLASSIFICATION DATE OF GRADUATION

Access to any other records by persons other than the student will be limited to those persons specified in the statute. Records will be maintained of persons granted such access.

STUDENT SERVICES

COUNSELING

As a service to students and to the community, Central Texas College maintains a staff of professional counselors, in addition to faculty advisors in each instructional program.

The Career Guidance Center functions to assist students in making decisions regarding their vocational, educational, and personal-social plans. As a part of this program, counselors assist in interpretation of tests, inventories, and occupational and educational information.

COURSE PLANNING

Proper planning of courses is important for each student in order to assure that individual objectives may be attained. Guidance in educational planning is available to students and prospective students through the Career Guidance Center, by appointment and at announced registration periods. Students who are undecided as to their major field of study should contact the Career Guidance Center for assistance in course planning before beginning the registration process. Students who have decided on a major field of study should contact the appropriate Department Advisor for assistance in course planning. A listing of Department Advisors is published in the Student Schedule Bulletin. Final responsibility for a proper and successful educational venture rests with the student.

CAREER PLACEMENT SERVICES

The Career Placement Services Office provides career planning and placement services for students and alumni seeking part-time and full-time employment. Placement personnel assist students in obtaining positions compatible with their education and experience.

Students interested in this service should register with the Placement Office and provide an individual credential file (application/resumes and reference letters) to be maintained by the Placement Office. These files will be forwarded to prospective employers when requested by the candidate for employment.

Students seeking part-time and seasonal employment are encouraged to use the job listing service of the Placement Office.

Representatives of business and industry seeking potential employees may contact the Placement Office for information and to arrange interviews with the student, when appropriate.

INTERNATIONAL STUDENT ADVISEMENT

Central Texas College maintains a special office and staff to assist non-resident alien students in matters related to their enrollment. Services include admissions assistance and academic counseling.

Inquiries should be addressed to the Coordinator of International Student Services at the Central Campus address listed in front of the catalogue.

LEARNING RESOURCE CENTER

Free individualized, self-paced instruction by open entry/open exit registration is available all year round. Texts, modules, audio-visuals, and supplies are dispensed from the Learning Resource Center. Classes are provided in the areas listed below:

Adult Basic Education (ABE)
General Education Development (GED)
English-as-a-Second Language (ESL)
Mathematics and English preparation for College
Mathematics and English instruction for nursing students
API (American Preparatory Institute) high school completion (tuition fees required)

PROJECT MAINSTREAM

Project Mainstream provides tutorial instruction for specific vocational and required academic classes to improve student scholastic performance. Reentering and first time students may attend an individualized orientation. Additionally, students are linked to off-campus resources designed to improve the student's opportunities for development and success. Services available include:

- Tutors for vocational courses and required academic or pre-vocational courses
- Orientation
- * Campus and social service agency referral
- Monitoring of satisfactory progress
- * Job-readiness instruction
- * Individual and group study skills instruction
- Improving reading comprehension
- * Time management
- Note-taking
- * Test-taking
- * Writing term papers

HANDICAPPED STUDENT SERVICES

The Handicapped Student Services Program provides individualized assistance to persons who are physically and/or sensorially impaired. Students are encouraged to explore and successfully pursue a wide range of educational or vocational training. Services offered are:

- Relevant legislative information
- State and local resource referral
- * Special testing and classroom accommodation
- Notetaker, reader, interpreter and mobility aide services
- Assistance for disabled veterans
- Needs assessment and evaluation
- Assistive device loan (tape recorders, calculators, visual aids, wheelchairs)
- Vocational counseling
- Sponsorship of "We Can Do It" Club
- Emergency wheelchair service
- Direct liaison with the Commission for the Blind and the Texas Rehabilitation Commission

Handicapped parking is provided for those persons who qualify under the provisions of Vernon's Texas Civil Statutes.

SINGLE PARENT/HOMEMAKER SUPPORT SERVICES

The Single Parent/Homemaker Support Services provides assistance, support, and encouragement for persons who are finding barriers to remaining in school or who are coming to college after a long absence from formal education. Some services are available campus wide while others are limited to those persons of limited income who are enrolled in vocational/technical degree programs. Services offered include:

Counseling
Career Guidance
Guided Support Groups
Daycare Funding Assistance
Community Referral
Workshops
Aptitude/Interest Testing

THE OPPORTUNITY CENTER

The Opportunity Center is a program with a primary focus of helping individuals to prepare for and successfully complete traditional and non-traditional vocational training of education, to successfully pursue employment opportunities, and to obtain gainful employment. Services include:

Orientation - An introduction to the program and to other program participants.

Individual and Group Counseling - Individual personal counseling, guided support groups, crisis intervention services, on-going counseling, both on a regular and asneeded basis, and appropriate referrals.

Assessment and Placement - Use of interest and ability inventories, employability development planning and activities useful to adults, with an emphasis on self-assessment and personal decision-making; the identification and transfer of skills developed in homemaking, child-rearing, and volunteer work to the paid labor force, test interpretation and career placement.

Career/Educational Counseling - Activities and resources presenting a broad range of career and educational options in the context of local labor market data, and including information about non-traditional jobs, vocational training, basic education, high school equivalency, financial aid, and short-term as well as traditional programs.

Life Skills Development - Workshops on assertiveness training, single parenting, shortand long-range planning and goal setting, financial management, the health concerns of mature women, various small group discussions, and other requested topics.

Skills Training - Access to skills training programs in both traditional and non-traditional areas in the surrounding seven county area.

Pre-Employment Preparation - Activities to prepare for finding and keeping a job, such as preparing a resume, filling out job applications, taking tests, handling interviews, and negotiating salary; discussions of rights and responsibilities on the job, retention factors, and sex role differences.

Referrals - Initial referrals and follow-up advocacy for such services as economic assistance, legal aid, health care, housing, debt management, job services, vocational rehabilitation, and other social service agencies.

TESTING SERVICES

Central Texas College provides an extensive testing program for interested students and residents of the area. For further information and testing dates, individuals may contact the Testing Office at the Central Campus address listed in the front of the catalogue.

ENTRANCE EXAMINATIONS - The ACT (American College Test) is administered by Central Texas College on five national test dates each year. It is recommended that all new students who have not previously taken the ACT or SAT (Scholastic Aptitude Test) take the ACT for guidance purposes.

PLACEMENT TEST - Those entering students who have not completed the ACT or SAT who seek a degree or certificate with Central Texas College will be required to take the reading portion of the Placement Test. Students without ACT or SAT scores enrolling in English or mathematics courses for the first time will be required to take the English and mathematics Placement Test before registering for classes. The Placement Test are offered year round by appointment and students are encouraged to complete testing prior to the published registration dates.

ADVANCED STANDING EXAMINATIONS - CLEP (College Level Examination Program) examinations, which are nationally prepared tests for students desiring to receive credit for knowledge already obtained, are administered by Central Texas College four days each month. By this means students may accelerate their college program and may take courses at the next higher level. To obtain credit, the student must pass the exam, apply for credit and have completed a minimum six semester hours of course work at Central Texas College with a minimum 2.0 G.P.A.

OCCUPATIONAL AND CAREER TESTING - The CPP (Career Planning Program), the Strong-Campbell Vocational Interest Inventory and the DAT (Differential Aptitude Test) are available to help inventory interests in a variety of occupations. The ACT Assessment also assists students in making educational and career decisions.

HIGH SCHOOL EQUIVALENCY EXAMINATION - Central Texas College offers the GED (General Education Development) examination for those who have not completed a formal high school education. The successful completion of this examination may result in a certificate of high school equivalency.

INSTITUTIONAL CHALLENGE EXAMINATIONS - Students may request, through the appropriate Department Manager, permission to take challenge examinations for certain courses. An application for challenging a course must be completed and returned to the Testing Office with the appropriate non-refundable fee. The student will then coordinate with the Testing Office or department for the time and place to take the examination. Failure to appear for the examination will result in the loss of the challenge fee. Students must not have previously enrolled in the course for college level credit. Those who do not make a grade of "A" or "B" will not be permitted to repeat the challenge examination for that course at a later time. To obtain credit, the student must pass the examination with a grade of "A" or "B", have completed a minimum, six semester hours with a 2.0 grade point average, and submit an application for credit award.

TOEFL (INSTITUTIONAL TESTING PROGRAM) - Test of English as a Foreign Language is administered to all international students except those from English speaking countries.

OTHER TESTS - Central Texas College also administers other tests as may be useful to people of the community. For a complete listing of available tests or additional information, students are invited to contact the Testing Office.

EVALUATION OF PREVIOUS EDUCATION

TRANSFER STUDENTS

Transfer of credit from accredited colleges and universities may be accepted when the grade earned was "C" or better and the course work applies to the student's curriculum. Passing grades lower than "C" may be considered for transfer in accordance with current evaluation procedures and curriculum requirements. Grades other than "A", "B" or "C" will not be accepted in transfer in major degree requirements.

Due to the rapid changes taking place in the technological field today, coursework taken in a major field of study or courses directly related to that major field may not be accepted in transfer to satisfy specific Associate in Applied Science degree requirements. Acceptance of course credit in transfer for the above mentioned courses must be approved by appropriate Departmental

Managers when coursework was completed seven years or longer before the student entered the Central Texas College program of study.

NON-TRADITIONAL EDUCATION

Central Texas College recognizes that each student's educational needs, goals, and experiences are unique and that individuals are proficient in many areas of college work that are not formally documented on transcripts. It is the policy of the College to recognize non-traditional learning experiences and to award College credit in all cases where such credit is appropriate. In keeping with this policy, Central Texas College has established the Individualized Career Evaluation Process (ICEP).

The purpose of ICEP is to systematically correlate business, industry, government, and military education received by non-traditional methods with institutional curricular requirements.

All students, including military and former military personnel, are eligible for credit consideration based upon documentation of their previous learning experiences.

The non-traditional methods usually considered applicable toward a degree at Central Texas College are:

- The Defense Activity for Non-Traditional Educational Support (DANTES) Courses and Subject Standardized Tests.
- College Level Examination Program (CLEP) both the General Examination and Subject Examination.
- Institutional Course Challenge Examinations.
- Credit for military schools attended as recommended by the American Council on Education and recognized by Central Texas College.
- Credit for military service basic training.
- MOS Training and Experience as recommended by the American Council on Education and recognized by Central Texas College.
- American College Testing Program (ACT).
- College Board Admission Testing Program.
- Correspondence Extension Courses offered by accredited institutions which are members of the National University Extension Association.
- Other To include certain types of civilian training and specialized testing.

EVALUATION PROCEDURES

Curriculum plans outlining accepted transfer and/or non-traditional credit as well as remaining requirements are available from College, Military Education Centers or Navy Campus advisors upon student request.

Final degree plans are provided upon receipt of all official transcripts and documents. Evaluated credit must be validated through successful completion ("C" grade or higher) of a minimum of six semester hours of traditional credit earned at Central Texas College.

Application for a final degree plan may be made by submitting an Evaluation Request form to Evaluations, Central Texas College, at the administrative office serving your area. Addresses are

Evaluated credit awarded by Central Texas College applies to its programs of study and may transfer to other institutions according to the policies of the receiving institution. Students planning to transfer to other institutions should consult with those institutions regarding their policies on acceptance of evaluated credit.

SERVICEMEMBERS OPPORTUNITY COLLEGE - Because of its efforts to serve the educational needs of servicemembers and their dependents, Central Texas College has been designated a Servicemembers Opportunity College. As a member of the Servicemembers Opportunity College Associate Degree (SOCAD and SOCNAV) program Central Texas College has committed itself to fully support and comply with SOC Principles and Criteria. Through this commitment, Central Texas College ensures that:

- Servicemembers and their dependents share in the postsecondary educational opportunities available to other citizens.
- Servicemembers and their dependents are provided with appropriately accredited educational programs, courses, and services.
- Flexibility of programs and procedures, particularly in admissions, credit transfer, recognition of non-traditional learning experiences, scheduling, course format, and residency requirements, are provided to enhance access of servicemembers and their dependents to undergraduate educational programs.

SOC CRITERIA

In support of SOC criteria and service to its military students and their dependents, Central Texas College:

- Has designed a transfer program which minimizes loss of credit, avoids duplication
 of credit, yet maintains program integrity.
- Has established guidelines which follow the general principles of good practice outlined in the JOINT STATEMENT ON TRANSFER AND AWARD OF ACADEMIC CREDIT.
- Accepts transfer credit earned from regionally accredited institutions consistent with servicemembers' and their dependents' degree programs.
- Requires only 12 semester hours of Central Texas College coursework to meet residency requirements.
- Recognizes as study in residence all credit coursework offered by the College, regardless of location.
- Allows students to satisfy residency requirements with courses taken at the College at any time during their course of study.
- Provides the Individualized Career Evaluation Process (ICEP) to access learning
 equivalence and awards credit to qualified students for specialized military training
 and experience in accordance with the ACE GUIDE TO THE EVALUATION OF
 EDUCATIONAL EXPERIENCE IN THE ARMED FORCES.
- Provides the Individualized Career Evaluation Process (ICEP) which reflects the principles and guidelines set forth in the statement on AWARDING CREDIT FOR EXTRA INSTITUTIONAL LEARNING, and awards credit for non-traditional learning assessment programs.

SOCAD/SOCNAV DEGREE COMPLETION AGREEMENT

All students can continue their Central Texas College degree programs regardless of location. Through the "credit bank" provisions of the Servicemembers Opportunity College, a student may study at any other regionally accredited college and apply the work toward Central Texas College degree requirements, as long as 12 semester hours with a minimum 2.0 GPA have been completed with Central Texas College, and the courses taken at other institutions satisfy the requirements of the Central Texas College degree program. Requests for SOCAD/SOCNAV agreements should be addressed to the SOCAD/SOCNAV Advisor at the administrative office serving the student's location. Addresses are listed in the front of this catalogue.

Students no longer attending Central Texas College who previously completed the minimum residency/GPA requirements may request a SOCAD/SOCNAV Agreement by writing to:

American Educational Complex Director SOCAD/SOCNAV P.O. Box 1800 Killeen, Texas 76540-9990

STUDENT ACTIVITIES

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

In support of this philosophy, two offices have been established to support and guide student development. Both the Student Services Office and the Student Activities Office provide informal opportunities for individual and group interaction. An organized program of student-to-student and student-faculty related activities is provided to help each student gain insight and understanding of self, society and the quality of life.

Fifteen clubs and organizations, officially approved, in addition to the Council of Student Representatives, operate on the main campus. Clubs include religious, political, social and recreational organizations. Activities of the various clubs and organizations are coordinated at weekly or bimonthly meetings. Movies, speakers, dances, workshops, concerts and related programs are also presented.

ROY J. SMITH STUDENT CENTER

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

The Center houses a bookstore, dining area, inner landscaped court, snack bar, and a carpeted lounge area. A large game room and a spacious recreation center complete with pinball machines, pool tables, color television and video games are provided.

CHILD DEVELOPMENT CENTER

Central Texas College has established a Child Development Center designed to train adults to work with young children through the Early Childhood Laboratory Associate Degree program. The Center, located on Clear Creek Road, is licensed to care for 60 children. Members of the community, college students, faculty and staff are welcome to enroll their children in this program.

Children 3-5 years of age experiment and explore in an environment conducive to learning. The developmental program allows each child to advance through stimulating activities. Central Texas College students assist in daily planning under qualified instructors.

Special activities are planned for the summer semester, including studies of other cultures and languages, crafts, gymnastics, water play and field trips. Children 3-7 years of age are accepted during this session.

FOOD SERVICE

ROY I. SMITH STUDENT CENTER

(first floor)

Telephone: (817) 526-1242/1272
Hours: 8:00 a.m. to 5:00 p.m.
Snack Bar: As posted in the Snack Bar
Cafeteria: As posted in the Cafeteria

DORMITORY STUDENTS

The dormitory student population is served well-balanced and nutritional meals by the Central Texas College Food Services Department. A food service menu advisory committee composed of Central Texas College students provides a means whereby students are offered the opportunity to recommend changes to the menu. Hot and cold food, full meals or snacks, and beverages are available from the cafeteria or the snack bar located in the Roy J. Smith Student Center.

Each residence hall student is required to purchase one (1) of the four (4) meal plans:

- 1. Seven day 21 meals per week
- 2. Five day 15 meals per week
- 3. Five day 10 meals per week, no breakfast
- 4. Four day 12 meals per week, Monday through Thursday

On Saturday and Sunday the dormitory students using the seven day plan will take all meals from the Snack Bar. All other meals must be taken from the Cafeteria.

The board plan is valid for use only by the purchaser. Each student will be issued a picture and color coded I.D. card (\$5.00 charge for replacement) to identify the type of board plan purchased. THE MEAL CARD MUST BE PRESENTED TO THE CASHIER BEFORE EACH MEAL. Students who leave their meal cards in the dorm will be required to either pay for meals or go back and get their card prior to eating.

COMMUTER MEAL TICKETS

A commuter meal ticket is available from the Food Service Office. A student may purchase either:

Ten (10) meals - \$30.50 plus tax
 Fifteen (15) meals - \$45.50 plus tax
 Thirty (30) meals - \$84.50 plus tax

Students can save approximately 25% by using the commuter meal tickets.

BOOKSTORE

The Campus Bookstore, located in the Student Center, carries new and used textbooks, supplies, tradebooks, class rings, and general merchandise. The Bookstore is owned and operated by the American Educational Complex for the convenience of students, faculty and staff.

INTRAMURAL SPORTS

Intramural sports programs have been organized for both men and women. The CTC Intramural Sports Office conducts tournaments in basketball, flag football, soccer, volleyball, softball, tennis, golf, bowling, swimming, pool, table tennis, croquet, horseshoes, washers, and Frisbee golf. Students interested in participating in these sports are invited to contact the Intramural Sports Office in the CTC Gymnasium.

In addition to competitive play, the Intramural Sports Office offers leisure time pursuits and free play activities as an essential part of the CTC campus recreation non-competitive sports program. The Intramural Sports Office works closely with the Office of Student Services and Student Activities in sponsoring interesting campus-wide special events such as tournaments, campus races, and sports skills competition. The track specials include a Turkey Trot at Thanksgiving, the Christmas Relays at Yuletime, a New Year's Eve Fun Run, and the Easter Relays during rabbit season. Sports skills championships are decided by the Super Hoops in basketball, the Punt-Pass-Kick football, and the Super Stars Pentathlon.

Students enjoy opportunities to recreate with faculty and staff in exhibition contests in basketball, volleyball, softball, tennis, golf, bowling, and table tennis.

Awards to participants include CTC T-Shirts, windbreakers, and CTC golf caps.

GYMNASIUM

The college gymnasium is open during specified times for student use. Rules and regulations regarding use and access are published in the Student Handbook.

HOUSING POLICY

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

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

- 1. Students who live with parents or with blood relatives.
- 2. Married students who live with their spouses.
- Students whose health conditions demand special attention which would not be available in the dormitories (A letter from a physician is required in such cases).
- 4. Students 25 years old as of September 1.

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

The Chancellor of the American Educational Complex will approve such operational rules and procedures as are necessary for implementation of this housing policy.

DORMITORY

Requests for dormitory rooms should be addressed to the Housing Office located in the Student Center. Central Texas College operates a modern, air-conditioned dormitory for full-time male and female students. Room requests are honored on a first-come, first-served basis. Private telephone and cable television are available in each room at student's expense.

A reservation deposit of \$100.00 is required for each room application. This deposit is not refundable after 30 days prior to the beginning of the semester for which it was first intended. Payments for dormitory and board may be made in equal installments. Dormitory policy and regulations will be supplied by the Housing Office upon request.

MARRIED STUDENT HOUSING

Air-conditioned and carpeted student apartments located on campus are available for married couples. Private telephone and cable television are available in each apartment at the tenant's expense. Those interested may apply through the Married Student Housing Office to rent unfurnished or furnished, one or two bedroom apartments. The Housing Office is located in the Student Center.

DORMITORY POOL

Located in the inside court of the Student Residence Hall is a large, inground swimming pool. The pool is 60' long, with two 14' diving boards available to swimmers. The swimming pool is open to residents of the Student Residence Hall and residents of Married Student Housing. Pool hours are posted at the pool area along with rules and regulations for the pool. Lifeguards are not available and individuals swim at their own risk.

PARKING FACILITIES

Parking space is available to students who desire to bring their cars to the campus. Each student who drives and parks a car on campus will be required to register the car with the College. Vehicle registration is conducted throughout the semester during announced registration periods. For vehicle registration at other times, see the Student Handbook. Students, faculty and staff will be required to park in designated parking areas and are required to display the campus parking permit decal. Parking and traffic regulations are set forth in detail in the Student Handbook.

LIBRARY

The Oveta Culp Hobby Memorial Library is a beautifully appointed building dedicated to a native of Killeen who was the first Secretary of the Department of Health, Education and Welfare. This centrally located facility houses a collection of 68,000 hard-bound volumes, 70,000 volume equivalents on microfiche, 500 periodical subscriptions, and over 1000 audio-visual items. Library materials are arranged on open shelves interspersed with a variety of study facilities such as individual carrels, tables, and lounge furniture. Special facilities include group study rooms, photo reproduction of books and microformat, a learning center including microcomputers, and special equipment for blind and partially sighted students.

COPYING SERVICE

Duplicating services may be purchased at the Library, the Student Center, and other coinoperated copy machines located on campus.

CENTRAL TEXAS COLLEGE KILLEEN MALL CENTER

The Central Texas College Killeen Mall Center, located in the Killeen Mall on W.S. Young Drive, operates six days a week. The Center offers College credit and non-credit courses as well as counseling and full registration services.

A variety of College academic and vocational credit classes is offered each semester. Classes may be taken to satisfy degree or certificate requirements or for general self-improvement. Students can register at the Central Texas College Killeen Mall Center for classes they plan to take at the Mall, Central Campus, Fort Hood Campus, or any other Texas location where courses are conducted.

Non-credit classes are designed to improve an individual's knowledge and basic skills. Many courses are designed with the adult in mind, while others are specifically designed for the younger student. Continuing Education Units (CEU's) are awarded in recognition of satisfactory completion of Adult Vocational Courses or selected Community Service Programs. One CEU is defined as ten contact hours of participation in an organized adult and continuing education experience under responsible sponsorship, capable direction, and qualified instruction. Students who successfully complete these courses are awarded Certificates of Completion.

Other services available at the Killeen Mall Center include Financial Aid and Veteran Services.

CENTRAL TEXAS COLLEGE FORT HOOD CAMPUS

The Fort Hood Campus offers five eight-week evening cycles per year. Twelve-week Saturday classes are also available. All Fort Hood Campus classes are open for active duty personnel and, on a space available basis, to dependents, retirees, and those receiving VA benefits. Veterans should contact the Veterans Services Office at Central Campus prior to enrolling at Fort Hood.

The Fort Hood Campus Student Services Office at Building 2844 has a full-time staff to provide academic counseling to meet the educational needs of the Fort Hood Community. Servicemembers can also register at Fort Hood for courses offered at Main Campus or the Killeen Mall.

CTC - Fort Hood Campus recognizes the unique nature of the military life-style and has committed itself to easing the transfer of credits, providing minimal residency requirements, and awarding credit for appropriate military training and experiences.

SERVICE AREA CAMPUS

Service Area Campus operates satellite offices, strategically located in a seven county area, which provide college credit and/or non-credit courses to the citizens in Central Texas. In addition to the college courses offered to the community, the following services are provided by the Site Coordinators to facilitate the needs of the students: assistance with financial aid, career exploration, occupational and career testing, and other testing services as requested.

Central Texas College personnel are located in each of the Service Area Campus offices located in Brady, Copperas Cove, Gatesville, Hamilton, Lampasas and San Saba.

STUDENT FINANCIAL AID PROGRAMS

Central Texas College participates in numerous financial aid programs designed to assist students who demonstrate financial need. Students who participate in the various programs for financial aid must comply with the rules and regulations of the College, as well as those of the program itself, to retain eligibility for the programs. Federal regulations require financial aid recipients to make satisfactory progress toward their current degree objective. Academic transcripts are monitored and financial aid may be denied when a student falls within the probationary status as defined in the current College catalogue.

Central Texas College participates in the following financial assistance programs:

PELL GRANT: The PELL Grant is authorized by the Higher Education Act Amendments of 1972 to assist students in pursuing their first undergraduate degree. The intent of the PELL Grant is to provide a foundation of financial assistance to supplement the cost of postsecondary education. The amount of the PELL award is based on the actual cost of the student's education while

attending Central Texas College. Applications are available in the Office of Student Financial Aid.

SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (SEOG): This grant, authorized by the Higher Education Act Amendments of 1972, is available only to those students who demonstrate financial need. Grant awards and renewals are made on the basis of demonstrated financial need and satisfactory academic progress. To be considered for the SEOG, a student must complete the Family Financial Statement from the needs analysis services of one of the central processing agencies. This form is available in the Office of Student Financial Aid.

TEXAS PUBLIC EDUCATIONAL GRANT: The TPEG is a State of Texas grant program available to students who are Texas residents and who demonstrate financial need. The student must be enrolled half-time (6 semester hours or more) to be considered for this grant. Application for the TPEG is the Family Financial Statement from the needs analysis services of one of the central processing agencies. This form is available in the Office of Student Financial Aid.

COLLEGE WORK-STUDY PROGRAM: This program provides part-time employment opportunities for students who are in need of employment in order to complete their educational goals. In arranging a job and determining how many hours per week a student may work, the Financial Aid Officer will consider: (1) financial need, (2) class schedule, and (3) student's health and academic progress. To be considered for the CWSP, a student must complete the Family Financial Statement from the needs analysis services of one of the central processing agencies. This form is available in the Office of Student Financial Aid.

PERKINS LOAN PROGRAM: Central Texas College participates in the Perkins Loan Program as authorized by the National Defense Education Act of 1958. Interest rate on the loan is 5% per annum; beginning six months after the date on which the borrower ceases to carry at least 6 semester hours of coursework. The minimum repayment is \$30 per month with a maximum repayment period of ten years. Awards are based on financial need and academic performance. Interested students must complete the Family Financial Statement from the needs analysis services of one of the central processing agencies.

GUARANTEED STUDENT LOAN: An undergraduate student may borrow up to \$2,625 per academic year with an aggregate loan limit of \$14,000. These are loans obtained by the student from a lending agency outside the College such as a bank, savings and loan association, credit union, etc., which are insured by the Federal Government.

The interest rate is 8% per annum simple interest. The Government will pay the interest charge while the student is enrolled at least half-time. Repayment begins six months after graduation.

Interested students should obtain detailed information and application forms directly from lending institutions or the office of Student Financial Aid.

THE CENTRAL TEXAS COLLEGE SCHOLARSHIP FUND: Central Texas College annually awards several two-year \$1,200 scholastic scholarships to qualified high school students who reside within the seven county Central Texas College service area. Information regarding this scholarship program may be obtained from the Office of Student Financial Aid.

SCHOLARSHIPS: Information regarding various scholarship programs available to Central Texas College students may be obtained from the Office of Student Financial Aid.

Inquiries concerning student financial aid should be sent to the Office of Student Financial Aid.

SATISFACTORY PROGRESS

Central Texas College students who are receiving financial aid are required to make adequate progress toward a degree objective in order to remain eligible to receive financial aid.

The following Satisfactory Progress standards are applicable to all students who receive financial aid at Central Texas College:

- a. The maximum time frame for the completion of a degree program is the equivalent of six 12-week and/or 16-week semesters of full-time enrollment. This time frame includes the entire attendance history of a student regardless of whether financial aid was or was not received.
- b. The time frame for students enrolled full-time (enrolled in twelve or more credit hours) shall be no more than six 12-week and/or 16-week semesters of full-time enrollment to complete a degree program.
- c. Three-quarter time students (enrolled in nine to eleven credit hours) shall have eight 12-week and /or 16-week semesters of three-quarter time enrollment to complete a degree program.
- d. Half-time students (enrolled in six to eight credit hours) shall have twelve 12-week and/or 16-week semesters of half-time enrollment to complete a degree program.

Satisfactory Progress can be met with any combination of full-time and/or part-time enrollment, including attendance during summer sessions. Students may refer to their degree plan, college catalogue or see a counselor for further details regarding their specific academic program.

SELECTIVE SERVICE REGISTRATION COMPLIANCE

A recent amendment to the Military Selective Service Act (Pub. L. 97-252) requires that, beginning with 1983-84 award year, any student required to register with Selective Service who fails to do so is ineligible for Title IV student financial aid. Among Title IV financial aid applicants, men (citizens and eligible non-citizens except permanent residents of the Trust Territory of the Pacific Islands and the Northern Mariana Islands) who are at least 18 years old and born after December 21, 1939, and who are not currently on active duty with the armed forces must be registered.

The law specifically requires that, in order to receive Title IV aid, all aid applicants are required to file a Statement of Registration compliance.

VETERAN BENEFITS

Central Texas College's programs are approved for those who wish to attend and receive benefits under the Veterans Readjustment Benefits Act of 1966. Post-Vietnam Era Veterans Educational Assistance Program, the Veterans' Educational Assistance Act of 1984, Chapter 106 - Reservists' Education Bill, Chapter 30, VA Education Bill of 1986, and dependents qualified for VA Educational Benefits.

Students attending with the aid of veteran benefits should inquire at the Office of Veterans Services, prior to registration, to obtain needed information relative to their enrollment and "certification" of attendance to the Veterans Administration. All new students must furnish the Veterans Services Office an original copy of DD 214 or a copy certified by the County Clerk. The veteran must also furnish certified copies of marriage certificates, divorce certificates, and dependents' birth certificates, if applicable.

Students must provide an approved, signed degree plan to the Veterans Services Office prior to certification of their initial semester. Degree plans are available through the Admissions and Counseling Office or through Departmental Advisors. Transfer students should have copies of all previous transcripts for initial counseling sessions. It is the student's responsibility to inform the Office of Veterans Services of any changes in enrollment status. The monthly rates of payment to Veterans are provided for by Public Law 94-502.

Veterans should have military credit evaluated at the close of the first semester or upon the successful completion of 12 semester hours and furnish the Veterans Services Office with a copy of the updated degree plan. Also, any transfer credits from prior education need to be evaluated before the close of the first semester and a copy of updated degree plan furnished to the Veterans Services Office.

*NOTE: Students must advise the Veterans Services Office each semester of courses in which they are enrolled.

MILITARY EDUCATION BENEFITS

Active duty military personnel may wish to attend Central Texas College under the military Tuition Assistance Program, which pays for 75% to 90% of tuition. Information and applications for military Tuition Assistance are available through Military Education Centers or Navy Campus offices.

VOCATIONAL REHABILITATION

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

COLLEGE POLICIES AND REGULATIONS

ACADEMIC POLICY

ACADEMIC LOAD:

Students are responsible for determining the academic load they may successfully complete during each semester.

PSYC 1101: College orientation is required of all beginning students taking 12 semester hours or more and of all transfer students who have not previously satisfied requirements of a similar course.

FULL-TIME: Students registering for 12 or more semester hours during Fall or Spring semesters are considered to be full-time students. Students who register for 8 or more semester hours during the eleven week summer session or 4 or more semester hours during the first or second summer session are considered to be full-time students.

NORMAL LOAD: The normal load for students wishing to complete degree requirements in two academic years is 15 to 18 semester hours per term, depending upon the number of one-semester-hour courses taken.

MAXIMUM LOAD: Except as stipulated in a program of study, no student will be permitted to enroll for six academic courses or for more than 18 semester hours without the approval of the Campus Dean. The maximum load for a six-week session is eight semester hours and the maximum credit that a student can earn during the entire summer session is fourteen semester hours. Students enrolled in an eight week session may take a maximum of nine semester hours. The College reserves the right to limit the course load carried by any student.

MINIMUM LOAD: No minimum load is required.

NOTE: Students attending college with Financial Aid or Veterans Benefits assistance may be required to meet academic course load standards other than those noted above. Details should be obtained from the Student Financial Aid Office or the Veterans Services Office prior to registering for courses.

ATTENDANCE POLICY

ABSENCES AND TARDINESS

Students are required to attend regularly all classes in which they have enrolled. Students are required to be in classrooms on time.

ABSENCES

Absences, for any reason, negatively affect the learning process, the individual student and the class.

When absence from class is necessary, for any reason, the student has the responsibility to arrange to make up assignments missed during the absence.

Students are required to notify instructors in advance of any absence, to retain the privilege of submitting make-up work without grade penalty.

EXCESSIVE ABSENCES

Absences from classes, for any reason, must not exceed College standards. In general, students may be administratively withdrawn from any class with the grade of "F" when their unexcused absences reach a total equal to 12.5% of the class hours for the course. Example: Students attending a 48 hour class during a 16-week period normally meet 90 minutes each session for 32 sessions. Those students accumulating four (4) unexcused absences are subject to Administrative Withdrawal since the total unexcused absences equals 12.5% of class hours for the course.

The following specific rules apply to absences:

- 1. A class meeting of 50 minutes equals 1 absence.
- Beginning the first scheduled day of class meeting, instructors are required to keep attendance records.
- An administrative withdrawal may be initiated when the student fails to meet College attendance requirements. The course will be noted as an "FN" on the roll and record book, with a final grade of "F" on the transcript.
- 4. As a matter of policy, excused absences are not provided for any reason, by college employees other than instructors. Regardless of the reason for the absence, students are responsible for completing all coursework covered during any absence.

ARE YOU OFFICIALLY ENROLLED

CLASS MEMBERSHIP

The only way to become an official member of a class at Central Texas College is by following the established procedures for registering and paying tuition and fees. No person is an official student until all charges have been paid in full. Installment payment of tuition is not permitted. When a student officially withdraws from a course, that person is not entitled to remain in class on an unofficial basis. Only those students who are officially enrolled have the privilege of attending classes.

YOUR CLASSIFICATION IS

FRESHMAN - with thirty semester hours or less recorded on your permanent record.

SOPHOMORE - with thirty-one semester hours or more recorded on your permanent record.

RESIDENT CREDIT

ALL CAMPUSES

A student may earn an Associate Degree entirely through study at campuses outside the State of Texas or in combination with study at the Texas Campuses. At least 12 semester hours must be earned by formal study at Central Texas College, regardless of campus location. Courses offered at all Central Texas College campuses meet the same academic standards and carry the same resident credit.

CREDIT TRANSFERS

TO OTHER COLLEGES AND UNIVERSITIES

Central Texas College is accredited by the Southern Association of Colleges and Schools. Credits earned at Central Texas College are transferable to other institutions in accordance with policies of the receiving institution. Students who plan to transfer to other institutions for degree completion or to pursue a more advanced degree are advised to consult with officials of the receiving school for degree requirements and transfer policy.

CREDIT TRANSFER LIMITS

MAXIMUM HOURS FOR TRANSFER TO OTHER COLLEGES

As a general rule, senior colleges will accept a maximum of sixty-six (66) semester hours of transfer credit from junior colleges. A student should not take more than this number of hours with the objective of transfer of credit unless written permission is secured from the chosen senior college.

HOW TO CHOOSE COURSES

COURSE NUMBERS

The unit of credit for Central Texas College is the semester hour. Course numbers contain four digits. The first digit "1", reading from the left, indicates a freshman level course. If the first digit is a "2", it indicates a sophomore level course. The second digit indicates the semester hour value of the course. The third and fourth digits indicate the generally recommended sequence in which the courses are to be taken.

WHAT TO DO ABOUT COURSE PREREQUISITES

COURSES OUT OF SEQUENCE

Students who, for scheduling reasons, find it desirable to take an advanced course prior to completing the prerequisite must secure approval from the Department Advisor prior to registering for the course. Approval does not release the student from final responsibility for satisfactorily completing all course requirements.

HOW YOU RECEIVE GRADES

GRADE REPORTING

Grades are assigned by faculty members based on attendance, class and laboratory performance,

test scores and other departmental academic requirements. Students are encouraged to become familiar with each instructor's requirements for grades and class syllabus.

Grades are reported by two methods:

- Grade Reports are mailed by the College to the student's address of record at the end
 of each term. This method of reporting grades permits students to judge their
 performance at the end of each term. Students are responsible for notifying the
 appropriate Central Texas College Records Office of change of address.
- Transcripts are provided by the Records Office and are the official report of completed courses, grades, and credit awarded by the College. For information on ordering transcripts, see page 35.

GRADES AND POINT AVERAGE

The grading system at Central Texas College is as follows:

Numerical Value	Grades	Quality Points
90-100	A-Superior	4
80-89	B-Above Average	3
70- <i>7</i> 9	C-Average	2
60-69	D-Passing, but	1
	Unsatisfactory	
	F-Failure	0
	I-Incomplete	0
	N-No Credit	0
	P-Completed	
	W-Withdrawal	

Grade Notes:

"D":

Students receiving a "D" grade in prerequisite courses are advised not to enroll in succeeding courses until they complete prerequisite coursework with at least a "C" grade.

"F":

Failure may be awarded for lack of academic progress and/or failure to attend. "F" grades may not be removed with "W" or "I" grades. Students who elect to repeat a course for which they have received an "F" must re-register, pay full tuition and fees and repeat the entire course.

"I" - INCOMPLETE:

An incomplete grade may be given in those cases where the student has completed the majority of the coursework, but because of personal illness, death in the immediate family, or military orders, the student is unable to complete all the requirements for a course. Notice of absence with supporting documentation may be required by the instructor. Students are requested to notify instructors in advance of absence whenever possible. The instructor makes the final decision concerning the granting of the Incomplete grade.

In awarding the grade of "I", the instructor may set a deadline for completing the remaining course requirements. In no case will the deadline exceed 90 days after the scheduled end of the class. It is the responsibility of the student to arrange with the instructor for the assignment of work necessary to complete the course and change the "I" grade within the time specified. An "I" grade cannot be removed by the grade of "W". If a student elects to repeat the course, the individual must register, pay full tuition and fees and repeat the entire course.

NOTE: In calculating the grade-point average for graduation or other purposes, the "I" grade is calculated as an "F". Students must complete course requirements to remove the "I" within the

period specified.

"N" - NO CREDIT:

The grade of "N" is reserved for use with designated non-traditional, modular courses and will be awarded to students who have made satisfactory progress, but lack the completion of certain modules required for course completion. The grade of "N" indicates that the student must enroll the following semester and complete those modules for a final grade in the course. Reenrollment requires the payment of usual tuition and fees for the course.

"P" - COMPLETED:

The grade of "P" is reserved for use with designated non-traditional, modular courses and will be awarded to students who have satisfactorily mastered all the modular course requirements. When used with credit granting courses, earned credit hours will be displayed on the transcript. Quality points and grade point calculation are not computed.

"W" - WITHDRAWAL:

Students who officially withdraw will be awarded the grade of "W", provided the student's attendance and academic performance are satisfactory at the time of official withdrawal.

GRADE POINT AVERAGING

A student's grade point average is calculated by dividing the total quality points by the total attempted semester hours. Grades of "W", "N", and "P" are not included in these calculations.

GRADES AND FINANCIAL AID

The student attending college with Military Tuition Assistance, Financial Aid, or VA Benefits should be familiar with the requirements and possible obligations incurred, particularly upon receiving a grade of "F", "I", "W" or "N". For additional information, contact the Director of Student Financial Aid or Veterans Services Office.

CHANGE OF GRADES

Students who feel that there has been a computational error in grading must immediately contact the instructor for the course in question. Students must bring this matter to the attention of the instructor involved no later than 90 days after the end of the course in order for a grade change to be considered. Administrative personnel of Central Texas College are not authorized to change an instructor's grade.

REPEATING A COURSE

The total hours earned toward a degree are not increased if a student repeats a course in which a passing grade has already been earned, although both grades remain on the transcript. Through repeating a course, only the last grade earned is utilized in computing the grade point average. Honors designation at graduation considers all grades, including repeated courses. A student who repeats a course should notify the Records Office for recomputation of cumulative grade point average.

ACADEMIC STANDARDS

STUDENT RESPONSIBILITY

Students are expected to be aware of their grade point average. The method of calculation of grade point average is noted above. Students are encouraged to compute their grade point average frequently. Students are responsible for knowing whether or not they are eligible to continue in the College. An ineligible student who nevertheless registers in the College shall be withdrawn and the student shall not receive special consideration for the plea of lack of knowledge of scholastic status. To aid the student, scholastic probation or suspension will be printed on the semester grade report. Students who receive grades below "C" (2.0) for any course should seek academic counseling to determine the causes of unsatisfactory work and receive recommendations for improving grades in subsequent classes.

Students whose scholastic achievement is notable are given recognition by publication of the "Dean's Honor Roll". The Honor Roll includes the names of all students who have earned a grade point average of 3.5 in 12 or more semester hours taken concurrently during the term.

HONOR SOCIETIES

Epsilon Delta Pi: Students who have completed at least 15 semester hours, which includes at least 6 semester hours in computer science, and who meet the scholastic requirements may apply for membership in Epsilon Delta Pi, a national Honor Society in the Computer Sciences. Membership requirements are set forth in detail in the Student Handbook.

Phi Theta Kappa: Students who carry a minimum of 15 semester hours and who meet the scholastic requirements of the local chapter may be eligible for membership in Phi Theta Kappa, National Honor Fraternity of American Junior Colleges.

GRADE REQUIREMENTS

MINIMUM FOR SATISFACTORY PROGRESS

GRADUATION - requires an overall grade point average of 2.0 to include a minimum 2.0 at Central Texas College. Associate Degree Nursing students must have no grades lower than a "C" (70) to receive the Applied Science Degree in Nursing and to be recommended by the Nursing Department Manager for eligibility to apply for the State Board Exam.

SATISFACTORY PROGRESS - Students at Central Texas College must achieve a 2.0 cumulative grade point average to maintain satisfactory progress toward graduation.

IF YOU DON'T MAKE THE GRADE

NOTE: Students who fail to maintain a 2.0 grade point average during their initial seven semester hours of courses will be required to participate in an academic counseling session prior to re-enrollment.

PROBATION will be imposed after the first seven semester hours attempted when the student fails to maintain a 2.0 cumulative grade point average. Probation will be imposed during the next term in which the student registers. Students who do not maintain a "C" or 2.0 grade point average during the probation period will be suspended and cannot register for classes until completion of requirements for return to class, listed below.

Students who fail to achieve a 1.0 grade point average during any term will be placed on probation or suspension dependent upon their cumulative grade point average.

SUSPENSION will be imposed for students who have attempted 8 or more semester hours and who previously failed to maintain a 2.0 cumulative grade point average. Students who fail to achieve a 1.0 grade point average during any term will be placed on suspension if their cumulative grade point average is below 2.0.

A student suspended for the first time may petition the College to re-register. If a student receives a second suspension, the mandatory suspension period is one sixteen week term (Spring or Fall). A third suspension would require the student to remain suspended from the College for two consecutive sixteen week terms (Spring and Fall). See below for procedures for suspended students returning to class.

NOTE: Students who use Financial Aid/VA benefits and who are suspended will be reported to Financial Aid/Veterans Administration and must also meet Financial Aid/VA requirements prior to reinstatement of Financial Aid/VA benefits.

HOW YOU MAY RETURN

RETURN TO CLASS AFTER PROBATION

Students on probation must sign a probation agreement and receive re-entry counseling.

RETURN TO CLASS AFTER SUSPENSION

Students attending Central Texas College who have been suspended may be permitted to reenter the College on an individual petition basis. Students granted immediate re-entry must:

- Complete a re-entry petition agreement and
- Have three counseling sessions with a counselor during their term of petition for re-entry and
- Complete specified studies, which may include remedial developmental courses, as directed by a Guidance Counselor,
- Provide the counseling office with written proof of their current academic status on each visit, or
- 5. Complete a suspension period of one semester (Fall or Spring).

Students who have been suspended once may be readmitted under PETITION and must meet academic standards required while on petition re-entry status. Students suspended more than once must complete the suspension period as stated above prior to petitioning for re-entry.

ARE CLASSROOM VISITS ALLOWED

VISITORS IN CLASS

Permission to visit a class may be granted by the Campus Dean. Such permission carries with it permission to listen and observe, but not to enter into class discussion or laboratory work. Permission to visit is not to be considered auditing on a full-time basis, nor will permission be granted to allow small children in class. Parents must make arrangements for care of their children during class meetings. College policy does not permit a student to audit courses.

REGULATIONS GOVERNING STUDENT ACTIVITIES

STUDENT RESPONSIBILITIES

ADDRESS CHANGE

Students attending Central Texas College must keep current permanent and local mailing addresses on file with the College. Address changes must be reported promptly to the Records Office. Students are responsible for all communication mailed to the last address on file.

FALSIFICATION OF RECORDS

Students who knowingly falsify College records, or who knowingly submit any falsified records to the College, are subject to disciplinary action which may include suspension and/or expulsion from the College.

HAZING, DISRUPTIVE ACTIVITIES

Central Texas College enforces the Texas state laws prohibiting hazing, disruptive activities, or disruption of lawful assemblies on College property. Information regarding these prohibited activities appears in the official Student Handbook, available to regularly enrolled students at orientation sessions or in the office of the Director of Student Services.

SCHOLASTIC HONESTY

All students are required and expected to maintain the highest standards of scholastic honesty in the preparation of all coursework and during examinations. The following will be considered examples of scholastic dishonesty:

- Plagiarism The taking of passages from writings of others without giving proper credit to the sources.
- Collusion (a) using another's work as one's own, or (b) working together with another person
 in the preparation of work, unless such joint preparation is specifically approved in advance
 by the instructor.
- 3. Cheating giving or receiving information on examinations.

Students guilty of scholastic dishonesty will be administratively dropped from the course with a grade of "F" and subject to disciplinary action.

STUDENT DISCIPLINE

PHILOSOPHY

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

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

DUE PROCESS

All Central Texas College students have the right to due process. Further information concerning due process procedures may be found in the current Central Texas College Student Handbook.

DISCIPLINARY ACTION

Disciplinary action may be an oral or written reprimand, disciplinary probation, suspension, or expulsion from the College.

Students on disciplinary probation may not be considered for honors at Central Texas College. The probation status is permanent unless the student has earned the privilege of being released from disciplinary probation.

SUMMONS TO ADMINISTRATIVE OFFICES

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

HOW TO OBTAIN TRANSCRIPTS

TRANSCRIPT ORDERING

A student's records are considered confidential in nature. Convenient forms for ordering transcripts are available from the Records Office.

The first transcript is issued free of charge. Graduates are provided an information transcript free of charge upon graduation. The fee of \$2.00 for all other transcripts must accompany the written request signed by the student.

The transcript of College work is an official copy of the student's permanent record bearing the College seal and official signature. Copies of a student's transcript are available upon written request signed by the student from the transcript office.

Requests for transcripts should be addressed to the Records Office at the Central Campus address listed in the front of this catalogue. Transcript requests should include full name, social security number, date of birth, last month, year, and location of attendance, as well as the complete address to which the transcript is to be sent.

The registrar may deny a student's transcript request if the student has an outstanding obligation to the College. The obligation may be due to a library fine, parking ticket, bad check, non-repayment of Financial Aid or failure to comply with admissions requirements.

NOTE: Records of students attending branch campuses are maintained at branch campus offices until the branch campus Director of Student Services is informed by the student in writing that the student has moved. Academic records are then transferred to the Killeen, Texas, offices.

NOTE: Transcripts may be provided only upon the written request of the student.

OFFICIAL WITHDRAWAL POLICY

Any student who desires to, or must, officially withdraw from a course after the first scheduled class meeting must file an Application for Withdrawal at the Records Office or with a Central Texas College representative at the Military Education Center. The withdrawal form must be signed by the student. Applications for Withdrawal/Refund will be accepted at any time prior to two weeks (Summer Term, one week) before the first day of final examinations. Students attending the Fort Hood eight-week classes may withdraw at any time before the Wednesday prior to the first day of finals. Also see Grade Notes: "W", page 32. The date is published each semester in the Schedule Bulletin.

Students using Financial Aid, Military Tuition Assistance, VA benefits or other than personal funds may be required to repay tuition and fees to the funding agency. For specific repayment requirements, students are referred to the Student Financial Aid Office/Veterans Services Office. Military Tuition Assistance students are referred to the Military Education Center. Students must withdraw in person after receiving FA/VA approval.

Emergency withdrawal will be considered when documentary evidence is presented. See Refunds, Page 11.

CERTIFICATE & DEGREE REQUIREMENTS

WHAT DEGREES ARE OFFERED

Central Texas College confers the Associate in Arts, the Associate in Science, the Associate in Applied Science, or the Associate in General Studies degrees upon students who have successfully completed all the general and specific requirements for graduation. Degrees are conferred three times each year, in December, May and August. It is the student's responsibility to make application for the degree. Each degree candidate must earn a minimum of 12 semester hours in traditional study at Central Texas College. No designation of a program discipline will be written on the face of any Central Texas College degree or certificate.

A person may normally be awarded one degree from Central Texas College. Students wishing to be awarded a second degree must satisfy all requirements for the second degree, including at least 12 additional semester hours of traditional courses in residence at Central Texas College

after degree requirements have been met. This requirement is in addition to those requirements already completed for the award of the first degree. The Associate in General Studies Degree may not be awarded more than once to any student.

WHAT REQUIREMENTS MUST BE MET FOR ASSOCIATE IN ARTS DEGREE

Complete a minimum of 65 semester hours which must include:

- 1. Twelve semester hours of communications to include a, b, and c:
 - a. ENGL 1301 and 1302
 - b. Three semester hours of ENGL 2301, 2302, 2303, 2304, 2305, or 2306
 - c. Three semester hours of speech
- 2. Three semester hours of humanities from art, music, or philosophy.
- Three semester hours of mathematics, MATH 1302 or higher, excluding MATH 1307.
- HIST 1301 and 1302
- GOVT 2301 and 2302
- 6. Eight semester hours of foreign language (1401, 1402 sequence).
- Six semester hours of natural science.
- Four semester hours of physical education from activity courses.
- 9. Four semester hours of computer science.
- 10. PSYC 1101
- 11. A minimum of 18 semester hours of sophomore courses.
- A minimum of 12 semester hours credit earned anywhere within the Central Texas College System.
- 13. Satisfy a, b, and c:
 - a. A minimum overall grade point average of 2.0 ("C" average)
 - b. A minimum of 2.0 ("C") on each course in the major
 - c. A minimum of 2.0 ("C") with Central Texas College
- 14. Meeting all other College and departmental requirements.

ASSOCIATE IN SCIENCE DEGREE

Complete a minimum of 65 semester hours which must include:

- 1. Twelve semester hours of communications to include a, b, and c:
 - a. ENGL 1301 and 1302
 - b. Three semester hours of ENGL 2301, 2302, 2303, 2304, 2305, or 2306
 - c. Three semester hours of speech
- Three semester hours of humanities from art, music, or philosophy.
- 3. HIST 1301 and 1302
- GOVT 2301 and 2302

- Twelve semester hours of laboratory science (1401, 1402 sequence).
- 6. COSC 1403 or MISC 1451 (additional hours of computer science courses are recommended).
- Six semester hours of mathematics, MATH 1302 or higher, excluding MATH 1305, 1306, 1307 and 1309.
- 8. Four semester hours of physical education from activity courses.
- PSYC 1101
- 10. A minimum of 18 semester hours of sophomore courses.
- A minimum of 12 semester hours credit earned anywhere within the Central Texas College System.
- 12. Satisfy a, b, and c:
 - a. A minimum overall grade point average of 2.0 ("C" average)
 - b. A minimum of 2.0 ("C") on each course in the major
 - c. A minimum of 2.0 ("C") with Central Texas College
- 13. Meeting all other College and departmental requirements.

ASSOCIATE IN GENERAL STUDIES DEGREE

Complete a minimum of 65 semester hours, which must include:

- 1. Communications to include either a or b:
 - a. ENGL 1301 and three semester hours of oral communications
 - b. ENGL 1309
- 2. Three semester hours of humanities from art, music or philosophy.
- 3. Three semester hours of mathematics, MATH 1301 or higher, excluding MATH 1307.
- 4. HIST 1301 and 1302
- 5. GOVT 2301 and 2302
- Three semester hours of computer science (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer technology, MISC 1420 or higher or equivalent course.
- 7. Two semester hours of physical education from activity courses.
- PSYC 1101
- 9. A minimum of 18 semester hours of sophomore courses.
- 10. A minimum of 12 semester hours earned anywhere within the Central Texas College System.
- 11. A minimum overall grade point of 2.0 ("C" average), to include a minimum 2.0 ("C" average) on all courses taken with Central Texas College.
- 12. Meeting all other College requirements.

ASSOCIATE IN APPLIED SCIENCE DEGREE

Complete a minimum of 65 semester hours which must include:

- 1. Communications to include either a or b:
 - a. ENGL 1301 and three semester hours of oral communications
 - b. ENGL 1309
- 2. Three semester hours of humanities from art, music or philosophy.
- Three semester hours of mathematics, MATH 1301 or higher, excluding MATH 1307.
- Three semester hours of social or behavioral science.
- Three semester hours of computer science (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer technology, MISC 1420 or higher or equivalent course.
- PSYC 1101
- 7. A minimum of 36 semester hours of technical courses in the major or a closely related field.
- 8. A minimum of 18 semester hours of sophomore courses.
- A minimum of 12 semester hours in the major earned anywhere within the Central Texas College System.
- 10. Satisfy a, b, and c:
 - a. A minimum overall grade point average 2.0 ("C" average)
 - b. A minimum of 2.0 ("C") on each course in the major.
 - c. A minimum of 2.0 ("C") with Central Texas College.
- 11. Meeting all other College and departmental requirements.

CERTIFICATE OF COMPLETION

A Certificate of Completion will be awarded to students who fulfill the curricular requirements of special courses and programs. Minimum residency and GPA as listed for degree programs is required.

TRANSFERABILITY OF COURSES

Students are urged to consult the catalogue of the institution to which he or she may transfer for the detailed information concerning coursework transfer. This catalogue should be used by the student as the basis for course planning. Courses taken in Developmental Studies may not satisfy degree requirements at transferring institutions.

DEVELOPMENTAL STUDIES

The Developmental Studies courses offered by the College are designed to provide means for students to remove specific deficiencies or provide refresher coursework prior to attempting academic or occupational/technical options.

Students on academic suspension may be required to complete Developmental Studies courses to satisfy readmission/probation requirements. DEVELOPMENTAL STUDIES COURSES MAY NOT BE USED TO SATISFY DEGREE REQUIREMENTS AT CENTRAL TEXAS COLLEGE.

WHEN ARE CERTIFICATES & DEGREES AWARDED

Central Texas College awards certificates and degrees in December, May, and August of each year.

HOW TO APPLY FOR CERTIFICATE/DEGREE

Request for Certificate/Degree, with appropriate non-refundable fees, must be submitted to the Counseling Office by:

Fall Semester - December Graduation Spring Semester - May Graduation Summer Semester - August Graduation Deadline October 1st February 1st June 10th

NOTE: All College entrance and course requirements must be complete prior to certificate/degree award. Requests for certificate/degree received from students who have not completed course requirements and who are not enrolled in the remaining courses by the date specified above will not be processed. Official transcripts or GED scores from previously attended institutions must be on file in the Central Texas College Records Office by the above dates, if applicable.

Any student who fails to meet the above listed graduation deadline will be processed in the next degree order time frame. NO STUDENT will be denied a graduation appointment. The graduation date on the certificate/degree must conform with the dates listed above.

REPLACING LOST CERTIFICATE/DEGREE

If your certificate/degree has been lost, stolen, or damaged, a REQUEST FOR REPLACEMENT may be obtained at the Career Guidance Center or from the Dean of Student Services. An appropriate fee is required for the replacement of certificate/degree.

WHEN IS COMMENCEMENT HELD

GRADUATION

Central Texas College holds one consolidated graduation exercise annually, at the end of the Spring Semester. Degrees and certificates will be awarded three times a year for students who are unable to attend the annual graduation exercise.

GRADUATION EXERCISES

All students applying for a degree or certificate which is to be awarded at the end of the Spring Semester are expected to measure for cap and gown and participate in practices for, and in, the actual graduation exercises. Students who do not participate in practice will not be permitted to participate in the graduation exercises.

In cases of extreme hardship, permission may be granted by the Dean of Admission and Counseling to be excused from the graduation ceremony and practices. If the student feels that extreme hardship circumstances exist which will prevent attendance at graduation exercises, a written request to be excused from graduation must be submitted to the Dean of Admission and Counseling. This must be done three weeks prior to the graduation exercise date, and the reasons for not participating in the graduation exercises must be stated. Students not participating in the graduation ceremony will not be recognized as graduating "in absentia". Excused graduates will be mailed their degrees after graduation exercises have been completed.

HONORS

GRADUATION WITH HONORS

Candidates for degrees from Central Texas College may graduate with HIGHEST HONORS or HONORS based upon the following criteria:

 To graduate with HONORS a candidate must have a 3.5 grade point average on a 4.0 scale with no grades below "B" on all course work taken. In computing the candidate's grade point average for HONORS, the grades in all courses taken at Central Texas College, as well as courses transferred from other accredited institutions of higher learning, are included. A repeated course will not clear the graduate for "HONORS"; however, the GPA will reflect only the repeated course in the final GPA.

- In any graduating class the student(s) with the highest grade point average and who meets all other requirements above will be designated as graduating with HIGHEST HONORS.
- 3. Public recognition for graduation with honors or highest honors is conferred only when the student participates in the formal commencement ceremonies.
- To qualify for honors consideration, students must have earned a minimum of 30 semester hours of traditional study with Central Texas College.

PROGRAMS OF STUDY

PROGRAM OFFERINGS

Curriculum plans for various degrees and/or certificates are listed alphabetically. Course descriptions for all courses offered are listed in numerical and alphabetical order. Many of the curricula presented on the following pages have been designed for students who wish to transfer to a senior college or university. The College counselors are available to assist the student in choosing from these suggested curricula or in working out special arrangements to meet particular educational plans.

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

PROGRAM AND COURSE AVAILABILITY

Programs of study displayed in this catalogue are offered when sufficient interest indicates a level of enrollment required for program continuation. Students desiring to enter specific programs of study are advised to seek confirmation of program availability prior to their first registration.

Not all courses are available every semester due to the specialized nature of the course content, equipment requirement and/or facility availability. Students must consult the class schedule published each term for courses offered. The College reserves the right to cancel offered courses when insufficient or low enrollment or other circumstances require this action.

PREREQUISITE COURSES

Students should be familiar with the course descriptions. If the course description indicates a prerequisite, the prerequisite should be met prior to registering for the advanced course.

Example: ENGL 1302 - Composition and Rhetoric II requires that ENGL 1301 - Composition and Rhetoric I be successfully completed prior to registering for ENGL 1302.

Students who cannot schedule prerequisites must obtain prior approval to enroll in these courses from their Department Advisor or Counselor. Failure to obtain approval could result in loss of credit toward degree.

SEMESTER CREDIT HOURS

One semester hour of credit represents 1 hour of lecture class time or usually 2 hours of laboratory class time per week for 16 weeks. Lecture and lab proportions may vary depending on the nature of the course. The relationship of lecture and lab is included, in parentheses, with each course description. For example, (3-0) for a 3 semester hour course means there are 3 lecture

hours per week for one 16 week semester and no lab hours required, (2-4) means there are 2 lecture hours and 4 lab hours per week for the same 16 week semester. This weekly requirement will be adjusted as necessary to compensate for courses with lengths other than 16 weeks.

TECHNICAL ELECTIVES

Technical electives are courses designed to strengthen the major area of the student's program.

APPROVED ELECTIVES

Approved electives are courses which, although not specifically related to the major, are designed to broaden the student's exposure to various disciplines considered supportive of the program's objectives.

SPECIAL ELECTIVES

Many programs of study have Humanities/Fine Arts and Social/Behavorial Science elective courses that can be used to satisfy elective requirements. These electives are listed below.

Humanities/Fine Arts Electives

ANTH 2302 Cultural Anthropology
ART. (All ART. courses except ART. 2305 and ART. 2306, Advertising ART. I & II)
Foreign Language courses
Music courses
Literature courses
Philosophy courses, to include religion

Social/Behavorial Electives

ANTH 2301 Physical Anthropology BUSS 2301 Macroeconomics BUSS 2302 Microeconomics CRIJ 1307 Crime in America Geography courses Government courses History courses Psychology courses Sociology courses

ACCOUNTING TECHNOLOGY

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First S	emes	ter	Credit	Secon	d Sem	ester Cre	dit
ACCT	1301	Financial Accounting	3	ACCT	1302	Managerial Accounting	
BUSS	1301	Introduction to Business	3			& Control	3
MATH	1301	Intermediate Algebra	3	ELCT	*	Approved Elective	3
ENGL	1301	Composition & Rhetoric I	3	MGMT	1305	Introduction to Management	3
COSC	1300	Computer Information		MGMT	1309	Income Tax	3
or		Processing		SPCH	2303	Business & Professional	
MISC	1450	Microcomputers for Busine	ess 3-4			Speaking	3
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1			•	16
		•	17-18				

SECOND YEAR

First S	emest	er	Credit	Secon	d Sen	ester	Credit
ACCT	2309	Fundamentals of		ACCT	2310	Fundamentals of	
		Accounting III	3			Accounting IV	3
MGMT	2305	Business Law I	3	MCMT	2306	Business Law II	3
ACCT	2305	Basics of Managerial		ACCT	**	Accounting Elective	3
		Accounting	3	ENGL	2309	Technical Writing	3
ACCT	2311	Accounting & Financial		ELCT		Social/Behavioral Science	ce
		Information Systems I	3			Elective	3
ELCT		Humanities/Fine Arts Elect	ive 3	PYED		Physical Education	1
PYED		Physical Education	1			•	16
		•	16			TOTAL HOURS	65-66

^{*}Approved Electives BUSS 2301, 2302, FIBA 2306, MGMT 1304, 1306, 1307, 2301, 2302, MATH 1308, OADM 1309, or OADM 2307.

ADMINISTRATIVE SECRETARIAL A Two-Year Associate in Applied Science Degree

FIRST YEAR

First S	emest	er	Credit	Secon	d Sem	ester	Credit
OADM	1301*	Beginning Shorthand	3	WOPO	1304*	Intermediate Information	
WOPO	1303*	Beginning Keyboarding/				Processing Applications	3
		Data Entry	3	OADM	1302	Intermediate Shorthand	3
OADM	1305	Records Management	3	OADM	1306	Office Functions	3
OADM	1309	Business Mathematics and		OADM	1308	Business Correspondence	3
		Calculating Machines	3	WOPO	1307	Word Processing/	
ENGL	1301	Composition & Rhetoric I	3			Transcription	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		•	16			•	16

(Student may apply for Certificate of Completion upon satisfactory completion of courses listed above)

^{**}Accounting Electives: ACCT 2306 and ACCT 2312.

ADMINISTRATIVE SECRETARIAL (cont'd)

SECOND YEAR

First S	emest	er (Credit	Second Semester		nester	Credit
MATH	1301	Intermediate Algebra	3	WOPO	2303	Office Automation	3
WOPO	2302	Advanced Information		OADM	2305	Office Accounting II	3
		Processing Applications	3	OADM	2307	Automated Office	
OADM	2304	Office Accounting I	3			Management	3
ELCT	**	Elective	3	SPCH	***	Speech Selection(s)	3
ELCT	****	Humanities/Fine Arts Electi	ve 3	ELCT	***	Social/Behavioral Science	
ELCT		Sophomore WOPO/MISC				Elective	3
		Elective	3				15
			18				
						TOTAL HOURS	65

^{*}Levels of shorthand and keyboarding will be determined by the student's previous training in these skills and/or by placement tests.

AGRICULTURE A Two-Year Associate in General Studies Degree

FIRST YEAR

First Semester Credit Second Semester		ıester	Credit				
AGRI	1301	Animal Husbandry	3	ELCT	*	Approved Agriculture	
BIOL	1401	General Biology I	4			Elective	3
ENGL	1301	Composition & Rhetoric I	3	ELCT	•	Approved Agriculture	
HIST	1301	History of the U.S. to 1877	3			Elective	3
MATH	1302	College Algebra	3	BIOL	1402	General Biology II	4
PYED		Physical Education	1	ENGL	**	English Selection(s)	3
PSYC	1101	College Orientation	1	HIST	1302	History of the U.S. from 1875	7 3
		· ·	18	PYED		Physical Education	1
						•	17

SECOND YEAR

First S	emesi	ter	Credit	Secon	d Sen	ıester	Credit
AGRI	2301	Entomology	3	ELCT	•	Approved Agriculture Elective	2
CHEM	1401 2301	General Chemistry I State & Federal Governmen	4 4 T 3	CHEM	1402	General Chemistry II	4
SPCH	2303	Business & Professional	11 3	GOVT	2302	State & Federal Governme	nt II 3
		Speaking	3	MISC	1450	Microcomputers for Busin	ess 4
ELCT	•	Approved Elective	3	PYED		Physical Education	1
PYED		Physical Education	1 17	ELCT	*	Sophomore Level Elective	3 18
						TOTAL HOURS	70

^{*}Electives must be approved by the Department Manager. Student should check requirements of the institution to which they intend to transfer. Three hours must be sophomore level.
**ENGL 1302 or equivalent

^{**}Electives or selections approved by Department Manager. Courses may be chosen leading toward general, medical, or legal secretarial programs upon department approval.

^{***}SPCH 1301 or SPCH 2303

^{****}One selection must be sophomore level

AIR CONDITIONING & REFRIGERATION A Two-Year Associate in Applied Science Degree

FIRST YEAR

First S	emesi	ter	Credit	Secon	d Sem	ıester	Credit
INDU	1400	Industrial Fundamentals	4	AIRC	1403	Heating Systems	4
AIRC	1400	Basic Air Conditioning &		AIRC	1406	Electricity for Air Conditio	ning
		Refrigeration Theory	4			& Refrigeration II	4
AIRC	1401	Electricity for Air Condition	ning	AIRC	1407	Mechanical Refrigeration	
		& Refrigeration I	4			Systems	4
MATH	1301	Intermediate Algebra	3	ELCT	•	Computer Science/Microc	om-
PSYC	1101	College Orientation	1			puter Technology Elective	3
		Ü	16	ENGL	1309	Communications Skills	3
							18

SECOND YEAR

First Sem	ester Credit	Secon	d Sen	ıester	Credit
AIRC 24	D Electricity for Air Con-	AIRC	2402	Commercial Refrigeration	4
	ditioning & Refrigeration III 4	AIRC	2403	Commercial Air Condition	ing
AIRC 24	Advanced Air Conditioning &			Systems	4
	Refrigeration Theory 4	AIRC	2405	Heat Pumps	4
AIRC 24		SPCH	2303	Business & Professional	
	ing & Refrigeration Systems 4			Speaking	3
ELCT	Humanities/Fine Arts Elective 3				15
GOVT 23	1 State & Federal Government I				
0				TOTAL HOURS	67
GOVT 23	2 State & Federal Government II 3				
	18				

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

Student may apply for Certificate of Completion upon satisfactory completion of all AIRC and INDU prefix courses.

ANIMAL PRODUCTION A One-Year Certificate of Completion

First Semester		Credit	Secon	Second Semester			
FRMG	1304	Animal Health	3	FRMG	1302	Range Management	3
FRMG	2303	Feeds & Feeding	3	AGRI	1303	Poultry Science	3
FRMG	2307	Livestock Production	3	FRMG	2306	Livestock Marketing	3
AGRI	1301	Animal Husbandry	3	FRMG	2401	Food Preservation	4
AGRI	2301	Entomology	3				13
PSYC	1101	College Orientation	1				
		· ·	16			TOTAL HOUR	ks 29

APPLIED MANAGEMENT

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

First Semester		Credit	dit Second Semester			Credit	
BUSS	1301	Introduction to Business	3	BUSS	1302	Consumer Economics	3
ENGL	•	English Selection(s)	3	ENGL	•	English Selection(s)	3
MATH	**	Mathematics Selection(s)	3	MGMT	****	Management Selection(s)	3
MGMT	1305	Introduction to Managemen	nt 3	SPCH	*	Speech Selection(s)	3
MGMT	1306	Human Relations	3	ELCT	***	Computer Science/Microco	-ומכ
PYED		Physical Education	1			puter Technology Elective	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		J	17			•	16

APPLIED MANAGEMENT (cont'd)

SECOND YEAR

First S	emest	er	Credit	Second	d Sen	nester	Credit
ACCO	2301	Financial Accounting	3	ELCT		Social/Behavioral Science	e
MGMT	2302	Personnel Management	3			Elective	3
MGMT	2309	Supervision	3	MGMT	2303	Law & Legal Assistance	3
ELCT		Humanities/Fine Arts Elec	ctive 3	MGMT	2310	Personnel Counseling	3
MGMT	****	Management Selection(s)	3	MGMT	***	Sophomore Managemen	t
PYED		Physical Education	1			Selection(s)	3
		Ť	16	MGMT	***	Sophomore Managemen	t
						Selection(s)	3
				PYED		Physical Education	1
						,	16
						TOTAL HOURS	65

^{*}English - ENGL 1301, ENGL 1302, ENGL 1309, ENGL 2309; Speech - SPCH 1301, 2303

APPLIED MANAGEMENT WITH TECHNICAL OPTIONS

A Two-Year Associate in Applied Science Degree OPTION 1, FOOD SERVICE OPERATIONS

(Offered only at selected locations)

First S	First Semester		Credit	Second Sem	ester	Credit
FSMG	1302	Nutrition	3	(2)FSMG 1304	Work Organization	3
FSOP	1303	Sanitation & Safety	3	(3)FSOP 1305	Food Purchasing	3
ELCT		Food Preparation Selection	ı	FSOP 1306	Menu Planning	3
		FSMG 1401, 1402 or 2355	3	(4)ELCT	Computer Science/Microc	
ENGL		ENGL 1301 or ENGL 1309	3		puter Technology Elective	
(1)		Mathematics Selection(s)	3	ELCT	FSMG/FSOP/HMMG/AG	CCO
PYED		Physical Education	1		Selection(s)	3
PSYC	1101	College Orientation	1	PYED	Physical Education	1
			17		-	16

^{**}MATH 1301 or higher excluding MATH 1307

^{***} Computer Science selection(excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1450 or higher.

^{****}MGMT 1151, MGMT 1152, MGMT 1153, MGMT 1154, MGMT 1155, MGMT 1156, MGMT 1158,

MGMT 1159, MGMT 1160, MGMT 1201, MGMT 1202, MGMT 1203, MGMT 1204, MGMT 1205, MGMT 1205, MGMT 1206, MGMT 1206,

MGMT 1206, MGMT 1207, MGMT 1208, MGMT 1209, MGMT 1301, MGMT 1302, MGMT 1303, MGMT 1304, MGMT 1307, MGMT 1308, MGMT 1309, MGMT 1309,

MGMT 1304, MGMT 1307, MGMT 1308, MGMT 1309, MGMT 2101, MGMT 2102, MGMT 2151, MGMT 2152, MGMT 2161, MGMT 2162, MGMT 2164, MGMT 2165, MGMT 2201, MGMT 2202,

MGMT 2203, MGMT 2204, MGMT 2205, MGMT 2206, MGMT 2251, MGMT 2253, MGMT 2254,

MGMT 2260, MGMT 2300, MGMT 2301, MGMT 2304, MGMT 2305, MGMT 2306, MGMT 2306, MGMT 2307,

MGMT 2312, MGMT 2314, MGMT 2315, MGMT 2350, MGMT 2351, MGMT 2354, MGMT 2355,

BUSS 2306, COSC 1300, COSC 1307, COSC 1403, COSC 1405, OADM 1308, OADM 2307,

PSYC 2301, REAE 1301, REAE 2304, REAE 2305, or SOCI 2308

OPTION 1. FOOD SERVICE OPERATIONS (cont'd)

SECOND YEAR

First Semest	ter	Credit	Second Se	mester	Credit
(5)FSOP 2303	Cafeteria Management	3	FSMG	Classical Preparation Selec	tion
ELCT	FSMG/FSOP/HMMG			FSMG 2401, 2356, or 2452	3
	Selection	3	PSMG	Exhibition Work Selection	
ELCT	Sophomore Level FSMG/	_		FSMG 2402, 2353 or 2306	3
	FSOP/ACCO/BUSS/		ELCT	MGMT/BUSS Selection(s)	3
	MGMT Selection(s)	3	ELCT	Sophomore Level FSMG/	
ELCT	Humanities/Fine Arts Elec	tive 3		FSOP/ACCO/BUSS/MGN	ΛT
SPCH 2303	Business & Professional			Selection(s)	3
	Speaking	3	ELCT	Social/Behavioral Science	
PYED	Physical Education	1		Elective	3
	•	16	PYED	Physical Education	1
				•	16
				TOTAL HOURS	65

The appropriate FSMG courses will be accepted in place of the FSOP course.

- (1) MATH 1301 or higher excluding MATH 1307.(2) MGMT 1304 may be substituted.
- (3) FSMG 1307 may be substituted.
- (4) Computer Science selection (excluding COSC 1301, COSC 1302, COSC 1307) or microcomputer selection, MISC 1420 or higher.
- (5) FSMG 1250 may be substituted.

Food Service Management Food Service Operations Selections: FSMG 1300, FSMG 1301, FSMG 1307, FSMG

OPTION 2. COMPUTER SCIENCE

(Offered only at selected locations)

First Semester		Credit	Second Semester			Credit	
MGMT	1305	Introduction to Managemen	t 3	MGMT	1301	Organization & Managemen	nt 3
COSC	1403	Introduction to Computer		MGMT	1304	Work Organization	3
		Science & Programming	4	COSC	1406	Computer Organization &	
COSC	1405	Computer Concepts &				Architecture	4
		Analysis	4	COSC	***	Computer Science/Microco	m-
ENGL	1309	Communications Skills	3			puter Technology Elective	4
MATH	•	Mathematics Selection(s)	3	SPCH	1301	Public Speaking	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
PYED		Physical Education	1			,	18
		•	19				

OPTION 2. COMPUTER SCIENCE (cont'd)

SECOND YEAR

First S	emest	er	Credit	Secon	d Sem	nester	Credit
MGMT	2302	Personnel Management	3	MGMT	2312	Fundamentals of Systems	
MGMT	2303	Law & Legal Assistance	3		-	Management	3
COSC	1404**	COBOL Programming	4	COSC	1408	Interactive Programming	4
COSC	2301	Computer Center Manage	ment 3	ACCO	2302	Managerial Accounting &	
ACCO	2301	Financial Accounting	3			Control	3
			16	ELCT		Social/Behavioral Science	
						Elective	3
				ELCT		Humanities/Fine Arts Elec	tive 3
							16
						TOTAL HOURS	69

^{*}MATH 1301, 1305, or 1308

OPTION 3. MICROCOMPUTER TECHNOLOGY

(Offered only at selected locations)

FIRST YEAR

First S	emesi	ter C	redit	Second	d Sem	lester	Credit
MGMT	1305	Introduction to Management	3	MGMT	1301	Organization & Manageme	ent 3
MISC	1420	Word Processing for Micro-		MGMT	1304	Work Organization	3
		computers	4	MISC	1405	Computer Concepts &	
MISC	1450	Microcomputers for Business	4			Analysis	4
ENGL	1309	Communications Skills	3	MISC	1451	Introduction to Microcomp	outer
MATH	*	Mathematics Selection(s)	3			Programming	4
PSYC	1101	College Orientation	1	SPCH	2303	Business & Professional	
PYED		Physical Education	1			Speaking	3
		,	19	PYED		Physical Education	1
						•	18

First S	emest	er	Credit	Secon	d Sem	ıester	Credit
MGMT	2302	Personnel Management	3	MGMT	1306	Human Relations	3
MGMT ACCO MISC	2305 2301 1430	Business Law I Financial Accounting Spreadsheets for Micro-	3 3	ELCT ACCO	2302	Computer Science/Microc puter Technology Elective Managerial Accounting &	3
Mesoc		computers	4			Control	3
MISC	1440	Data Base for Microcompu	iters 4 17	ELCT		Sophomore Level Humani Fine Arts Elective	3
				ELCT		Social/Behavioral Science Elective	3 15
						TOTAL HOURS	69

^{*}MATH 1301, 1302, or 1308

^{**}COSC 2409 may be substituted.

^{***}COSC 1401, 1407, 2404, 2405, 2407, MISC 1450, 1451, 1454, or 2453

^{**}Any MISC or COSC course in which prerequisites are completed

OPTION 4: ELECTRONICS SERVICE

FIRST YEAR

First Semester		Credit	Second Semester			Credit	
CMET	1401	Digital Circuits	4	MGMT	1304	Work Organization	3
ENGL	1309	Communications Skills	3	MGMT	1306	Human Relations	3
MCMT	1305	Introduction to Managemen	t 3	ELTE	1403	Solid State Electronics	4
ELTE	1501	Basic Electricity for Electron		ELTE	1503	Advanced Electricity for	
MATH	1301	Intermediate Algebra	3			Electronics	5
PSYC	1101	College Orientation	1	SPCH	1301	Public Speaking	3
		Ü	19	PYED		Physical Education	1
						•	19

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
MGMT	2309	Supervision	3	MGMT	2305	Business Law I	3
OADM	2304	Bookkeeping I	3	OADM	2305	Bookkeeping II	3
ELTE	1 404	Communications Circuits I	4	ELTE	2407	Communications Circuits	П 4
CMET	1409	CRT Systems	4	ELCT		Humanities/Fine Arts Elec	ctive 3
ELCT	*	Computer Science/Microco	om-	ELCT		Social/Behavioral Science	
		puter Technology Elective	3			Elective	3
			17	PYED		Physical Education	1
						•	17
						TOTAL HOURS	<i>7</i> 2

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

ART A Two-Year Associate in Arts Degree

First S	Semes	ter C	redit	Secon	d Sen	nest er C	redit
ART.		Two courses from ART. 1301,		ART.		Two courses from ART. 1302,	
		1303, 1305, or 1307	6			1304, 1306, or 1308	6
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 1877	3
LANG	1401	Beginning Foreign Language	4	LANG	1402	Foreign Language	4
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1			•	17
		, and the second	18				=

ART (cont'd)

SECOND YEAR

First S	emesi	ter C	redit	Secon	d Sem	ester Cred	it
ART.		One course, sophomore level	3	ART.		One course, sophomore level 3	
ELCT		ENGL 2301, 2302, 2304,		ELCT		SPCH 1301, 2303, 2304, or 2305 3	
		2305 or 2306	3	ELCT		Natural Science Elective 3	
ELCT		Natural Science Elective	3	ELCT	**	Computer Science/Microcom-	
MATH	*	Mathematics Selection(s)	3			puter Technology Elective 4	
GOVT	2301	State & Federal Government I	3	GOVT	2302	State & Federal Government II 3	
PYED		Physical Education	1	PYED		Physical Education 1	
		,	16			17	
						TOTAL HOURS 68	

Students should check the catalogue of the institution to which they plan to transfer for particular art courses. If German is taken the first year, Beginning French or Spanish may be taken the second year. *MATH 1301 or higher excluding MATH 1307.

AUTOMOTIVE BODY REPAIR A Two-Year Associate Degree in Applied Science

FIRST YEAR

First Semester		Credit	Credit Second Semester				
INDU	1400	Industrial Fundamentals	4	ATBR	1408	Roughing & Alignment II	4
ATBR	1403	Roughing & Alignment I	4	ATBR	1409	Auto Body Welding II	4
ATBR	1405	Auto Body Welding I	4	ATBR	1410	Auto Body Painting	
ATBR	1407	Auto Body Fundamentals	4			Fundamentals	4
PSYC	1101	College Orientation	1	ATBR	1411	Automotive Glass	4
		Ü	17	MATH	1301	Intermediate Algebra	3
							19

SECOND YEAR

First S	emesi	ter Credit	Secon	d Sem	iester (Credit
ATBR	2401	Panel Repair & Replacement 4	ATBR	2400	Major Vehicle Damage Repai	ir 4
ATBR	2406	Frame Repair & Alignment 4	ATBR	2404	Advanced Auto Body Paintir	ng 4
AUTO	2405	Steering & Suspension Systems 4	ELCT	٠	Computer Science/Microcom	a-
ENGL	1309	Communications Skills 3			puter Technology Elective	3
GOVT	2301	State & Federal Government I	ELCT		Humanities/Fine Arts Electiv	ve 3
	or		SPCH	2303	Business & Professional	
COVT	2302	State & Federal Government II 3			Speaking	3
		18				17

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

TOTAL HOURS

71

Students may apply for a Certificate of Completion upon satisfactory completion of all ATBR and INDU prefix courses.

^{**}Computer Science selection (excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1420 or higher.

AUTOMOTIVE MECHANIC APPRENTICESHIP PROGRAM

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First Semester		Credit	Secon	d Sen	Credit		
INDU	1400	Industrial Fundamentals	4	AUTO	1402	Basic Electrical & Test	
AUTO	1401	Basic Engines	4			Equipment	4
ENGL	1301	Composition & Rhetoric I	3	AUTO	1407	Brake Systems	4
SPCH	1301	Public Speaking	3	AUTO	1408	Standard Transmissions &	
PSYC	1101	College Orientation	1			Transaxles	4
		B	15	TMTH	1301	Technical Mathematics II	3
							15

Sumn	ssion C	redi	
AUTO	2404	Ignition, Starting & Charging	4
AUTO	2408	Advanced Engine Service	4
AUTO	2410	Fuel Systems & Injection	4
		,	12

SECOND YEAR

First Semester		Credit	Secon	Second Semester			
AUTO	2403	Automatic Transmissions & Transaxle	4	AUTO	2402	Shop Organization & Management	4
AUTO ELCT	2405	Steering & Suspension Syst Computer Science/Microcoputer Technology Elective	- m	AUTO AUTO ELCT	2406 2409	Engine Diagnosis & Emiss Automotive Internship Humanities/Fine Arts Ele-	4
PHYS PSYC	1403 2301	Survey of Physics Introduction to Psychology	4 7 3				15
		_	18			TOTAL HOURS	7 5

^{*}Computer Science selection (excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1420 or higher.

AUTOMOTIVE SERVICE AND REPAIR A Two-Year Associate in Applied Science Degree

First Semester			Credit	Second	i Sem	ester C	redit
INDU AUTO AUTO	1400 1401 1402	Industrial Fundamentals Basic Engines Basic Electrical & Test Equipment	4 4 4	AUTO AUTO AUTO	1405 1407 1408	Automotive Air Conditioning Brake Systems Standard Transmissions &	
MATH PSYC	1301 1101	Intermediate Algebra College Orientation	3 1 16	ENGL ELCT	1309	Transaxles Communications Skills Computer Science/Microcomputer Technology Elective	4 3 - 3 18

AUTOMOTIVE SERVICE AND REPAIR (cont'd)

SECOND YEAR

First S	iemest	er Cre	dit	Secon	d Sem	ester Credit
AUTO	2404	Ignition, Starting & Charging 4		AUTO	2403	Automatic Transmissions &
AUTO	2405	Steering & Suspension Systems 4	l .			Transaxle 4
AUTO	2408	Advanced Engine Service 4	l .	AUTO	2406	Engine Diagnosis & Emission 4
AUTO	2410	Fuel Systems & Injection 4	1	AUTO	2411	Automotive Advanced
COVT	2301	State & Federal Government I				Technology 4
or				ELCT		Humanities/Fine Arts Elective 3
COVT	2302	State & Federal Government II 3	3	SPCH	2303	Business & Professional
		19	•			Speaking 3
						18

*Computer Science selection (excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1420 or higher.

TOTAL HOURS

71

Students may apply for a Certificate of Completion upon satisfactory completion of all AUTO and INDU prefix courses.

AVIATION MAINTENANCE TECHNOLOGY A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Second Semester			Credit	
AVMT	1201	Maintenance Publications-C	2	AVMT	1203	Aircraft Drafting-G	2
AVMT	1202	Weight & Balance-G	2	ΑνΜΓ	1204	Airframe Materials &	
AVMT	1305	Basic Aircraft Electricity-G	3			Corrosion Control-G	2
ENGL	1309	Communications Skills	3	AVMT	1306	Aircraft Finishes-A	3
PHYS	1403	Survey of Physics	4	AVMT	1402	Sheet Metal Structures-A	4
PSYC	1101	College Orientation	1	AVMT	2303	Airframe Inspection-A	3
		Ū	15	MATH	1301	Intermediate Algebra	3
						J	17

Summ	er Se	ssion Cre	dit
AVMT	2304	Aircraft Fuel Systems-A	3
AVMT	2402	Hydraulics & Pneumatics-A	4
		•	7

First S	emes	ter Credit	Secon	d Sen	nester	Credit
AVMT AVMT AVMT	2305 2306 2307 2403	Aircraft Instrument Systems-A 3 Engine Electrical Systems-P 3 Engine Lubrication & Cooling Systems-P 3 Aircraft Electrical Systems-A 4 13	AVMT AVMT AVMT AVMT	2404 2405 2406 2407	Powerplant Maintenance- Reciprocating Engines-P Engine Fuel Systems-P Aircraft Propellers-P Powerplant Maintenance- Turbine Engines-P	4 4 4 4
Sumn ELCT ELCT	ner Se	mester Social/Behavioral Science Elective 3 Humanities/Fine Arts Elective 3			TOTAL HOURS	74

BIOLOGY

A Two-Year Associate in Science Degree

FIRST YEAR

First S	First Semester		Credit	Secon	Second Semester		
BIOL	1401	General Biology I	4	BIOL	1402	General Biology II	4
CHEM	1401	General Chemistry I	4	CHEM	1402	General Chemistry II	4
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 187	73
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
MATH	1302	College Algebra	3	MATH	1303	Trigonometry	3
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1			•	18
		•	19				

SECOND YEAR

First Semester		Credit	Secon	nester	Credit		
BIOL	2401	Invertebrate Zoology	4	BIOL	2402	Vertebrate Zoology	4
GEOL	1401	Physical Geology	4	GEOL	1402	Historical Geology	4
GOVT	2301	State & Federal Governmen	nt I 3	COVT	2302	State & Federal Governme	ent II 3
ENGL	2301	English Literature I	3	SPCH	1301	Public Speaking	3
PYED		Physical Education	1	PYED	*	Physical Education	1
COSC	1403	Introduction to Computer		ELCT		Humanities/Fine Arts Ele	ctive 3
		Science & Programming	4				18
			19				
						TOTAL HOURS	74

Students should check requirements of the institution to which they intend to transfer as requirements may vary.

BUSINESS ADMINISTRATION A Two-Year Associate in Arts Degree

First S	First Semester		Credit	Second	d Sem	ıester	Credit
SCIE		Biology, Chemistry, Physic	s	SCIE		Biology, Chemistry, Physics	3
		or Geology	4			or Geology	4
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 187	73
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
MATH	•	Approved Mathematics		BUSS	1301	Introduction to Business	
		Selection(s)	3	or			
PSYC	2301	Introduction to Psychology	. 3	MGMT	1305	Introduction to Managemen	nt 3
PYED		Physical Education	1	ELCT		Humanities/Fine Arts Elect	
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		•	18			•	17

^{*}Sophomore level

BUSINESS ADMINISTRATION (cont'd)

SECOND YEAR

First S	emest	er	Credit	Secon	ester	Credit	
BUSS	2301	Macroeconomics	3	ACCO	2302	Managerial Accounting &	
ACCO	2301	Financial Accounting	3			Control	3
ACCO	2101	Financial Accounting Lab	1	ACCO	2102	Managerial Accounting &	
ENGL	**	English Selection(s)	3			Control Lab	1
COVT	2301	State & Federal Governme	nt I3	ELCT	****	Computer Science/Microc	om-
ELCT	***	Approved Elective	3			puter Technology Elective	4
PYED		Physical Education	1	GOVT	2302	State & Federal Governme	nt II 3
			17	BUSS	2302	Microeconomics	3
				SPCH		SPCH 1301 or 2303	3
				PYED		Physical Education	1
						•	18
						TOTAL HOURS	70

^{*}Approved Mathematics courses include MATH 1302, MATH 1303, MATH 1304, MATH 1305, MATH 1306, MATH 1306, MATH 1309, MATH 2301, MATH 2302 or MATH 2303. Since senior college math requirements vary widely, it is the student's responsibility to consult with the four-year institution he/she is planning to attend.

BUSINESS MANAGEMENT A Two-Year Associate In Applied Science Degree

FIRST YEAR

First Semester		Credit	Second Semester			Credit	
MGMT	1304	Work Organization	3	BUSS	1301	Introduction to Business	3
MGMT	1305	Introduction to Managemen	nt 3	MATH		MATH 1305 or 1308	3
MGMT	1306	Human Relations	3	OADM		OADM 1309 or other	
ENGL	1301	Composition & Rhetoric I	3			OADM Elective	3
MISC	1450	Microcomputers for Busine	ss 4	SPCH		SPCH 1301 or 2303	3
PYED		Physical Education	1	ELCT		Humanities/Fine Arts Ele	ctive 3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
1510			18			•	16

First S	First Semester			Secone	iester	Credit	
ACCO	2301 and	Financial Accounting	3	ACCO	2302 and	Managerial Accounting & Control	3
ACCO	2101 or	Financial Accounting Lab	1	ACCO	2102 or	Managerial Accounting & Control Lab	1
OADM MGMT MGMT BUSS ELCT	2304 2301 2302 2301	Bookkeeping I Marketing Principles Personnel Management Macroeconomics Approved Elective	3 3 3 3	OADM BUSS MGMT OADM ELCT	2305 2302 2309	Bookkeeping II Microeconomics Supervision OADM 2307 or MGMT 130 Elective	3 3 8 3 3 16
						TOTAL HOURS	66

^{*}Approved Business, Management, Office Administration, Social Science or other related electives must be approved by the Business/Management Departments.

^{**}Approved English courses include ENGL 2301, ENGL 2302, ENGL 2303, ENGL 2304, ENGL 2305, ENGL 2306.

^{***}Approved Business, Management, Office Administration, Social Science or other related electives must be approved by the Business/Management Departments.

^{****}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

CAREER PILOT A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Secon	Credit			
CAPI	1300	Basic Flight	3	CAPI	1302	Propulsion Systems	3
CAPI	1301	Aircraft Science	3	CAPI	1304	Intermediate Flight	3
CAPI	1303	Air Navigation	3	CAPI	1305	Advanced Air Navigation	3
ENGL	1301	Composition & Rhetoric I	3	CAPI	1306	Meteorology	3
MATH	1302	College Algebra	3	SPCH	1301	Public Speaking	3
PSYC	1101	College Orientation	1	ENGL	1302	Composition & Rhetoric II	3
			16			-	18

SECOND YEAR

First S	Semest	ter	Credit	Secon	ıd Sen	iester	Credit
CAPI	2300	Commercial Aviation	3	CAPI	2303	Air Transportation	3
CAPI	2301	Aerodynamics	3	CAPI	2305	Commercial Flight	3
CAPI	2304	Advanced Flight	3	CAPI	2307	Instrument & Ground Scho	ool 3
PHYS	1403	Survey of Physics	4	MISC	1451	Introduction to Microcomp	
ELCT		Humanities/Fine Arts El	ective 3			Programming	4
			16	ELCT		Social/Behavioral Science	
						Elective	3
		Y					16
						TOTAL HOURS	66

CAPI 2310 and CAPI 2311 are substitutes for CAPI 2304 and CAPI 2305 for Rotary Wing Transition students.

CHEMISTRY A Two-Year Associate in Science Degree

FIRST YEAR

First Semester		Credit	Credit Second Semester				
CHEM	1401	General Chemistry I	4	CHEM	1402	General Chemistry II	4
MATH	1303*	Trigonometry	3	MATH	1304	Analytic Geometry	3
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 187	73
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1	COSC	1403	Introduction to Computer	
SPCH	1301	Public Speaking	3			Science & Programming	4
		. 0	18				18

SECOND YEAR

First S	emest	er	Credit	Secon	d Sen	nester	Credit
CHEM	2401	Organic Chemistry I	4	CHEM	2402	Organic Chemistry II	4
MATH	2301	Calculus I	3	PHYS	2402	Modern Physics II	4
GOVT	2301	State & Federal Governmen	nt I 3	GOVT	2302	State & Federal Governm	ent II 3
ENGL	2301	English Literature I	3	ELCT		Humanities/Fine Arts El	ective 3
PHYS	2401	Modern Physics I	4	MATH	2302	Calculus II	3
PYED		Physical Education	1	PYED		Physical Education	1
		Taylor Danielli	18			•	18

*Students deficient in mathematics must take college algebra as a remedial course. This course should be taken during the summer term prior to the freshman year.

Students should check requirements of the institution to which they intend to transfer as requirements may

72

TOTAL HOURS

varv.

CHILD DEVELOPMENT A Two-Year Associate in Applied Science Degree

FIRST YEAR

First S	First Semester		Credit	Secon	d Sem	ester	Credit
CHDV	1301	Introduction to Child		CHDV	1302	Infant & Toddler Care	3
		Development	3	CHDV	1304	Developmental Language	3
CHDV	1303	Learning Programs	3	CHDV	1305	Instructional Aids	3
CHDV	1308	Creative Expression	3	CHDV	1309	Child Guidance & Classroe	om
ENGL	1309	Communications Skills	3			Techniques	3
PSYC	1101	College Orientation	1	MATH	*	Mathematics Selection(s)	3
MISC		MISC 1420 or MISC 1450	4	PYED		Physical Education	1
PYED		Physical Education	1			•	16
		•	18				

Students may apply for a Certificate of Completion upon satisfactory completion of all first year requirements.

SECOND YEAR

First Semester			Credit	Secon	d Sem	ester	Credit	
CHDV	2301	The Exceptional Child	3	CHDV	2302	Parent-Child Relationships	3	
CHDV	2303	Managing Child Care Cente	ers 3	CHDV	2402	Special Projects	4	
CHDV	2401	Learning Theories Seminar		PSYC	2303	Child Growth & Developm	ent 3	
		& Internship	4	ELCT		Elective	3	
SOCI	2301	Introduction to Sociology	3	ELCT		Humanities/Fine Arts Elec	tive 3	
ELCT	**	Approved Elective	3				16	
			16					
						TOTAL HOURS	66	

CHILD DEVELOPMENT SPECIAL CHILD OPTION

A One-Year Certificate of Completion

First S	emes	ter	Credit	Secon	d Sem	ester	Credit
CHDV	1301	Introduction to Child		CHDV	1307	Techniques for Child Guid	lance
		Development	3			for the Special Child	3
CHDV	1304	Developmental Language	3	CHDV	1303	Learning Programs	3
CHDV	1306	Physical Development &		CHDV	1308	Creative Expression	3
		Disorders in Children	3	PSYC	2303	Child Growth & Develops	nent 3
CHDV	2301	The Exceptional Child	3				12
ENGL	*	English Selection(s)	3				
PSYC	1101	College Orientation	1			TOTAL HOURS	28
		•	16				

^{*}ENGL 1301, ENGL 1307 or ENGL 1309.

^{*}MATH 1301 or higher excluding MATH 1307.
**CHDV 1306, CHDV 1307, CHDV 1309, CHDV 2305, BUSS 1301, FSMG 1302, FSMG 1306, MGMT 1305, SOCI 2306, PYED 2302, or other courses approved by the Department Manager.

CHILD DEVELOPMENT ADMINISTRATOR'S CREDENTIALS

A One-Year Certificate of Completion

First S	First Semester		Credit	Second Semester			Credit	
CHDV	1301	Introduction to Child Development	3	PSYC CHDV	2303 2304	Child Growth & Developm Management Techniques for		
CHDV	1303	Learning Programs	3 3	CHDV	2402	Directors Special Projects	3 4	
CHDV	1308 2303	Creative Expression Managing Child Care Cente	_	PYED	2402	Physical Education	1	
PSYC	1101	College Orientation	1	ELCT	٠	Approved Elective	3 14	
ENGL	1309	Communications Skills	3 16					
						TOTAL HOURS	30	

*COSC 1300, MATH 1307, or PYED 2302.

CHILD DEVELOPMENT ASSOCIATE (CDA)

A One-Year Certificate of Completion

First Semes	Credit	Secon	Credit			
CHDV 1301	Introduction to Child		CHDV	1303	Learning Programs	3
	Development	3	CHDA	2402	Special Projects	4
CHDV 2401	Learning Theories Semina					7
	& Internship	4				
		7				
Summer Se		Credit				
CHDV 2101	Child Development Semir	nar [
	TOTAL HOURS	15				

COMMERCIAL ART A Two-Year Associate in General Studies Degree

First Semester		Credit	Secon	d Sen	ester	Credit	
ENGL	1301	Composition & Rhetoric I	3	SPCH		SPCH 1301 or SPCH 1303	3
ART.	1301	Drawing I	3	ART.	1302	Drawing II	3
ART.	1303	Creative Design I	3	ENGR	1301	Engineering Graphics	3
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 187	7 3
ELCT	**	Approved Elective	3	MATH	•	Mathematics Selection(s)	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
PYED		Physical Education	1			•	16
			17				

COMMERCIAL ART (cont'd)

SECOND YEAR

First S	emes	ter	Credit	Secon	d Sen	nester	Credit
ART. ART. GOVT ELCT ELCT	1305 2305 2301	Figure Drawing I Illustration & Design I State & Federal Governmen Elective Sophomore Level Approve	3	ART. GOVT ELCT ELCT	2306 2301	Illustration & Design II State & Federal Governme Computer Science/Microc puter Technology Elective Sophomore Level Art	om-
PYED		Elective Physical Education	3 1 16	ELCT	***	Sophomore Level Approve Elective	ed 3 16
						TOTAL HOURS	65

^{*}MATH 1302 or higher, excluding MATH 1307.
**PHOT 1301 or OPRT 1301 recommended

COMMUNICATIONS ELECTRONICS **TECHNOLOGY**

A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		er C	redit	Second Semester			Credit
CMET	1400*	Electronics & Computer Skills	4	CMET	1403	Computer Systems &	
CMET	1401	Digital Circuits	4			Operational Programming	4
MATH	1301	Intermediate Algebra		MATH	1303	Trigonometry	3
or				ELTE	1402	Electrical Circuits II	4
MATH	1302	College Algebra	3	ELTE	1403	Solid State Electronics	4
ELTE	1401	Electrical Circuits I	4	ELCT		Humanities/Fine Arts Elec	tive 3
ENGL	1309	Communications Skills	3				18
PSYC	1101	College Orientation	1				
			10				

First Semester		Credit	Second Semester			Credit		
	CMET	1409	CRT Systems	4	ELTE	2407	Communications Circuits II	4
	ELTE	1404	Communications Circuits I	4	CMET	2403***	Interfacing Techniques	4
	ELTE	2406	Integrated Devices	4	ELTE	2409	Electronic Systems	
	CMET	2401	Microprocessors &				Trouble-shooting	4
			Microcomputers	4	ELCT	**	Computer Maintenance/	
	ELCT		Social/Behavioral Science				Electronics Selection(s)	4
			Elective	3				16
				19				
							TOTAL HOURS	72

^{*}The Department Manager may substitute ELTE 1303 for CMET 1400.

^{***}ART. 2301, 2302, or 2308 recommended

^{**}Selected course approved by Department Chairman or authorized Central Texas College personnel according to the student need. ELTE 1150, ELTE 1151, ELTE 2250, ELTE 2251, ELTE 2301, ELTE 2402, ELTE 2408, ELTE 2410, ELTE 2411, ELTE 2421, CMET 2407, or CMET 2408.

^{***}If student desires, ELTE 2103 and ELTE 2303 may be substituted.

COMPUTER ELECTRONICS TECHNOLOGY (ROBOTICS OPTION)

A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		ter Cı	redit	Secon	Credit		
CMET	1400	Electronics & Computer Skills	4	CMET	1403	Computer Systems &	
CMET	1401	Digital Circuits	4			Operational Programming	
MATH	1301	Intermediate Algebra		MATH	1303	Trigonometry	3
OF		•		ELTE	1402	Electrical Circuits II	4
MATH	1302	College Algebra	3	ELTE	1403	Solid State Electronics	4
ELTE	1401	Electrical Circuits I	4	ELCT		Humanities/Fine Arts Elec	tive 3
ENGL	1309	Communications Skills	3				18
PSYC	1101	College Orientation	1				
			10				

SECOND YEAR

First Semester			Credit	Secon		Credit	
CMET	1404	Fundamentals of Robotics	4	CMET	2403**	Interfacing Techniques	4
CMET	1409	CRT Systems	4	CMET	2405	Tendon Control &	
CMET	2401	Microprocessors &				Implementation	4
		Microcomputers	4	ELTE	2409	Electronic Systems	
ELTE	2406	Integrated Devices	4			Trouble-shooting	4
ELCT		Social/Behavioral Science		ELCT	*	Approved Technical Electiv	e 4
		Elective	3			••	16
			19				
						TOTAL HOURS	72

^{*}Approved Technical Electives: ELTE 2402, ELTE 2407, CMET 2408 and CMET 2406.

COMPUTER ELECTRONICS TECHNOLOGY A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		ter Cı	redit	Secon	Credit		
CMET	1400	Electronics & Computer Skills	4	CMET	1403	Computer Systems &	
CMET	1401	Digital Circuits	4			Operational Programming	
MATH	1301	Intermediate Algebra		MATH	1303	Trigonometry	3
or		_		ELTE	1402	Electrical Circuits II	4
MATH	1302	College Algebra	3	ELTE	1403	Solid State Electronics	4
ELTE	1401	Electrical Circuits I	4	ELCT		Humanities/Fine Arts Elec	tive 3
ENGL	1309	Communications Skills	3				18
PSYC	1101	College Orientation	1				
		· ·	19				

First Semester			Credit	Secon	d Sem	ester	Credit
CMET	1409	CRT Systems	4	CMET	2403**	Interfacing Techniques	4
CMET	2401	Microprocessors &		CMET	2404	Computer System Diagnosis	3
		Microcomputers	4			& Maintenance	4
CMET	2402	Computer Circuit Analysis	4	ELTE	2409	Electronic Systems	
ELTE	2406	Integrated Devices	4			Trouble-shooting	4
ELCT		Social/Behavioral Science		ELCT	*	Approved Technical Elective	e 4
		Elective	3			••	16
			19				
						TOTAL HOURS	<i>7</i> 2

^{*}Approved Technical Electives: ELTE 2402, ELTE 2411, ELTE 2421, CMET 2407, or CMET 2408.

^{**}If student desires ELTE 2103 and ELTE 2303 may be substituted.

^{**} If student desires, ELTE 2103 and ELTE 2303 may be substituted.

COMPUTER OPERATOR A One-Year Certification of Completion

First Semester			Credit	Secon	d Sem	ester	Credit
COSC	1401	Computer Operations		COSC	1402*	Advanced Operations Lab	4
		& Library Management	4	COSC	1406	Computer Organization	
COSC	1403	Introduction to Computer				& Architecture	4
		Science & Programming	4	COSC	2403	Operating Systems & Job	
COSC	1405	Computer Concepts				Control Language	4
		& Analysis	4	COSC/I	MISC	Programming Elective	4
OADM	1305	Records Management	3				16
ENGL	1309	Communications Skills	3				
PSYC	1101	College Orientation	1			TOTAL HOURS	35
		~	19				

^{*}Computer Science course may be substituted.

COMPUTER SCIENCE BUSINESS PROGRAMMER/ANALYST A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester			Credit	Second Sen	Credit	
COSC	1403	Introduction to Computer Science & Programming	4	COSC 1404 COSC 1406	COBOL Programming Computer Organization	4
COSC	1405	Computer Concepts & Analysis	4	COSC/MISC	& Architecture Technical Elective	4
ENGL	1301	Composition & Rhetoric I	3	MATH *	Mathematics Selection(s)	3
MATH	•	Mathematics Selection(s)	3	ELCT	Social/Behavioral Science	_
PSYC	1101	College Orientation	1		Elective	3
		-	15			18

First Semester		Credit	Secon	Second Semester			
COSC	2403	Operating Systems & Job		COSC	2401	Advanced COBOL	4
		Control Language	4	COSC	2402	Systems in the MIS	
COSC	2404	Assembler Language				Environment	4
		Programming	4	COSC		Sophomore Technical Electi	ve 4
COSC/I	MISC	Technical Elective	4	SPCH	2303	Business & Professional	
ACCO	2301	Financial Accounting	3			Speaking	3
ACCO	2101	Financial Accounting Lab	1	ACCO	2302	Managerial Accounting	
ELCT		Humanities/Fine Arts Elec	ctive 3			& Control	3
		·	19	ACCO	2102	Managerial Accounting &	
						Control Lab	1
							19
						TOTAL HOURS	71

^{*}MATH 1301, 1302, 1304, 1305, 1306, 1308, 2301, 2302, or 2303.

CONSUMER ELECTRONICS TECHNOLOGY A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		er Cı	Credit Second Semester		iester	Credit	
CMET	1400**	Electronics & Computer Skills	4	CMET	1403	Computer Systems &	
CMET	1401	Digital Circuits	4			Operational Programming	4
MATH	1301	Intermediate Algebra		MATH	1303	Trigonometry	3
OF		ū		ELTE	1402	Electrical Circuits II	4
MATH	1302	College Algebra	3	ELTE	1403	Solid State Electronics	4
ELTE	1401	Electrical Circuits I	4	ELCT		Humanities/Fine Arts Elec	ctive 3
ENGL	1309	Communications Skills	3				18
PSYC	1101	College Orientation	1				
		•	19				

SECOND YEAR

First Semester		Credit	Secon	Credit			
CMET	1409	CRT Systems	4	COES	2409	Advanced TV Servicing	4
COES	2408	CATV & Audio Distribution	n	CMET	2403**	* Interfacing Techniques	4
		Systems	4	ELTE	2409	Electronic Systems	
ELTE	2406	Integrated Devices	4			Trouble-shooting	4
CMET	2401	Microprocessors &		ELCT	*	Computer Maintenance/	
		Microcomputers	4			Electronics Selection(s)	4
ELCT		Social/Behavioral Science					16
		Elective	3				-
			19			TOTAL HOURS	72

^{*}Selected course approved by Department Chairman or authorized Central Texas College personnel according to the student need. ELTE 1150, ELTE 1151, ELTE 2250, ELTE 2251, ELTE 2301, ELTE 2402, ELTE 2408, CMET 2407, ELTE 2405, or CMET 2408.

COSMETOLOGY A One-Year Certificate of Completion

First S	First Semester			Secon	iester	Credit	
COSM	1601	Orientation & Introduction to Cosmetology	6	COSM	1603	Hair Coloring & Basic Cosmetology	6
COSM	1602	Basic Cosmetology	6 12	COSM	1604	Hair Styling, Manicuring & Basic Cosmetology	6
Third Semester		Credit				12	
COSM	1605	Facial Treatments and	Citait				
COSIVI	1000	Basic Cosmetology	6				
COSM	1606	Preparation for the State					
		Board & Basic Cosmetology	7 6				
			12			TOTAL HOURS	36

COSMETOLOGY INSTRUCTOR OPTION **Certificate of Completion**

2801	Instructor Orientation Clinic Management Classroom Teaching	3 8 8
	TOTAL HOURS	19

^{**}The Department Manager may substitute ELTE 1303 for CMET 1400.
***If student desires ELTE 2103 and ELTE 2303 may be substituted.

FACIAL SPECIALIST OPTION Certificate of Completion

COSM	1401	Facial Specialist I	4
COSM	1402	Facial Specialist II	4
COSM	1403	Facial Specialist III	4
		TOTAL HOURS	12

MANICURIST OPTION Certificate of Completion

COSM 1501 Manicurist 5 TOTAL HOURS 5

CRIMINAL JUSTICE A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Credit Second Semester			Credit	
CRIJ	1301	Introduction to Criminal		CRIJ	1201	Defensive Tactics	2
•		Justice	3	CRIJ	*	Criminal Justice Selection(s)
CRIJ	1304	The Courts & Criminal		•		(3 courses)	9
		Procedures	3	ENGL	**	English Elective	3
CRIJ	1307	Crime in America	3	ELCT		Criminal Justice Elective	3
CRIJ	1308	Fundamentals of Criminal	Law 3			-	17
ENGL	1301	Composition & Rhetoric I	3				
PSYC	1101	College Orientation	1				
PYED	2108	Physical Conditioning	1				
		,	1 <i>7</i>				

SECOND YEAR

First S	emes	ter	Credit	Secon	d Sem	nester	Credit
CRIJ	2101	Emergency Medical Aid	1	CRII	2201	Firearms	2
CRIJ	2304	Juvenile Procedures	3	PSÝC	2301	Introduction to Psychology	7 3
GOÝT	2301	State & Federal Government	t I	SPCH	2303	Business & Professional	
or						Speaking	3
GOVT	2302	State & Federal Governmen	ŧ II З	ELCT		Humanities/Fine Arts Elec	tive 3
SOCI	2301	Introduction to Sociology	3	ELCT	+	Computer Science/Microco	om-
MATH	***	Approved Mathematics	3			puter Technology Elective	3
PYED		Physical Education	1	ELCT		Elective	3
ELCT		Criminal Justice Elective	3				17
			17				
						TOTAL HOURS	68

*Criminal Justice Selection(s)

Students who plan to major in Law Enforcement may take the first three courses listed and those intending to major in Corrections may take the last two on the list plus one other course from the list. Those who prefer a more general Criminal Justice curriculum may take any three of the five courses listed.

1. CRIJ 1309 Police Systems and Practices

2. CRIJ 1302 Criminal Investigation I

Students planning to complete a baccalaureate degree in Criminal Justice/Law Enforcement should declare a major and develop a degree plan which will meet the transfer requirements of the college of their choice, as soon as it can be determined.

***Three semester hours of computational skills from Mathematics, 1301 level or higher excluding MATH 1307. +Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

^{3.} CRIJ 1303 Legal Aspects of Law Enforcement

^{4.} CRIJ 1306 Correctional Systems and Practices

^{5.} CRIJ 1314 Community Resources in Corrections

^{**}English 1302 or English 2309 (Technical Writing)

DATA CONTROL SPECIALIST A One-Year Certificate of Completion

First S	First Semester			Second Sen	nester	Credit
COSC	1300	Computer Information Processing	3	MISC 1440 MISC 1450	Data Base for Microcompute Microcomputers for Busines	
COSC	1302	Data Entry/Terminal		MGMT 1306 OADM 1305	Human Relations Records Management	3 3
WOPO	1303	Beginning Keyboarding/ Data Entry	3	COSC/MISC*	Technical Elective	4 18
COSC	1401	Computer Operations & Library Management	4		TOTAL HOURS	36
MISC	1420	Word Processing for Microcomputers	4			
ENGL	1309	Communications Skills	3			
PSYC	1101	College Orientation	1 18			

^{*}Computer Science or Microcomputer Technology course for which prerequisites have been completed.

DIESEL MECHANICS A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester			Credit	Secon	Credit		
INDU	1400	Industrial Fundamentals	4	DIEM	1404	Standard Power Trains	4
DIEM	1401	Diesel Engine Fundamental	s 4	DIEM	1406	Diesel Starting & Charging	;
DIEM	1405	Diesel Engine Auxiliary				Systems	4
		Systems	4	AUTO	1407	Brake Systems	4
ELCT	•	Computer Science/Microco	m-	MATH	1301	Intermediate Algebra	3
		puter Technology Elective	3			_	15
ENGL	1309	Communications Skills	3				
PSYC	1101	College Orientation	1				
		J	19				

SECOND YEAR

First Semester		Credit	Credit Second Semester				
DIEM	2400	Hydraulic Systems		DIEM	2403	Diesel Engine Overhaul	4
		Fundamentals & Service	4	DIEM	2404	Automatic Power Trains	4
DIEM	2406	Diesel Fuel Injection System	ns 4	DIEM	2405	Advanced Diesel Engine	
DIEM	2407	Diesel Engine Cylinder				Service	4
		Head Service	4	AUTO	2405	Steering & Suspension Sys	stems 4
SPCH	2303	Business & Professional		GOVT	2301	State & Federal Governme	ent I
		Speaking	3	or			
ELCT		Humanities/Fine Arts Elec	tive 3	COVT	2302	State & Federal Governme	ent II 3
			18				19

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

TOTAL HOURS

71

Students may apply for a Certificate of Completion upon satisfactory completion of all DIEM and INDU prefix courses.

DIESEL MECHANICS APPRENTICESHIP PROGRAM

A Two-Year Associate in Applied Science Degree

(Offered at only selected locations)

FIRST YEAR

First S	emest	er (Credit Second Semester			ester	Credit
DIEM INDU ENGL SPCH PSYC	1401 1400 1301 1301 1101	Diesel Engine Fundamentals Industrial Fundamentals Composition & Rhetoric I Public Speaking College Orientation	4 4 3 3 1 15	DIEM DIEM AUTO ELCT TMTH	1405 1406 1407 1301	Engine Auxiliary Systems Diesel Starting & Charging Systems Brake Systems Humanities/Fine Arts Elec Technical Mathematics II	4 4 ctive 3 3
Summ	er Se	ssion					18
DIEM DIEM	1404 2400	Standard Power Trains Hydraulic Systems Fundamentals & Service	4				
DIEM	2406	Diesel Fuel Injection Systems	3 4 12				

SECOND YEAR

First Semester		Credit	Secon	Credit			
DIEM DIEM	2403 2407	Diesel Engine Overhaul Diesel Engine Cylinder	4	DIEM	2404	Diesel Automatic Power Trains	4
PHYS	1403	Head Service Survey of Physics	4	DIEM	2405	Advanced Diesel Engine Service	4
PSYC	2301	Introduction to Psychology	3 15	DIEM ELCT	2409	Diesel Internship Computer Science/Microco	4 m-
						puter Technology Elective	3 15
						TOTAL HOURS	<i>7</i> 5

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

DRAFTING & DESIGN A Two-Year Associate in Applied Science Degree

First Semester		Credit	Credit Second Semester				
ENGR	1301	Engineering Graphics	3	ENGR	1302	Descriptive Geometry	3
DRDS	1401	Pictorial Drafting	4	DRDS	1403	Machine Drawing	4
DRDS	1402	Technical Illustration	4	DRDS	1404	Structural Drafting	4
MATH	1301	Intermediate Algebra	3	ENGL	1309	Communications Skills	3
PSYC	1101	College Orientation	1	TMTH	1301	Technical Mathematics II	3
1010			15				17

DRAFTING & DESIGN (cont'd)

SECOND YEAR

First Semester		Credit	Secon	d Sen	ıester	Credit	
DRDS DRDS	2401 2402	Pipe Drafting Architectural Drafting	4	DRDS DRDS	2403 2405	Electronic Drafting Civil Design Drafting	4 4
DRDS ELCT ELCT	2410 *	Computer-Aided Drafting Approved Elective Humanities/Fine Arts Elec	3-4	DRDS ELCT	2411	Computer-Aided Drafting Social/Behavioral Science Elective	
						TOTAL HOURS	65-67

^{*}Electives: DRDS 1302, DRDS 1303, DRDS 1400, DRDS 2404, DRDS 2406, MATH 1302, MATH 1303, ART 1301, OPRT 1301, or other elective approved by the Department Manager.

DRDS 1405 may be substituted for ENGR 1301 and DRDS 1406 may be substituted for ENGR 1302.

Continental and International sites may substitute DRDS 2404 for DRDS 2410 and a computer science or microcomputer course for DRDS 2411.

EDUCATION A Two-Year Associate in Arts Degree

FIRST YEAR

First S	emes	ter	Credit	Secon	d Sen	nester	Credit
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 18	377 3
SCIE		Biology, Chemistry, Physic	S	SCIE		Biology, Chemistry, Physic	cs
		or Geology	4			or Geology	4
LANG	1401	Beginning French I, German	n I	LANG	1401	Beginning French II, Germ	an II
		or Spanish I	4			or Spanish II	4
ELCT		Elective	3	SPCH	1301	Public Speaking	3
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1				18
		· ·	19				

SECOND YEAR

First Semester		Credit	Secon	d Sem	ester Credit	
ENGL	2301	English Literature I	3	ENGL	2302	English Literature II 3
COVT	2301	State & Federal Government	tI3	COVT	2302	State & Federal Government II 3
MATH	*	Mathematics Selection(s)	3	ELCT	-	Computer Science/Microcom-
PSYC	2301	Introduction to Psychology	3			puter Technology Elective 3
SOCI	2301	Introduction to Sociology	3	PSYC	2302	Personality Adjustment 3
PYED		Physical Education	1	SOCI	2302	Contemporary Social Problems 3
		_	16	PYED		Physical Education 1
						16

TOTAL HOURS

69

If German is taken the first year, Beginning French or Spanish may be taken the second year.

^{*}MATH 1301 or higher excluding MATH 1307.

^{**}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

ELECTRICIAN/LINEMAN APPRENTICESHIP PROGRAM

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First Semester		Credit	redit Second Semester				
ELTE	1400"	Basic Electricity	4	ELEC	1301	Electrical Codes	3
ENGL	1301	Composition & Rhetoric I	3	ELEC	1401	Low Voltage & Appliance	_
DRD\$	1303	Architectural Blueprint				Circuits	4
		Reading	3	MTNT	1402	Electricity	4
TMTH	1301	Technical Mathematics II	3	SPCH	1301	Public Speaking	3
MGMT	1302	Safety (OSHA)	3	ELEC	1402	Commercial Wiring	4
PSYC	1101	College Orientation	1			3	18
		v	17				
Summer Semester		Credit					
ELTE	1403	Solid State Electronics	4				

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
ELEC	2401	Lineman Fundamentals I	4	ELEC	2402	Lineman Fundamentals II	4
ELEC	2403	Control Circuits	4	ELEC	2408	Lineman Internship	4
ELEC	2404	Single & Three-Phase		ELCT		Humanities/Fine Arts Elec	ctive 3
		Transformers	4	PSYC	2301	Introduction to Psychology	y 3
PHYS	1403	Survey of Physics	4	ELCT	**	Computer Science/Microc	
		, ,	16			puter Technology Elective	
							17

TOTAL HOURS

72

EMERGENCY MEDICAL TECHNICIAN

Certificate of Completion

(Offered at only selected locations)

LEVEL I

First S	emest	er	Credit
EMET	1402	Emergency Medical Technician-Ambulance	
		Technician-Ambulance	
or			
EMET	1403	Emergency Medical	
		Emergency Medical Technician- Recertification	4
ELCT	•	Approved Elective	11
		TOTAL HOURS	15

*EMET 1201, 1302, 1303, 1304, 1305, 2101, 2301, 2302, or 2303. For this certificate, only six hours will be accepted as evaluated credit.

^{*}ELTE 1401 and ELTE 1402 may be substituted.

^{**}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

EMERGENCY MEDICAL TECHNICIAN

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

I.EVEL II

FIRST YEAR

First Semester		Credit	Second Semester			Credit	
EMET	1201	Emergency Medical		MGMT	1306	Human Relations	3
		Technician Supplemental	2	EMET	1302†	†Military Medicine	3
EMET	1402	Emergency Medical		ELCT	††	Computer Science/Microc	om-
		Technician-Ambulance	4			puter Technology Elective	3
ENGL	1301	Composition & Rhetoric I	3	PYED		Physical Education	1
MGMT	1305	Introduction to Managemen	nt 3	ELCT		Humanities/Fine Arts Ele-	ctive 3
MATH	•	Approved Mathematics		ELCT	**	Approved Elective	3
		Selection(s)	3				16
PYED		Physical Education	1				
PSYC	1101	College Orientation	1				
		Ū	17				

Students may apply for a Certificate of Completion upon satisfactory completion of the first year requirements.

SECOND YEAR

First S	First Semester		Credit	Credit Second Semester			
EMET	2101	Introduction to Paramedic	1	EMET	2302	Emergency Medical Center	
EMET	2301	Disaster Planning	3			Management	3
ACCO	2301†	Financial Accounting	3	EMET	2303	Psychology of Emergencies	3
MGMT	2302	Personnel Management	3	ENGL	2309	Technical Writing	3
MGMT	2309	Supervision	3	ACCO	2302†	Managerial Accounting &	
SPCH		SPCH 1301 or SPCH 2303	3			Control	3
			16	ELCT		Social/Behavioral Science	
						Elective	3
				ELCT	**	Approved Elective	3
						••	18
						TOTAL HOURS	67

^{*}MATH 1301, 1302, or 1305

ENGINEERING A Two-Year Associate in Science Degree

First Semester		Credit	edit Second Semester				
ENGR	1301	Engineering Graphics	3	ENGR	1302	Descriptive Geometry	3
MATH	1304	Analytic Geometry	3	MATH	2302	Calculus II	3
MATH	2301	Calculus I	3	ENGL	1302	Composition & Rhetoric II	3
ENGL	1301	Composition & Rhetoric I	3	SCIE	*	Biology, Chemistry, Physics	3
SCIE	8	Biology, Chemistry, Physic	3 5			or Geology	4
		or Geology	4	PYED		Physical Education	1
PYED		Physical Education	1	COSC/I	VISC	CÓSC 1403 or MISC 1451	4
PSYC	1101	College Orientation	1				18
		· ·	18				

^{**}EMET 1303, 1304, 1305, 1403, PSYC 2301, MGMT 1301 or BIOL 1405.

[†]OADM 2304 and 2305 may be substituted

^{††}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

^{†††}Non-Military students may select an EMET elective

ENGINEERING (cont'd)

SECOND YEAR

First S	iemest	er	Credit	Secon	d Sem	ester	Czedit
HIST ENGL GOVT ELCT PHYS PYED	1301 2301* 2301 2401	History of the U.S. to 1877 English Literature I State & Federal Governmen Humanities/Fine Arts Elec Modern Physics I Physical Education		HIST SPCH GOVT PHYS ELCT PYED	1302 2302 2402	History of the U.S. from 18 SPCH 1301 or SPCH 2303 State & Federal Government Modern Physics II Elective Physical Education	77 3
						TOTAL HOURS	<i>7</i> 0

^{*}Students should check the senior college catalogue of the institution to which they plan to transfer for specific science and English requirements. Variations occur with different institutions.

ENGLISHA Two-Year Associate in Arts or in Science Degree

FIRST YEAR

First Semester		Credit	Secon	Second Semester			
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
MATH	1302	College Algebra	3	MATH	1303	Trigonometry	3
LANG	1401*	Beginning French I, Germa	ın I	LANG	1402*	Beginning French II, Germa	n II
		or Spanish I	4			or Spanish II	4
SCIE		Biology, Chemistry, Physic	. S	SCIE		Biology, Chemistry, Physics	;
		or Geology	4			or Geology	4
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 187	73
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1			•	18
		•	10				

First Semester		ет С	redit	Secon	ester	Credit	
ENGL	2301	English Literature I		ENGL	2302	English Literature II	
or		· ·		or		-	
ENGL	2303**	World Literature I	3	ENGL	2304**	World Literature II	3
LANG	2301	Intermediate French I,		LANG	2302	Intermediate French II,	
		German I or Spanish I	3			German II or Spanish II	3
SPCH	1301	Public Speaking	3	MISC	1450	Microcomputers for Busine	ess 4
GOVT	2301	State & Federal Government I	3	GOVT	2302	State & Federal Governmen	nt II 3
ELCT		Humanities/Fine Arts Elective	e 3	ELCT		Elective	3
PYED		Physical Education	1	PYED		Physical Education	1
		,	16			,	17
						TOTAL HOURS	<i>7</i> 0

^{*}Check particular foreign language and science requirements of institution where student wishes to transfer.

**Check sophomore literature requirements at senior institution where student wishes to transfer. Most senior institutions will grant only lower-level credit for these courses, ENGL 2301-2302. Though department majors may elect any pair of courses, in any order, they must take both courses in the pair to fulfill department degree requirements.

EQUIPMENT MAINTENANCE MECHANIC APPRENTICESHIP PROGRAM

A Two-Year Associate in Applied Science

(Offered at only selected locations)

FIRST YEAR

First S	First Semester		Credit	Secon	d Sem	nester	Credit
INDU	1400	Industrial Fundamentals	4	EQMT	1402	Machine Tools	4
EQMT	1401	Fundamentals of Machine	гу 4	MINT	1402	Electricity	4
ENGL	1301	Composition & Rhetoric I	` 3	ELCT	*	Computer Science/Microco	m-
DRDS	1302	Blueprint Reading	3			puter Technology Elective	3
TMTH	1301	Technical Mathematics II	3	WELD	1401	Beginning Gas Welding	4
PSYC	1101	College Orientation	1			• •	15
		v	18				
Sumn	ner Se	ssion C	redit				
EQMT	1403	Maintenance of Valves					
_		& Pumps	4				
EQMT	1404	Maintenance of Galley					
-		Equipment & Fans	4				
MINT	2403	Plumbing I	4				
		-	12				

SECOND YEAR

First Semester		Credit	Secon	Credit			
EQMT	2401	Maintenance of Air		EQMT	2403	Maintenance of Power Plan	nt
EQMT	2402	Compressors Maintenance of Power Plan	4. it	EOMT	2409	Equipment II Equipment Maintenance	4
		Equipment I	4	-		Mechanic Internship	4
PHYS	1403	Survey of Physics	4	ELCT		Humanities/Fine Arts Elec	tive 3
WELD	1402	Beginning Arc Welding	4	PSYC	2301	Introduction to Psychology	7 3
			16	SPCH	1301	Public Speaking	3
							17
						TOTAL HOURS	78

^{*}Computer Science selection (excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1420 or higher.

EQUIPMENT MAINTENANCE ENGINEER OPTION APPRENTICESHIP PROGRAM

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

First Semester		Credit	Secon	d Sen	ıester	Credit	
INDU	1400	Industrial Fundamentals	4	EQMT	1402	Machine Tools	4
EQMT	1401	Fundamentals of Machiner	y 4	MTNT	1402	Electricity	4
ENGL	1301	Composition & Rhetoric I	3	EQMT	1351	Trade Drawing II	3
EQMT	1350	Trade Drawing I	3	APPH	1350	Applied Physics I	3
TMTH	1301	Technical Mathematics II	3	MGMT	1306	Human Relations	3
PSYC	1101	College Orientation	1				17
		•	18				
Summ	ier Se	ssion	Credit				
EOMT	1403	Maintenance of Valves					
-		& Pumps	4				
EQMT	1404	Maintenance of Galley	_				
		Equipment & Fans	4				

EQUIPMENT MAINTENANCE ENGINEER OPTION APPRENTICESHIP PROGRAM (cont'd)

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
EQMT	2401	Maintenance of Air		EQMT	2403	Maintenance of Power Pla	
		Compressors	4	-		Equipment II	4
EQMT	2402	Maintenance of Power Plan	ıt	DRDS	2351	Applied Statics II	3
		Equipment I	4	ELCT		Social/Behavioral Science	9
APPH	1351	Applied Physics II	3			Elective	3
DRDS	2350	Applied Statics I	3	ELCT		Humanities/Fine Arts Ele	ective 3
ELCT	•	Computer Science/Microco	m-	SPCH	1301	Public Speaking	3
		puter Technology Elective	3				16
			17				
						TOTAL HOURS	76

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

FARM AND RANCH MANAGEMENT A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	edit Second Semester				
FRMG	1301	Wildlife Management	3	FRMG	1302	Range Management	3
FRMG	1304	Animal Health	3	FRMG	1303	Soil Science	3
FRMG	1308	Forage & Pasture Crops	3	FRMG	1305	Vegetable Production	3
AGRI	1301	Animal Husbandry	3	AGRI	1303	Poultry Science	3
BIOL	1401**	General Biology I	4	ELCT		Social/Behavioral Science	
PSYC	1101	College Orientation	1			Elective	3
	-	· ·	17				15

First S	First Semester		Credit	Secon	Second Semester			
FRMG	2301	Farm Mechanics I	3	FRMG	2302	Farm Mechanics II	3	
FRMG	2303	Feeds & Feeding	3	FRMG	2306	Livestock Marketing	3	
FRMG	2307	Livestock Production	3	ELCT	*	Approved Elective	3	
AGRI	2301	Entomology	3	AGRI	2302	Horticulture	3	
ENGL	1309	Communications Skills	3	MATH	1308	Elementary Statistics	3	
MISC	1450	Microcomputers for Busines	ss 4	ELCT		Humanities/Fine Arts Ele	ctive 3	
		•	19				18	
						TOTAL HOURS	69	

^{*}Electives must be approved by the Department Manager.
**If the student desires, BIOL 1402 may be substituted.

FARM AND RANCH PRODUCTION A Two-Year Certificate of Completion

FIRST YEAR

First S FRMG FRMG FRMG AGRI PSYC	1301* 1304 1308 1301 1301	er Wildlife Management Animal Health Forage & Pasture Crops Animal Husbandry College Orientation	Credit 3 3 3 3 1	Secon FRMG FRMG FRMG AGRI	d Sem 1302 1303 1305 1303	nester Range Management Soil Science Vegetable Production Poultry Science	Credit 3 3 3 3 12
PSYC	1101	College Orientation	13				12

SECOND YEAR

First Semester		Credit	Secon	Credit			
FRMG FRMG FRMG AGRI	2301 2303 2307 2301	Farm Mechanics I Feeds & Feeding Livestock Production Entomology	3 3 3 3 12	FRMG FRMG FRMG AGRI	2302 2306 2401 2302	Farm Mechanics II Livestock Marketing Food Preservation Horticulture	3 4 3 13
						TOTAL HOURS	50

^{*}AGRI 2303 may be selected in place of FRMG 1301.

FIRE PROTECTION TECHNOLOGY

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First Semester		Credit	Secon	d Sen	nester	Credit	
FPRT	1301	Fundamentals of Fire		FPRT	1302	Fire Prevention	3
		Protection	3	FPRT	1305	Fire Administration II	3
FPRT	1303	Fire Protection Systems	3	FPRT	1308	Fire Service Chemistry II	3
FPRT	1304	Fire Administration I	3	MATH	1301	Intermediate Algebra	3
FPRT	1307	Fire Service Chemistry I	3	SPCH	1301	Public Speaking	3
ENGL	1301	Composition & Rhetoric I	3	PYED		Physical Education	1
PSYC	1101	College Orientation	1			•	16
PYED		Physical Education	1				
		•	17				

First S	emes	ter	Credit	Secon	d Sen	nester	Credit
FPRT	2301	Industrial Fire Protection I	3	FPRT	2302	Industrial Fire Protection II	3
FPRT	2303	Hazardous Material I	3	FPRT	2306	Fire & Arson Investigation	3
FPRT	2305	Building Codes & Constru-	ction 3	FPRT	2404	Fire Fighting Tactics	
ELCT		Humanities/Fine Arts Elec	tive 3			& Strategy	4
GOVT	2301	State & Federal Government	nt I	ELCT	**	Computer Science/Microco	om-
or						puter Technology Elective	3
COVT	2302	State & Federal Government	nt II 3	FPRT	*	Elective	3
ENGL	2309	Technical Writing	3				16
			18				
						TOTAL HOURS	67

^{*}FPRT 2304, FPRT 2308, FPRT 2309, FPRT 2310, FPRT 2314, CHEM 1401, or CHEM 1402 may be substituted for FPRT 1307 and FPRT 1308.

^{**}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

FOOD PRODUCTION A One-Year Certificate of Completion

First S FRMG FRMG FRMG FRMG PSYC	isemes 1303 1304 2303 2307 1101	ter Soil Science Animal Health Feeds & Feeding Livestock Production College Orientation	Credit 3 3 3 3 1 1	Secon FRMG FRMG AGRI AGRI	1305 2401 1302 2302	Nester Vegetable Production Food Preservation Agronomy Horticulture	Credit 3 4 3 3 13
						TOTAL HOURS	26

FOOD SERVICE MANAGEMENT A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Secon	nester	Credit		
FSMG	1302	Nutrition	3	FSMG	1301	Supervising Kitchen	
FSMG	1303	Sanitation & Safety	3			Administration	3
PSMG	1401	Food Preparation & Serving	g 4	FSMG	1305	Food Purchasing	3
	•	MGMT/FSMG Selection(s)	3	FSMG	1306	Menu Planning	3
ENGL	1309	Communications Skills	3	MATH		MATH 1301 or MATH 1308	3
PSYC	1101	College Orientation	1		*	ACCO/FSMG/HMMG/	
		Ü	17			MGMT Selection(s)	3
				SPCH	1301	Public Speaking	3
							10

SECOND YEAR

First Semester		Credit	Second	d Sem	nester	Credit	
FSMG	2304	Hospitality Industry		HMMG	2304	Financial Management	3
		Sales Promotion	3	FSMG	2406	Management Practice II	4
FSMG	2405	Management Practice I	4	ELCT		Humanities/Fine Arts Ele	ctive 3
HMMG	2301	Hospitality Industry Law	3	ELCT		Social/Behavioral Science	
MISC	1450	Microcomputers for Busines	ss 4			Elective	3
	•	Sophomore MGMT/FSMG		ELCT	20	FSMG Selection(s)	3
		ACCO Selection(s)	3				16
			17				
						TOTAL HOURS	68

*Food Service Management Selections:

FSMG 1250, FSMG 1300, FSMG 1304, FSMG 1308, FSMG 2150, FSMG 2151, FSMG 2201, FSMG 2250, FSMG 2251, FSMG 2252, FSMG 2306, FSMG 2353, FSMG 2355, FSMG 2356, FSMG 2401, FSMG 2402, FSMG 2452, or FSMG 2453.

Accounting, Hotel/Motel Management and Management Selections:
ACCO 2301, ACCO 2101, ACCO 2302, ACCO 2102, HMMG 1300, HMMG 1302, HMMG 1303, HMMG 2306, MGMT 1305, MGMT 1308, MGMT 2101, MGMT 2164, MGMT 2302, MGMT 2304, or MGMT 2309.

FOOD SERVICE OPERATION OPTION

A One-Year Certificate of Completion

(Offered only at selected locations)

First Semester		Credit	Secon	ester C	Credit		
PSMG	1302	Nutrition	3	FSMG	1309	Short Order Food Preparation	n 3
PSMG	1303	Sanitation & Safety	3	FSMG	1402	Basic Baking & Pastry	
PSMG	1401	Food Preparation & Serving	z 4			Production	4
MATH	1307	Business Math	3	FSMG	2401	Classical Food Preparation	4
ENGL	1309	Communications Skills	3	ELCT		Elective	3
PSYC	1101	College Orientation	1				14
		0	17				
						TOTAL HOURS	31

FOREIGN LANGUAGE A Two-Year Associate in Arts Degree

FIRST YEAR

First Semest	er	Credit	Secon	d Sen	iester	Credit
ENGL 1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
LANG 1401	Beginning French I, Germa	ın I	HIST	1302	History of the U.S. from 18	77 3
	or Spanish I	4	LANG	1402	Beginning French II, Germa	an II
MATH 1302	College Algebra	3			or Spanish II	4
HIST 1301	History of the U.S. to 1877	3	ELCT		Humanities/Fine Arts Elec	tive 3
SCIE	Biology, Chemistry, Physic	CS .	SCIE		Biology, Chemistry, Physic	S
	or Geology	4			or Geology	4
PYED	Physical Education	1	PYED		Physical Education	1
PSYC 1101	College Orientation	1			•	18
	U	19				

SECOND YEAR

First S	emes	ter	Credit	Secon	d Sen	ester	Credit
ENGL	2301	English Literature I	3	ENGL	2302	English Literature II	3
LANG	2301	Intermediate French I,		LANG	2302	Intermediate French II,	
		German I or Spanish I	3			German II or Spanish II	3
GOVT	2301	State & Federal Governmen	tI 3	GOVT	2302	State & Federal Governme	ent II 3
SPCH	1301	Public Speaking	3	MISC	1450	Microcomputers for Busin	ess 4
LANG	*	Second Language	4	LANG	*	Second Language	4
PYED		Physical Education	1	PYED		Physical Education	1
		•	17			•	18

TOTAL HOURS

72

GENERAL SECRETARIAL A One-Year Certificate of Completion

First S	First Semester		Credit	Credit Second Semester			
OADM	1301*	Beginning Shorthand	3	OADM	1302*	Intermediate Shorthand	3
OADM	1305	Records Management	3	OADM	1306	Office Functions	3
OADM	1309	Business Mathematics &		OADM	1308	Business Correspondence	3
		Calculating Machines	3	WOPO	1304*	Intermediate Information	
WOPO	1303*	Beginning Keyboarding/				Processing Applications	3
		Data Entry	3	WOPO	1307	Word Processing/	
ENGL	1301	Composition & Rhetoric I	3			Transcription	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		· ·	16			•	16
						TOTAL HOURS	32

^{*}Levels of keyboarding and shorthand will be determined by the student's previous training in these skills and/or by placement test.

^{*}Second language requirement varies with senior colleges. Check senior college catalogue carefully. Check senior college catalogue for specific math requirements.

GEOLOGY

A Two-Year Associate in Science Degree FIRST YEAR

First S	First Semester		Credit	Secon	d Sem	ester	Credit
GEOL	1401	Physical Geology	4	GEOL	1402	Historical Geology	4
MATH	1303*	Trigonometry	3	MATH	1304	Analytic Geometry	3
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 187	77 3
CHEM	1401	General Chemistry I	4	CHEM	1402	General Chemistry II	4
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1			•	18
		-	19				

Summer Session

GEOL 2403 Geologic Field Methods

SECOND YEAR

First Semester		Credit	Secon	d Sem	ıester	Credit	
BIOL	2401	Invertebrate Zoology		GEOL	2301	Geomorphology	3
or				GOVT	2302	State & Federal Governme	nt II 3
GEOL	2401	Invertebrate Paleontology	4	MATH	2302	Calculus II	3
GOVT	2301	State & Federal Governmen	tI 3	SPCH	1301	Public Speaking	3
MATH	2301	Calculus I	3	PYED		Physical Education	1
ENGL	2301	English Literature I	3	ELCT		Humanities/Fine Arts Ele	ctive 3
PYED		Physical Education	1				16
COSC	1403	Introduction to Computer					
		Science & Programming	4			TOTAL HOURS	75
		0 0	18				

^{*}Students deficient in mathematics must take College Algebra as a remedial course. This course should be taken during the summer term prior to the freshman year.

Students should check the catalogue of the institution to which they plan to transfer as requirements may vary.

HORSE MANAGEMENT A Two-Year Associate in Applied Science Degree FIRST YEAR

First Semester		Credit	Credit Second Semester				
FRMG	1304	Animal Health	3	FRMG	1307	Intermediate Horsemanship	3
FRMG	1306	Elementary Horsemanship	3	AGRI	1302	Agronomy	3
AGRI	1301	Animal Husbandry	3	ELCT		Social/Behavioral Science	
BIOL	1401**	General Biology I	4			Elective	3
ENGL	1309	Communications Skills	3	MATH	1308	Elementary Statistics	3
PSYC	1101	College Orientation	1	MISC	1450	Microcomputers for Busines	is 4
		U	17			•	16

First Semester		Credit	Secon	d Sen	nester	Credit	
FRMG FRMG FRMG AGRI ELCT	2304 2307 2308 2301	Horse Production Livestock Production Animal Breeding Entomology Humanities/Fine Arts Elec	3 3 3 3 tive 3	FRMG FRMG FRMG FRMG ELCT	1302 2302 2303 2305	Range Management Farm Mechanics II Feeds & Feeding Advanced Equitation Elective	3 3 3 3 15
						TOTAL HOURS	63

^{*}Electives: AGRI 1303, AGRI 2302, AGRI 2303, FRMG 1301, FRMG 1303, FRMG 1305, FRMG 2301, FRMG 2306, FRMG 2401, FRMG 2402, or other course approved by the Department Manager.

^{**}If a student desires, BIOL 1402 may be substituted.

HOTEL- MOTEL MANAGEMENT A Two-Year Associate in Applied Science Degree FIRST YEAR

First S	emes	ter	Credit	Secon	d Sem	nester	Credit
HMMG	1305	Energy Management	3	HMMG	1300	Food & Beverage Managen	nent 3
HMMG		HMMG 1302 or HMMG 130	73	HMMG	1303	Front Office Procedures	3
FSMG	1401	Food Preparation & Serving	4	FSMG	1301	Supervising Kitchen	
ENGL	1301	Composition & Rhetoric I	3			Administration	3
MATH		MATH 1301 or MATH 1308	3	PSMG	1303	Sanitation & Safety	3
PSYC	1101	College Orientation	1	FSMG	1305	Food Purchasing	3
		· ·	17	ELCT	•	Hotel/Motel or Food Servi	ce
						Management Elective	3
						•	18

SECOND YEAR

First Semester	•	Credit	Second	d Sem	ester	Credit
FSMG 2304 H	Hotel/Motel Internship I Hospitality Industry Sales Promotion	4 3	HMMG HMMG HMMG	2301 2304 2402	Hospitality Industry Law Financial Management Hotel/Motel Internship II	3 3 4
MISC 1450 M	Iumanities/Fine Arts Electi Aicrocomputers for Business PCH 1301 or SPCH 2303		ELCT ELCT	•	Hotel/Motel Elective Social/Behavioral Science Elective	3 16
					TOTAL HOURS	68

^{*}HMMG 1306, HMMG 2302, HMMG 2305, HMMG 2306, HMMG 2307, HMMG 2308, FSMG 1300, FSMG 1302, FSMG 1304, FSMG 1306, FSMG 1307, FSMG 1308, FSMG 2303, FSMG 2306, FSMG 2401, FSMG 2402, MGMT 1305, or MGMT 1308.

Students pursuing emphasis in specific areas must take the electives shown below:

Front Office Procedures HMMG 1306

Marketing and Sales Promotion
Food and Beverage Management HMMG 1306 and HMMG 2307
HMMG 2308 Housekeeping HMMG 2302

Engineering and Facility Mgmt HMMG 2305 and HMMG 2302

IMAGE DATA MANAGEMENT A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

First Semester		Credit	Secon	d Sen	nester	Credit	
WOPO	1303	Beginning Keyboarding/		WOPO	1304	Intermediate Information	
		Data Entry	3			Processing Applications	3
ENGL	1301	Composition & Rhetoric I	3	WOPO	1307	Word Processing	
MATH	1301	Intermediate Algebra	3			/Transcription	3
OADM	1305	Records Management	3	SPCH		SPCH 1301 or SPCH 2303	3
MISC	1450	Microcomputer for Business	s 4	MISC	*	Microcomputer Selection	4
PSYC	1101	College Orientation	1	OADM	1308	Business Correspondence	3
PYED		Physical Education	1	PYED		Physical Education	1
		•	18			•	17

IMAGE DATA MANAGEMENT (cont'd) SECOND YEAR

First Semester		Credit	Secon	d Sen	ıester	Credit	
WOPO	2302	Advanced Information		WOPO	2303	Office Automation	3
		Processing Applications	3	WOPO	2310	Word Processing Center	_
WOPO	2308**	Information System				Management	3
		Internship I	3	OADM	2305	Office Accounting II	3
OADM	2304	Office Accounting I	3	OADM	2307	Automated Office	
MISC	*	Microcomputer Selection	4			Management	3
ELCT		Humanities/Fine Arts Elec	tive 3	ELCT		Social/Behavioral Science	
			16			Elective	3
							15
*Anv MI	SC cour	se the student is qualified to	take				
		r course may be substituted.				TOTAL HOURS	66

INFORMATION CENTER SPECIALIST A One-Year Certificate of Completion

First Semester C		redit	Secon	d Sen	nester (Credit	
MISC	1420	Word Processing for	_	MISC	1440	Data Base for Microcompute	
		Microcomputers	4	MISC	1451	Introduction to Microcompu	ter
MISC	1430	Spreadsheets for		3.000.0		Programming	4
		Microcomputers	4	MISC/C		Technical Elective	4
MISC	1450	Microcomputers for Business		MGMT	1305	Introduction to Management	: 3
ENGL	1301	Composition & Rhetoric I	3	SPCH	2303	Business & Professional	_
PSYC	1101	College Orientation	1			Speaking	3
			16				18
						TOTAL HOURS	34

^{*}Computer Science or Microcomputer Technology course for which prerequisites have been completed.

INFORMATION SYSTEMS MANAGEMENT

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First Semester		Credit	Second	ester	Credit		
OADM	1305	Records Management	3	OADM	1306	Office Functions	3
ENGL	1301	Composition & Rhetoric I	3	OADM	1308	Business Correspondence	3
MISC	1430	Spreadsheets for		MISC	1440	Data Base for Microcompu	ters 4
		Microcomputers	4	MATH	1301	Intermediate Algebra	3
MISC	1450	Microcomputers for Busine	ss 4.	PYED		Physical Education	1
ELCT		Humanities/Fine Arts Elect	ive 3	ELCT		Social/Behavioral Science	
PSYC	1101	College Orientation	1			Elective	3
		_	18				17

First Semester		Credit	Secon	Credit			
WOPO	2302	Advanced Information		MISC	2301	Information Center	
		Processing Applications	3			Management	3
MISC	2302	Hardware/Software Selec		MISC	2402	Systems in the MIS	
******		& Acquisition	3			Environment	4
OADM	2304	Office Accounting I	ă	MISC	2454	Data Communications &	
SPCH	2303	Business & Professional	J			Networking	4
01	4000	Speaking	3	WOPO	2303	Office Automation	3
ELCT	*	Elective	3	WOPO	2304	Automated Accounting	3
PYED		Physical Education	1				17
IILL		11.90	16				
						TOTAL HOURS	68

^{*}MISC 1451 or any other MISC course for which prerequisites have been met.

JOURNALISM

A Two-Year Associate in General Studies Degree

FIRST YEAR

First Semester		Credit	Second Semester				
JOUR	1301	Communications Media	3	JOUR	1302	News Gathering & Reporting	3
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
HIST	1301	History of U.S. to 1877	3	HIST	1302	History of U.S. from 1877	3
SPCH	1301	Public Speaking	3	PSYC	2301	Introduction to Psychology	3
PSYC	1101	College Orientation	1	MISC	1450	Microcomputers for Business	4
ELCT		Humanities/Fine Arts Elec	tive 3	PYED		Physical Education	1
PYED		Physical Education	1			,	17
		•	177				

SECOND YEAR

First S	First Semester		Credit	Secon	nester	Credit	
ENGL GOVT BUSS SOCI MATH PYED	2301 2301 2301 2301 2301 1301	English Literature I State & Federal Government Macroeconomics Introduction to Sociology Intermediate Algebra Physical Education	3 tI 3 3 3 3	ENGL GOVT BUSS SOCI ELCT PYED	2302 2302 2302 2302 2302	English Literature II State & Federal Governme Microeconomics Contemporary Social Prot Approved Elective Physical Education	3 ent II 3 3 olems 3 1
			16			TOTAL HOURS	16 66

LAW ENFORCEMENT

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

First Semester		Credit	Secon	d Sen	nester	Credit	
LAWE	1301	Introduction to Criminal		LAWE	1201	Defensive Tactics	2
		Justice	3	LAWE	1302	Criminal Investigation I	3
LAWE	1304	The Courts & Criminal	_	LAWE	1303	Legal Aspects of Law	-
		Procedures	3		1000	Enforcement	2
LAWE	1307	Crime in America	3	LAWE	1309	Police Systems & Practices	3
LAWE	1308	Fundamentals of	_	ENGL	•	English Selection(s)	3
		Criminal Law	3	ELCT		Law Enforcement Elective	3
ENGL	1301	Composition & Rhetoric I	3	DDC:		Law Educatement Edecave	17
PSYC	1101	College Orientation	1				17
PYED	2108	Physical Conditioning	ī				
		,	17				

LAW ENFORCEMENT (cont'd)

SECOND YEAR

First S	First Semester		Credit	Second Semester			Credit
LAWE	2101	Emergency Medical Aid	1	LAWE	2201	Firearms	2
LAWE	2304	Juvenile Procedures	3	PSYC	2301	Introduction to Psychology	3
GOVT	2301	State & Federal Government	I	SPCH	2303	Business & Professional	
or						Speaking	3
GOVT	2302	State & Federal Government	II 3	ELCT		Humanities/Fine Arts Elect	ive 3
SOCI	2301	Introduction to Sociology	3	ELCT		Law Enforcement Elective	3
MATH	**	Approved Mathematics		ELCT	+	Computer Science/Microco	m-
		Selection(s)	3			puter Technology Elective	3
PYED		Physical Education	1				17
ELCT		Law Enforcement Elective	3				
			17			TOTAL HOURS	68

Law Enforcement Options:

Students majoring in corrections may substitute LAWE 1306 and LAWE 1314 for any two of the following courses: LAWE 1309, LAWE 1302 or LAWE 1303.

Electives: Courses listed above not used in curriculum or LAWE 1305, LAWE 1310, LAWE 2301, LAWE 2303, LAWE 2306, LAWE 2307, LAWE 2308, LAWE 2309, or LAWE 2310.

*English 1302 or English 2309 (Technical Writing).

Students planning to complete a baccalaureate degree in Criminal Justice/Law Enforcement should declare a major and develop a degree plan which will meet the transfer requirements of the college of their choice, as soon as it can be determined.

**Three semester hours of computational skills from Mathematics, 1301 level or higher, excluding MATH 1307. +Computer Science selection (excluding COSC 1301, COSC 1302, or COSC 1307) or microcomputer selection, MISC 1420 or higher.

EMET 1402 may be taken in place of a LAWE elective.

LEGAL ASSISTANT A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		er C	redit	dit Second Semester		iester	Credit
LEGA	1301	Introduction to Legal Assistan	t 3	LEGA	1306	Criminal Law	3
LEGA	1304	Principles of Family Law	3	LEGA	1307	Civil Litigation	3
LEGA	1402	Legal Office Ethics &		MATH	1301	Intermediate Algebra	3
		Management	4	MISC	1420	Word Processing for	
ENGL	1301	Composition & Rhetoric I	3			Microcomputers	4
GOVT	2301	State & Federal Government I	3	ENGL	1302	Composition & Rhetoric II	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
PYED		Physical Education	1			•	17
		*	7 S				

First S	emest	ter	Credit	Secon	d Sen	nester	Credit
LEGA	2302	Contract Law	3	LEGA	2405	Wills, Trust & Probate	4
LEGA	2306	Techniques of Legal Research	∆h 3	LEGA	*	Approved Elective	3
LEGA	**	Approved Elective	3	LEGA	*	Approved Elective	3
ACCO	2301	Financial Accounting	3	SPCH		SPCH 1301 or SPCH 2303	3
ACCO	2101	Financial Accounting Lab	1	ELCT		Humanities/Fine Arts Ele	ctive 3
COVT	2302	State & Federal Governmen	t II 3				16
-			16				
						TOTAL HOURS	67

^{*}LEGA 1305, LEGA 1308, LEGA 2301, LEGA 2303, LEGA 2402, or LEGA 2404.

MAINTENANCE TECHNOLOGY A Two-Year Associate in Applied Science Degree FIRST YEAR

First Semester		Credit	redit Second Semester				
AIRC	1400	Basic Air Conditioning &		AIRC	1403	Heating Systems	4
		Refrigeration Theory	4	MTNT	1402	Electricity	4
INDU	1400	Industrial Fundamentals	4	ENGL	1309	Communications Skills	3
MTNT	1401	Carpentry I	4	WELD	1401	Beginning Gas Welding	4
MATH	1301	Intermediate Algebra	3	ELCT		Humanities/Fine Arts Ele	ective 3
PSYC	1101	College Orientation	1				18
		· ·	16				

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
MTNT	2402	Carpentry II	4	MTNT	2404	Painting & Refinishing	4
MINT	2403	Plumbing I	4	MINT	2410	Plumbing II	4
AIRC	1407	Mechanical Refrigeration		DRDS	1303	Architectural Blueprint	
		Systems	4			Reading	3
ELCT	•	Computer Science/Microco	m-	WELD	1402	Beginning Arc Welding	4
		puter Technology Elective	3	SPCH	2303	Business & Professional	
GOVT	2301	State & Federal Governmer	ıt I			Speaking	3
or							18
GOVT	2302	State & Federal Governmer	t II 3				
			18			TOTAL HOURS	<i>7</i> 0

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

Students may apply for a Certificate of Completion upon satisfactory completion of all MTNT and INDU prefix courses.

MATHEMATICS A Two-Year Associate in Arts or Science Degree FIRST YEAR

First Semester		Credit	Credit Second Semester		ıester	Credit	
MATH	1302	College Algebra	3	MATH	1304	Analytic Geometry	3
MATH	1303	Trigonometry	3	ELCT	*	Science or Language	
ELCT	*	Science or Language				Elective Selected from	
		Elective Selected from				1401-1402 sequence	4
		1401-1402 sequence	4	COSC	1403	Introduction to Computer	
ENGL	1301	Composition & Rhetoric I	3			Science & Programming	4
HIST	1301	History of the U.S. to 1877	3	ENGL	1302	Composition & Rhetoric II	3
PYED		Physical Education	1	HIST	1302	History of U.S. from 1877	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		· ·	18			•	18

SECOND YEAR

First Semester			Credit	Second Semester			Credit
MATH	2301	Calculus I	3	MATH	2302	Calculus II	3
ENGL	2301	English Literature I	3	SPCH		SPCH 1301 or 2303	3
GOVT	2301	State & Federal Governme	ent I 3	GOVT	2302	State & Federal Governm	ient II 3
SCIE	•	Science Elective	3-4	SCIE	*	Science Elective	3-4
ELCT		Humanities/Fine Arts Ele	ective 3	ELCT		Elective	3
PYED		Physical Education	1	PYED		Physical Education	1
		·	16-17			•	16-17
						TOTAL HOURS	48.70

This curriculum is recommended for students pursuing either an Associate in Arts degree or an Associate of Science degree from Central Texas College. Freshman with adequate background may enroll in MATH 2301 (Calculus I) during the Fall semester with the permission of the Manager of the Mathematics Department. Students should consult the catalogue of the institution to which they plan to transfer for required or recommended courses.

^{*}Choice of elective determines the degree.

MEDICAL LABORATORY TECHNICIAN

A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Credit Second Semester				
MELT	1601	Introduction to ML		MELT	1402	Hematology	4
		Techniques	6	BIOL	1406	Human Physiology	4
BIOL	1405	Human Anatomy	4	CHEM	1402	General Chemistry II	4
CHEM	1401	General Chemistry I	4	ELCT	*	Computer Science/Microco	om-
MATH	1302	College Algebra	3			puter Technology Elective	3
PSYC	1101	College Orientation	1				15
		J	18				
Summ	er Se	mester					
MELT	2502	Clinical Practice I	5				

SECOND YEAR

First Semester		Credit	Credit Second Semester				
MELT	2401	Clinical Practice II	4	MELT	2404	Medical Microbiology II	4
MELT	2402	Medical Microbiology I	4	MELT	2405	Clinical Chemistry	4
MELT	2403	Immunology/		MELT	2406	Clinical Practice III	4
		Immunohematology	4	ELCT		Humanities/Fine Arts Ele	ctive 3
ENGL	1309	Communications Skills	3				15
ELCT	**	Elective	3				
			18			TOTAL HOURS	71

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

MEDICAL TECHNOLOGY

A Two-Year Associate in General Studies Degree

FIRST YEAR

First Semester		Credit	Credit Second Semester				
BIOL	1405	Human Anatomy	4	BIOL	1406	Human Physiology	4
CHEM	1401	General Chemistry I	4	CHEM	1402	General Chemistry II	4
ENGL	1301	Composition & Rhetoric I	3	ELCT	*	Computer Science/Microco	m-
MATH	1301	Intermediate Algebra	3			puter Technology Elective	3
HIST	1301	History of the U.S. to 1877	3	MATH	1303	Trigonometry	3
PYED		Physical Education	1	HIST	1302	History of the U.S. from 18	77 3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		-	19			•	18

SECOND YEAR

First S	emes	ter (Credit	Secon	d Sen	nester	Credit
BIOL	2401	Invertebrate Zoology	4	BIOL	2303	Genetics	3
BIOL	2404	Microbiology	4	CHEM	2402	Organic Chemistry II	4
CHEM	2401	Organic Chemistry I	4	ELCT		Humanities/Fine Arts Ele	ctive 3
PHYS	1401	College Physics I	4	GOVT	2302	State & Federal Governme	ent II 3
COVT	2301	State & Federal Government	1 3	PHYS	1402	College Physics II	4
			19			• ,	17
						TOTAL HOURS	73

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

Students should check requirements of the institution to which they intend to transfer as requirements may vary.

^{**}PSYC 2301 - Introduction to Psychology or SOCI 2301 - Introduction to Sociology.

MICROCOMPUTER TECHNOLOGY INFORMATION MANAGEMENT OPTION

A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		redit	Secon	d Sen	nester Credit	
MISC	1420	Word Processing for		MISC	1440	Data Base for Microcomputers 4
		Microcomputers	4	MISC	1451	Introduction to
MISC	1430	Spreadsheets for				Microcomputer Programming 4
		Microcomputers	4	MATH	*	Mathematics Selection(s) 3
MISC	1450	Microcomputers for Business	4	MGMT	1305	Introduction to Management 3
ENGL	1301	Composition & Rhetoric I	3	ELCT		Humanities/Fine Arts Elective 3
PSYC	1101	College Orientation	1			17
		· ·	16			

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
MISC	2302	Hardware/Software		MISC	2301	Information Center	
		Selection & Acquisition	3			Management	3
MISC	2451	Operating Systems	4	MISC	2402	Systems In The MIS	
ACCO	2301	Financial Accounting	3			Environment	4
ACCO	2101	Financial Accounting Lab	1	MISC	2454	Data Communications	
ELCT		Social/Behavioral Science				& Networking	4
		Elective	3	MISC/0	COSC	Technical Elective	4
			14	SPCH	2303	Business & Professional	
						Speaking	3
							18
						TOTAL HOURS	65

^{*}MATH 1301, 1302, 1304, 1305, 1306, 1308, 2301, 2302, or 2303.

PROGRAMMER/ANALYST

A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Secon	Credit			
MISC	1405	Computer Concepts		MISC	1404	COBOL Programming	4
		& Analysis	4	MISC	1406	Computer Organization	
MISC	1451	Introduction to Microcomy	outer			& Architecture	4
		Programming	4	MISC	1454	PASCAL Programming	4
ENGL	1301	Composition & Rhetoric I	3	MATH	•	Mathematics Selection(s)	3
MATH	*	Mathematics Selection(s)	3	ELCT		Social/Behavioral Science	
PSYC	1101	College Orientation	1			Elective	3
		-	15				18

MICROCOMPUTER TECHNOLOGY PROGRAMMER/ANALYST (cont'd)

SECOND YEAR

First S	First Semester		Credit	Secon	Credit		
MISC	2302	Hardware/Software Selection & Acquisition	3	MISC	2402	Systems In The MIS Environment	4
MISC MISC	2451 2453	Operating Systems Advanced BASIC	4	MISC	2454	Data Communications & Networking	4
Programming MISC/COSC Technical Elective		4	MISC ELCT	2303	Sophomore Technical Ele Humanities/Fine Arts El		
ACCO/	BUSS**	Elective	3 18	SPCH	2303	Business & Professional Speaking	3 18
						TOTAL HOURS	69

^{*}MATH 1301, 1302, 1304, 1305, 1306, 1308, 2301, 2302, or 2303.

MID-MANAGEMENT A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		redit	Second Semester			Credit
MISC 1450	Microcomputers for Business	4	ELCT		Humanities/Fine Arts Elect	
MGMT 1306	Human Relations	3	MDMG	1402	Mid-Management Internshi	ip II 4
MDMG 1401	Mid-Management Internship I	4	MGMT	2302	Personnel Management	3
BUSS/MGMT	BUSS 1301 or MGMT 1305	3	MATH	٠	Mathematics Selection(s)	3
ENGL 1301	Composition & Rhetoric I	3	ELCT	**	Approved Elective	3
PYED	Physical Education	1	PYED		Physical Education	1
PSYC 1101	College Orientation	1				17
	J	19				

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
MDMG	2401	Mid-Management		MGMT	2301	Marketing Principles	3
		Internship III	4	MDMG	2402	Mid-Management	
ELCT	**	Approved Elective	3			Internship IV	4
ACCO	2301	Financial Accounting	3	ACCO	2302	Managerial Accounting	
ACCO	2101	Financial Accounting Lab	1			& Control	3
ECON		BUSS 2301 or BUSS 2302	3	ACCO	2102	Managerial Accounting	
SPCH		SPCH 1301 or SPCH 2303	3			& Control Lab	1
			17	LAW RI	LATEL	⊃ t	3
				ELCT	**	Approved Elective	3
							17

^{*}MATH 1301 or higher excluding MATH 1307.

TOTAL HOURS

70

^{**}ACCO 2301, 2302, BUSS 1301, 2301, or 2302.

^{**}A business management, mid-management, real estate, or microcomputer technology course approved by the Department Manager. †MGMT 2305, MGMT 2306, or REAE 2305.

MID-MANAGEMENT FINANCE AND BANKING

A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Credit Second Semester				
FIBA	1301	Banking Principles	3	FIBA	1302	Money & Banking	3
FIBA	1401	Finance & Banking		FIBA	1402	Finance & Banking	
		Internship I	4			Internship II	4
BUSS	1301	Introduction to Business	3	MATH	*	Mathematics Selection(s)	3
ENGL	1301	Composition & Rhetoric I	3	MISC	1450	Microcomputers for Busines	s 4
MGMT	1306	Human Relations	3	SPCH		SPCH 130i or SPCH 2303	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
PYED		Physical Education	1			•	18
		•	18				

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
FIBA	2401	Finance & Banking		FIBA	2402	Finance & Banking	
		Internship III	4			Internship IV	4
FIBA	**	Finance & Banking Elective	. 3	FIBA	**	Finance & Banking Elective	3
BUSS	2301	Macroeconomics	3	BUSS	2302	Microeconomics	3
ACCO	2301	Financial Accounting	3	ACCO	2302	Managerial Accounting	
ACCO	2101	Financial Accounting Lab	1			& Control	3
ELCT		Elective	3	ACCO	2102	Managerial Accounting	
			17			& Control Lab	1
				ELCT		Humanities/Fine Arts Elec	tive 3
							17

TOTAL HOURS

70

Management and Business electives must be approved by the Department Manager or other authorized College personnel.

MUSIC A Two-Year Associate in General Studies

FIRST YEAR

First Semester		Credit	Credit Second Semester			Credit	
ENGL	1301	Composition & Rhetoric I	3	SPCH	1301	Public Speaking	3
MATH	1301	Intermediate Algebra	3	HIST	1302	History of the U.S. from 1	1877 3
HIST	1301	History of the U.S. to 1877	3	MUSI	1102	Class Piano II	
MUSI	1101	Class Piano I		or			
or				MUSI	1202	Private Piano II	1-2
MUSI	1201	Private Piano I	1-2	MUSI	1206	Ear Training II	2
MUSI	1205	Ear Training I	2	MUSI	1302	Music Theory	3
MUSI	1301	Music Fundamentals	3	MUSI	1305	Music Appreciation	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		· ·	16-17			,	16-17

TOTALLO

^{*}MATH 1301 or higher, excluding MATH 1307.

^{**}Approved FIBA electives: FIBA 1303, FIBA 1304, FIBA 2301, FIBA 2302, FIBA 2303, FIBA 2304, FIBA 2305, FIBA 2306, and REAE 2304.

MUSIC (cont'd)

SECOND YEAR

First Semester		Credit	Secon	Credit			
GOVT	2301	State & Federal Governme	nt I3	GOVT	2302	State & Federal Governm	ent II 3
ELCT		Computer Science/Microcounter Technology Elective		MUSI or	1202	Private Piano II	
MUSI	1201	Private Piano I	3	MUSI	2202	Private Piano IV	
or				or			
MUSI	2201	Private Piano III		MUSI	2302	Advanced Private Piano l	I 2-3
or				MUSI	2305	Music Literature II	3
MUSI	2301	Advanced Private Piano I	2-3	MUSI	2402	Advanced Harmony	4
MUSI	2304	Music Literature I	3	ELCT		Humanities/Fine Arts Ele	ective 3
MUSI	2401	Intermediate Harmony	4				15-16
		•	15-16				
						TOTAL HOURS	62-66

^{*}Computer Science selection (excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1420 or higher.

NURSING ASSOCIATE DEGREE NURSING A Two-Year Associate in Applied Science Degree

FIRST YEAR

Summ	er Ses	sion	Credit
ENGL	1301*	Composition & Rhetoric I	3
MATH	1301*	Intermediate Algebra	3
PSYC	1101*	College Orientation	1
PSYC	2301*	Introduction to Psychology	3
			10
	*D		

*Prerequisite to NURI 1901

First Semester		Credit	Credit Second Semester				
NURI	1901	Fundamentals of Nursing	9	NURI	1101	Psychiatric Nursing I	1
BIOL	1405	Human Anatomy	4	NURI	1902	Medical-Surgical Nursing I	9
		. •	13	BIOL	1406	Human Physiology	4
						, 6,	1.4

SECOND YEAR

Summer Session Cre						
ELCT	**	Computer Science/Microcom-				
-		puter Technology Elective	3			
PSYC	2303	Child Growth & Development	3			
SPCH	1301	Public Speaking	3			
V			9			

First Semester		Credit	Secon	Credit			
NURI	2102	Psychiatric Nursing II	1	NURI	2101	Nursing Trends Seminar	1
NURI	2903	Maternal & Child Health		NURI	2103	Psychiatric Nursing III	1
		Nursing	9	NURI	2904	Medical-Surgical Nursing	
BIOL	2404	Microbiology	4	ELCT		Humanities/Fine Arts Elec	ctive 3
		<u>u</u> ,	14				14

TOTAL HOURS 74

NOTE: This program has special admission requirements. Contact the Director of Nursing for admission requirements and procedures.

^{**}Computer Science selection (excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1420 or higher.

NURSING VOCATIONAL CLOCK HOUR PROGRAM

Certificate of Completion Non-Credit

		Cloc	k Hours			Cloc	k Hours
CEVN CEVN	0101 0102	Vocational Nursing I Vocational Nursing II	429 429 858	CEVN CEVN	0103 0104	Vocational Nursing III Vocational Nursing IV	429 438 867
						TOTAL HOURS	1725

CEVN 0101, 0102, 0103, 0104 Vocational Nursing I, II, III, and IV 1725: Credit: 0

This is a one-year non-credit Vocational Nursing Program that satisfies the requirements established by the Board of Vocational Nurse Examiners. After successful completion of this program, the graduate is eligible to take the licensing examination administered by the Texas State Board of Vocational Nurse Examiners.

OFFICE ASSISTANT A One-Year Certificate of Completion

First Semester		ter	Credit	Secon	Credit		
WOPO	1303*	Beginning Keyboarding/		WOPO	1304*	Intermediate Information	
		Data Entry	3			Processing Applications	3
OADM	1309	Business Mathematics &		WOPO	1307	Word Processing/	
		Calculating Machines	3			Transcription	3
MGMT	1304	Work Organization	3	OADM	1305	Records Management	3
MGMT	1305	Introduction to Managemen	t 3	OADM	1308	Business Correspondence	3
ENGL	1301	Composition & Rhetoric I	3	MATH	1301	Intermediate Algebra	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		•	16			•	16
						TOTAL HOURS	32

^{*}Levels of keyboarding will be determined by the student's previous training in these skills and/or placement test.

OFFICE MANAGEMENT A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Secon	Credit			
WOPO	1303*	Beginning Keyboarding/		WOPO	1304*	Intermediate Information	
		Data Entry	3			Processing Applications	3
OADM	1309	Business Mathematics &		WOPO	1307	Word Processing/	
		Calculating Machines	3			Transcription	3
MGMT	1304	Work Organization	3	OADM	1305	Records Management	3
MGMT	1305	Introduction to Managemen	ıt 3	OADM	1308	Business Correspondence	3
ENGL	1301	Composition & Rhetoric I	3	MATH	1301	Intermediate Algebra	3
PSYC	1101	College Orientation	1	PYED		Physical Education	1
		_	16			•	16

(Students may apply for a Certificate of Completion upon satisfactory completion of courses listed above.)

OFFICE MANAGEMENT (cont'd)

SECOND YEAR

First Seme	ester	Credit	Second	d Sem	iester	Credit
OADM 230	4 Office Accounting I	3	OADM		Office Accounting II	3
MGMT 230	5 Business Law I	3	OADM		Automated Office	Ŭ
SPCH 230:	3 Business & Professional				Administration	3
	Speaking	3	MGMT	2302	Personnel Management	3
ELCT	Social/Behavioral Science		MGMT	2306	Business Law II	3
	Elective	3	ELCT		Humanities/Fine Arts Ele	ctive 3
ELCT **	OADM/WOPO/MGMT		ELCT	**	OADM/WOPO/MGMT	
	Selection(s)	3			Selection(s)	3
PYED	Physical Education	1				18
	•	16				
					TOTAL HOURS	66

^{*}Levels of keyboarding will be determined by the student's previous training in these skills and/or by placement test.
**Electives or selections approved by the Department Manager.

OFFSET PRINTING A One-Year Certificate of Completion

First Semester		ter	Credit	Second Semester			Credit
OPRT	1301	Introduction to Offset Printi	ing 3	OPRT	1305	Copy Preparation & Layou	t 3
OPRT	1302	Camera & Darkroom Procee	iures,	OPRT	1306	Camera & Darkroom	
		Stripping & Platemaking I	3			Procedures, Stripping	
OPRT	1303	Offset Press Operation I	3			& Platemaking II	3
OPRT	1304	Bindery Operations, Cost		OPRT	1307	Offset Press Operation II	3
		Estimating & Pricing	3	OPRT	1308	Offset Printing Equipment	
OADM	1303	Beginning Typewriting	3			Maintenance	3
PSYC	1101	College Orientation	1	OADM	1309	Business Mathematics &	
			16			Calculating Machines	3
						Ü	15
						TOTAL HOURS	31

PHOTOGRAPHY A One-Year Certificate of Completion

First S	emest	er	Credit	Secon			Credit
PHOT	1301	Introduction to Photography	₇ 3	PHOT	1303	Advanced Photography	3
PHOT	1302	Portrait Photography	3	PHOT	1304	Commercial Photography	3
TELE	1406	Television Film	4	PHOT	1305	Advanced Print Making	3
ENGL	•	Approved Communications		TELE	2407	Electronic Field Production	
		Elective	3	ELCT	•	Approved Elective	3
ELCT		Approved Elective	3				16
PSYC	1101	College Orientation	1				
1010	• • • •	2	17			TOTAL HOURS	33

^{*}ART. 1309, PHOT 1306, BUSS 1301, SPCH 1301, OPRT 1302, TELE 1403, TELE 1408, TELE 2408, or other electives approved by Department Manager.

PHOTOGRAPHY

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First Semester		Credit	Second Semester			Credit	
PHOT	1401	Introduction to Photograph	y 4	PHOT	1403	Advanced Photography	4
PHOT	1402	Portrait Photography	4	PHOT	1404	Commercial Photography	4
ENGL	1309	Communications Skills	3	PHOT	1405	Advanced Print Making	4
MATH	1301	Intermediate Algebra	3	ELCT		Social/Behavioral Science	
PSYC	1101	College Orientation	1			Elective	3
PYED		Physical Education	1	PYED		Physical Education	1
		•	16			•	16

SECOND YEAR

First S	Semes	ter	Credit	Secon	Credit		
PHOT	2403	Portrait Retouching	4	PHOT	2404	Photographic Production	4
PHOT	2406	Color Photography I	4	PHOT	2407	Color Photography II	4
JOUR	1301	Communications Media	3	OADM	2304	Office Accounting I	3
ELCT		Humanities/Fine Arts Elec	ctive 3	MISC	1450	Microcomputers for Busine	ss 4
BUSS	1301	Introduction to Business	3	ELCT	*	Approved Elective	3
PYED		Physical Education	1	PYED		Physical Education	1
		•	18			•	19
						TOTAL HOURS	69

^{*}Approved Electives: SPCH 1301, OPRT 1302, TELE 1406, MGMT 1305, 2302, 2305, 2309, or MISC 1405.

PHYSICAL EDUCATION A Two-Year Associate in General Studies Degree

FIRST YEAR

First Semester		Credit	Secon	iester	Credit		
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
BIOL	1401	General Biology I	4	BIOL	1402	General Biology II	4
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 187	7 3
PSYC	1101	College Orientation	1	SPCH	1301	Public Speaking	3
PYED	1301	Foundations of Physical		PYED	1302	Foundations of Health	3
		Education	3	PYED		Physical Education	1
PYED		Physical Education	1			•	17
		•	15				

SECOND YEAR

First S	emes	ter	Credit	Secon	d Serr	ıester	Credit
ENGL	2301	English Literature I	3	ENGL	2302	English Literature II	3
BIOL	1405	Human Anatomy	4	MATH	1301	Intermediate Algebra	3
GOVT	2301	State & Federal Governmen	ntI3	GOVT	2302	State & Federal Governme	ent II 3
PYED	2301	Sports Officiating	3	PYED	2302	Safety & First Aid	3
COSC	1300	Computer Information		ELCT		Humanities/Fine Arts Ele	ctive 3
		Processing	3	PYED		Physical Education	1
PYED		Physical Education	1			,	16
		•	17				10
						TOTAL HOURS	65

PLANT PRODUCTION A One-Year Certificate of Completion

First Semester		Credit	Credit Second Semester				
FRMG	1303	Soil Science	3	FRMG	1305	Vegetable Production	3
FRMG	2301	Farm Mechanics I	3	FRMG	2401	Food Preservation	4
AGRI	2301	Entomology	3	AGRI	1302	Agronomy	3
AGRI	2303	Natural Resource Conser	vation 3	AGRI	2302	Horticulture	3
PSYC	1101	College Orientation	1				13
		•	13				
						TOTAL HOURS	26

PLUMBER APPRENTICESHIP PROGRAM

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First S	First Semester		Credit	Secon	d Sem	ıester	Credit
PLUM	1401	Principles of Plumbing I	4	PLUM	1402	Principles of Plumbing II	4
INDU	1400	Industrial Fundamentals	4	PLUM	1403	Residential Plumbing I	4
DRDS	1303	Architectural Blueprint		SPCH	1301	Public Speaking	3
		Reading	3	ENGL	1301	Composition & Rhetoric I	3
TMTH	1301	Technical Mathematics II	3	WELD	1401	Beginning Gas Welding	4
PSYC	1101	College Orientation	1			2 0	18
		ŭ	15				
Summ	er Se	ssion					
PLUM	1404	Residential Plumbing II	4				
PLUM	1405	Commercial Plumbing	4				
DRDS	1400	Fundamentals of Drafting	4				
		ŭ	12				

SECOND YEAR

First Ser	First Semester		Secon	d Sen	iester	Credit
PLUM 2	401 Plumbing Layout, Codes		PLUM	2403	Heating & Air Conditionin	g
	& Estimating	4			Plumbing	4
PLUM 2	402 Plumbing Repair		PLUM	2409	Plumbing Internship	4
	& Maintenance	4	ELCT		Humanities/Fine Arts Elec	tive 3
ELCT •	Computer Science/Microc	om-	SMTL	1401	Sheet Metal I	4
	puter Technology Elective	3				15
PHYS 1	403 Survey of Physics	4				
PSYC 2	301 Introduction to Psycholog	у 3			TOTAL HOURS	78
		18				

^{*}Computer Science selection (excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1420 or higher.

PRE-MED A Two-Year Associate in Science Degree FIRST YEAR

First Semester		Credit	Secon	đ Sem	iester	Credit	
BIOL	1401	General Biology I	4	BIOL	1402	General Biology II	4
CHEM	1401	General Chemistry I	4	CHEM	1402	General Chemistry II	4
MATH	1302	College Algebra	3	MATH	1303	Trigonometry	3
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 187	73
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1			-	18
		U	10				

PRE-MED (cont'd)

SECOND YEAR

First S	emesi	ter	Credit	Second Semester			Credit
BIOL CHEM	2401 2401	Invertebrate Zoology Organic Chemistry I	4 4	BIOL CHEM GOVT	2402 2402 2302	Vertebrate Zoology Organic Chemistry II State & Federal Governme	4 4 nt II 3
GOVT ENGL COSC	2301 2301 1403	State & Federal Governmer English Literature I Introduction to Computer	3	SPCH ELCT	1301	Public Speaking Humanities/Fine Arts Elec	3
PYED		Science & Programming Physical Education	4 1 19	PYED		Physical Education	18
						TOTAL HOURS	74

Students should check the catalogue of the institution to which they plan to transfer as requirements may vary.

RADIO BROADCASTING A One-Year Certificate of Completion

First S	Semes	ter C	redit	Secon	d Sem	iester	Credit
TELE	1301	Introduction to Broadcasting	3	TELE	1305	Broadcast Writing	3
TELE	1402	Beginning Radio Production	4	TELE	1407	Advanced Radio Producti	ion 4
TELE	1405	Radio-TV Announcing	4	TELE	2408	Telecommunications Inter	nship4
JOUR	1302	News Gathering & Reporting	3	TELE	2409	Telecommunications Proje	ects I 4
•			14			•	15

TOTAL HOURS

TOTAL HOURS

REAL ESTATE A Two-Year Associate in Applied Science Degree

FIRST YEAR

First S	First Semester		Credit	Credit Second Semester			
REAE	1301	Real Estate Fundamentals	3	REAE	1302	Real Estate Marketing	3
MISC	1450	Microcomputers for Busines	ss 4	REAE	2304	Real Estate Finance	3
MGMT	1306	Human Relations	3	BUSS	2301	Macroeconomics	3
BUSS	1301	Introduction to Business	3	MATH		Mathematics Selection(s)	3
ENGL	1301	Composition & Rhetoric I	3	ELCT		Humanities/Fine Arts Ele	ctive 3
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1			•	16
		•	10				

SECOND YEAR

First S	First Semester		Credit	Secon	d Sen	nester	Credit
REAE	2401	Real Estate Internship I	4	REAE	2402	Real Estate Internship II	4
BUSS	2302	Microeconomics	3	MGMT	2301	Marketing Principles	3
ACCO	2301	Financial Accounting	3	ACCO	2302	Managerial Accounting	
ACCO	2101	Financial Accounting Lab	1			& Control	3
REAE	**	Real Estate Selection(s)	3	ACCO	2102	Managerial Accounting	
ELCT		Elective	3			& Control Lab	1
			17	REAE	**	Real Estate Selection(s)	3
				SPCH		SPCH 1301 or SPCH 2303	3
							1 7

^{*}MATH 1301 or higher, excluding MATH 1307.

^{**}REAE 1300, 1303, 2300, 2301, 2302, 2303, 2305, 2306, 2307, 2308, or 2309.

RESIDENTIAL/COMMERCIAL ELECTRICIAN APPRENTICESHIP PROGRAM

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First Semester		Credit	Second Semester			Credit	
ELTE	1400*	Basic Electricity	4	ELEC	1301	Electrical Codes	3
MTNT	1402	Electricity	4	ELEC	1401	Low Voltage &	•
MGMT	1302	Safety (OSHA)	3			Appliance Circuits	4
TMTH	1301	Technical Mathematics II	3	ELTE	1403	Solid State Electronics	4
PSYC	1101	College Orientation	1	ENGL	1301	Composition & Rhetoric I	3
		•	15	SPCH	1301	Public Speaking	3
							17
Summ	ter Sei	nester					
ELEC	1402	Commercial Wiring	4				
ELEC	2403	Control Circuits	4				
			8				

SECOND YEAR

First S	Semes	ter	Credit	Secon	d Sem	ester	Credit
ELEC	2404	Single & Three-Phase Transformers	4	ELEC ELEC	2406 2409	Electrical Planning Electrician Internship	4
ELEC DRDS	2405 1303	Motors & Motor Codes Architectural Blueprint	4	ELCT PSYC	2301	Humanities/Fine Arts Ele Introduction to Psycholog	
	1000	Reading	3	ELCT	**	Computer Science/Micro	com-
PHYS	1403	Survey of Physics	4 15			puter Technology Elective	: 3 17
						TOTAL HOURS	<i>7</i> 2

^{*}ELTE 1401 and ELTE 1402 may be substituted.

SHEET METAL APPRENTICESHIP PROGRAM

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First S	emes	er	Credit	Secon	d Sen		Credit
SMTL DRDS WELD WELD PSYC	1401 1302 1401 1402 1101	Sheet Metal I Blueprint Reading Beginning Gas Welding Beginning Arc Welding College Orientation	4 3 4 4 1 16	SMTL SMTL DRDS TMTH MGMT	1303 1402 1400 1301 1302	Insulation & Sheet Metal Standards & Materials Plumbing & Heating Insul Fundamentals of Drafting Technical Mathematics II Safety (OSHA)	
Sumn SMTL FPRT ENGL	1 er Se 2401 2305 1301	mester Sheet Metal II Building Codes & Constru Composition & Rhetoric I					

^{**}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

SHEET METAL APPRENTICESHIP PROGRAM (cont'd)

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
SMTL	2302	Sheet Metal Layout & Planning	3	SMTL SMTL	2402 2409	Duct Work Sheet Metal Internship	4 4
PHYS PSYC WELD	1403 2301 2408	Survey of Physics Introduction to Psychology GMAW Welding (MIG)	4 3 4	ELCT SPCH	1301	Humanities/Fine Arts Ele Public Speaking	ctive 3 3 14
ELCT	•	Computer Science/Microco puter Technology Elective	om- 3 17			TOTAL HOURS	74

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

SMALL GAS ENGINE REPAIR A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First Semester		Credit	Credit Second Semester				
SGER	1401	Gas Engine Fundamentals	4	SGER	1407	Small Gas Engine Service	4
INDU	1400	Industrial Fundamentals	4	MATH	1301	Intermediate Algebra	3
ENGL	1309	Communications Skills	3	WELD	1402	Beginning Arc Welding	4
WELD	1401	Beginning Gas Welding	4	SGER	**	SGER Selection(s)	4
PSYC	1101	College Orientation	1	ELCT		Humanities/Fine Arts Ele	ctive 3
		_	16				18

SECOND YEAR

First Semester		Credit	Second Semester			Credit	
SGER	2402	Chain Saw Service & Repair	r 4.	SGER	2311	Shop Organization	
SGER	2410	Lawn & Garden				& Management	3
		Equipment Service	4	SGER	2408	Outboard Motor Service	
WELD	2407	GTAW Welding (TIG)	4			& Repair	4
GOVT		GOVT 2301 or GOVT 2302	3	OADM	2304	Office Accounting I	3
SPCH	2303	Business & Professional		ELCT	*	Computer Science/Microco	m-
		Speaking	3			puter Technology Elective	3
		•	18	ELCT		Elective	3
							16

TOTAL HOURS 6

^{*}Computer Science selection (excluding COSC 1301, COSC 1302 and COSC 1307) or microcomputer selection, MISC 1420 or higher.

^{**}SGER 1409, SGER 2407, or SGER 2409.

Students may apply for a Certificate of Completion upon satisfactory completion of all SGER and INDU prefix courses.

SOCIAL SCIENCE A Two-Year Associate in Arts Degree

FIRST YEAR

First S	emes	ter	Credit	Secon	d Sen	nester Credit
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II 3
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 1877 3
LANG	1401	Beginning French I, Germa	n I	LANG	1402	Beginning French II, German II
		or Spanish I	4			or Spanish II 4
SCIE		Biology, Chemistry, Physic	s	SCIE		Biology, Chemistry, Physics
		or Geology	4			or Geology 4
MATH	1302	College Älgebra	3	ELCT		Humanities/Fine Arts Elective 3
PYED		Physical Education	1	PYED		Physical Education 1
PSYC	1101	College Orientation	1			18
		•	19			

SECOND YEAR

First Semester		Credit	Secon	Second Semester			
ENGL	2301	English Literature I	3	SPCH		Speech Elective	3
COVT	2301	State & Federal Governmen	t I 3	COVT	2302	State & Federal Governme	nt II 3
PSYC	2301	Introduction to Psychology	3	SOCI	2301	Introduction to Sociology	3
COSC		Computer Science Elective	4	ELCT		Social Science Elective	3
ELCT		Sophomore Social Science		ELCT		Elective	3
		course	3	PYED		Physical Education	1
PYED		Physical Education	1			•	16
		•	17				
						TOTAL HOURS	70

SPEECH A Two-Year Associate in Arts Degree

FIRST YEAR

First S	emesi	ter	Credit	Secon	d Sem	ester	Credit
ENGL	1301	Composition & Rhetoric I	3	ENGL	1302	Composition & Rhetoric II	3
HIST	1301	History of the U.S. to 1877	3	HIST	1302	History of the U.S. from 18	377 3
LANG	1401	Beginning French I, Germa	лI	LANG	1402	Beginning French II, Germ	an II
		or Spanish I	4			or Španish II	4
SPCH	1301	Public Speaking	3	ELCT		Elective	3
ELCT		SPCH 1302 or SPCH 1303	3	MATH	1302	College Algebra	3
PYED		Physical Education	1	PYED		Physical Education	1
PSYC	1101	College Orientation	1			•	1 7
		J	18				

SECOND YEAR

First Semester	Credit	Secon	d Sem	ester	Credit
ENGL 2301 English Litera	ıre I 3	ENGL	2302	English Literature II	3
GOVT 2301 State & Federa	Government I 3	GOVT	2302	State & Federal Governme	ent II 3
SPCH 2304 Discussion	3	SPCH	2305	Interpersonal Communication	itions 3
SCIE Biology, Chem	stry, Physics	MISC	1450	Microcomputers for Busin	tess 4
or Geology	4	SCIE		Biology, Chemistry, Physi	cs
	ne Arts Elective 3			or Geology	4
PYED Physical Educ		PYED		Physical Education	1
	17			•	18

TOTAL HOURS

TELECOMMUNICATIONS A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	Second Semester			Credit	
TELE	1301	Introduction to Broadcasting	3	TELE	1305	Broadcast Writing	3
TELE	1402	Beginning Radio Production		TELE	1406	Television Film	4
TELE	1403	Beginning Television		TELE	1407	Advanced Radio Production	m 4
	•	Production	4	TELE	1408	Advanced Television	
ENGL	1301	Composition & Rhetoric I	3			Production	4
SPCH	1301	Public Speaking	3	MATH	*	Mathematics Selection(s)	3
PSYC	1101	College Orientation	1				18
			18				

SECOND YEAR

First Seme	ster	Credit	Secon	d Sen	nester C	redit
TELE 2304 TELE 2407 TELE 2409 ELCT	Broadcast Sales Electronic Field Production Telecommunications Projec Social/Behavioral Science Elective		TELE TELE JOUR MISC	2306 2408 1301 1450	Telecommunications Seminar Telecommunications Internship Communications Media Microcomputers for Business	4 3
ELCT	Humanities/Fine Arts Elec	tive 3 17	ELCT	**	Approved Elective TOTAL HOURS	3 17 70

^{*}MATH 1301 or higher excluding MATH 1307.
**TELE 1405, 2301, 2307, or 2410.

TRAINING MANAGEMENT SYSTEMS

A Two-Year Associate in Applied Science Degree

(Offered only at selected locations)

FIRST YEAR

First Semester		Credit	Second Semester			Credit	
MGMT	1201	Management of Performan	ce	MGMT	1205	Analysis of Training	
		Oriented Training	2			Requirements	2
MGMT	1202	Briefing Techniques, Aids		MGMT	1206	Professional Resource	
		& Devices	2			Management	2
MGMT	1203	Evaluation of Instruction &		MGMT	1207	Professional Development	
		Training	2			of the Manager	2
MGMT	1204	Setting Objectives & Goals	2	MGMT	1208	The Training System	
ENGL	1309	Communications Skills	3			Management	2
MATH	1301	Intermediate Algebra	3	MGMT	1209	Managerial Theories	2
PSYC	1101	College Orientation	1	ELCT	*	Approved Electives	3
PYED		Physical Education	1	ELCT	**	Computer Science/Microco	om-
		•	16			puter Technology Elective	3
				PYED		Physical Education	1
						•	17

TRAINING MANAGEMENT SYSTEMS (cont'd)

SECOND YEAR

First Semest	ter Credit	Secon	d Sen	ester C	redit
MGMT 2201	Job Performance & Motivation 2	MGMT		Assessing of Training	
MGMT 2202	Individual Orientation			Standards, Goals & Objectives	2
	Techniques 2	MGMT	2205	Management Training Theory	2
MGMT 2203	Group Orientation Techniques 2	MGMT	2206	Management Learning	
ELCT ***	Sophomore Management			Strategies	2
	Elective 3	SPCH	2303	Business & Professional	_
ELCT	Humanities/Fine Arts Elective 3			Speaking	3
ELCT *	Approved Electives 3	HIST	***	History Selection(s)	3
PYED	Physical Education 1	ELCT	•	Approved Electives	3
	16	PYED		Physical Education	1
					16

TOTAL HOURS 65

WELDING A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester		Credit	lit Second Semester				
WELD	1401**	Beginning Gas Welding	4	WELD	1403	Intermediate Arc Welding	4
WELD	1402**	Beginning Arc Welding	4	WELD	1405	Advanced Gas Welding	4
INDU	1400	Industrial Fundamentals	4	WELD	1406	Blueprint For Welders	4
MATH	1301	Intermediate Algebra	3	ENGL	1309	Communications Skills	3
PSYC	1101	College Orientation	1				15
		P	16				

SECOND YEAR

First Semester		Credit Second Semester			ester	Credit	
WELD	2401	Advanced Arc Welding	4	WELD	2404	Pipe II	4
WELD	2402	Pipe I	4	WELD	2406	Welding Fabrication & Lay	yout 4
WELD	2407	GTAW Welding (TIG)	4	WELD	2408	GMAW Welding (MIG)	4
GOVT	2301	State & Federal Governme	nt I	ELCT		Humanities/Fine Arts Ele	ctive 3
or				SPCH	2303	Business & Professional	
GOVT	2302	State & Federal Governme	nt II 3			Speaking	3
ELCT	•	Computer Science/Microc	om-				18
		puter Technology Elective				TOTAL HOURS	67

^{*}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

^{*}Approved Electives: MGMT 2150, MGMT 2151, MGMT 2152, MGMT 2161, MGMT 2162, MGMT 2255, MGMT 2256, MGMT 2257, MGMT 2258, MGMT 2259, MGMT 2350, MGMT 2351, or MGMT 2358.

^{**}Computer Science selection (excluding COSC 1301, COSC 1302, and COSC 1307) or microcomputer selection, MISC 1420 or higher.

^{***}MGMT 2302, MGMT 2310, MGMT 2350, or BUSS 2306.

^{****}HIST 1301, HIST 1302, HIST 2350, or HIST 2351.

^{**}WELD 1301 may be substituted.

^{***}WELD 1302 may be substituted.

Students may apply for a Certificate of Completion upon satisfactory completion of all WELD and INDU prefix courses.

WORD PROCESSING SPECIALIST A Two-Year Associate in Applied Science Degree

FIRST YEAR

First Semester	Credit	Credit Second Semester		Credit
WOPO 1303* Beginning Keyboardin	g/ 3	WOPO 1304*	Intermediate Information Processing Applications	3
ENGL 1301 Composition & Rheton MATH 1301 Intermediate Algebra	ic I 3 3	WOPO 1307	Word Processing /Transcription	3
OADM 1305 Records Management COSC/MISC** Computer Science/Misc	3 crocom-	SPCH COSC/MISC**	Speech Selection(s) Computer Science/Microc	
puter Technology Elect PSYC 1101 College Orientation	tive 4 1 17	OADM 1308	puter Technology Elective Business Correspondence	4 3 16

(Students may apply for a Certificate of Completion upon satisfactory completion of courses listed above)

SECOND YEAR

First Semester		Credit	Credit Second Semester		nester	Credit	
WOPO	2302	Advanced Information		WOPO	2303	Office Automation	3
		Processing Applications	3	WOPO	2309	Information System	
WOPO	2308	Information System				Internship II	3
		Internship I	3	OADM	2305	Office Accounting II	3
OADM	2304	Office Accounting I	3	OADM	2307	Automated Office	
ELCT		Humanities/Fine Arts Ele	ctives3			Management	3
ELCT	**	Elective	3	ELCT		Social/Behavioral Science	
PYED		Physical Education	1			Elective	3
			16	PYED		Physical Education	1
						•	16

-- i- thoop skills and /on b

65

TOTAL HOURS

^{*}Levels of keyboarding will be determined by the student's previous training in these skills and/or by placement test. Students who receive advanced standing in typewriting may select an approved elective to fulfill hour requirements.

^{**}Electives or selections approved by the Department Manager.

COURSE DESCRIPTIONS

Accounting (ACCO)

ACCO 2301 Financial Accounting

(3-0) Credit: 3

Analysis of financial transactions during an accounting cycle for proprietorships, partnerships, and corporations. Topics include merchandise operations, manual and electronic systems, investments, accounts and notes receivable, inventory methods, plant assets and depreciation, payroll and other current liabilities, organization and operations of corporations, long-term investments, statement of changes in financial position, and analysis of financial statements.

ACCO 2101 Financial Accounting Lab

(0-3) Credit: 1

The laboratory course to accompany ACCO 2301.

ACCO 2302 Managerial Accounting & Control

(3-0) Credit: 3

The origination, processing, reporting, and use in business operations of accounting information for management purposes; integrates topics in cost and financial control, and behavioral science. Prerequisites: ACCO 2301 and MATH 1301 or equivalent.

ACCO 2102 Managerial Accounting & Control Lab (0-3) The laboratory course to accompany ACCO 2302.

Credit: 1

ACCO 2303 Principles of Accounting I

(3-0) Credit: 3

Analysis and recording of financial transactions, use of journals and ledgers, internal control of cash transactions, income statement and balance sheet, payroll records and reports, depreciation systems, inventory methods, sale and exchange of assets, special journals and voucher systems, accounting for inflation, generally accepted accounting principles.

ACCO 2103 Accounting I Lab

(0-3) Credit: 1

ACCO 2304 Principles of Accounting II

(3-0) Credit: 3

Continues Accounting I. Partnership and corporate accounting methods and procedures, statement of changes in financial position, consolidated financial statements, departments and branches, manufacturing systems, cost accounting systems, capital budgeting, break even analysis, financial statement analysis, income tax accounting and business decisions.

ACCO 2104 Accounting II Lab

(0-3) Credit: 1

ACCO 2305 Introduction to Managerial Accounting (3-0) Credit: 3 A study of the methods by which accounting data are used by management in planning, coordinating, and controlling the operations of a business. Measurement of financial position;

analysis of financial statements; cost accumulation and analysis; budgeting; product costing; and quantitative decision techniques. Prerequisite: ACCO 2304 or ACCO 2302.

ACCO 2309 Intermediate Accounting I

(3-0) Credit: 3

A detailed study of financial accounting with emphasis on financial statements, current assets, current liabilities, property, plant and equipment, present value concepts, short-term investments, and intangible assets. Prerequisite: ACCO 2304 or ACCO 2302 with a minimum grade of C.

ACCO 2310 Intermediate Accounting II

(3-0) Credit: 3

Continuation of Intermediate Accounting I. Long-term liabilities; corporate capital; accounting for leases and pensions; analysis of financial statements; sources and uses of funds; long-term investments; and price-level impact on financial statements. Prerequisite: ACCO 2309.

Accounting Technology (ACCT)

ACCT 1301 Financial Accounting

(3-0) Credit: 3

Analysis of financial transactions during an accounting cycle for proprietorships, partnerships, and corporations. Topics include merchandise operations, manual and electronic systems, investments, accounts and notes receivable, inventory methods, plant assets and depreciation, payroll and other current liabilities, organization and operations of corporations, long-term investments, statement of changes in financial position, and analysis of financial statements.

ACCT 1302 Managerial Accounting & Control (3-0) Credit: 3 The origination, processing, reporting, and use in business operations of accounting information for management purposes; integrates topics in cost and financial control, and behavioral science. Prerequisites: ACCT 1301 and MATH 1301 or equivalent.

ACCT 2305 Basics of Managerial Accounting (3-0) Credit: 3 A study of the methods by which accounting data are used by management in planning, coordinating, and controlling the operations of a business. Measurement of financial position; analysis of financial statements; cost accumulation and analysis; budgeting; product costing; and quantitative decision techniques. Prerequisite: ACCT 1302.

ACCT 2306 Cost Accounting

(3-0) Credit: 3

An introduction to the objectives and procedures of cost accounting and control for business firms. It covers the principles and methods of accounting for materials, direct labor, and the distribution of overhead expenses, as well as cost records, operating reports and budgetary control. Prerequisite: ACCT 1302.

ACCT 2309 Fundamentals of Accounting III (3-0) Credit: 3
A detailed study of financial accounting with emphasis on financial statements, current assets, current liabilities, property, plant and equipment, present value concepts, short-term investments, and intangible assets. Prerequisite: ACCT 1302 with a minimum grade of C.

ACCT 2310 Fundamentals of Accounting IV (3-0) Credit: 3 Continuation of ACCT 2309. Long-term liabilities; corporate capital; accounting for leases and pensions; analysis of financial statements; sources and uses of funds; long-term investments; and price-level impact on financial statements. Prerequisite: ACCT 2309.

ACCT 2311 Accounting & Financial Information Systems I

(3-0) Credit: 3

This course is a study of the overall flow systems emphasizing financial data and computerized systems. It covers flow and logic concepts, developing meaningful control concepts and data reporting techniques. Prerequisite: ACCT 1302.

ACCT 2312 Accounting & Financial

(3-0) Credit: 3

Information Systems II

This course is a continuation of ACCT 2311. Prerequisite: ACCT 2311.

Agriculture (AGRI)

AGRI 1301 Animal Husbandry

(2-4) Credit: 3

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

AGRI 1302 Agronomy

(2-4) Credit: 3

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

AGRI 1303 Poultry Science

(3-2) Credit: 3

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

AGRI 1304 Introduction to Agriculture

(3-0) Credit: 3

Economics

Fundamental economic principles, including assembly, food production and processing, distribution, and agribusiness industries and their application to the problems of the agriculture industry.

AGRI 2301 Entomology

(2-4) Credit: 3

Chemical control of insects which affect crops and livestock. Control of external and internal

parasites affecting animals. Safety factors in dealing with insecticides.

AGRI 2302 Horticulture

(3-2) Credit: 3

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

AGRI 2303 Natural Resource Conservation (3-0) Credit: 3

An introduction to the conservation of renewable natural resources. Include the development for multiple use of water, range, forests, and wildlife.

Air Conditioning and Refrigeration (AIRC)

AIRC 1201 Air Conditioning & Refrigeration (1-2) Credit: 2
Theory & Application I

This course deals with the basic physical principles of air conditioning and refrigeration equipment. Introduction to basic thermodynamics and physics that pertain to heat, temperatures, pressures, fluids and refrigerants. Mechanics that pertain to piping and the specialized tools needed for piping.

AIRC 1202 Air Conditioning & Refrigeration (1-2) Credit: 2
Theory & Application II

This course is a continuation of Air Conditioning and Refrigeration Theory and Application I. Contents of this course include the identification of various types of air conditioning systems, compressors, metering devices and a service procedure for basic air conditioning and refrigeration systems. Prerequisite: AIRC 1201.

AIRC 1400 Basic Air Conditioning & Refrigeration (3-3) Credit: 4
Theory

This course introduces the student to basic thermodynamics—heat transfer, temperature—pressures, characteristics of refrigerant, pressure-temperature relationships of refrigerant, the refrigeration cycle, major components of refrigeration systems and their relationship to each other. The use of temperature recording devices, special tools—manifold gauge set, charging station, vacuum and vacuum pump, and micron gauges is covered.

AIRC 1401 Electricity for Air Conditioning (3-3) Credit: 4
and Refrigeration I

This course introduces the student to the basic concepts of electricity as they apply to air conditioning and refrigeration. It includes quantities, units, circuits, laws, measurement, alternating current fundamentals, magnetism, electromagnetism, instruments, power, inductance, capacitance and transformers.

AIRC 1403 Heating Systems

(3-3) Credit: 4

This course introduces the student to residential heating systems, natural gas, liquefied petroleum, electrical, oil, hydronic and special applications; emphasis will be placed on natural gas and electrically forced air systems, heat exchangers, gas circuits, air side, cabinet construction, sequencers, limits and heating elements. Prerequisite: AIRC 1401.

AIRC 1406 Electricity for Air Conditioning (3-3) Credit: 4
& Refrigeration II

This course reviews the alternating current fundamentals, simple alternating current circuits, single-phase air conditioning circuits, three-phase circuits, single and three-phase transformers, three-phase induction motors, single-phase motors and motor control, generation, transmission, and distribution of electrical energy. Prerequisite: AIRC 1401.

AIRC 1407 Mechanical Refrigeration Systems (3-3) Credit: 4 This course provides the student with an in-depth study of mechanical refrigeration systems. The major components of a refrigeration system are examined to include compressors, evaporators, condensers, refrigerant flow control devices, interconnecting lines, driers, receivers and accumulators. The charging with refrigerants, the household refrigeration and air conditioning systems and refrigerant piping, the use of pressures in diagnosis of refrigeration circuit malfunctions are covered. Corequisites: AIRC 1400 & 1401.

AIRC 2400 Electricity for Air Conditioning & Refrigeration III

(3-3) Credit: 4

This course provides the student with the fundamentals of electrical testing and electrical trouble-shooting of air conditioning and refrigeration circuits, circuit analysis and the repair or replacement of circuit components. Emphasis will be placed on household refrigeration and air conditioning electrical systems. An overview of the single family residential wiring to include the construction of main and branch circuits is presented. Prerequisite: all AIRC 1400 courses.

AIRC 2401 Advanced Air Conditioning & Refrigeration Theory

(3-3) Credit: 4

This course will provide the student with an in-depth study of the basic principles of air conditioning design, heat load calculation, air distribution design, building component composition, and insulation. The student will construct ducts to include flex ducts and will install galvanized round pipe and equipment. Prerequisite: all AIRC 1400 courses.

AIRC 2402 Commercial Refrigeration

(3-3) Credit: 4

This course introduces the student to the different types of commercial refrigeration units and systems. Instruction is provided in controls and control circuits for commercial refrigeration. Heat loss and heat gain calculations for commercial application, equipment selection, locating and piping procedures, and service procedures for different systems will be covered. Prerequisites: all AIRC 1400 courses.

AIRC 2403 Commercial Air Conditioning Systems

(3-3) Credit: 4

This course is designed to cover heat transfer, heat loss and heat gain calculations as they apply to commercial heating and air conditioning. Instruction includes psychometrics of conditioned air, duct design and layout, equipment selection and location, shop drawings, controls and control circuits for automatic conditioning of air. Prerequisites: all AIRC 1400 courses.

AIRC 2404 Trouble-shooting Air Conditioning (3-3) Credit: 4
& Refrigeration Systems

This course will provide the student with an in-depth study of schematic wiring diagrams and - electrical trouble-shooting using the diagrams. Prerequisite: all AIRC 1400 courses.

AIRC 2405 Heat Pumps

(3-3) Credit: 4

This course will introduce the student to heat pumps; heating, cooling and defrost cycles, components, reversing valves, flow controls, accumulator piping, heat pump controls, system design, heat pump installation and trouble-shooting. Prerequisite: all AIRC 1400 courses.

Animal Production

(See Farm & Ranch Mgmt.)

Anthropology (ANTH)

ANTH 2301 Physical Anthropology

(3-0) Credit: 3

Principles of physical anthropology, human evolution, race, heredity, the organic basis of culture, cultural history through the Paleolithic stage.

ANTH 2302 Cultural Anthropology

(3-0) Credit: 3

Principles of cultural anthropology, cultural history from the Mesolithic stage through civilization, culture, and social organization in preliterate and literate societies, impact of western culture on preliterate societies.

Applied Management

(See Mgmt.)

Applied Music

(See Music)

Applied Physics (APPH)

APPH 1350 Applied Physics I

(3-0)Credit: 3

This course is designed for students in technical areas who must be able to apply certain basic principles of physics to their career field. The course considers only certain areas of physics; especially mechanics, heat, fluids and the nature of matter. Prerequisite: TMTH 1301 or equivalent.

Applied Physics II APPH 1351

(3-0)Credit: 3

This is a continuation of Applied Physics I for students in technical areas who must be able to apply certain basic principles of physics to their career field. This course covers wave motion, light, electricity and magnetism, applied electronics and an introduction to nuclear energy. Prerequisite: APPH 1350.

Art (ART.)

ART. 1301, 1302 Drawing I & II

(2-4)Credit: 3,3

These courses involve a study of the basic drawing skills including both abstraction and expressive drawing in charcoal, pencil, pen, wash, conte, and mixed media.

ART. 1303, 1304 Creative Design I & II (2-4)Credit: 3,3

These courses give basic instruction in the elements and principles of design, with emphasis on the study of form and color theory. Design I is a study of design in two dimensions, while Design II is a study of three dimensional design problems.

1305, 1306 Figure Drawing I & II (2-4)Credit: 3,3

These are life drawing courses which emphasize structure and action of the human figure. ART. History & Appreciation of Art I Credit: 3 1307

This course is a survey of the major and minor arts from prehistoric times to the 14th century.

ART. History & Appreciation of Art II (3-0)Credit: 3 This course is a survey of the major and minor arts from the 14th century to the present.

Printmaking

Credit: 3

(2-4)

This introductory course covers the fundamentals and creative experimentation in etching, serigraphy, and other printmaking media.

Oil Techniques 2302

Credit: 3 (2-4)

This course is an introduction to the techniques and materials of oil painting.

Advanced Oil Painting ART.

(2-4)Credit: 3

This course is a continued exploration of the medium with emphasis on individual expression. Prerequisite: ART. 2302.

ART. Watercolor Painting (2-4)Credit: 3

This course covers various techniques of painting in watercolor. It stresses color and composition in application of the medium.

ART. 2305 Illustration & Design I (2-4)Credit: 3

This course is an introduction to the basic processes, materials and techniques of illustration, layout, and commercial design.

ART. 2306 Illustration & Design II (2-4)Credit: 3

This course is an advanced study of commercial art production. It continues principles covered in Illustration and Design I. Prerequisite: ART. 2305.

ART. 2307 Drawing & Painting Media (2-4)Credit: 3

This is an introduction to materials and techniques of drawing and painting for non-Art majors.

ART. 2308 Acrylic Painting Credit: 3

This course covers the properties of color, theory of color and form, and technical procedures of the medium.

ART. 2309 Ceramics I (2-4)Credit: 3

This course is an introduction to making pottery by hand and/or wheel methods. Glazing and decoration techniques are also covered.

2310 Ceramics II ART.

Credit: 3 (2-4)

This course is a continuation of techniques of pottery making. Prerequisite: ART. 2309.

Fiberarts I

Credit: 3

This course involves a study of weaving, rug making, dying, and papermaking. Emphasis will vary from one semester to another.

2312 Fiberarts II Credit: 3

This course is a continuation of ART.2311. Emphasis will vary from semester to semester.

Jewelry & Art Metals I

(2-4)

Credit: 3

This course is an introduction to jewelry making and metal working techniques. Basic fabrication techniques are stressed.

2314 Jewelry & Art Metals II ART.

(2-4)Credit: 3

This course is a continuation of jewelry making and metal working techniques. Lost wax casting and surface treatments are emphasized. Prerequisite: ART 2313.

Problems In Contemporary Art I (3-0)ART. This course is an examination of current concerns and practices in contemporary visual art. Recent historical influences, modern aesthetics, contemporary media and techniques, and public accessibility will be covered in classroom lectures and on-site examination of art and art production.

ART. Problems in Contemporary Art II (3-0)Credit: 3 2316 This course is a continuation of Contemporary Art I. Prerequisite: ART. 2315 or Departmental Approval.

ART. 2317 Sculpture I (2-4)Credit: 3

This course is an introduction to sculpture making techniques including assemblage, carving and lost wax casting.

2318 Sculpture II (2-4)Credit: 3

This course is a continuation of ART. 2317, with emphasis on personal expression. Prerequisite: ART. 2317.

Astronomy (ASTR)

ASTR Survey of Astronomy (3-0)

A non-mathematical approach to the solar system. Beginnings of astronomy, motions of celestial bodies, minor members of the solar system, atoms and light are studied. Planetarium and observatory used in class.

ASTR Descriptive Astronomy (3-0)Credit: 3

A non-mathematical approach to the analysis of star light, stellar characteristics, stellar evolution, the sun, galactic characteristics, and cosmology are included. Planetarium and observatory used in class.

Automotive Body Repair (ATBR)

ATBR 1403 Roughing & Alignment I (2-4)Credit: 4

This course is designed to provide the student with a fundamental working knowledge of the theory and application of damage analysis and reversal as it applies to minor body damage. Emphasis will be placed on damage classification and identification; proper tool selection and use for specific repairs; heat shrinking; metal finishing techniques; and the alignment of moveable body panels. Prerequisites or Corequisites: INDU 1400, ATBR 1407, or ATBR 1405.

ATBR 1405 Auto Body Welding I

(2-4)Credit: 4

This course is designed to provide the student with a working knowledge and practical skill development in the use of oxyacetylene welding equipment as it relates to auto body repair procedures. Emphasis will be placed on safety; equipment construction and function; types and preparation of joints; and welding procedures on body steel. Prerequisite: INDU 1400.

ATBR 1407 Auto Body Fundamentals

(2-4) Credit: 4

This course is designed to provide the student with basic skills in general body shop safety; hand and power tools use; measurement techniques; selection and use of repair materials; and non-metal parts repair. Also covered in the course are details of both conventional and unitized body construction including parts nomenclature and methods of attachment. The student will also be introduced to general shop operation and to the methods of collision repair estimation. Prerequisite: INDU 1400.

ATBR 1408 Roughing & Alignment II

(2-4) Credit: 4

This is an advanced course designed to provide the student with further practical skill development in the correction of minor body damage and is an introduction to the repair of body structural damage. Emphasis will be placed on proper analysis and correction through the use of measurement techniques and hydraulic repair equipment. Prerequisites: ATBR 1403, ATBR 1405, ATBR 1407, and ATBR 1409.

ATBR 1409 Auto Body Welding II

(2-4) Credit: 4

This course is designed to provide the student with a working knowledge and practical skill development in the use of GMAW (MIG), resistance spot welder, and shielded metal arc welder as they relate to auto body repair. Emphasis will be placed on safety, equipment construction and function, joint preparation, welding procedures on both mild and HSLA body steel. Prerequisite: ATBR 1405.

ATBR 1410 Auto Body Painting Fundamentals (2-4) Credit: 4 This course is designed to provide the student with the basic knowledge and skills required in the painting of body panels. Emphasis will be placed on the proper use and care of the spray gun; surface preparation for different repair materials; sanding; masking; cleaning; compounding; preparation of refinished material, and recognition and correction of paint problems. Prerequisites or Corequisites: INDU 1400, ATBR 1407.

ATBR 1411 Automotive Glass

(2-4) Credit: 4

This course is designed to provide the student with a knowledge of the types of glass and weather sealing devices and service, and various types of power assist and minor electrical repair. Prerequisite: INDU 1400.

ATBR 2400 Major Vehicle Damage Repair (2-4) Credit: 4 This course is a continuation of ATBR 2401 and 2406, and places emphasis on developing the skills involved in major vehicle damage repairs utilizing the latest techniques and equipment including body sectioning and the use of recycled parts. Prerequisite: All first year courses.

ATBR 2401 Panel Repair & Replacement (2-4) Credit: 4 This course places heavy emphasis on straightening and fitting panels and employs welding, dinging, bumping, and alignment procedures. The use of body fillers; contour finishing and metal preparation are also included. Prerequisite: All first year courses.

ATBR 2404 Advanced Auto Body Painting (2-4) Credit: 4
This course is designed to increase the student's knowledge and skills in auto body refinishing.
Emphasis will be placed on the techniques and materials used in the spot repair of both enamels and lacquers; the use of color coat/clear coat systems; tinting and blending for spot repairs; stripe and accent painting; and complete vehicle refinishing. Prerequisites: ATBR 1407 and ATBR 1410.

ATBR 2406 Frame Repair & Alignment (2-4) Credit: 4 This course is designed to provide the student with a working knowledge of the types of body frames, misalignment, alignment straightening, repair and the use of special equipment and measuring devices. Prerequisite: ATBR 1405.

Automotive Service and Repair (AUTO)

AUTO 1150 Auto Maintenance Procedures

(0.3-1) Credit: 1

(Elec & Body)

Designed to teach the student to perform maintenance and trouble-shooting on the electrical systems and body maintenance.

ures (0.3-1) Credit: 1

AUTO 1151 Auto Maintenance Procedures (Brakes)

Provide the student with the knowledge and skills to maintain and trouble-shoot the brake system as detailed in the service manual.

AUTO 1253 Operational Maintenance Course (.5-2) Credit: 2 Course is designed to teach vehicle operators to perform maintenance and operate the M809 series 5-ton and unit generators.

AUTO 1254 Operators Training & Maintenance (2-2) Credit: 2 This course is designed to teach operators proper operation of vehicles and maintenance of vehicles, includes forms, safety, accident forms, PMCS, and use of publications, and includes NSC Defensive Driving.

AUTO 1255 Motor Sergeant's Maintenance (1.5-1) Credit: 2

Management

Provides training in procedures and techniques of establishing, conducting, and evaluating standard maintenance programs for unit vehicles. Includes maintenance operations, organization management, controls, requirements, training and records.

AUTO 1401 Basic Engines

(2-4) Credit: 4

This course is designed to provide the student with a knowledge of the fundamentals of internal combustion engines, emission controls and engine systems to include identification of components and basic operation. This course will place heavy emphasis on basic engine trouble-shooting, repair and testing to determine engine mechanical condition. Prerequisite or Corequisite: INDU 1400.

AUTO 1402 Basic Electrical & Test Equipment (2-4) Credit: 4
This course will provide the student with a good understanding of basic electrical principles, electrical circuits, electrical diagrams, wiring repairs, lighting systems and electrical trouble-shooting through the use of hands-on training. Emphasis will be placed on usage and interpretation of common test equipment. The student will also be able to test and diagnose the lead acid storage battery. Prerequisite or Corequisite: INDU 1400.

AUTO 1405 Automotive Air Conditioning (2-4) Credit: 4 A course designed to provide an understanding of the principles, design, construction, installation, and service procedures involved in automotive air conditioning, with special emphasis on system recharging and compressor service. Prerequisite or Corequisite: INDU 1400.

AUTO 1406 Engine Tune Up

(2-4) Credit: 4

This course is designed to provide the beginning student with basic automotive skills involved in performing minor engine tune ups. Emphasis will be placed upon the procedures to diagnose, adjust, and replace electrical, carburetor, and ignition system components.

AUTO 1407 Brake Systems

(2-4) Credit: 4

A course designed to provide an understanding of the nomenclature, theory of operation and service procedures involved in the brake system. The use of the brake drum lathe, bleeder, and other equipment necessary to effect brake repairs will be taught, with emphasis on power brake and dual brake systems. Training will also include principles of anti-skid brake systems and heavy duty systems. Prerequisite or Corequisite: INDU 1400.

AUTO 1408 Standard Transmissions & Transaxles (2-4) Credit: 4 A course designed to provide an understanding of function, construction, operation, and maintenance of manual shift transmission, transaxles, clutches, drive lines and differentials. Prerequisite or Corequisite: INDU 1400.

AUTO 2250 Operational Maintenance (.5-2) Credit: 2 To familiarize the student with basic theories and principles of operational maintenance of military vehicles.

AUTO 2251 Power Generator Mechanics Course (1.5-4.5) Credit: 2 This course is designed to teach wheel vehicle mechanics the skills necessary to perform organizational maintenance on power generators. 1.5KW through 10KW.

AUTO Automotive Maintenance Procedures This course is designed to cover preventative maintenance procedures of the principle automotive systems including engine, ignition, fuel, electrical, brake and steering systems.

Auto Maintenance Procedures **AUTO** Maintenance and trouble-shooting the engine, electrical system, transmission, power transfer, propeller shafts, brakes, steering and suspension, and winch as in the service manual.

Shop Organization & Management **AUTO** Credit: 4 A course designed to provide information and actual experiences in shop management, customer relations, warranty provisions, service salesmanship, organization and layout general business practices and in the use of time, rate, and parts manual. This course places special emphasis on established business principles and preparations for employment. Prerequisite: Sophomore standing.

AUTO 2403 Automatic Transmissions & Transaxles (2-4) Credit: 4 A study of the theory of operation, construction and maintenance of automatic transmissions and transaxles, including locking torque converters and automatic overdrive. This course emphasizes the diagnosis, repair and overhaul techniques used in rebuilding transmissions. Prerequisites: INDU 1400 and AUTO 1408.

AUTO 2404 Ignition, Starting & Charging (2-4)Credit: 4 This course provides a review of the basic electrical system. Course content includes the ignition system theory and service for the conventional, transistor, and computer controlled systems. Starting motor and charging systems theory, testing and service will also be included. Prerequisites: INDU 1400 and AUTO 1402.

Steering & Suspension Systems Credit: 4 **AUTO** (2-4)This course is designed to provide the student with an understanding of the function, theory of operation, maintenance, diagnosis and service procedures involved in the automotive steering and suspension systems. It includes wheels, tires, steering gears and linkages, wheel alignment factors, diagnosis, repair and alignment procedures on live automobiles. The course will also include principles of heavy duty suspension systems. Prerequisite or Corequisite: INDU 1400.

AUTO 2406 **Engine Diagnosis & Emission** (2-4)Credit: 4 A course designed to provide an understanding of engine trouble-shooting procedures, utilizing conventional test equipment, engine oscilloscopes, exhaust gas analyzers and computer engine analyzers. Diagnostic adjustment and repair of engine emission control is included. Prerequisites:

INDU 1400, AUTO 1401, AUTO 1402, AUTO 2408, AUTO 2410, and AUTO 2404. AUTO 2408 Advanced Engine Service (2-4)Credit: 4

This course covers a brief review of basic engines. Hands-on work will involve valve train and cylinder head service including valve grinding and guide repair. Included in this course will be the procedures necessary for the replacement of an engine shortblock assembly including necessary testing and adjustments. Prerequisites: INDU 1400 and AUTO 1401.

AUTO 2409 Automotive Internship (1-20)Credit: 4 This course consists of on-the-job automotive training that utilizes the principles, knowledge and skills gained in the classroom and laboratory. The student is employed at an approved work site under the supervision of a College instructor/coordinator.

Fuel Systems & Injection 2410 A course designed to provide an understanding of the principles, design and operation of automotive fuel systems. Carburetors, fuel pumps, fuel injection and computer controlled units will be covered. Hands-on work will include trouble-shooting, repair and adjustment of these systems as well as emission control devices. Prerequisites: INDU 1400 and AUTO 1401.

AUTO Automotive Advanced Technology Credit: 4 This course is designed to provide the student with the information and knowledge to perform service on the new and emerging technology in the automotive field. As new product technology is introduced by the manufacturers, this course will be updated to include these developments. Special emphasis will be placed upon computerized control developments and other vehicle design changes, Prerequisite: Sophomore and approval of the Department Manager.

Aviation Maintenance Technology (AVMT)

Maintenance Publications - G Credit: 2 AVMT

The basis of all maintenance is the proper use and interpretation of technical publications. This course deals with Federal Aviation Administration and manufacturers' publications. The student will be given instruction on the privileges and limitations of a mechanic according to FAR Part 65 and also be given practical work with descriptions of aircraft work performed and the completion of required maintenance forms and records.

AVMT Weight & Balance - G 1202

(2-2)Credit: 2

Since weight and balance of an aircraft are critical areas in maintenance, the student will be instructed on the weighing and computation of weight and balance of an aircraft. This course will also include basic physics principles and basic ground operations and servicing of aircraft to include starting, moving, securing aircraft and other service procedures.

Aircraft Drafting - G

Credit: 2 (2-2)

Since the beginning of any aircraft originates on the drafting board, the technician must be able to use drawings, blueprints, diagrams, charts, and graphs. This course prepares the student to draw sketches and finished drawings of repairs and alterations. In addition, instruction will be given on fabrication and installation of rigid and flexible lines and fittings.

AVMT 1204 Airframe Materials

(2-2)Credit: 2

& Corrosion Control - G

The course involves the proper use of cleaning and corrosion control materials that are used in aviation. Instruction will include the areas of identifying and selecting appropriate nondestructive testing methods; performing penetrant, chemical etching and magnetic particle inspections; performing basic heat-breaking processes; identifying and selecting aircraft hardware and materials; identifying and selecting cleaning materials; and actually performing aircraft cleaning and corrosion control.

Basic Aircraft Electricity - G

This course is designed to introduce the student to the theory and practical applications of electricity. Topics of instruction include measuring voltage, current, resistance, continuity, leakage, capacitance, inductance and special applications of aircraft electrical circuits problems.

AVMT Aircraft Finishes - A 1306

Credit: 3

(2-4)

This course covers the principles involved in service and repair of wood structures, selecting, testing, inspection, repairing and applying materials from fabric to fiberglass. In addition painting, doping, applying trim and letters to the airframe of an aircraft are included.

A & P Mechanic General Course

This course introduces an experienced mechanic to the very basics of aircraft maintenance. The course will include applying the principles of mathematics, physics and electricity to aircraft maintenance; solving weight and balance problems; selecting and using specifications from FAA Regulations; and identifying and properly employing materials and hardware commonly used in aircraft maintenance. Prerequisites: 18 months aircraft maintenance experience and FAA evaluation certification that the student is qualified to take the course to obtain the FAA powerplant or airframe rating.

1402 Sheet Metal Structures - A

(2-6)

This course covers the theory and practical applications of aircraft sheet metal structures. Instructional topics include sheet metal layout, hand forming, machine forming and bending, and the use of conventional and special rivets and fasteners. Inspection techniques and procedures of bonded structures, plastics, honeycomb structures, laminated sections, doors, and aircraft interior furnishings are covered in the course. Soldering, brazing, gas welding, and arc welding of all materials used in aircraft structures including magnesium, titanium, stainless steel and aluminum are included in this course. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT Airframe Inspection - A

(2-4)Credit: 3

The objective of this course is to prepare the student to perform uniform conformity and airworthiness inspections of both rotary and fixed wing aircraft. This course also covers the alignment check of structures, assembling aircraft, balancing and rigging moveable surfaces, and the jacking of aircraft. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2304 Aircraft Fuel Systems - A (2-4) Credit: 3

This course covers the theory and practical experiences in inspection, repair, and service of aircraft fuel systems that include fuel dump systems, fluid quantity indicators, and fluid pressure and temperature indicators. Heating, cooling, pressurization systems, and oxygen equipment are also covered. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2305 Aircraft Instrument Systems - A (2-4) Credit: 3

This course is designed to instruct the student in the repair, inspecting, servicing, and installation of heading, speed, altitude, time, temperature, pressure and position indicating systems, ice and rain control systems and the maintenance of fire protection systems. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2306 Engine Electrical Systems - P (2-4) Credit: 3

This course is designed to give instruction in the trouble-shooting, repair, installation, and inspection of engine fluid rate of flow meters, temperature, pressure, and RPM indicators, fire detection and extinguishing systems, and the engine electrical systems that include wiring, controls, switches, indicators and protective devices. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2307 Engine Lubrication & Cooling Systems (2-4) Credit: 3 This course includes the identification and selection of lubricants as well as the repair, inspection, and trouble-shooting of the components. It also covers the theory and practical applications of the repair, inspection, trouble-shooting and servicing of cooling and exhaust systems. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2308 Aircraft Airframe Course (3-0) Credit:

The Airframe course has been established to teach qualified aircraft mechanics the fundamentals of aircraft airframe maintenance. The course is sequenced to give the student instruction in all areas of aircraft structures and their components. Evaluation examinations will be administered periodically throughout the course. Prerequisites: 18 months aircraft maintenance experience and FAA evaluation certification that the student is qualified to take the course to obtain the FAA airframe rating, and AVMT 1301.

AVMT 2309 Aircraft Powerplant & Systems (3-0) Credit: 3

The powerplant course has been established to teach qualified aircraft mechanics the fundamentals of aircraft powerplant maintenance. The course is sequenced to give the student instruction in all areas of powerplants and their components. Evaluation examinations will be administered periodically throughout the course. Prerequisites: 18 months aircraft maintenance experience and FAA evaluation certification that the student is qualified to take the course to obtain the FAA powerplant rating, and AVMT 1301.

AVMT 2402 Hydraulics & Pneumatics-A (2-6) Credit: 4

This course includes the repair, inspection and servicing of hydraulic and pneumatic power systems. Practical experiences include the inspection, servicing, and repair of landing gear retraction systems, shock struts, brakes, wheels, tires, and steering systems. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2403 Aircraft Electrical Systems-A (2-6) Credit: 4

This course is designed to prepare the student to perform inspection, maintenance, and repair of aircraft electrical systems, including wiring, controls, switches, and indicators both involved with alternating and direct current circuits. Also covered is the inspection and repair of the aircraft position and warning systems. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2404 Powerplant Maintenance Reciprocating (2-6) Credit: 4 Engines-P

This course is designed to prepare the student to maintain, overhaul, repair, and inspect reciprocating engines from small, opposed powerplants to large, radial engines. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2405 Engine Fuel Systems -P

(2-8) Credit: 4

This course covers the inspection, repair, servicing, and trouble-shooting of fuel metering systems, fuel systems components, engine ice and rain control systems, heat exchangers, superchargers, and overhauling carburetors. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

AVMT 2406 Aircraft Propellers -P

(2-8) Credit: 4

Propellers are an integral part of the majority of aircraft, therefore, a great deal of study is devoted to this area. This course covers the repair, inspection, service, and trouble-shooting of propeller synchronizing and ice controls, propeller control systems, fixed pitch, constant speed and propeller feathering and governing systems, removal and installation of propellers, balancing propellers and identifying and selecting proper propeller lubricants. Prerequisite: Successful completion of the general Aviation Maintenance Technology course.

AVMT 2407 Powerplant Maintenance - Turbine (2-6) Credit: 4 Engines - P

This course is designed to prepare the student in maintaining, repairing, rigging, overhauling and inspecting turbine engines. Prerequisite: Successful completion of the general Aviation Maintenance Technology courses.

Aviation Technology

(See Career Pilot)

Banking

(See Mid-Management)

Behavioral Science

(See Psychology)

Biology (BIOL)

BIOL 1301 Biological Science

(3-0) Credit: 3

A study of selected topics of biological science for the non-science major. Topics include the cell concept, systems of the human body, aging, an introduction to genetics, evolution and ecology. (This course may be offered via television.)

BIOL 1401 General Biology I

(3-3) Credit: 4

Fundamental principles of living organisms, including chemical and physical properties of life, tissue organization and function, cellular processes, and genetics. Guided tutorial method of instruction.

BIOL 1402 General Biology II

(3-3) Credit: 4

Fundamental concepts and mechanisms of the organ systems of both plants and animals. Includes ecology, adaptation, natural selection, and classification. Guided tutorial method of instruction.

BIOL 1405 Human Anatomy

(3-3) Credit: 4

Basic human anatomy designed for nursing and pre-med students. Laboratory includes anatomical models and displays, audio-visual materials, experiments, and taped instructional materials.

BIOL 1406 Human Physiology

(3-3) Credit: 4

Fundamental study of the chemical interrelationships of human systems. Digestion, respiration, excretion, muscular activities, reproduction, and metabolism are included. Basic physiological instruments and techniques are included in the lab. Prerequisite: BIOL 1405.

BIOL 2303 Genetics

(3-0) Credit: 3

The study of the physical basis of inheritance and the laws of heredity and variations. Genetic problems are emphasized. Human genetic dysfunctions and modern research in genetic control is discussed. Prerequisites: BIOL 1401 and 1402 or consent of the instructor.

BIOL 2401 Invertebrate Zoology

(3-3) Credit: 4

Classification, anatomy, physiology, and ecology of the invertebrates. Dissection and identification of structures are included in the laboratory. Field trips for the collection of invertebrates are required at minimal student expense. Prerequisite: BIOL 1401, 1402 or consent of the instructor.

BIOL 2402 Vertebrate Zoology

(3-3) Credit: 4

Structure, development, physiology, and natural history of the vertebrate animals; emphasis will be placed on North American forms; field trips are required at minimal student expense. Prerequisite: BIOL 1401, 1402, or consent of the instructor.

BIOL 2404 Microbiology

(3-3) Credit: 4

Fundamental principles of microbiology; includes study of morphology, physiology, and classification of microbes and their relations to soil, food, water, disease, and immunology. Designed for nursing and pre-med students.

Business (BUSS)

BUSS 1301 Introduction to Business

(3-0) Credit: 3

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

BUSS 1302 Consumer Economics

(3-0) Credit: 3

A study of consumer goods and services as related to the home and family, problems and pitfalls associated therewith. This includes a study of family purchasing, advertising, commodity information, sales approaches from a consumer viewpoint and includes sources of advice and counseling. A course to permit the supervisor to better advise subordinates on economic problems.

BUSS 2301 Macroeconomics

(3-0) Credit: 3

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

BUSS 2302 Microeconomics

(3-0) Credit: 3

Determination of relative prices; consumer demand analysis; the competitive firm; agricultural policy; the monopolistic firm; imperfect competition; business organization and government regulation; determinants of demand; the economic view of taxation and public expenditure; regional economics; international trade and finance; foreign economic policy.

BUSS 2306 Personal Finance

(3-0) Credit: 3

Personal and family accounts budgets, budgetary control, bank accounts, charge accounts, borrowing, investing, insurance, standards of living, renting, home ownership, wills, trust plans.

Career Pilot (CAPI)

CAPI 1300 Basic Flight

(.8-2.8) Credit: 3

Flight training for completion of the Private Pilot Certificate. A minimum of 57 hours of instruction is provided, including 25 hours of dual flight, of which two hours will be in the simulator, 20 hours of solo flight and 12 hours of oral instruction and briefings. The instruction in the course more than meets the requirements for a Private Pilot Certificate. Prerequisite: CAPI 1303, or concurrent enrollment.

CAPI 1301 Aircraft Science

(3-0) Credit: 3

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

CAPI 1302 Propulsion Systems

(3-0) Credit: 3

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

CAPI 1303 Air Navigation

(3-0) Credit: 3

The principles of flight, basics of air traffic control, weather facts, navigational procedures and

airplane operation as are pertinent for the Private Pilot. Upon successful completion of this course, the student has sufficient knowledge to pass the FAA written examination for the Private Pilot Certificate.

CAPI 1304 Intermediate Flight

(.8--3.1) Credit: 3

First phase of Commercial Pilot training. A minimum of 63 hours of instruction is provided including 15 hours of dual, of which 2 hours will be in the simulator. Thirty-five hours of solo flight and thirteen hours of oral instruction and briefings.

CAPI 1305 Advanced Air Navigation

(3-0) Credit: 3

The Federal Aviation Regulations covering the privileges, limitations and operations of a commercial pilot. Basic Aerodynamics and the principles of flight which apply to airplanes. Inspection and certification requirements will be covered and operating limitations, high altitude operations, physiological considerations, weight and balance computations, significance of the use of airplane performance speeds, cruise control, the Airman's Information Manual will be emphasized. Prerequisite: CAPI 1303.

CAPI 1306 Meteorology

(3-0) Credit: 3

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

CAPI 2300 Commercial Aviation

(3-0) Credit: 3

This course covers air traffic control procedures pertaining to Commercial Pilot, aviation weather and advanced navigational procedures. Advanced flight maneuvers, low altitude enroute charts, approach plates, and Airman's Information Manual. Also, airplane performance factors on a high performance aircraft with retractable gear and flaps and constant speed propeller. Prerequisite: CAPI 1305.

CAPI 2301 Aerodynamics

(3-0) Credit: 3

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

CAPI 2302 Turbine Engines

(3-0) Credit: 3

Gas turbine (or jet) engines have had a tremendous growth and refinement in the aircraft industry. Aircraft jet engine theory is presented, as well as the simplified mathematical relationship which is an integral part of any study dealing with jet engine theory. Fuel metering is a critical factor in correct engine operation and encompasses an in-depth study. Related systems and performance factors are included.

CAPI 2303 Air Transportation

(3-0) Credit: 3

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

CAPI 2304 Advanced Flight

(.9-3.4) Credit: 3

Commercial and instrument flight training. A minimum of 69 hours of instruction is provided, including 20 hours of dual instruction with 4 hours in the simulator, 35 hours of solo, and 14 hours of oral briefings. Prerequisites: CAPI 1304 and CAPI 2300, or concurrent enrollment.

CAPI 2305 Commercial Flight

(.8-3.1) Credit: 3

Commercial and instrument flight training to prepare the student for the FAA Commercial Pilot Certificate with Instrument Rating. A minimum of 63 hours of instruction is provided, including 30 hours of dual flight, of which 5 hours will be in the simulator. Twenty hours of solo flight and thirteen hours of oral instruction and briefings. Prerequisites: CAPI 2304 and CAPI 2307, or concurrent enrollment.

CAPI 2306 Multi-Engine Flight

(.8-.8) Credit: 3

This course of flight training leads to the FAA Multi-Engine Pilot Rating. This course is designed to give the advanced pilot a greater depth of aircraft experience. A minimum of 24 hours of instruction is provided, including 12 hours of dual flight, and 12 hours of oral instruction and briefings. Prerequisite: CAPI 2305 or a Commercial Pilot Certificate.

CAPI 2307 Instrument & Ground School

(3-0) Credit: 3

Basic radio fundamentals as used by the pilot. A description and practical use of various radio aids to safe aerial navigation, including Very High Frequency Omni Direction Range (VOR),

Instrument Landing System (ILS), Direction Finding (DF), and others. Charts and approach plates as adapted to the radio navigation, including the use of the Flight Information Manual and ATC procedures. Prerequisite: CAPI 2300.

CAPI 2308 Instructor Rating

(2.5-1.6) Credit: 3

This flight course prepares the experienced pilot for the FAA Certified Flight Instructor Certificate for airplane. Includes 25 hours of dual flight and 40 hours of oral instruction and briefings. Prerequisite: Commercial Pilot Certificate.

CAPI 2309 Airline Transport Pilot

(1.7-1.7) Credit: 3

The Airline Transport Pilot Rating is the most comprehensive rating issued by the Federal Aviation Administration. Flight and ground training to qualify for the instruction is provided, which includes 25 hours of dual flight, two flight hours for the FAA Check Flight and 27 hours of oral instruction and briefings. Prerequisites: First Class FAA Medical Certificate: Age 23; 1,500 hours of approved flight time; and Instrument Rating.

CAPI 2310 Commercial Transition Flight I (.8-3.1) Credit: 3 This is the first half of two courses to transition Commercial Rotorcraft Helicopter Pilots to Commercial Airplane Single Engine Land Rated Pilots. The course covers 63 hours of instruction which includes 20 hours of dual flight with one hour in the simulator, 30 hours of solo flight, and 13 hours of oral instruction and briefings. Prerequisites: FAA Commercial Rotorcraft Helicopter Rating, Class II FAA Medical and CAPI 2300 or concurrent enrollment.

CAPI 2311 Commercial Transition Flight II (.8-3.1) Credit: 3 A continuation of Commercial Transition Flight I to complete the requirements for a Commercial Single Engine Land Aircraft Rating. The course consists of 63 hours of instruction, which includes 30 hours of dual flight, of which 5 will be in the simulator, and 5 hours in a complex aircraft; 20 hours of solo flight with 5 hours in a complex aircraft, and 13 hours of oral instruction and briefings. Prerequisite: CAPI 2310.

CAPI 2312 Instrument Flight Instructor

(1.4-1.4) Credit: 3

A program of advanced flight training to prepare the experienced Instrument Pilot to pass the FAA requirements for the Instrument Flight Instructor Certificate for airplane. A minimum of 44 hours of instruction is provided, including 20 hours of dual flight and two hours of FAA check flight and 22 hours of oral instruction and briefings. Prerequisite: Certified Flight Instructor Certificate and Instrument Rating.

CAPI 2313 Multi-Engine Flight Instructor (1.4-1.4) Credit: 3 This course is designed to prepare an applicant for the FAA Multi-Engine Flight Instructor Flight Test. A minimum of 40 hours of instruction is provided, including 20 hours of dual flight instruction, two hours for the FAA check flight and 22 hours of oral instruction and briefings. Prerequisites: FAA Multi-Engine Rating and FAA Flight Instructor Single-Engine Land Rating.

CAPI 2314 Commercial Helicopter Rating (.9-3.2) Credit: 3
Additional Category Commercial Helicopter Rating Course. A minimum of 66 hours of instruction is provided, including 30 hours of dual instruction, 20 hours solo, and 15 hours oral instruction and briefing; and one hour for the FAA check flight. Prerequisite: FAA Commercial Pilot Rating Single-Engine Land.

CAPI 2315 Helicopter Instructor Rating (2.5-1.6) Credit: 3 This course prepares a pilot that is helicopter rated for the FAA Certified Flight Instructor Certificate for helicopter. This course includes 40 hours of ground training and 25 hours of instructor training, which involves 20 hours of dual flight in a helicopter, and 5 hours of practice ground instruction by the student. Prerequisite: Commercial Pilot Certificate with a helicopter category rating.

CAPI 2316 Cessna Citation Type Rating (2.5-.6) Credit: 3 This course prepares a pilot to obtain the Cessna Citation Type Rating and as an option an airline Transport Pilot Rating. There is 40 hours of classroom instruction and a minimum of 10 hours flight instruction in the Cessna Citation aircraft. Prerequisite: Commercial Pilot Certificate with instrument and Multi-Engine Rating.

Chemistry (CHEM)

CHEM 1401 General Chemistry I

(3-4) Credit: 4

The first of two courses for science related majors, this course covers the basics of atomic and molecular structure, bonding, states of matter, solutions, and some descriptive chemistry. Emphasis is placed on solutions to chemical problems. A basic knowledge of algebra is required.

CHEM 1402 General Chemistry II

(3-4) Credit: 4

The second of two courses for science related majors, this course covers equilibrium processes, acid-base concepts, elementary thermodynamics and kinetics, electrochemistry, nuclear chemistry, and descriptive chemistry of some families of elements. Chemistry 1401 is a prerequisite.

CHEM 1404 Introduction to General Chemistry (3-3) Credit: 4

This course is designed primarily to satisfy the requirements of nursing students seeking a B.S. degree or background for physiology. The course covers the fundamentals of general and descriptive chemistry with applications from medicine, modern living, agriculture, etc. It is also suitable for non-science majors who need a laboratory science credit. It also serves as background for those who have no chemical background.

CHEM 2401, 2402 Organic Chemistry I & II (3-4) Credit: 4,4

This course provides a thorough foundation in organic chemistry. A mechanistic approach is used. The student is introduced to planning of syntheses in lecture. The laboratory introduces students to basic techniques, synthesis of compounds and instrumental analysis. The course is designed for science majors and minors. Prerequisite: CHEM 1401, 1402, or consent of the instructor. CHEM 2402 has a prerequisite of CHEM 2401.

CHEM 2403 Quantitative Analysis

(3-4) Credit: 4

This is the study of theory and practice of chemical analysis. The study of errors is introduced. Simple instrumental methods of analysis are introduced. The course is intended for science majors and minors and medical technology majors. The course includes three hours of lecture, and four hours of laboratory per week. Prerequisite: CHEM 1401 or CHEM 1402.

CHEM 2404 Physiological Chemistry

(3-3) Credit: 4

A study of organic and physiological chemistry for nursing students interested in the processes of life. Basic principles, nomenclature, principal reactions and methods of synthesis and the major classes of physiologically important compounds are studied. Prerequisite: CHEM 1404.

Child Development (CHDV)

CHDV 1301 Introduction to Child Development (3-0) Credit: 3 This course covers the history, philosophy, and ethics of child care, types of child care, facilities, laws and standards that are applicable to child care centers. Emphasis is placed on the responsibilities and duties of the child care worker. Experiences are gained in how to provide for the child's health needs and how to make the child care center a safe place for children.

CHDV 1302 Infant and Toddler Care

(2-2) Credit: 3

This course emphasizes the skills required to care for children from birth to three years of age. It shows how the relationship of the primary caregiver to the child influences the physical, emotional, social, and cognitive development of the child. It will also include a study of the infant during the neonatal period and birth, infant stimulation, and the years of the turbulent toddler.

CHDV 1303 Learning Programs

(2-2) Credit: 3

This course is designed to provide the student with knowledge of methods of planning a curriculum and daily schedule for young children by providing opportunities for young children to actively participate in experimental and problem solving activities and by using material to provide the greatest scope of experiences and learning.

CHDV 1304 Developmental Language

(2-2) Credit: 3

The objective of this course is to provide the student the knowledge and skills to develop the language ability of young children. Practical experiences are gained in teaching language activities in a child care center. Emphasis is placed on developing special materials and

techniques for bilingual and multi-cultural children.

CHDV 1305 Instructional Aids

(2-2) Credit: 3

This course is designed to instruct child care personnel and teachers' aids in the proper operation of various types of audiovisual equipment and the handling of associated materials. Students will also become familiar with resources for free materials and how to construct simple training aids such as bulletin boards, mobiles, picture mounting and laminating.

CHDV 1306 Physical Development & Disorders (2-2) Credit: 3 in Children

Normal motor development and techniques for screening young children for motor skills development. Methods and materials for assisting children with physical disabilities and for promoting activities of daily living.

CHDV 1307 Techniques for Child Guidance (2-2) Credit: 3 for the Special Child

Normal development of emotional responses in children; understanding emotional behavior disorders in children; techniques for screening children for emotional difficulties; methods and materials for assisting children with emotional disabilities.

CHDV 1308 Creative Expression

(2-2) Credit: 3

Creative activities, both structured and unstructured, in arts, crafts, music, dance, literature, storytelling, dramatic play and recreational play, are covered in this course. Practical experiences are gained by working with the young in a child care center.

CHDV 1309 Child Guidance & Classroom (2

(2-2) Credit: 3

Techniques

This course provides a survey of current practices, techniques and innovations in child guidance (discipline), and classroom management as they apply to early childhood behavior. Direct and indirect methods of managing the individual child or group of children in a classroom setting includes behavior modification and other strategies of intervention and prevention.

CHDV 2101 Child Development Seminar

(1-0) Credit: 1

A course that deals with trends and advancements in Child Development. When used in the Child Development Associate Program, this course will provide instruction on preparing a portfolio and preparing for assessment.

CHDV 2301 The Exceptional Child

(2-2) Credit: 3

This course is designed to provide a basic knowledge of the child with behavioral problems. The special problems of mental retardation and conditions such as autism are included. Practical experiences at a child care center will cover etiology, diagnosis, characteristics and the daily and long-term management of the exceptional child. Prerequisite: CHDV 1301 or approval of the Department Manager.

CHDV 2302 Parent-Child Relationships (3-0) Credit: 3

This course is a study in parent-child experiences and responsibilities and how they affect child behavior and development. Emphasis placed on experiences to stimulate a positive identification for family and self-concept, through thinking and reasoning skills, and a positive attitude toward behavior management at each age and stage of development. Included is a study of the abused and neglected child.

CHDV 2303 Managing Child Care Centers (2-2) Credit: 3

This course covers the practical aspects of managing a day care center. The main emphasis is placed on developing a management system of a child development center that would include budgeting, record keeping, planning for effective facility and equipment management, development of admission policies and procedures, assuring the health and safety of children in care, managing a center's food service and nutrition program, staffing for quality child care, understanding the legal aspects of child care; planning for staff development and evaluation and encouraging parent-staff relationships. Prerequisite: CHDV 1301 or approval of the Department Manager.

CHDV 2304 Management Techniques for Directors (2-2) Credit: 3
This course covers the theoretical aspects of managing an early childhood program. The main emphasis is placed on formulating and implementing goals and objectives, problem solving,

delegation and decentralization, leadership styles, time management, supervising change, increasing staff morale and motivation, preventing burnout, personnel counseling handling conflict, and theories and functions which are essential to running a child care center. Prerequisite: CHDV 2303 or approval of the Department Manager.

CHDV 2305 Methods of Teaching Math & Science (2-2) Credit: 3
in Early Childhood

Emphasis is placed on strategies, activities, materials for teaching mathematical and science concepts, and skills for early childhood. This course includes identifying, classifying, sequencing, ordering and predicting cause/effect relationship skills for preschool children. Science activities as presented will stimulate the child's cognitive growth. Methods are presented that will assist three to five year olds to discover information about their natural and man-made world. Prerequisite: CHDV 1303 or approval of the Department Manager.

CHDV 2401 Learning Theories Seminar (1-15) Credit: 4 & Internship

This course includes on-the-job experiences with opportunities for direct involvement in an approved program activity for the child development major. In addition to the practicum, seminar time is spent with community resource persons. Prerequisite: Sophomore standing in the Child Development program.

CHDV 2402 Special Projects

(1-15) Credit: 4

This course is designed to allow the advanced Child Development student the opportunity to undertake a project that involves working with pre-school age children. The area of specialization would be selected and performed under the supervision of the instructor. Prerequisite: Sophomore standing in the Child Development program.

Communications

(See English)

Communications Electronics Technology (ELTE)

ELTE 0301 Technical Mathematics I (3-0) Credit: 3 A study of the basic concepts of math and algebra and the use of the electronic calculator in

problem solving. Classified as a Developmental Course.

ELTE 1150 Power Generator Maintenance (1-2) Credit: 1

This course will provide the student with proper maintenance skills to accomplish required

periodic maintenance.

ELTE 1151 Radio Maintenance Procedures (1-3) Credit: 1
This course is designed to provide technical knowledge of servicing and repair of Tactical Radio

Sets, AN/PRR-9, AN/PRT-4 (A) Radio Sets. (Helmet Radios)

ELTE 1302 Technical Mathematics II (3-0) Credit: 3

A study in the solution of trigonometric problems through the use of tables and the electronic

A study in the solution of trigonometric problems through the use of tables, and the electronic calculator. Prerequisite: MATH 1301 or MATH 1302.

ELTE 1303 Assembly Methods (1-5) Credit: 3 A study of modern assembly methods and practices used in industry, including the design, layout, and construction of electronic apparatus.

ELTE 1400 Basic Electricity (3-3) Credit: 4
A study of basic electrical circuits involving both resistive and reactive circuits and their solution through the use of Ohm's Law, Kirchoff's Law, Thevenin's, Norton's and the Superposition

Theorems as well as the power formula.

ELTE 1401 Electrical Circuits I (3-3) · Credit: 4

The first of a two course study of electrical circuitry. This course includes a study of the elementary principles of electricity. It includes coverage of DC topics such as elementary physics, Ohm's Law, series and parallel resistive networks, and a power formula; and AC topics such as power generation, inductive and capacitive, waveform types, and voltage measurements. It also includes the study and use of analog and digital multimeters, power supplies, and an

introduction to the oscilloscope and AC generator.

ELTE 1402 Electrical Circuits II

The second course in the study of electrical circuitry. This course includes alternating current topics such as single and polyphase systems, impedance calculation, resonant circuits, transformers, and an in-depth study of the use of the triggered-sweep oscilloscope. Prerequisite: ELTE 1401.

ELTE 1403 Solid State Electronics

(3-3) Credit: 4

Credit: 4

(3-3)

A study of the active electronic devices (ie. diodes, transistors, etc.) and their more common circuit applications. This course covers circuit design methods of simple power supplies, amplifiers, relaxation oscillators, and switching circuits. This is a technical course requiring a working knowledge of simple algebra. Prerequisite or Corequisite: ELTE 1402.

ELTE 1404 Communications Circuits I

(3-3) Credit: 4

A study of those basic circuits used throughout industry today. Prerequisite or Corequisite: ELTE 1403.

ELTE 1450 Semiconductor Fundamentals

(3-3) Credit: 4

An introduction to semiconductors. This course covers concepts and precautions concerning semiconductors, transistor circuits, transistor equivalent circuits, transistor characteristics as well as specification interpretation and biasing on special purpose transistors and diodes.

ELTE 1501 Basic Electricity for Electronics

(4-3) Credit: 5

A study of the elementary principles of electricity including voltage, current, resistance, power, magnetism, Ohm's Law, power formulas as related to complex series, parallel, and series-parallel circuits and the use of Kirchoff's Law and Thevenin's and Norton's theorems in their analysis. Also covered will be an introduction to inductance, inductive reactance, capacitance, capacitive reactance as applied to simple series and parallel circuits. Mathematic topics covered will include decimals, fractions, scientific notation, roots, powers, exponents, simultaneous equations, powers of ten, percentages and an introduction to trigonometry.

ELTE 1503 Advanced Electricity for Electronics (4-3) Credit: 5 A study of AC circuits containing inductive and capacitive reactance combined with resistance for single and polyphase sources and the application of laws and theorems for solving these complex circuits. Math topics covered in this course include trigonometry, efficiencies, impedance matching, inductive and capacitive reactance, Pythagorean theorem, resonant circuits,

power factors, logarithmic and mathematical tables. Prerequisite: ELTE 1501.

ELTE 2103 Individualized Research (1-0

(1-0) Credit: 1

This course allows the student to prepare the backup and research that is necessary in order for the student to complete ELTE 2303.

ELTE 2250 Tactical Communications

4) Credit:

This course is designed to provide training and career development for the tactical communications systems operator/mechanic (MOS 31V) on specific communications equipment and components.

ELTE 2251 Field Radio Repairer Course MOS 31E (1-4) Credit: 2 This course is designed to provide basic refresher training in Field Radio Repair and Maintenance at the organizational level, and to introduce new equipment and test and repair procedures.

ELTE 2301 Broadcast Equipment Maintenance (1-6) Credit: 3
The operation, preventive maintenance procedures, and trouble-shooting of modern day radio and television broadcast equipment. The course gives the student that much needed practical experience that can only be gained in a live station atmosphere. Prerequisites: ELTE 1404 and ELTE 2407 and the approval of the Department Manager.

ELTE 2303 Special Intensive Study

(0-9) Credit: 3

An intensive study in the design, theory of operation, and construction techniques used in a project which holds special interest to the student and is in the field of his/her major. A student obtaining a second or third degree must repeat the course with emphasis and project related to the discipline in which the degree is to be awarded. The student must be eligible for graduation at the end of the semester in which this course is taken. Prerequisites: ELTE 2103 and the approval of the Department Manager.

ELTE 2402 Advanced Test Equipment (3-3) Credit: 4

Includes the use and normal user calibration techniques for all phases of Electronic Test Equipment from the very simple to the most advanced. Prerequisite: ELTE 1403.

ELTE 2405 Satellite Systems

(3-3) Credit: 4

This course provides the student with the knowledge of operation and theory of Satellite Receiving Systems. The detailed theory covers such areas as transmission up linking, down linking, overall systems block diagram antennas and motor controllers, single and double conversion systems, receiver theory; operation of general trouble-shooting procedures, L.N.A. and down converters. There is also emphasis placed on antenna installation and alignment procedures. The student will be responsible for setting up a complete system from antenna alignment to receiver hook up to a television set.

ELTE 2406 Integrated Devices

(3-3) Credit: 4

An advanced study of the many types of ICs in use today. The course will include digital, linear, and LED type devices. Course will also include application and application design. Prerequisites: ELTE 1403 and CMET 1401.

ELTE 2407 Communications Circuits II (3-3) Credit: 4 A study of communications circuits necessary for the successful acquisition of the FCC first class license. Prerequisites: ELTE 1403, 1404.

ELTE 2408 Industrial Electronic Control Circuits (3-3) Credit: 4 A study of special purpose electronic control circuits and systems as applied by industry today. This course will include theory and operation, maintenance, diagnostic trouble-shooting, and repair of these special purpose circuits. Prerequisite: ELTE 1403.

ELTE 2409 Electronic Systems Trouble-shooting (3-3) Credit: 4 This course includes theoretical and practical laboratory assignments in the study of techniques used in signal tracing and logical circuit diagnosis of different types of analog electronic systems. Prerequisite: CMET 1409.

ELTE 2410 Radio Systems

(3-3) Credit: 4

An in-depth study of the circuitry, both discrete and integrated, used in today's AM and FM tuner amps, including both two and four channel multiplexing. Prerequisite: ELTE 1403.

ELTE 2411 Electronic Internship I

(1-20) Credit: 4

This course consists of on-the-job electronic training that utilizes the principles, skills and knowledge gained in the theoretical setting of the classroom. The student is employed at an approved work station under the supervision of the College Electronics Coordinator. Prerequisites: CMET 1400, CMET 1401, ELTE 1401 and Prerequisite or Corequisite: ELTE 1402 and ELTE 1403.

ELTE 2421 Electronic Internship II

(1-20) Credit: 4

This course is a continuation of Electronic Internship I. Prerequisite: ELTE 2411 and Prerequisite or Corequisite: CMET 1409.

Computer Electronics Technology (CMET)

CMET 1400 Electronics & Computer Skills (2-4) Credit: 4 A study of modern electronic construction techniques, including the use of hand tools and

fabrication equipment. The course will also include an introduction to basic computer hardware and programming.

CMET 1401 Digital Circuits

(3-3) Credit: 4

A study of the basic gates and gating networks used in digital circuits, and an intensive study of Boolean Algebra, as well as the theory and operation of flip-flop, registers, and counter circuits. The course also covers numbering systems, arithmetical circuitry, and elements of control circuits.

CMET 1403 Computer Systems & Operational (3-3) Credit: 4
Programming

The study of the theory of the operation of several computer systems, to include instructions, an introduction to their logic diagrams, and circuit schematic, programming as a trouble-shooting tool, and operational characteristics.

CMET 1404 Fundamentals of Robotics

(3-3) Credit: 4

An introduction to terminology, theories, and technology, involving all types of robotics and tendons, both general and industrial oriented. Prerequisites: ELTE 1401, CMET 1401, Corequisite: ELTE 1403.

CMET 1409 CRT Systems

(3-3) Credit: 4

A study of the vertical and horizontal scanning circuits video amplifiers and other related circuits encountered in the most common video display systems. The course includes theory of circuit operation and practical laboratory exercises in trouble-shooting. Prerequisite: ELTE 1403.

CMET 2401 Microprocessors & Microcomputers (3-3) Credit: 4 A study of modern day microcomputer techniques includes eight and sixteen bit machines. Both the S-100 and 6800 bus structure will be studied as well as the use of emulation in the design and repair of a microcomputer system. Prerequisite: CMET 1401.

CMET 2402 Computer Circuit Analysis

(3-3) Credit: 4

A comprehensive study of the clock and pulse generation circuit, wave-shaping circuits, trigger and control circuits, and synchronization and counting circuits, as well as other circuits used in modern-day computer. Prerequisites: CMET 1401 and CMET 1403.

CMET 2403 Interfacing Techniques

(3-3) Credit: 4

The study of selected machine interfacing techniques, to include CRT, printer and other electronic apparatus. Prerequisites: ELTE 1403 and approval of the Department Manager.

CMET 2404 Computer System Diagnosis &

Maintenance

(3-3) Credit: 4

The operation, preventive maintenance procedures, and trouble-shooting of modern-day computer equipment, to include the study of advanced diagnostic programming, including the finding, documenting, and repairing of computer malfunctions. The course gives the student the much-needed practical experience that can only be gained in a live computer atmosphere. Prerequisite: CMET 2402 or equivalent.

CMET 2405 Tendon Control & Implementation (3-3) Credit: 4 A study in the use of microprocessors to control both fluidic and pneumatic systems used in robotic and tendon type systems, as well as the study of DC and AC motors and motor control for movement, and positioning. Prerequisite: CMET 1404.

CMET 2406 Robotic Implementation

(3-3) Credit: 4

A study in data acquisition, handling, and conversion for use in movement, detection, and voice synthesis in advanced robotic systems. Prerequisite: CMET 2405.

CMET 2407 Data Communications

(3-3) Credit: 4

An introductory course dealing with all aspects of modern data communication including networking, interfacing (to include RS232-C, MIL standard 188-C 100/114, RS-449, RS-422, RS-423), data transmission (synchronous, asynchronous), modems and modulation techniques, data codes (EBCDIC, ASCII, BAUDIOT) protocols, and multiplexer. Prerequisites: CMET 1401 and ELTE 1402, Corequisite: ELTE 1403.

CMET 2408 Digital Communications

(3-3) Credit: 4

This course is designed to allow the student to become proficient in all aspects of digital communications. It will begin with a concentrated investigation of digital modulation and digital transmission. The most common modulation schemes used in modern systems - FSK, PSK, and Quadrature Amplitude Modulation (Eight and Sixteen) will be covered in-depth. Also included is a study of the numerous data communications concepts, including transmission methods, circuits, topologies, error control mechanisms, and data formats. Included is an in-depth study of local area networks, digital transmissions techniques, including PCM, sampling encoding and commanding. Time-division multiplexing, adaptive delta modulation PCM, and differential PCM are covered in detail. The North American Digital Hierarchy for digital transmissions is outlined, including line encoding schemes, error detection/correction methods, and synchronization techniques. Prerequisite for this course is CMET 2407.

Computer Science (COSC)

COSC 1300 Computer Information Processing (3-0) Credit: 3
An up-to-date survey of computer hardware and software systems and developments that will

An up-to-date survey of computer hardware and software systems and developments that will provide the basis for further advancements in information processing. Provides a comprehensive overview of the computer; what it is; what it can and cannot do; how it operates; and how it may be instructed to solve problems. Covers terminology and examines the application of a broad range of organizational settings and social environments. An overview of BASIC programming is provided. Prepares non-computer majors to understand and utilize computers in both their personal and professional lives.

COSC 1302 Data Entry/Terminal

(2-3) Credit: 3

A course designed to train terminal data entry operators. Actual on-the-job type data entry will be performed by the student using on-line video display terminals. Accuracy and speed are stressed. Also covered are different types of data entry systems and the design of source documents and screen formats. Prerequisite: Typing speed of 30 wpm.

COSC 1306 Introduction to BASIC

(2-3) Credit: 3

Offers an introduction to the basic concepts and constructs of programming in BASIC for the student interested in using a computer at home, in a small business or as a tool in a subject area such as math or science. Applications will illustrate personal computing techniques.

COSC 1307 Introduction to Computer Concepts (3-0) Credit: 3 An overview of applications of computers. The course describes major computer system components, stresses the process of information system development, strengths and limitations of the application of computer technology, and the relationship between the user of computer and information systems with the technical specialist.

COSC 1401 Computer Operations

(3-3) Credit: 4

& Library Management

Provides the student with knowledge of duties and responsibilities of a computer operator and tape librarian. Training is provided to develop the student's ability to work in a computer center.

COSC 1402 Advanced Operations Lab

Credit: 4

This course consists of supervised work in a computer center. The students learn to operate the computer and peripheral equipment. Prerequisite: COSC 1401. Corequisite: COSC 2403 and approval of the Department Manager.

COSC 1403 Introduction to Computer Science & Programming

(3-3) Credit: 4

(1-15)

Introductory programming course for Computer Science majors. No prior knowledge of computers or programming assumed. Problem solving, algorithm development, pseudo code, and flowcharting. A high-level language is covered in-depth through programming assignments.

COSC 1404 COBOL Programming

(3-3) Credit: 4

Provides the student with skills and fundamentals in solving business data processing problems using COBOL. The student becomes effective in COBOL programming techniques involving sequential files. Single and double dimension table handling, control breaks, and an introduction to VSAM (Indexed) file handling. Prerequisite: COSC 1403.

COSC 1405 Computer Concepts and Analysis (3-3) Credit: 4 Introduces the student to digital computer systems with emphasis on current technology and terminology. Historical development of computing machinery, number systems, data representation, hardware and software are discussed. Methods of identifying business problems best suited for computer solutions and the analysis techniques to develop systems which implement these applications are presented.

COSC 1406 Computer Organization & Architecture (3-3) Credit: 4 A study of hardware and software characteristics of digital computers, designed to give the student an understanding of how the fundamental principles by which computers work affect and govern programming techniques. Topics include data representation, machine instruction types, fetch and execution cycles, interrupt schemes, metaprograms, I/O handling, and assembler concepts. Prerequisites: COSC 1403 and COSC 1405.

COSC 1407 RPG Programming

(3-3) Credit: 4

Report Program Generator, a problem oriented language involving fixed program logic, file description, input, calculation, output of practical business oriented problems on card, tape, and disk systems. Prerequisite: COSC 1403.

COSC 1408 Interactive Programming

(3-3) Credit: 4

Provides a general background in conversational computing and a detailed study of the BASIC language. Algorithm development, programming efficiencies, and file organization for the interactive/conversational environment are stressed. Prerequisite: COSC 1403.

COSC 2110 Topics in Computer Science Laboratory

(0-3) Credit: 1

Laboratory for COSC 2310 when topic has a laboratory requirement. Prerequisite: Concurrent enrollment in COSC 2310.

COSC 2301 Computer Center Management (3-0) Credit: 3 Planning, organizing, and controlling data processing installations. Managerial aspects in the introduction and use of computer systems and management concepts. Prerequisite: 12 hours of Computer Science.

COSC 2310 Topics in Computer Science

(3-0) Credit: 3

Study of recent developments and topics of current interest in computer science. Prerequisite: 12 hours computer science or the approval of the Department Manager.

COSC 2401 Advanced COBOL

(3-3) Credit: 4

Offers the student of COBOL programming an in-depth study of the theory, programming techniques, and programming efficiencies that will be required of the commercial COBOL programmer. A thorough coverage is given to file design and the special features of ANSI COBOL language. Emphasis is placed on multi-dimensional table handling, searching and sorting techniques, and VSAM (Indexed) file manipulation. Structured design and programming will be stressed. Programming assignments will require detailed knowledge of necessary Job Control Language (JCL) for program execution. Prerequisites: COSC 1404, COSC 2403, and COSC 2404.

COSC 2402 Systems In The MIS Environment (3-3) Credit: 4 This course examines advanced systems including data base, distributed processing, teleprocessing, local area networks, management information systems and decision support systems. Emphasis will be placed on database management systems through the development of a data base project. Prerequisite: 16 semester hours Computer Science including COSC 1405.

COSC 2403 Operating Systems and Job Control (3-3) Credit: 4 Language

A study of computer operating system concepts including major software components and their functions. An in-depth coverage of Job Control Language and/or command language. Use of utilities for data set maintenance and manipulation of system control information. Prerequisites: COSC 1404 and COSC 1406 or COSC 1401 and concurrent enrollment in COSC 1406.

COSC 2404 Assembler Language Programming (3-3) Credit: 4 Assembler language programming for the current college system. Programming of business oriented problems. Emphasis on use of assembler tools for abend resolution. Prerequisites: COSC 1404 and COSC 1406.

COSC 2405 Information Structures

(3-3) Credit: 4

Advanced programming techniques to include two and three dimensional arrays, linked lists, index structures, binary search, sorting techniques, direct access processing and subroutines. Programs will be written in a high-level language. Prerequisite: Eight semester hours programming.

COSC 2407 PL/1 Programming

(3-3) Credit: 4

Business and scientific computer applications are developed using PL/1. Emphasis is placed on advanced programming concepts. Prerequisite: COSC 1404.

COSC 2408 CICS Programming

(3-3) Credit: 4

An introduction to programming for the teleprocessing environment under CICS. Applications will be written and tested on-line. Prerequisites: COSC 1404 and 2404.

COSC 2409 Field Projects

(1-9) Credit: 4

This course provides the student with an opportunity to utilize the knowledge acquired in his/her academic program by designing, planning, developing, and implementing an activity directly associated with a real computing/data processing environment. Prerequisite: Consent of Instructor.

COSC 2410 Systems Analysis and Design (3-3) Credit: 4

Study of structured systems development. Emphasis on tools and techniques of systems analysis and design for producing logical methodologies for dealing with complexity in the development of information systems. Prerequisites: COSC 1405 and eight semester hours of programming.

COSC 2414 Data Communications and Networking (3-3) Credit: 4 A study of the methods and criteria used to define and implement data communications and networking of present day computer systems. Topics include data transfer, communications hardware and software, security, local area networks, micro to mainframe interfaces, current and future applications of data communications. Prerequisites: COSC 2403 and COSC 2404.

Consumer Electronics Technology (COES)

COES 2301 TV Shop Practices

(1-6) Credit: 3

An in-depth study of basic procedures used in the modern TV shop, includes record keeping, stocking and ordering procedures, shop management, and advanced techniques of TV repair. Prerequisite: CMET 1409, or equivalent.

COES 2408 CATV and Audio Distribution Systems (3-3) Credit: 4

A two-part course consisting of a study of commercial P.A. or sound reinforcement systems, and a study of large scale T.V. "Cable systems" and small scale antenna distribution systems. This course includes some on-the-job training with commercial companies. Prerequisite: ELTE 1403.

COES 2409 Advanced Television Servicing

(2-4) Credit: 4

The operation and service of the more complicated television receiver-circuits are covered in this course. Special attention is given to the use of techniques and equipment for the most economical solutions to difficult problems. Includes an introduction to transistorized and color television. Prerequisite: CMET 1409.

Cosmetology (COSM)

COSM 1401 Facial Specialist I

(2-4) Credit: 4

This course introduces the student to theory of facial treatments and the techniques and methods of facial massage. It also includes anatomy of the face and neck, chemistry in facials, sanitation and safety measures and professional practices. This is a 96 contact hour course.

COSM 1402 Facial Specialist II

(2-4) Credit: 4

This is a continuation of COSM 1401. It will include instruction and practice on how to recognize skin conditions and disorders. This is a % contact hour course. Prerequisite: COSM 1401.

COSM 1403 Facial Specialist III

(2-5) Credit: 4

This is a continuation of COSM 1402. This is a 112 contact hour course. Prerequisite: COSM 1402.

COSM 1501 Manicurist

(3-6.4) Credit: 5

This course trains the student in all facts of manicuring. It covers the anatomy of the arms and hands, the chemistry involved in manicuring, sanitation and safety methods professional practices, equipment and procedures and techniques used by the manicurists. This is a 150.4 contact hour course.

COSM 1601 Orientation and Introduction (4-12) Credit: 6 to Cosmetology

An introduction course in the field of cosmetology. The course includes an orientation to cosmetology and the development of related skills, knowledge and attitudes necessary for a cosmetologist. Shampoos and hair and scalp treatment are covered. This is a 256 contact hour course.

COSM 1602 Basic Cosmetology

(4-12) Credit: 6

A continuation of COSM 1601. The course continues practice and discussion of shampoos and hair and scalp treatment and introduces cold waving and chemical hair relaxing. This course will develop an appreciation for safe work habits and orderly and systematic procedures for accomplishing skills and tasks required of an operator. This is a 256 contact hour course. Prerequisite: COSM 1601 or concurrent enrollment.

COSM 1603 Hair Coloring and Basic Cosmetology (4-12) Credit: 6 A continuation of COSM 1602. Hair coloring to include wigs and hairpieces, hairstyling, haircutting, and related skills are covered. This is a 256 contact hour course. Prerequisite: COSM 1602 or concurrent enrollment.

COSM 1604 Hair Styling, Manicuring and Basic (4-12) Credit: 6
Cosmetology

Instruction covers hairstyling, nail care and skin care. The students practice the basic manipulative skills required for hairstyling, the care and styling of wigs and manicuring. This is a 256 contact hour course. Prerequisite: COSM 1603 or concurrent enrollment.

COSM 1605 Facial Treatments and Basic Cosmetology

(4-12) Credit: 6

A continuation of COSM 1604. This course will also cover the theory and techniques and procedures involved in facial treatments. This is a 256 contact hour course. Prerequisite: COSM 1604 or concurrent enrollment.

COSM 1606 Preparation For The State Board (4-12) Credit: 6
and Basic Cosmetology

This course is a continuation of COSM 1605. This course will stress rules, regulations and preparation for the Texas Cosmetology Commission licensing examination. This is a 256 contact hour course, and it completes the 768 contact hour program required by Texas Cosmetology Commission. Prerequisite: COSM 1605 or concurrent enrollment.

COSM 2201 Advanced Operator Seminar (1.5-0) Credit: 2

This course is designed to keep licensed operators abreast of new developments, trends, current major issues and legal, professional and other important factors that have an impact upon the field of cosmetology. This is a 24 contact hour course. Prerequisite: Cosmetology Operators License.

COSM 2301 Instructor Orientation (3-0) Credit: 3

This course is an introduction to teaching cosmetology. It covers the methods and techniques used by the training instructor, and the materials, equipment, various contracts, applications and examination forms used by the Texas Cosmetology Commission. The student will also learn the rules and regulations of the College, how to prepare lesson plans, how to plan class lectures and presentations, how to prepare examinations, and the student will observe class lectures presented by licensed instructors. This is a 48 contact hour course. Prerequisite: Cosmetology Operators License.

COSM 2801 Clinic Management

(8-14) Credit: 8

The student will observe all class lectures, demonstrations and practical exercises and will prepare for the first class lecture. The student is required to prepare a special cosmetology notebook with daily lesson plans. This is a 352 contact hour course. Prerequisite: COSM 2301 or concurrent enrollment.

COSM 2802 Classroom Teaching

(8-14) Credit: 8

During this course the student instructor shall conduct theory and practical classes and will prepare daily lesson plans and examinations on each lesson taught. This is a 352 contact hour course. Prerequisite: COSM 2801 or concurrent enrollment.

Criminal Justice (CRIJ)

CRIJ 1201 Defensive Tactics (1-2) Credit: 2

This course is designed to provide the student with defensive and protective philosophies to better protect the public and criminal justice personnel against illegal force. Techniques of self-

defense, safe arrest procedures, citizen contact, and proper prisoner transportation techniques, along with humane methods of handling disturbed persons, will be presented. The legal and humane use of limited force will be stressed at all times.

Introduction to Criminal Justice (3-0)History, development, and philosophy of law enforcement and criminal justice in a democratic society. Introduction and career orientation to the multifaceted agencies involved in the administration of criminal justice.

1302 Criminal Investigation I (3-0)Credit: 3 Investigative theory; collection and preservation of evidence; sources of information; interviewing and interrogation techniques, uses of forensic sciences; case and trial preparation.

Legal Aspects of Law Enforcement Police authority; responsibilities; constitutional constraints; law of arrest; search and seizure; police liability; examples of case law that currently affect police decisions will be reviewed.

CRIT The Courts and Criminal Procedures 1304 The judiciary in the criminal justice system; structure of American Court System; prosecution; right to counsel; pre-trial release; grand juries; adjudication process; types and rules of evidence, sentencing.

CRII Traffic Law 1305

(3-0)Credit: 3 This course is designed to cover all laws pertaining to the control and enforcement of traffic. The officer is taught the use of spot maps and charts, the techniques of enforcement, and the maintenance of good public relations. An analysis of the Model Motor Vehicle Code is given.

1306 CRII Correctional Systems Credit: 3 and Practices

Corrections in the criminal justice system; organization of correctional systems; correctional role, institutional operations; alternate to institutionalization; treatment and rehabilitation; current and future issues.

CRII 1307 Crime in America (3-0)American crime problems in historical perspective; social and public policy factors affecting crime; impact and crime trends; social characteristics of specific crimes; prevention of crime.

Fundamentals of Criminal Law A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility.

CRII 1309 Police Systems and Practices (3-0)Credit: 3 The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues.

CRII Criminal Investigation II (3-0)Credit: 3 Modern methods and skills required for criminal investigation, to include discovery methods, development and lifting of latent fingerprints; criminal scene sketches; the use of plaster and silicone rubber for reproducing evidence at crime scene; use of modern investigation aids; and techniques of criminal interviews. Prerequisite: CRIJ 1302.

CRII Basic Polygraph Techniques (3-0)Credit: 3 Designed to orient law enforcement students on the basics of polygraph techniques as they apply to case research and preparation; pre-test procedures; polygraph usage in criminal investigations; legality concerning polygraph; and avenues of a polygraphist career. Prerequisite: CRIJ 1302, 1303 or 1304.

CRII 1312 Commissioned Security Officer (2.5-.5)Credit: 3 Course

This course is designed to have the student meet the requirements specifically identified in the State of Texas Commissioned Security Officer Training Manual and the provisions of the Private Investigators and Private Security Agencies Act, Article 4413 (29bb) V.A.C.S. as amended by 65th Texas Legislature.

CRIJ 1314 Community Resources in Corrections

(3-0) Credit: 3

An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs, legal issues, future trends in community treatment.

CRIJ 2101 Emergency Medical Aid

(1-1) Credit: 1

This course will focus on the first aid fundamentals that will be helpful to patrol officers in the event of a first aid emergency situation. Procedures recommended by the American Red Cross will be used as guidelines for this course.

CRIJ 2201 Firearms

(1-2) Credit: 2

This course is designed to introduce the student to the skills and techniques of firearms used in the protection of the public and criminal justice personnel. Students will fire various weapons under precision and police combat conditions. The importance of safe weapons handling and adopting a mature attitude towards firearms will be stressed at all times. The intelligent, legal, and moral use of the police firearms will be emphasized at all stages of teaching and firing.

CRIJ 2301 Probation and Parole

(3-0) Credit: 3

Course will provide the student with some understanding of the evolution of criminal corrections and explore with the student the many avenues which the corrections field branches into. Develop in each student a basic understanding of the various methods of corrections so that they can function efficiently in the field.

CRIJ 2303 Criminal Justice Seminar

(3-0) Credit: 3

A problems course dealing with current criminal justice trends, issues, and literature. Prerequisite: Approval of the Department Manager. This course may be repeated for credit.

CRIJ 2304 Juvenile Procedures

(3-0) Credit: 3

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

CRIJ 2306 Traffic Planning and Administration (3-0) Credit: 3 This course consists of the application of traffic problems from the administrative point of view, including engineering, education, and enforcement at the supervisory level.

CRIJ 2307 Penology (Jail Operation and

(3-0) Credit: 3

Management)

A survey of the basic concepts of penal and correctional rationale as employed by criminal justice administrators. An overview of the operation and management principles of the institutional setting will be examined in-depth.

CRIJ 2308 Patrol Administration

(3-0) Credit: 3

Discussion of the administration of surveys, special problems arising while the officer is on patrol, improvement in patrol methods, observation of persons and things, preventive techniques, methods of handling complaints, and the development of contacts.

CRIJ 2309 Provost Marshal Operations

(3-0) Credit: 3

The principles of organization and administration as applied to the operational system of a military Provost Marshal's office as well as that of the Inspector General's. Practical training in conduct of briefings, management, and attendant qualities of leadership, and some cases of dissident conditions which might impair role and mission of the dissident command.

CRIJ 2310 Correctional Control and Administration (3-0) Credit: 3
The course prepares the student to perform supervisory functions related to control of prisoners and contraband; segregation and accountability of prisoners; procedures required at a correctional facility; emergency measures, prisoner privileges, and the records and reports of the detention center.

CRIJ 2311 Advanced Security Officer Training (2.5-.5) Credit: 3 This course is designed to provide the student with increased working knowledge of security principles and procedures. The student will become familiar with each phase of security. Emphasis will be placed on the security problems as seen through the eyes of a security supervisor.

Dance

(See Physical Education)

Developmental Studies (DS--)

DSCO 0300 Developmental Communications (1-2) Credit: 3 A course offered in a laboratory setting to improve reading comprehension and rate and word recognition. Specific areas of study include syllabication, phonetic analysis, context clues, word elements, sequence, setting, main ideas, drawing conclusions, and making inferences.

DSED 0300 College Study Skills (1-2) Credit: 3
Designed for improvement of study systems. Emphasis is placed on high level study skills and the improvement of time management, effective listening and notetaking, marking tests learning through media, concentration, retention of information, and taking examinations.

DSMA 0101 Basic Developmental Mathematics (1-1.5) Credit: 1 This course helps students prepare to pursue college-level academic work. It uses varied instructional techniques to identify deficiencies and provide a review of fundamental operations in mathematics.

DSMA 0300 Developmental Mathematics I (1-2) Credit: 3 An introductory course including instruction in mathematical operations with rational numbers, the application of measurement systems to geometric problems, and an introduction to basic probability and statistics.

DSMA 0301 Developmental Mathematics II (1-2) Credit: 3 A mathematical approach to consumer-oriented and family living problems, including budgeting, balancing a checkbook, calculating wages and payroll deductions, and completing federal income tax forms.

DSMA 0302 Developmental Mathematics III (1-2) Credit: 3 Developmental mathematics for technical fields, including algebra, integers, mathematical sentences, rational numbers, and polynomials.

DSRE 0101 Developmental Reading (1-1.5) Credit: 1

This course helps students propose for college level and device work. It was varied instructional

This course helps students prepare for college level academic work. It uses varied instructional techniques to help students improve their proficiency in reading comprehension and rate, word recognition and vocabulary development.

DSRE 0300 Reading and Comprehension I (1-2) Credit: 3 A course offered in a laboratory setting, using varied instruction techniques, designed to help students improve their proficiency in reading comprehension and rate, word recognition and vocabulary development.

DSRE 0301 Reading and Comprehension II (1-2) Credit: 3 This course is a continuation of Reading and Comprehension I and places emphasis on further improvement of reading comprehension and rate, word recognition and vocabulary development.

DSSP 0300 Developmental Speech (1-2) Credit: 3
An introductory course emphasizing structure and different techniques of presentation, as well

An introductory course emphasizing structure and different techniques of presentation, as well as principles and methods of discussion. Designed to identify deficiencies and strengths, and to develop and improve interpersonal skills and the student's ability to communicate through effective speech.

DSWR 0101 Basic Developmental Writing (1-1.5) Credit: 1
This course helps a student prepare to pursue college-level academic work. It uses varied instructional techniques to identify deficiencies and improve basic writing skills.

DSWR 0300 Developmental Writing I (1-2) Credit: 3 A course offered in a laboratory setting, using varied instructional techniques, designed to identify deficiencies and improve basic writing skills necessary for the student who intends to pursue college-level academic work.

DSWR 0301 Developmental Writing II

(1-2) Credit: 3

A course in a laboratory setting to develop the ability to locate specific types of material, interpret and summarize information, analyze data and draw conclusions, and to prepare and present the findings in written form.

DSWR 0302 Developmental Writing III

(1-2) Credit: 3

A course designed to extend reading, research, and writing skills. Emphasis is placed on reference materials relating to consumers, including deceptive trade practices, terms used in written contracts, and a wide variety of consumer oriented literature.

Diesel Maintenance

(See Diesel Mechanics)

Diesel Mechanics (DIEM)

DIEM 1150 GOER Operator/Organizational (.6-1.9) Credit: 1 Maintenance

This course is designed to train personnel in operator and organizational maintenance tasks for the GOER family of vehicles. Includes PMCS, familiarization and operation, and organizational maintenance tasks for the family of vehicles.

DIEM 1250 GOER Vehicle Direct Support Maintenance

(1.3-3.8) Credit: 2

(3-3)

This course is designed to train maintenance personnel in Direct Support maintenance tasks for the GOER family of vehicles. Course is performance based, emphasizing hands-on performance tasks on the various systems of the GOER vehicles.

DIEM 1401 Diesel Engine Fundamentals

Credit: 4

This course is designed to provide the student with a working knowledge of the fundamentals of diesel engines. The development, uses, advantages/disadvantages, design, components, operating principles (2-stroke and 4-stroke cycle), diesel fuels, and the combustion process and exhaust emissions will be covered. Emphasis will be placed on operating principles and component function. The student will perform preoperational services, start and stop a diesel engine and identify engine components and systems. Prerequisite or corequisite: INDU 1400.

DIEM 1404 Standard Power Trains

(3-3) Credit- 4

This course is designed to provide the student with a working knowledge of standard power trains. Theory of gears and torque, operating principles, trouble-shooting and service of clutches, standard transmissions and transfer cases, drive lines, differential carriers and axles will be covered. Emphasis will be placed on operating principles, components and service. The student will disassemble, clean, inspect and reassemble clutches and transmissions. Prerequisite: INDU 1400.

DIEM 1405 Diesel Engine Auxiliary Systems (3-3) Credit: 4 This course is designed to provide the student with a working knowledge of diesel engine air induction and exhaust systems, cooling systems and lubrication systems. System designs, operating principles, components, test equipment, and service will be covered. Emphasis will be placed on turbochargers, blowers, trouble-shooting, component removal and replacement and systems testing. The student will trouble-shoot, test, remove, repair and replace components of auxiliary systems. Prerequisites or corequisites: INDU 1400 and DIEM 1401.

DIEM 1406 Diesel Starting and Charging Systems (3-3) Credit: 4 This course is designed to provide the student with a working knowledge of diesel engine starting and charging systems. Principles of electricity, system design, operating principles, components, test equipment and service will be covered. Emphasis will be placed on basic electricity, trouble-shooting, component removal and replacement, test equipment and systems testing. The student will trouble-shoot, test, remove, repair and replace components of starting and charging systems. Prerequisites or corequisites: INDU 1400, DIEM 1401, and DIEM 1405.

DIEM 2400 Hydraulic Systems Fundamentals and Service

This course is designed to provide the student with a working knowledge of hydraulics. Hydraulic principles, pumps, valves, circuits, fluids, cylinders and trouble-shooting will be covered. Emphasis will be placed on hydraulic principles, basic control systems, and trouble-shooting. The student will disassemble, clean, inspect, and reassemble hydraulic pumps, valves, and cylinders. The student will use hydraulic trainers to perform numerous practical exercises on hydraulic principles, control systems and trouble-shooting. Prerequisite: INDU 1400.

DIEM 2403 Diesel Engine Overhaul

(2-4) Credit: 4

This course is designed to provide the student with a working knowledge of diesel engine overhaul procedures. Engine disassembly, cleaning, component inspection and measurements, special tools, reassembly, basic tune-up and run-in will be covered. Emphasis will be placed on component inspection and measurement and basic tune-up and run-in. The student will overhaul diesel engine. Prerequisites: INDU 1400, DIEM 1401, 1405, 1406, 2406, and 2407.

DIEM 2404 Automatic Power Trains

(3-3) Credit: 4

This course is designed to provide the student with a working knowledge of automatic power trains. Operating principles, trouble-shooting and service of torque converters, transmissions, retarders and hydrostatic drives will be covered. Emphasis will be placed on torque converter and transmission service. The student will disassemble, clean, inspect, test and reassemble-assemble, an automatic transmission. Prerequisites: INDU 1400, DIEM 2400, DIEM 1404 or AUTO 1408.

DIEM 2405 Advanced Diesel Engine Service (2-4) Credit: 4

This course is designed to provide the student with a working knowledge of diesel engine service procedures. Trouble-shooting and diagnostic, test equipment, fuel injection pump and service, tune-up, governors, fuel pump and injector timing, and valve adjustment will be covered. Emphasis will be placed on tune-up, governor and rack adjustment, valve timing and fuel pump service and calibration. The student will perform a tune-up on various diesel engines, remove and install fuel injection pumps and injectors, adjust governors and disassemble, clean, inspect, reassemble and calibrate fuel injection pumps. New service and product update topics may be presented in this course. Prerequisites: All Diesel courses or approval of the Department Manager.

DIEM 2406 Diesel Fuel Injection Systems

(3-3) Credit: 4

This course is designed to provide the student with a working knowledge of diesel engine fuel systems. System designs, operating principles, trouble-shooting and test equipment will be covered. Emphasis will be placed on test equipment and injector and nozzle service. The student will remove, test, disassemble, clean, repair, reassemble and install fuel injectors and nozzles. Prerequisites: INDU 1400 and DIEM 1401.

DIEM 2407 Diesel Engine Cylinder Head Service (2-4) Credit: 4 This course is designed to provide the student with a working knowledge of diesel engine cylinder head service. Design, components testing, measurements, test equipment and service equipment will be covered. Emphasis will be placed on valve, seat, and guide service and injector tube replacement. The student will remove, clean, service and reinstall a cylinder head. Prerequisites: INDU 1400 and DIEM 1401.

DIEM 2409 Diesel Internship

(1-20) Credit: 4

This course consists of on-the-job diesel mechanics training that utilizes the principles, knowledge and skills gained in the classroom and laboratory. The student is employed at an approved worksite under the supervision of a College instructor/coordinator.

Drafting and Design (DRDS)

DRDS 1302 Blueprint Reading

(2-2) Credit: 3

The fundamentals of blueprint and sketching as they apply to machine drawing.

DRDS 1303 Architectural Blueprint Reading (2-2) Credit: 3
The fundamentals of blueprint reading for the construction trades. This course includes

familiarization with standard terms, sizes, estimations and commercial practices.

DRDS 1400 Fundamentals of Drafting

(2-4) Credit: 4

An overview of drafting to include shape and size description lettering, geometric construction, multiview projection dimensioning, pictorial drawings, copy reproduction, and the use of equipment essential to the field of drafting.

DRDS 1401 Pictorial Drafting

(3-3) Credit: 4

A course mainly concerned with pictorials. Includes the theory of oblique and isometric drawings. Also covered are one and two point perspectives of shade and shadow application. Prerequisite: ENGR 1301 or DRDS 1405 or concurrent enrollment.

DRDS 1402 Technical Illustration

(3-3) Credit: 4

Introduction to pictorial drawings as used in industrial catalogues, assembly sheets, newspaper publications, and promotional literature. Work to be done in various media to include pencil, ink, transfer tapes, and air brush. Prerequisite: ENGR 1301, DRDS 1401, DRDS 1405 or concurrent enrollment.

DRDS 1403 Machine Drawing

(2-4) Credit: 4

Drawing and manufacturing processes; training in producing various kinds of advanced drawings; commercial practices, and economics; the use of standard parts, sizes, symbols and abbreviations. Prerequisites: ENGR 1301 or DRDS 1405, ENGR 1302 or DRDS 1406, DRDS 1401.

DRDS 1404 Structural Drafting

(2-4) Credit: 4

A study of the AISC specifications and standards; structural theory and data; designing and detailing structural members and connections. Design and development of details and specifications for light industrial structures to include structural steel, pipe, and reinforced concrete rods. Prerequisite: DRDS 1405 or ENGR 1301, DRDS 1406 or ENGR 1302.

DRDS 1405 Technical Drafting

(2-4) Credit: 4

Freehand and instrument drawing, dimensioning, fastening, pictorial methods, charts and graphs, projections drawings, geometry or graphical construction.

DRDS 1406 Applied Descriptive Geometry (2-4) Credit: 4 Involves point, line and plane relationships, auxiliary views, intersections, and flat pattern development. Emphasis is placed on practical solutions to realistic engineering problems relating to aerospace, mining and geology. Prerequisite: ENGR 1301 or DRDS 1405.

DRDS 2350 Applied Statics I

Credit: 3

A study of the principles of mechanics of rigid bodies in equilibrium with emphasis in the areas of friction, centroids, center of gravity and moments of inertia. Prerequisite: MATH 1301 or equivalent.

DRDS 2351 Applied Statics II

(3-0) Credit: 3

A continuation of Applied Statics I. This course covers the application of knowledge and skills relative to the stability of structures and safe loads that can be carried by girders. Activities include computation of the center of gravity of an object when given the appropriate information, a discussion of the variety of materials used and their strength and brief practices on designing equilibrium tools and mechanisms.

DRDS 2401 Pipe Drafting

(2-4) Credit: 4

Design and detailing of pipe systems making use of standard practices and symbols; includes single line, double line, plan profile and isometric drawings of pipe systems. Prerequisite: Sophomore Standing in the Drafting Program.

DRDS 2402 Architectural Drafting

2-4) Credit: 4

A study of the preparation of architectural plans; elevations; sections; site plans; various building details; room finish, door, and window schedules; and structural drawings. Prerequisite: Sophomore Standing in the Drafting Program.

DRDS 2403 Electronic Drafting

(2-4) Credit: 4

A study of layout and preparation of finished electronic and electrical drawings stressing modern representation used for pictorial drawing; wiring and connection diagrams; printed circuits; control circuits, and schematic diagrams. Some review of lettering and mechanical drawing principles. Prerequisite: Sophomore Standing in the Drafting Program.

DRDS 2404 Principles of Design

(3-3) Credit: 4

Theory and practice of design as related to engineering and technology. Analysis in the areas of

architecture, machine design, structural design, and product development. Prerequisites: Second Semester Sophomore Standing in the Drafting Program.

DRDS 2405 Civil Design Drafting

(3-3) Credit: 4

Drafting problems and techniques in civil engineering projects including key maps, drainage, plans and profiles, typical roadway cross sections, earthwork, land development and surveying. Prerequisite: Second Semester Sophomore Standing in the Drafting Program.

DRDS 2406 Industrial Practice

(2-4) Credit: 4

This course is designed to give specialized practice to the student in his major field of interest. The student will complete actual jobs for area industries to gain realistic experience in his chosen career. Prerequisite: Second Semester Sophomore Standing in the Drafting Program.

DRDS 2410 Computer-Aided Drafting I

(2-4) Credit: 4

A course designed to introduce the computer to the student of drafting as another means of preparing detailed drawings. Emphasis is placed on equipment familiarization, graphics/terminal functions and the application of computer graphics to the development of drawings to the standards set by industry. Prerequisites: Sophomore standing in Drafting Program and approval of the Department Manager.

DRDS 2411 Computer-Aided Drafting II

(2-4) Credit: 4

This course is a continuation of DRDS 2410. Emphasis will be placed on the use of the CADAM system as a design and problem-solving instrument. The student will select problems from the drafting field of his choice. Prerequisite: DRDS 2410 and approval of the Department Manager.

Earth Science (EASC)

(See Science)

Electrical Construction and Maintenance (ELEC)

ELEC 1301 Electrical Codes

(2-2) Credit: 3

A study of the national codes and local ordinances to residential and commercial wiring.

ELEC 1401 Low Voltage and Appliance Circuits (2-4) Credit: 4 Wiring practices used in low voltage circuits such as bells, chimes and alarms and in appliance circuits, electric heating, central air conditioning, grounding practices and service layouts.

ELEC 1402 Commercial Wiring

(2-4) Credit: 4

Commercial wiring practices including materials, conduit work, wire pulling and circuit layouts.

ELEC 2401 Lineman Fundamentals I (2-4) Credit: 4 An introduction to the equipment, skills, and techniques required of a lineman to include pole

climbing and special equipment operation.

ELEC 2402 Lineman Fundamentals II

(2-4) Credit: 4

A continuation of ELEC 2401. This course will also include use of equipment and techniques involved in underground cable installation. Prerequisite: ELEC 2401.

ELEC 2403 Control Circuits

(3-3) Credit: 4

A study of terminology, symbols and the development of control circuit diagrams; magnetic starting and overload to include individual and multiple start-stop stations with overload protection; and connecting and testing, jogging and reversing motor controls and sequencing circuits. Prerequisite: ELTE 1403.

ELEC 2404 Single and Three-Phase Transformers (3-3) Credit: 4 A study of the basic transformer fundamentals, the types of transformers, and the selection connection and testing of single-phase and three-phase distribution transformers. Prerequisite: ELTE 1400.

ELEC 2405 Motors and Motor Codes

(3-3) Credit: 4

A study of the national electric code and local ordinances related to motors; characteristics, connection and testing of DC motors and generators and single-phase and three-phase motors.

ELEC 2406 Electrical Planning

(3-3) Credit: 4

Planning the placing of receptacles, switches, lights, appliances, and service entrances, and

material estimating and pricing for residences. Planning the wiring for a commercial building working from blueprints and specification books.

ELEC 2408 Lineman Internship

(1-20) Credit: 4

This course consists of on-the-job lineman training that utilizes the principles, knowledge and skills gained in the classroom and laboratory. The student is employed at an approved worksite under the supervision of a College instructor/coordinator.

ELEC 2409 Electrician Internship

(1-20) Credit: 4

This course consists of on-the-job electrician training that utilizes the principles, knowledge and skills gained in the classroom and laboratory. The student is employed at an approved worksite under the supervision of a College instructor/coordinator.

Data Control Specialist

(See Computer Science)

Emergency Medical Technician (EMET)

EMET 1201 Emergency Medical Technician (1-1)

Supplemental

(1-1) Credit: 2

This course supplements the instruction and course content and types of didactic and practical experiences in EMET 1402. This course in conjunction with EMET 1402, will meet and/or exceed the emergency medical service requirements of all states.

EMET 1302 Military Medicine

(2-2) Credit: 3

This course increases the military medic's ability to provide pre-hospital care in an isolated environment, and prepares the medic in military-specific subjects such as speciality extraction and evacuation; battlefield triage; nuclear, biological and chemical casualty management; preventive medicine; field hygiene and sanitation; as well as specific medical support procedures such as Radio Telephone. Portions of this course may be used to satisfy the National Registry requirements for continuing education. Prerequisite: EMET 1402 or equivalent in MOS 91A, 91B, 91C (Army), HM-0000, HM-8404 (Navy), 902 series (Air Force).

EMET 1303 First Responder

(2-1) Credit: 3

This course prepares the first responder, or medically untrained, to be proficient in not only providing basic life support to victims of emergencies, but also in taking any actions necessary to minimize the patient's discomfort and prevent further injury. This course has been designed to meet the specifications of the Department of Transportation's First Responder Training Course.

EMET 1304 Drug and Alcohol Abuse

(3-0) Credit: 3

This course discusses the physiological and psychological effects of drug and alcohol abuse on the individual, the family and on society. Students learn the symptoms of drug and alcohol abuse and how to recognize them in individuals. The course discusses the problems causing abuse and how to understand and help the user. The course also includes discussion of the organizations available for treatment of the user, their effectiveness and an evaluation of alternate treatment programs.

EMET 1305 Emergency Medical Seminar

(3-0) Credit: 3

This course is designed to keep the Emergency Medical Technician abreast of new developments, trends, current major issues, legal professional concerns, and other important factors that have an impact upon the emergency medical field. This course may be repeated for credit.

EMET 1401 Emergency Medical Technician

(2-4) Credit: 4

The objective of this course is to provide emergency medical theory and skills training to enable the student to function as an emergency medical technician.

EMET 1402 Emergency Medical Technician-Ambulance (2-5) Credit: 4

This course exposes the student to the didactic and practical experiences outlined in the 1986 Department of Transportation's NHTSA curriculum. All of the skills and knowledge elements necessary to deal with the broad spectrum of illness or injury in the pre-hospital phase of care are included.

EMET 1403 Emergency Medical Technician- (2-4) Credit: 4 Recertification

This course covers all didactic and practical experiences covered in courses EMET 1402, 1201 and 1302. Through National Registry approval this course provides the necessary continuing education, CPR, and refresher training requirements needed for national re-certification requirements. Prerequisite: EMET 1402 or certification as an EMT.

EMET 2101 Introduction to Paramedic (1-0) Credit: 1

This course provides an overview of the paramedic's roles in both civilian and military environments, the paramedic's function, legal responsibilities and career opportunities. Prerequisite: EMET 1402 or EMET 1403.

EMET 2301 Disaster Planning

(3-0) Credit: 3

This course is designed to help administrators to prepare emergency operation plans and to train existing personnel to cope with a disaster if it should strike. The course provides valuable information on how to plan and prepare efficient responses to earthquakes, floods, fires, nuclear attacks and other emergency situations. It includes elements of disaster preparation, organization of emergency operations plans, training of personnel, the emergency operations center and coordination with other organizations.

EMET 2302 Emergency Medical Center (3-0) Credit: 3

Management

This course provides the student with an understanding of management theories and functions as they relate to the operations of an emergency medical center. Prerequisite: MGMT 1305.

EMET 2303 Psychology of Emergencies (3-0) Credit: 3

This course covers communicating with families involved in emergencies and the EMTs role in counseling. It also considers personality structures, defense mechanisms, and the developmental stages of man.

Engineering (Civil and General) (ENGR)

ENGR 1101 Introduction to Engineering (1-0) Credit: 1

This course introduces the student to all the engineering fields and the opportunities within the scope of professional work.

ENGR 1301 Engineering Graphics (2-4) Credit: 3

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

ENGR 1302 Descriptive Geometry (2-4) Credit: 3

Involves point, line and plane relationships, auxiliary views, intersections, and flat pattern development. Emphasis is placed on practical solutions to realistic engineering problems relating to aerospace, mining, and geology. Prerequisite: ENGR 1301.

ENGR 1303, 1304 Plane Surveying I and II (2-3) Credit: 3-3

These courses cover the use and care of surveying instruments, note keeping, distance measurements, traverse surveying, areas, angles and elevations, legal principles, and elementary map making. They also cover plane table and transit methods of topographic map production, field problems related to highway surveying, circular and vertical curves, earthwork, volumes and cost estimates, triangulation and base lines. Prerequisite: MATH 1303 or equivalent.

ENGR 1305 Engineering Problems (3-0) Credit: 3
This is an introductory course in engineering for students of physics and engineering which

includes elementary statics and dynamics. Emphasis is given to the engineering method of analysis in problem solving.

ENGR 2301 Advanced Problems in Surveying (2-3) Credit: 3
Advanced problems in circular, parabolic, and spiral curves; adjustment of level lines and nets; conversion from plane to geodetic coordinates and reverse; establishment of triangulation nets; and other problems encountered in extensive and in special purposes surveys. Essential elements of analytical geometry and of statistics will be applied to problems. Prerequisites: ENGR 1302

ENGR 2302 Land Mapping

(2-2) Credit: 3

The drawing of contour maps, plot plans, parcels or tracts of land surveyed, and the layout of subdivisions; the drawing of road maps as used by civilians and the military. Prerequisite: ENGR 1304.

English (ENGL)

ENGL 0150 Expressive and Forceful Writing (1-0) Credit: 1 A study of the skills necessary for writing effective military correspondence. Classified as a Developmental Course. (Previously numbered ENGL 2150).

ENGL 0300 English Fundamentals

(3-0) Credit: 3

A study of basic composition skills with emphasis on sentence structure, paragraph structure, and grammar. Intended only for native English speakers. Classified as a Developmental Course. (Previously numbered ENGL 1300).

ENGL 0303, 0304 English for International

(3-2) Credit: 3,3

Students I and II

Speaking and writing for students whose native language is not English. Intended to aid foreign students in attaining greater facility in the use of the English language. Classified as a Developmental Course. (Previously numbered ENGL 1303 and ENGL 1304).

ENGL 0305 Basic Reading and Study Skills

(2-1) Credit: 3

Designed for students who have difficulty reading college texts. Skills emphasizing word attack, spelling, vocabulary development, comprehension, fluency, study habits, and test-taking skills are stressed. Classified as a Developmental Course. (Previously numbered ENGL 1305).

ENGL 0350 Effective Military Writing

(3-0) Credit: 3

A study of basic composition skills with emphasis on sentence structure, paragraph structure, and grammar. Aimed primarily at development of skills necessary for writing effective military correspondence. Classified as a Developmental Course. (Previously numbered ENGL 2350).

ENGL 1301 Composition and Rhetoric I

(3-0) Credit: 3

A study of the principles and techniques of written compositions including sentence structure, paragraph development, and paper organization. Also stresses the development of critical thinking as it applies to the textual analysis of expository prose.

ENGL 1302 Composition and Rhetoric II

(3-0) Credit: 3

A continuation of English 1301, emphasizing in more depth the principles and techniques of written compositions. Focus of compositions is on the development of critical thinking as it relates to the textual analysis of literary genres: the short story, poetry, drama, and the novel. Formal research paper is required.

ENGL 1307 Business English

(3-0) Credit: 3

Fundamentals of grammar, punctuation, and sentence structure as employed in written business communications. A review of word study, sentence analysis, punctuation, paragraphing.

ENGL 1308 College Reading

(2-1) Credit: 3

Designed for students who wish to improve their abilities in analytical reading and critical thinking. Development of inferential and interpretive comprehension skills as well as higher level skills in analysis, synthesis, and evaluation are stressed. Prerequisite: College level reading skills.

ENGL 1309 Communications Skills

(3-0) Credit: 3

Instruction in grammar and diction, writing expository papers, writing effective business correspondence and reports, and oral presentations.

ENGL 2301 English Literature I

(3-0) Credit: 3

A survey of English literature from Beowulf through the eighteenth century. Prerequisite: ENGL 1301, 1302, or equivalents.

ENGL 2302 English Literature II

(3-0) Credit: 3

A survey of English literature beginning with the pre-Romantic period through the early twentieth century. Prerequisite: ENGL 1301, 1302, or equivalents.

ENGL 2303 World Literature I

(3-0) Credit: 3

A survey of masterpieces of Western world literature from Homer through the Renaissance. Prerequisite: ENGL 1301, 1302, or equivalents.

ENGL 2304 World Literature II

(3-0) Credit: 3

A survey of masterpieces of Western world literature from the Renaissance to the twentieth century. Prerequisite: ENGL 1301, 1302, or equivalents.

ENGL 2305 American Literature I

(3-0) Credit: 3

A survey of the major American writers from the Colonial Period to Whitman. Prerequisite: ENGL 1301, 1302, or equivalents.

ENGL 2306 American Literature II

(3-0) Credit: 3

A survey of the major American writers from Whitman to the present. Prerequisite: ENGL 1301, 1302, or equivalents.

ENGL 2309 Technical Writing

(3-0) Credit: 3

A study of the principles of exposition as they apply to the preparation of short written technical reports using various formats. Major formal technical report required. Prerequisite: ENGL 1301 or ENGL 1309 or equivalent.

Equipment Maintenance (EQMT)

EQMT 1350 Trade Drawing I

(2-3) Credit: 3

This is a basic course with emphasis on introduction and use of drawing equipment and instruments, geometric construction, lettering, freehand drawing and sketching, orthographic projection, sectioning and dimensioning practices.

EQMT 1351 Trade Drawing II

(2-3) Credit: 3

This course is a study of dimensioning practices, sectional views, auxiliary views, secondary auxiliary views, pictorial drawings, development and intersections, conventional practices, welding drawings, piping drawings, thread and fasteners, working drawings and blueprint readings.

EQMT 1401 Fundamentals of Machinery

(3-2) Credit: 4

A study of machines to include levers, gears, inclined planes, chain falls, pulleys, wedges and cams. Students will calculate mechanical advantages and the practical work will include selecting and using proper mechanical aids.

EQMT 1402 Machine Tools

(2-4) Credit: 4

A course designed to provide an understanding of the theory of operation of lathes, milling machines, grinders, drill presses, power saws and shapers. The student will also have an understanding of the construction, operation, and maintenance of each type of machine. Safety practices for each type of machine will be stressed.

EQMT 1403 Maintenance of Valves and Pumps (2-4) Credit: 4
This course provides an understanding of the theory of operation of valves and pumps. It covers both stop and check valves to include globe, gate, swing check, ball check, lift check, and safety valves. Students will learn to disassemble, repair, assemble, align, and maintain both pumps and valves.

EQMT 1404 Maintenance of Galley
Equipment and Fans

(2-4) Credit: 4

This course provides the theory of operation, maintenance required, and practical work in repair of fans, blowers, and galley equipment. Ice machines, rotating ovens, dough mixers, scullery machines, meat cutting machines, pre-wash machines, roof exhaust fans, and fan static balance method will be covered.

EQMT 2401 Maintenance of Air Compressors (2-4) Credit: 4 This course provides the theory of operations, design, classification, application and maintenance of air compressors. It will include reciprocating and vane type compressors and will cover disassembly, repair, assembly and trouble-shooting.

2402 Maintenance of Power Plant (2-4)Credit: 4 EQMT Equipment I

This course provides an understanding of the functioning of and maintenance required for selected power plant equipment. Steam and water pumps, traveling screens, and pressure boilers are covered. The course also covers the steam water and water cooling cycles. Prerequisites: INDU 1400, EQMT 1404.

Credit: 4 EOMT 2403 Maintenance of Power Plant (2-4)Equipment II

A continuation of EQMT 2402. This course covers turbines, generators and auxiliary equipment. Overhaul of selected equipment and proper lubrication will be included. Prerequisite: EQMT 2402.

EOMT (3-3) Credit: 4 2405 Principles of Machine Design A study in machine designs with emphasis on drawing and manufacturing processes. This course includes drawings for sand castings, forging and drawings of forging, fundamentals of machining, lathe, drill press, shaper, planer parts machined from stock and other pertinent areas relative to machine practices.

(1-20)Credit: 4 2409 **Equipment Maintenance** EOMT Mechanic Internship

This course consists of on-the-job equipment maintenance training that utilizes the principles, knowledge and skills gained in the classroom and laboratory. The student is employed at an approved worksite under the supervision of a College instructor/coordinator.

Farm and Ranch Management (FRMG)

(3-0)Credit: 3 FRMG 1301 Wildlife Management An introduction to the wildlife and fishery resources of the United States, with special reference

to Texas. The importance of plants and animals in our economic cultural life. An account of what has happened to North American wildlife, with considerations of specific plans and methods for its rehabilitation, maintenance, and increase.

FRMG 1302 Range Management (2-4)Credit: 3

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

FRMG 1303 Soil Science (2-4)Credit: 3

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

FRMC 1304 Animal Health (2-4)Students will study the basics of internal and external parasites, principal diseases of livestock,

identification and control of diseases and pests. 1305 Vegetable Production (2-4)

Principles and practices in producing vegetable crops, including organic gardening; soil management; composting; starting, transplanting and growing plants; insect control, fertilizing,

and harvesting. Laboratory consists of application of the above practices. FRMG 1306 Elementary Horsemanship (2-4)Credit: 3

This course includes theoretical and laboratory instruction in the proper grooming, saddling, bridling, and mounting of the horse. Proper body posture and hand position of the rider is also covered. Additional topics of instruction include the anatomy of the horse and riding in western saddles.

FRMG (2-4)1307 Intermediate Horsemanship Credit: 3 This course is a continuation of Elementary Horsemanship and includes the development of the balanced seat, hands and posture at the natural gaits of the western stock horse. Additional

topics of instruction include the use of cavalletti, jumping, methods of transportation and care of horses while in transit. Prerequisite: FRMG 1306 or approval of the Department Manager.

FRMG 1308 Forage and Pasture Crops

(2-4) Credit: 3

The production, management, and use of forage and pasture crops. The different crops used, their establishment and production will be included.

FRMG 2301 Farm Mechanics I

(2-4) Credit: 3

Basic farm skills in tool conditioning, sketching, carpentry, concrete, farm surveying, small engine repair, plumbing, and general farmstead maintenance.

FRMG 2302 Farm Mechanics II

(2-4) Credit: 3

A second course in farm shop skills for the agriculture student. Construction, repair and maintenance of farm machinery; covers metal work, including arc welding, oxy-acetylene welding, cutting, and soldering.

FRMG 2303 Feeds and Feeding

(2-4) Credit: 3

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

FRMG 2304 Horse Production

(2-4) Credit: 3

This course includes theoretical and laboratory instruction in the history, evolution, breeding, and functions of the horse. Basic principles of equine nutrition, reproduction, inheritance, disease and parasite prevention and control, skeletal and muscular form, and function of the horse are also covered. Additional topics of instruction include the proper care and handling of horses for work and for pleasure.

FRMG 2305 Advanced Equitation

(2-4) Credit: 3

This course includes theoretical and laboratory instruction in stock seat equitation, western riding techniques, the judged arena and time events in horsemanship. Prerequisite: FRMG 1307 or approval by the Department Manager.

FRMG 2306 Livestock Marketing

(2-4) Credit: 3

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

FRMG 2307 Livestock Production

(2-4) Credit: 3

The principles involved in and the practical application of breeding, feeding, care and management of cattle, swine, sheep, poultry, and rabbits. Fitting animals for livestock shows will also be included.

FRMG 2308 Animal Breeding

(2-4) Credit: 3

This course includes theoretical and laboratory instruction in principles of genetics, kinds of mating, horse selection, hybrid vigor, pedigree, artificial insemination, and pregnancy testing. Prerequisites: AGRI 1301, BIOL 1401, and BIOL 1402.

FRMG 2401 Food Preservation

(3-3) Credit: 4

The principles and practices involved in the processing and preservation of fruits, vegetables, and other food products. Units to be included are field selection, processing, freezing, canning, curing, and storing.

FRMG 2402 Farm Equipment Maintenance and Repair

(3-3) Credit: 4

This course covers the theory and practical laboratory experience in the proper maintenance, repair and operation of farm and ranch equipment and improvements. Emphasis is placed on preventive maintenance, trouble-shooting, and the construction of farm fences, gates, and buildings.

Finance and Banking (FIBA)

FIBA 1301 Banking Principles

(3-0) Credit: 3

The fundamentals of bank functions presented in a descriptive fashion so that the beginning banker may acquire a broad and operational perspective. It reflects the radical changes in banking policy and practice which have occurred in recent years. Topics covered are banks and the monetary system, negotiable instruments, the relationship of the financial institution to its depositors, types of accounts, the deposit function, the payments function, loans and investments, other services (trust, international and safe deposit), accounting and marketing,

external and internal controls, and the public service obligations of banks.

FIBA 1302 Money and Banking

(3-0) Credit: 3

The economic principles most closely related to the subject of money and banking in a context of topics of interest to present and prospective financial institution management personnel. The practical application of the economics of money and banking to the individual financial institution is stressed. Some of the subjects covered include structure of the commercial banking system, the nature and functions of money, banks and the money supply, cash assets and liquidity management investments, loans, earnings, and capital, the Federal Reserve System and its policies and operations, Treasury Department operations, and the changing international monetary system.

FIBA 1303 Credit Department Management (3-0) Credit: 3

The primary objective of this course is to provide material which can be used by small and medium size financial institutions in strengthening their performance of the commercial lending function. It includes an analysis of the essential elements of the credit function, a discussion of key operations and training areas, and information on types of functional or departmental organization which can be used to carry out the required tasks.

FIBA 1304 Residential Mortgage Underwriting (3-0) Credit: 3

This course teaches the student the importance of the underwriting decision and how to logically evaluate both the borrower and the property. All elements that enter into the decision-making process are covered. Subjects include, but are not limited to: income analysis, financial statement analysis of self-employed persons, fundamentals of residential property appraisal and property standards.

FIBA 1401 Finance and Banking Internship I (1-20) Credit: 4 This course consists of on-the-job financial training that utilizes the principles, skills, and knowledge gained in the theoretical setting of the classroom. The student is employed at an approved work station under the supervision of the College banking coordinator.

FIBA 1402 Finance and Banking Internship II (1-20) Credit: 4 This course is a continuation of Finance and Banking Internship I. Prerequisite: FIBA 1401.

FIBA 2301 Federal Regulations of Banking (3-0) Credit: 3 Some of the topics covered are agencies regulating financial institutions, bank characters, reports and examinations, federal limitations on financial operations, and the regulation of expansion. Emphasis is on supervision rather than the role of the federal government as it directly influences the operations of financial institutions through fiscal and monetary policy decisions.

FIBA 2302 Bank Management

(3-0) Credit: 3

This course presents new trends which have emerged in the philosophy and practice of management. The study and application of the principles of banking provide new and experienced bankers with a working knowledge of bank management's supervisory role.

FIBA 2303 Marketing for Bankers

(3-0) Credit: 3

This course covers the concepts and philosophies of marketing, marketing information, research, the marketing mix (product strategy, distribution strategy, advertising and sales promotion, personal selling, and pricing strategy), and the methods of marketing planning.

FIBA 2304 Consumer Lending

(3-0) Credit: 3

Emphasizes the pragmatic "how-to" details of Installment Credit. Topics covered are principles of credit evaluation, open-end credit, marketing financial services, collecting policies and procedures, legal aspects, financial statement analysis, direct and indirect installment lending, leasing and other special situations, installment credit department management, insurance and rate structure and yields.

FIBA 2305 Investment Principles

(3-0) Credit: 3

Covers the sources and uses of bank funds and the place of investment in the overall scheme of bank operations. Especially important are the relationships of investments to business and the unique functions, advantages and purposes served by a wide range of securities. Investment terminology is covered in detail.

FIBA 2306 Analyzing Financial Statements (3-0) Credit: 3 This course includes characteristics of financial statements and financial statement analysis. Goals, methods, and tools of analysis, analysis of profit and loss, accounts receivable, inventories

and balance sheets, the relationship of balance sheet accounts to sales, and projected statements of cash budgets are studied. Prerequisite: ACCO 2301 or ACCT 1301.

Credit: 4 (1-20)Finance and Banking Internship III 2401 This course is a continuation of FIBA 1402. Prerequisite: FIBA 1402.

Credit: 4 2402 Finance and Banking Internship IV (1--20) FIBA

This course is a continuation of FIBA 2401. Prerequisite: FIBA 2401.

Fine Arts (FINA)

FINA 1301 Introduction to Fine Arts

This is an introductory course designed to give the student a fundamental understanding of the creation and appreciation of diverse modes of communicating ideas and emotions through different mediums, within the context of Fine and Applied Arts.

Fire Protection (FPRT)

FPRT 1301 Fundamentals of Fire Protection (3-0)Credit: 3 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 organizations; a discussion of current related problems and review of expanding future fire protection problems.

Fire Prevention **FPRT** 1302

(3-0)Credit: 3

Credit: 3

(3-0)

The objectives and views of inspection, 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 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.

FPRT Fire Protection Systems 1303

(3-0)Credit: 3

Study of the required standard for water supply; special hazards protection systems; automatic sprinklers and special extinguishing systems; automatic signaling and detection systems; rating organizations and underwriting agencies.

Fire Administration I 1304

(3-0)

An 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 areas. Fire Service Leadership as viewed from the Company Officer's position.

1305 Fire Administration II (3-0)Credit: 3

Study to include insurance rates and rating, preparation of budgets, administration and organization of training in the fire department; city water requirements, fire alarm and communications 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 fire prevention and fire protection with stress on municipal and state agencies; design and construction of fire department buildings.

Fire Service Chemistry I

(3-0)

An introductory study to inorganic and organic chemistry, with emphasis on the metric systems, the periodic chart, water, oxygen, hydrogen, carbon, hydrocarbons, carbohydrates, and polymers.

FPRT Fire Service Chemistry II 1308

(3-0)Credit: 3

A continuation of FPRT 1307. Prerequisite: FPRT 1307.

FPRT 2301 Industrial Fire Protection I (3-0)Credit: 3

Specific concerns and safeguards related to business and industrial organization. A study of industrial fire brigade organization and development, plant lay-out, fire prevention programs,

extinguishing factors and techniques, hazardous situation and prevention methods. Gaining cooperation between the public and private fire department organization. Study of elementary industrial fire hazards in manufacturing plants. Prerequisite: FPRT 1301.

FPRT 2302 Industrial Fire Protection II

(3-0)Credit: 3 Development of fire and safety organizations in industry; relation between private and public fire protection organizations; current trends, deficiencies and possible solutions for industrial fire problems; role of insurance and other special organizations, an in-depth study of specific industrial processes, equipment, facilities and work practices to understand the potential hazards

and techniques to detect and control such hazards. Field trips to selected plants and demonstrations of new techniques equipment and innovations. Prerequisite: FPRT 2301.

Hazardous Material I 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. Emphasis on emergency situations and most favorable methods of handling fire fighting and control. Prerequisite: FPRT 1307.

2304 Legal Aspects of Fire Protection A study of legal rights and duties, liability concerns and responsibilities of the fire department while carrying out their duties. Introduction and basic concepts of civil and criminal law, the Texas and Federal judicial structure, and citie's liability for acts of the fire department and fire prevention bureaus. An in-depth study of various cases concerning fire fighters, fire departments and municipalities.

FPRT 2305 **Building Codes and Construction** (3-0)Credit: 3 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; reviews of related statutory and suggested guidelines, both local and national in scope. Review of Model Building Codes and Life Safety Codes.

2306 Fire and Arson Investigation A study of the detection of arson, investigation techniques, case histories, gathering and preserving of evidence; preparing for a court case; selected discussions of laws, decisions and opinions; kinds of arsonists, interrogation procedures, cooperation and coordination between fire fighters and arson investigators and other related topics. Prerequisite: FPRT 2305.

Hazardous Material II **FPRT** 2308

2303

Hazardous materials covering storage, handling, laws, standards, and fire fighting techniques associated with chemicals, gases, flammable liquids, corrosives, poisons, explosives, rocket propellants and exotic fuel, and radio-active 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: FPRT 2303.

Fire Safety Education

A survey of physical, chemical, and electrical hazards and their relationship to loss of property and/or life. Study of codes, laws, problems, and cases. Detailed examinations and study of the physical and psychological variables related to the occurrence of casualties. Safe storage, transportation and handling techniques are stressed to eliminate or control potential risks.

Marine Fire Protection FPRT 2310

This course covers the specific fire protection concerns of the maritime industry. It provides an in-depth study of the causes of fires, fire prevention, special fire fighting techniques, special equipment and fire safety as they relate to watercraft.

Credit: 3 (3-0)**FPRT** 2314 Fire Service Hydraulics

This course covers the fundamental concepts needed to solve a broad range of fire protection hydraulic problems. It includes the measurements of water from flowing orifices; the characteristics of water flow through conduits; the pressure, volume and frictional characteristics of mobile and stationery fire pumps; the trajectory and patterns of fire streams; and the relationship between fixed and mobile fire suppression equipment.

FPRT 2404 Fire Fighting Tactics and Strategy (4-0) Credit: 4

Essential elements in analyzing the nature of fire and determining the requirements. Efficient and effective utilization of manpower, equipment and apparatus. Emphases to be placed on preplanning, 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. Prerequisite: Completion of, or registration therein of all other required fire courses.

Food Service Management (FSMG)

FSMG 1250 Food Service Management

(2.5-0) Credit: 2

Food Service Management provides basic principles of management process, personnel management, goal setting, job performance and evaluation, delegation of authority and motivation.

FSMG 1300 Quantity Food Production

(3-0) Credit: 3

An introductory course in culinary skills. Covers basic institutional food preparation. Emphasizes the use of equipment and tools common to an institutional food service kitchen. Stresses the human relations challenges inherent to large food service operations.

FSMG 1301 Supervising Kitchen Administration (3-0) Credit: 3

A study of the supervisory procedures necessary to control food, beverage operations, including supervision of the preparation crew, with emphasis on weights and measures, portion control, converting standard recipes and production formulas. Secondary emphasis is placed on daily food production reports, taxes, reports to all levels of government, and the metric system.

FSMG 1302 Nutrition

(3-0) Credit: 3

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

FSMG 1303 Sanitation and Safety*

(3-0) Credit: 3

This course includes a study of personal cleanliness; sanitary practices in food preparation; cause, investigation and control of illness caused by food contamination; food storage and refrigeration; sanitation of dishes, equipment, and kitchens; cleansing materials, garbage and refuse disposal; safety precautions and accident prevention. Upon completion of this course, the student will have sufficient knowledge to pass the Educational Institute of the National Restaurant Association (N.R.A.) sanitation examination. Students must pass the national certification examination to receive credit for this course.

FSMG 1304 Work Organization

(2-2) Credit: 3

This course is designed to provide a general introduction and orientation to principles of job analysis, performance evaluation, job evaluation and salary administration, and how these affect the work situation. Work measurement and work standard techniques are studied, as well as flow processes and work distribution methods, quantity and quality control planning, and the current impact of governmental guidelines upon such procedures.

FSMG 1305 Food Purchasing*

(3-0) Credit: 3

Applied theory of food and beverage purchasing; factors affecting selections, standards, quality, and prices; techniques of receiving, storing, and issuing supplies, foods, and materials; applied theory of cost control, pricing and portions. Students must pass the national certification examination to receive credit for this course.

FSMG 1306 Menu Planning*

(3-0) Credit: 3

Basic factors of planning menus; variety and nutrition in menu planning; techniques of preparing attractive menus and maintaining budgetary control; types of menus for various public and private institutions. Students must pass the national certification examination to receive credit for this course.

FSMG 1307 Meat Science

(3-0) Credit: 3

An introductory course in raising, slaughtering, and packing meats, fish, and poultry, accompanied by an intensive study of wholesale and retail cuts of beef, veal, pork, and lamb. Emphasis is placed on the knowledge of grades, bone structure, muscle configuration, and

appropriate cooking methods of hotel and restaurant meat cuts.

FSMG 1308 Restaurant Merchandising

(2-3)Credit: 3 Sales promotion; interior decor; types and uniformity of service; food and beverage display; menu and room styling.

FSMG 1309 Short Order Food Preparation (1-6)Credit: 3 Short order food preparation is an introductory course that includes instruction on the basic equipment, tools and preparation techniques necessary to qualify a student to operate a short order food station sufficiently efficient to handle large numbers of customers in a short time.

FSMG Food Preparation and Serving 1401 Credit: 4 An introduction to techniques of food preparation. Includes preparation of vegetables, pastries, oven dishes, soups, salads, meats, fish, and poultry. Techniques include experimental cookery, food marketing and preservation, serving and table service.

FSMG 1402 Basic Baking and Pastry Production (2-6)Credit: 4 This is an introductory course in baking and pastry production in a commercial food service establishment or in a bakery. Students learn how to properly use the tools and equipment used in baking and how to make breads, yeast-raised dough products, fried bakery products (donuts and crullers), variety pies, layer cakes and cupcakes, puff pastries, variety cookies, and how to decorate cakes and pastries.

FSMG 2150 Food Purchasing and Financial (1.3-1.3)Credit: 1 Management

Preparing financial statements, food pricing, quality and quantity, purchasing, and controlling food costs.

FSMG 2151 (1.5-1.5)Credit: 1 Nutrition and Menu Planning

Nutrition and menu planning in the food service industry.

Credit: 2 2201 Food Service Terminology (2-0)

This course is an introduction to the terminology utilized in the food service industry.

FSMG 2250 Advanced Culinary Skills (1-3)Credit: 2 This course is designed to give fine points of culinary skills and theory. Preparation of classical

food menus and the arts of serving food. Culinary Skills (2-2)Credit: 2 FSMG 2251

Food Preparation and Serving introduces the student to the methods, techniques, and terminology needed to effectively manage a quality food kitchen.

(2.5-0)Credit: 2 FSMG 2252 Nutrition and Physical Fitness The relationship between proper nutrition and physical fitness. Lectures deal with calorie

consumption, apathy, self-discipline, performance, and other character deficiencies as they relate to obesity and physical fitness. Cafeteria Management* (3-0)Credit: 3 FSMC

This course points out the specific differences between an industrial cafeteria and conventional restaurant and explains how to cope with the unusual problems of industrial and institutional feeding. Students must pass the national certification examination to receive credit for this course. Prerequisite: FSMG 1301, MATH 1301, MATH 1307 or MATH 1308.

Hospitality Industry Sales Promotion* (3-0) A course designed to develop an understanding of what must be done in order to bring the wheels of production and consumption in the United States into mesh. The business activities that direct the flow of goods and services from the producer to the ultimate consumer are analyzed. Coordination of personal selling, advertising, produce design, market research, and customer relations/services are the individual ingredients of sales promotion, and each is examined in detail. Advertising is studied as the force that creates prospects, converts these prospects into customers, and keeps customers returning and buying. Students must pass the national certification examination to receive credit for this course.

(3-0)Credit: 3 FSMG 2306 Layout and Design Fundamentals of equipment layout for optimum production and operational efficiency. This course will include procedures to design and decorate remodeling projects.

FSMG 2353 Creative Cooking

(2-3) Credit: 3

Creative cooking is the art of combining creativity and design with superior food preparation and serving the art of "Garde Manger" is taught.

FSMG 2355 Kitchen Management and

(2.5-2.5) Credit: 3

Food Servicing

This course introduces the student to the methods, techniques, and terminology needed to effectively manage a quality food kitchen.

FSMG 2356 Gourmet Cooking

(2-3) Credit: 3

Gourmet Cooking introduces the student to the art of cooking as practiced by professional master chefs.

FSMG 2401 Classical Food Preparation

(3-3) Credit: 4

This course emphasizes the fine points of culinary skills and theory. Concentration on the preparation of menus. Responsibility of the Chef and Sous-Chef.

FSMG 2402 Exhibition Work

(3-3) Credit: 4

Taught in conjunction with Classical Food Preparation. This course is designed to assist the student in professional employment. The essence of exhibitions, buffets, centerpieces, and the role of the Executive Chef will be emphasized. This course will include an exhibition planned and prepared by the student.

FSMG 2405 Management Practice I*

(1-20) Credit: 4

This course consists of on-the-job management training that utilizes the principles, skills, and knowledge gained in the theoretical setting of the classroom. The student is employed in an approved work station in the food service industry under the supervision of a College coordinator. Students must pass the national certification examination to receive credit for this course. Prerequisite: Sophomore standing and consent of the Department Manager.

FSMG 2406 Management Practice II*

(1-20) Credit: 4

This course consists of on-the-job management training that utilizes the principles, skills, and knowledge gained in the theoretical setting of the classroom. The student is employed in an approved work station in the food service industry under the supervision of a College coordinator. Students must pass the national certification examination to receive credit for this course. Prerequisite: FSMG 2405.

FSMG 2452 The Chef's Course

(2.5-2.5) Credit: 4

Course is designed to develop a combination of good management practices, food preparation expertise, artistic creativity in laboratory exercises in food preparation. Student will be required to prepare and serve a buffet meal.

FSMG 2453 Dining Facility Management

(2.5-4) Credit: 4

This course is designed to provide Food Service personnel the technical knowledge and skills to manage and operate a unit or consolidated dining facility under garrison or field conditions.

*Nationally certified courses.

Food Service Operations (FSOP)

FSOP 1303 Sanitation and Safety

(3-0) Credit: 3

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

FSOP 1305 Food Purchasing

(3-0) Credit: 3

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

FSOP 1306 Menu Planning

(3-0) Credit: 3

Basic factors of planning menus; variety and nutrition and menu planning; techniques of preparing attractive menus and maintaining budgetary controls; types of menus for various

public and private institutions.

FSOP 2303 Cafeteria Management

(3-0) Credit: 3

This course points out the specific differences between an industrial cafeteria and conventional restaurant and explains how to cope with the unusual problems of industrial and institutional feeding.

FSOP 2304 Marketing and Sales Promotion (3-0) Credit:

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

FSOP 2305 Financial Management

(3-0) Credit: 3

Methods and application of financial management within the combined food service facility. Primary emphasis upon sales accountability and internal controls utilized within bar, food, dining room and hotel operation area. Secondary emphasis on budgeting and forecasting with application of effective labor/sales ratios. Prerequisite or Corequisite: FSMG 1301, MATH 1301, MATH 1307 or MATH 1308.

FSOP 2307 Hospitality Industry Law

(3-0) Credit: 3

A study of the nature and scope of business law with emphasis on the hospitality industry. Licensing, civil rights, owner responsibility for safety and property loss of guests, rights of the owner and history of contemporary hospitality law will be discussed.

Foreign Language

(See French, German, Japanese or Spanish)

French (FREN)

FREN 1401 Beginning French I

(3-3) Credit: 4

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

FREN 1402 Beginning French II

ling, and conversation.

(3-3) Credit: 4

Elementary grammar is completed. Pronunciation, drill, and conversation based on reading are continued. Stress is given to everyday conversational phrases. Prerequisite: FREN 1401.

FREN 2301 Intermediate French I

(3-0) Credit: 3

This course includes grammar review, composition, and reading of French masterpieces, with conversation based on material read. Prerequisite: FREN 1401, 1402, or two years of French in an accredited high school.

FREN 2302 Intermediate French II

(3-0) Credit: 3

This course continues the drill on syntax as needed for reading, composition, and conversation. Prerequisite: FREN 2301.

General Secretarial

(See Office Administration)

Geography (GEOG)

GEOG 1301 Introduction to Geography

(3-0) Credit: 3

This is an introductory level course that combines physical and cultural geography using a regional approach. The course examines the physical environment of the earth and explains maps; covers man's adaptation to environmental extremes; and explores man's use of his environment, ranging from adaptation within a tribal culture to the highly modernized urban world.

GEOG 2301 Elements of Physical Geography (3-0) Credit: 3

A course which examines the physical characteristics of the Earth's environment, using maps as a tool for expressing location and interrelationships. Principal topics to be discussed are: the atmosphere and oceans, weather, climate, environments of earth materials and vegetation, land forms and their development.

GEOG 2302 Cultural Geography

(3-0) Credit: 3

A survey of human geography and the ways mankind adapts and reacts to his environment. Culture is defined and the various aspects of culture are described and compared. Important topics to be discussed are population, health, livelihoods, communities, urbanization, organizational interaction (including economics and politics), present and future global problems.

Geology (GEOL)

GEOL 1401 Physical Geology

(3-3) Credit: 4

An introductory course in the nature and properties of the materials which make up the earth. Topics included are processes of glaciation, volcanism, weathering, and erosion. Modern theories such as plate tectonics are also studied. Field work, including the study of local rocks and minerals, is an integral part of the course.

GEOL 1402 Historical Geology

(3-3) Credit: 4

The course involves a study of the record of life forms that developed throughout geological time. It also covers the development of the earth from its cosmic beginning to current land forms. Principles of stratigraphy, paleontology, geologic time, plate tectonics, and hypotheses of earth origin are studied in the course. Field work, including the study of local fossil fauna, is an integral part of the course.

GEOL 2301 Geomorphology

(3-0) Credit: 3

The genesis of land forms, their characteristics and analysis. Emphasis on geological processes, both constructional and destructional, stage of development and relationship to geological structure. Prerequisite: GEOL 1401.

GEOL 2306 Introduction To Oceanography

(3-1) Credit: 3

This course covers the description of basic biological, chemical, geological, hydrological and physical features and processes of the oceans including origin, uses and resources. This course is designed for non-science majors.

GEOL 2401 Invertebrate Paleontology

(3-3) Credit: 4

The classification, methods of preservation, morphology and identification of invertebrate fossils, including the ecological relationships between groups of fossils, stratigraphic significance and evolutionary development and adaptations of fossils. Field trips required. Prerequisite: GEOL 1402.

GEOL 2403 Geologic Field Methods

(2-4) Credit: 4

A practical course which deals with the interpretation of aerial photographs, topographic and geologic maps, and examination of petrologic systems in a field setting. Students will collect field data and construct geologic maps, topographic maps, cross-sections and columns. Prerequisites: GEOL 1401 and 1402.

German (GERM)

GERM 1401 Beginning German I

(3-3) Credit: 4

For those who have had no previous work in German. The essential grammar expression. Requires three laboratory hours per week for the memorization and presentation of German dialogues by the students.

GERM 1402 Beginning German II

(3-3) Credit: 4

A continuation of Beginning German I. Prerequisite: GERM 1401 or its equivalent.

GERM 2301 Intermediate German I

(3-0) Credit: 3

Includes grammar review, composition and practice in conversation, with readings in contemporary German writings, including short stories and some longer works, providing a conversational basis. Prerequisite: GERM 1401, GERM 1402 or two years of German in an

accredited high school.

GERM 2302 Intermediate German II

(3-0) Credit: 3

Continues the drill on syntax as needed for reading, composition and conversation. Prerequisite: GERM 2301.

Government (GOVT)

GOVT 2301 State and Federal Government I (3-0) Credit: 3

An introductory, survey course on various United States, Texas, and local government topics. This course includes study of the U.S. and Texas constitutions, federalism, local governments, elections in the nation, state and locally, civil liberties, and interest groups.

GOVT 2302 State and Federal Government II (3-0) Credit: 3 An introductory, survey course on various United States, Texas, and local government topics. This course includes studying institutions of the national and Texas governments, to include the executive, legislative, and judicial branches; the bureaucracy; and the public policy including defense and foreign relations as examples.

GOVT 2303 Introduction to Political Science (3-0) Credit: 3
This course is designed to introduce the student to the general area of political science and to provide knowledge and understanding of political fundamentals, public law, political dynamics, public policy, theory and organization of the modern state, and international relations.

Graphic Arts

(See Drafting and Design)

Health Service Management (HEOE)

HEOE 2301 Medical Terminology

(3-0) Credit: 3

This course covers prefixes and suffixes, diagnostic, operative and symptomatic terms and medical abbreviations.

History (HIST)

HIST 1301 History of the United States to 1877 (3-0) Credit: 3 English colonization; the Revolution; adoption of the Constitution; growth of nationalism; cotton and the slavery problem; war for southern independence; Reconstruction.

HIST 1302 History of the United States from 1877 (3-0) Credit: 3 New social and industrial problems; rise of the progressive movement; United States emergence as a world power; World War I; reaction and the New Deal; World War II; contemporary America.

HIST 1303 Survey of Western Civilization I (3-0) Credit: 3
An introductory, survey course from the rise of Near Eastern civilization to the conclusion of the French Revolution. Special emphasis is placed on the period 1500-1815. Topics covered include Ancient Times, the Middle Ages, the Renaissance, the Reformation, the Establishment of West-European Leadership, the Transformation of Eastern Europe, the Enlightenment, the Scientific Revolution, the French Revolution.

HIST 1304 Survey of Western Civilization II (3-0) Credit: 3 An introductory, survey course from 1815 to the present with particular emphasis upon the twentieth century. Topics covered include the international impact of the French Revolution, Reaction vs. Progress, the Industrial Revolution, the Revolutions of 1848, the Rise of Large Nation-States, European Imperialism, European Civilization 1870-1914, World War I and the Russian Revolution, Totalitarianism and World War II, the Contemporary World.

HIST 2301 International Relations and U.S. (3-0) Credit: 3
Foreign Policy

A study of international relationships and problems in world affairs; organization and processes used to arrive at foreign policy decisions of the United States; the elements of international

communist ideologies; and the evolution of American foreign policy since 1945.

HIST 2302 Studies in American History (3-0) Credit: 3

This course is a survey of the major developments in United States history with special emphasis on the international developments since 1945 in which the American people have played dominant or decisive roles. The influence that Europe and Asia have had on the United States will also be examined. Other countries' foreign policies, the Cold War, the rise of the Third World and the American social and cultural revolution are major topics of instruction in this course. Prerequisites: HIST 1301 and HIST 1302 or consent of instructor.

HIST 2303 History of Religion

(3-0) Credit: 3

A study of the origin, progress, and development of the Christian religion. Attention will be given to the development of beliefs and the rise of denominations.

HIST 2304 World Religions

(3-0) Credit: 3

A survey course dealing with the origins, tenets, and development of the major world religions. Deductive method used to understand religion as a phenomenon in man's life. Discussion of Hinduism, Buddhism, Confucianism, Taoism, Judaism, Christianity, and Islam.

HIST 2350, 2351 Military History I and II

(3-0) Credit: 3,3

Courses designed to give the non-commissioned officer a concept of the development of the U.S. Army from pre-revolutionary days to the present, the effect of society on the structures and development of the Army, and the history of the development of tactics and strategies based on modern technology.

Horse Management

(See Farm and Ranch Management)

Hotel-Motel Management (HMMG)*

HMMG 1300 Food and Beverage Management (3-0) Credit: 3 This is an introductory course in food and beverage operation, with an introduction to

purchasing, receiving, storage, preparation and service. Students must pass the national certification examination to receive credit for this course.

HMMG 1302 Hotel/Motel Organization (3-0) Credit: 3 and Administration

This course includes management and organization of hotel industry, communications, accounting, personnel relations and administration, management of guests, and includes planning for today and tomorrow. Students must pass the national certification examination to receive credit for this course.

HMMG 1303 Front Office Procedures

(3-0) Credit: 3

This course includes hotel organization and services, front office salesmanship, cashiering, front office posting, accounting for guest charges, procedures and forms for accounting controls. Students must pass the national certification examination to receive credit for this course.

HMMG 1305 Energy Management

(3-0) Credit: 3

This course includes techniques that will save money through effective energy conservation methods. Energy management functions to be studied include energy problems facing the hospitality industry, an action plan for energy management, implementing an energy management program and energy management consisting of retrofit and design. Students must pass a national certification examination to receive credit for this course.

HMMG 1306 Convention Management and Service (3-0) Credit: 3 This course defines the scope of various segments of the Convention Market, explains what is required to meet individual needs, and, most importantly, explores methods and techniques that lead to better service. Students must pass a national certification examination to receive credit for this course.

HMMG 1307 Tourism and The Hospitality Industry (3-0) Credit: 3 This course presents a comprehensive systems review of tourism, stressing the interrelationships and interdependencies of the various component elements. It explains from a marketing point of

view, through practical real-life examples and applications, how tourism works and how it can be utilized by various businesses. Students must pass a national certification examination to receive credit for this course.

HMMG 2301 Hospitality Industry Law

(3-0) Credit: 3

A study of the nature and scope of business law with emphasis on the hospitality industry. Licensing, civil rights, owner responsibility for safety and property loss of guests, rights of the owner, and history of contemporary hospitality law will be discussed. Students must pass the National Certification examination to receive credit for this course.

HMMG 2302 Supervisory Housekeeping

(3-0) Credit: 3

This course includes organization of a housekeeping department of a hotel, job schedules, job breakdown, floor care, stain removal, fire inspection, purchasing records, equipment records, linen inventory and care, carpeting and care, and basic interior design. Students must pass the national certification examination to receive credit for this course.

HMMG 2304 Financial Management

(3-0) Credit: 3

Methods and application of financial management within the combined food service facility. Primary emphasis upon sales accountability and internal controls utilized within bar, food, dining room, and hotel operational area. Secondary emphasis on budgeting and forecasting with applications of effective labor/sales ratios. Students must pass the National Certification examination to receive credit for this course. Prerequisite: FSMG 1301, MATH 1301, MATH 1307, or MATH 1308.

HMMG 2305 Hotel/Motel Maintenance

(3-0) Credit: 3

This course includes a study of the organization, terms and concepts common to building maintenance. Maintenance functions to be studied include heating, plumbing, electrical, refrigeration and air conditioning, communications and signal system, kitchen equipment, fire prevention and protection, and elevator systems. Students must pass the national certification examination to receive credit for this course.

HMMG 2306 Recreational Services

(3-0) Credit: 3

This course includes the study of the needs of guest recreation and entertainment, space available for these activities, cost of operation and maintenance, layout and design and direct and indirect benefits. Students must pass the national certification examination to receive credit for this course.

HMMG 2307 Marketing of Hospitality Services (3-0) Credit: 3 This course is designed to provide students with basic knowledge and practical experience which will enable them to develop strategic marketing plans for Hotel/Motel properties. Students must pass a national certification examination to receive credit for this course.

HMMG 2308 Food and Beverage Controls

(3-0) Credit: 3

This course covers the principles and procedures involved in an effective system of food, beverage, labor and sales income control. Emphasizes the development and use of standards and the calculation of actual costs. Students must pass a national certification examination to receive credit for this course.

HMMG 2401 Hotel/Motel Internship I

(1-20) Credit: 4

This course consists of on-the-job hotel/motel training that utilizes the principles, skills and knowledge gained in the theoretical setting of the classroom. The student is employed at an approved work station under the supervision of the College hotel/motel intern coordinator. Student must have Department Manager's permission to enroll. Students must pass the national certification examination to receive credit for this course.

HMMG 2402 Hotel/Motel Internship II

(1-20) Credit: 4

This is a continuation of Hotel/Motel Internship I. Prerequisite: HMMG 2401. Students must pass the national certification examination to receive credit for this course.

*All courses certified by the American Hotel and Motel Association.

Image Data Management Services

(See Microcomputer, Word Processing and Office Administration)

Industrial Fundamentals (INDU)

Industrial Fundamentals INDLI 1400

Credit: 4 (3-3)

This is a required introductory course for students in all of the Industrial Technology curriculums. The course includes common hand and power tools, precision measuring devices, electrical test equipment, thread repair, special tools, soldering, bearings and seals, use of publications, basic shop math, and industrial trades safety. This course is a prerequisite or corequisite for all Industrial Technology curriculums.

Japanese (JAPN)

Introduction to Japanese **IAPN**

(3-0)Credit: 3

This course provides students with conversational and academic skills in basic "survival" Japanese by presenting the language in a practical, contextual setting. Grammar is reinforced by example with emphasis on understanding the structure and mastery of the structure in conversation.

Beginning Japanese I **IAPN** 1301

(3-0)Credit: 3

Introduction to Japanese with attention given to conversation, grammar and the written forms. There will also be readings of simple texts dealing with Japanese life and culture.

Beginning Japanese II IAPN

(3-0)Credit: 3

Continuation of Japanese conversation, grammar and the written forms. Emphasis is on reading texts dealing with Japanese life and culture. Prerequisite: JAPN 1301.

Journalism (JOUR)

IOUR 1301 Communications Media (3-0)Credit: 3

Instruction in the mass media of the modern world. A survey of all the mass media, their purposes, and their methods of operation.

TOUR 1302 News Gathering and Reporting (3-0)Credit: 3 Instruction in the fundamental news gathering and writing techniques, interviewing techniques, and discussion of news sources and values.

Law Enforcement (LAWE)

Defensive Tactics LAWE 1201

(1-2)Credit: 2

This course is designed to provide the student with defensive and protective philosophies to better protect the public and criminal justice personnel against illegal force. Techniques of selfdefense, safe arrest procedures, citizen contact, and proper prisoner transportation techniques, along with humane methods of handling disturbed persons, will be presented. The legal and humane use of limited force will be stressed at all times.

1301 Introduction to Criminal Justice (3-0)Credit: 3 History, development, and philosophy of law enforcement and criminal justice in a democratic society. Introduction and career orientation to the multifaceted agencies involved in the administration of criminal justice.

LAWE 1302 Criminal Investigation I (3-0)Investigative theory; collection and preservation of evidence; sources of information; interview

Credit: 3

and interrogation; uses of forensic sciences; case and trial preparation.

LAWE 1303 Legal Aspects of Law Enforcement (3-0)Credit: 3 Police authority; responsibilities; constitutional constraints; law of arrest; search and seizure; police liability; examples of case law that currently affect police decisions will be reviewed.

The Courts and Criminal Procedures The judiciary in the criminal justice system; structure of American Court System; prosecution, right to counsel, pre-trail release, grand juries, adjudication process, types and rules of evidence, sentencing.

LAWE 1305 Traffic Law

(3-0)Credit: 3

This course is designed to cover all laws pertaining to the control and enforcement of traffic. The

officer is taught the use of spot maps and charts, the techniques of enforcement, and the maintenance of good public relations. An analysis of the Model Motor Vehicle code is given.

LAWE 1306 Correctional Systems and Practices (3-0) Credit: 3 Corrections in the criminal justice system; organization of correctional systems; correctional role, institutional operations; alternate to institutionalization; treatment and rehabilitation; current and future issues.

LAWE 1307 Crime in America

(3-0) Credit: 3

American crime problems in historical perspective; social and public policy factors affecting crime; impact and crime trends; social characteristics of specific crimes; prevention of crime.

LAWE 1308 Fundamentals of Criminal Law (3-0) Credit: 3 A study of the nature of criminal law; philosophical and historical development; major definitions and concepts; classification of crime; elements of crimes and penalties using Texas statutes as illustrations; criminal responsibility.

LAWE 1309 Police Systems and Practices (3-0) Credit: 3 The police profession; organization of law enforcement systems; the police role; police discretion; ethics; police-community interaction; current and future issues.

LAWE 1310 Criminal Investigation II (3-0) Credit: 3 Modern methods and skills required for criminal investigation, to include discovery methods, development and lifting of latent fingerprints; criminal scene sketches; the use of plaster and silicone rubber for reproducing evidence at crime scene; use of modern investigation aids; and techniques of criminal interviews. Prerequisite: LAWE 1302.

LAWE 1314 Community Resources in Corrections (3-0) Credit: 3 An introductory study of the role of the community in corrections; community programs for adults and juveniles; administration of community programs, legal issues, future trends in community treatment.

LAWE 2101 Emergency Medical Aid (1-1) Credit: 1
This course will focus on the first aid fundamentals that will be helpful to patrol officers in the event of a first aid emergency situation. Procedures recommended by the American Red Cross will be used as guidelines for this course.

LAWE 2201 Firearms

(1-2) Credit: 2

This course is designed to introduce the student to the skills and techniques of firearms used in the protection of the public and criminal justice personnel. Students will fire various weapons under precision and police combat conditions. The importance of safe weapons handling and the danger of not adopting a mature attitude towards firearms will be stressed at all times. The intelligent, legal, and moral use of the police firearms will be emphasized at all stages of teaching and firing.

LAWE 2301 Probation and Parole

(3-0) Credit: 3

Course will provide the student with some understanding of the evolution of criminal corrections and explore with the student the many avenues into which the corrections field branches. Develops in each student a basic understanding of the various methods of corrections so that they can function efficiently in the field.

LAWE 2303 Criminal Justice Seminar

(3-0) Credit: 3

A problems course dealing with current criminal justice trends, issues, and literature. Prerequisite: Approval of the Department Manager. This course may be repeated for credit.

LAWE 2304 Juvenile Procedures

(3-0) Credit: 3

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

LAWE 2306 Traffic Planning and Administration (3-0) Credit: 3
This course consists of the application of traffic problems from the administrative point of view, including engineering, education, and enforcement at the supervisory level.

LAWE 2307 Penology (Jail Operation

(3-0) Credit: 3

and Management)

A survey of the basic concepts of penal and correctional rationale as employed by criminal justice administrators. An overview of the operation and management principles of the institutional

LAWE 2308 Patrol Administration

(3-0) Credit: 3

Discussion of the administration of surveys, special problems arising while the officer is on patrol, improvement in patrol methods, observation of persons and things, preventive techniques, methods of handling complaints, and the development of contacts.

LAWE 2309 Provost Marshal Operations

(3-0) Credit: 3

The principles of organization and administration as applied to the operational system of a military Provost Marshal's office as well as that of the Inspector General's. Practical training in conduct of briefings, management, and attendant qualities of leadership, and some cases of dissident conditions which might impair role and mission of the dissident command.

LAWE 2310 Correctional Control and Administration (3-0) Credit: 3 The course prepares the student to perform supervisory functions related to control of prisoners and contraband; segregation and accountability of prisoners; procedures required at a correctional facility; emergency measures, prisoner privileges; and the records and reports of the detention center.

LAWE 2350 First Responder

(3-0) Credit: 3

This course covers health knowledge with regard to individual and group welfare. It is concerned with the principles and practices of first aid for the sick and injured for the non-medically trained individual. Emphasis is given to the preventive aspects as well as care following injury or illness.

Legal Assistant (LEGA)

LEGA 1301 Introduction to Legal Assistant (3-0) Credit: 3

This course provides a general introduction to the law with emphases on the role of the legal assistant. To give the Legal Assistant student the necessary legal background, topics to be covered include the American system of law (constitutional law, statutory law, criminal law and tort law); court systems; and court procedures. General concepts of law are introduced for students with no specific prior legal knowledge. This serves as the introductory course for the program of Legal Assistant.

LEGA 1304 Principles of Family Law

(3-0) Credit: 3

The legal aspects of divorce and annulment, separation, defense, custody, habeas corpus, support, alimony, tax consulting, out-of-state divorces and validity and jurisdiction service will be discussed. Students will receive a review analysis of separation and custody agreement, as well as the other documents involved in divorce proceedings. Prerequisite: LEGA 1301.

LEGA 1305 Law of Real Property and Real Estate (3-0) Credit: 3 Transactions

Study of the law of real property and in-depth survey of the more common types of real estate transactions and conveyances, such as deeds of trust, etc.; drafting problems involving projects related to the subject matter; study of the system for recording and search of public documents. Prerequisite: LEGA 1301.

LEGA 1306 Criminal Law

(3-0) Credit: 3

A study of the Texas Penal Code including definitions of various kinds of defenses and trial procedures; the United States Constitution as it pertains to criminal law; practice in drafting subpoenas, writs, briefs and other trial papers. Prerequisite: LEGA 1301.

LEGA 1307 Civil Litigation

(3-0) Credit: 3

This course is an overview of civil litigation in both state and federal court with particular emphasis on the areas in which a legal assistant can assist the trial attorney. Particular attention is paid to preparation for litigation (interviewing client and witnesses, reviewing public information), discovery proceedings (interrogatories, requests for admissions, depositions and document production) pre-trial proceedings (motions to dismiss, motions for summary judgment, pre-trial orders), and trial (witnesses and exhibits). Attention is also devoted to practical techniques required to cope with protracted or complex litigation, including organization of pleadings, documents and depositions; preparation of summaries, chronologies and indices; and maintaining a complex file in an orderly manner. Mention is made of the legal theories involved in complex litigation (e.g., products liability, civil rights, securities and

antitrust). Principal emphasis is on procedural techniques rather than substantive areas of law.

LEGA 1308 Consumer Protection and Bankruptcy (3-0) Credit: 3 A study of consumer law for the paralegal, business person, and consumer, of legislation and legal rights surrounding the purchase of consumer goods and services bought primarily for personal, family, or household purposes, to include the Consumer Credit Protection Act, the Uniform Consumer Credit Code, and the Fair Debt Collection Practices Act, as well as a survey of federal and state deceptive trade practices act and automobile "lemon laws." Students will also learn the appropriate federal, state, and local administrative bodies to contact in case of consumer problems and some of the procedures involved. This course will also give an in-depth study of both debtor and creditor rights in debt relief and bankruptcy. No prerequisite required.

LEGA 1402 Legal Office Ethics and Management (3-3) Credit: 4
This course will provide the ethical considerations applicable to the legal assistant: office organization, specialized bookkeeping, and accounting for attorneys' fees and billing procedures, scheduling and calendaring, legal research, 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, check list and files, and disbursement on behalf of clients.

LEGA 2301 Tort and Personal Injury (3-1) Credit: 3

A study of the fundamental principles of evidence and of the law of torts and insurance, including special research assignments related to the subject matter; consideration of the techniques of investigation involved in the lawyer's handling of tort and insurance claims and workmen's compensation; a study of the various forms of pleadings involved in commencing such claims in court actions. This course will also cover how to use cameras, tape recorders, video equipment and other investigative equipment; documenting cases and gathering evidence. Prerequisite: LEGA 2306.

LEGA 2302 Contract Law (3-0) Credit

A study of the law of personal property, contracts, including those special forms related to the law of sales and credit transactions, special drafting problems of various instruments and legal research projects; and a survey of the Uniform Commercial Code and its effect on the course subject matter. Prerequisite: LEGA 1301.

LEGA 2303 Business Organizations (3-0) Credit: 3

A study of the formation and operation of corporations, partnerships, limited partnerships, business trusts and other business vehicles, including a survey of the fundamental principles of law applicable to each; special research projects related to the subject matter. Prerequisite: LEGA 1301.

LEGA 2306 Techniques of Legal Research (2-2) Credit: 3
This course focuses on the importance of legal research as part of a legal assistant's responsibilities. It explores principles of legal research, kinds of lawbooks, components of a law book, citations, reading and finding constitutional law, regulations, cases, law and statutory law. Students will learn how to use the various legal research tools such as indexes, digests, Shepards, and treaties. Other sources of research, the federal and state codes and reports and administrative regulations will also be covered.

LEGA 2401 Techniques of Legal Practice (3-3) Credit: 4
This course emphasizes the techniques of legal writing and coordinates with other Legal
Assistant courses to provide specialized training in the actual preparation of legal documents on
a case method. Questions of statute of limitation, client, interviews and interview forms,
complaints, interrogatories, depositions, answers, motions, orders to show cause, third-party
practice, orders, medical records, judgments, pre-trials, settlements, and releases are some of the
topics discussed. Prerequisites: LEGA 1301 and 2306.

LEGA 2402 Income Taxation and Legal Accounting (3-3) Credit: 4 Study of federal, state and local income taxation of individuals and taxpaying entities such as states, trusts and corporations. Emphasis is placed on the preparation of basic tax returns and other tax-related documents. The course also includes a general introduction to accounting as it relates to legal problems. Prerequisites: LEGA 1301 and ACCO 2301 or 2303.

LEGA 2404 Legal Assistance Internship (1-20) Credit: 4

This course consists of on-the-job training in the legal field. It utilizes the principles, skills, and knowledge gained in the theoretical setting of the classroom. The student works at an approved work station under the supervision of a College coordinator. Only students who do not have a minimum of one year experience in the legal field are required to take this course. Prerequisite: Sophomore standing or consent of the Department Manager.

LEGA 2405 Wills, Trust and Probate (3-3) Credit: 4

This course presents the basics of legal writing and legal documents with which a legal assistant will have to deal. The various kinds of legal writing will be considered. These are letters, instruments (e.g., contracts, deeds, wills, bonds, leases), pleading (e.g., complaint, answer). memoranda and briefs. Special attention will be given to the memoranda as documents which must be resolved before instruments, pleadings or briefs are sent out. The forms and principles of law for wills and trusts are covered. The organization and jurisdiction of the Texas Probate Court are studied. The administration of estates under Texas Probate Law is analyzed and estate and inheritance taxes are reviewed. Prerequisites: LEGA 1301 and ENGL 1301.

Maintenance Technology (MTNT)

MTNT 1401 Carpentry I

(2-4) Credit: 4

This course is designed to provide the student with an understanding of carpentry as a trade. Included are the use of special tools, measuring devices, wood types, building and concrete forms, framing, floor, wall and roof construction. Prerequisite or corequisite: INDU 1400.

MTNT 1402 Electricity

(2-4) Credit: 4

This course is designed to provide the student with a working knowledge of the electrical installation, service and repair procedures for residential and light commercial buildings. Prerequisite or corequisite: INDU 1400.

MTNT 2402 Carpentry II

(2-4) Credit: 4

This course is a continuation of MTNT 1401, with additional emphasis placed on cabinetry, exterior and interior trim and finish work, including door and hardware installation. Prerequisites: INDU 1400, MTNT 1401.

MTNT 2403 Plumbing I

(2-4) Credit: 4

This course covers the theory and practical application of plumbing maintenance, service and repair procedures for residential and light commercial buildings. Topics of study include plastic, copper, cast iron, galvanized pipe, cutting and joining. Prerequisite or corequisite: INDU 1400.

MTNT 2404 Painting and Refinishing

(2-4) Credit: 4

This course covers the theory and practical application of painting and refinishing residential and light commercial buildings. Topics of study include various types of paint, preparation of surfaces, refinishing damaged and proper maintenance of finished surfaces. Prerequisite or corequisite: INDU 1400.

MTNT 2405 Foundations, Framing, and Roofing (2-4) Credit: 4
The student will be introduced to form fabrication, setting foundations, setting piers and castings and will practice framing and roofing residential buildings. Students will also have practical exercises in roofing. The course will also cover modern methods of placement of materials for structures and building layout systems. Prerequisite: MTNT 1401.

MTNT 2406 Building Materials and Estimating (3-3) Credit: 4 This course begins with a study of the manufacturing process, uses, and selection of building construction materials, and continues with exercises in estimating areas, volumes of concrete, foundations, linear and board foot requirements, wall framing, ceiling joist, roof rafter and sheeting material requirements. Prerequisite: MTNT 1401.

MTNT 2407 Interior-Exterior Finishing (2-4)

A study of interior and exterior finishing. The topics covered are cornice treatment, roof coverings, window installation and trim, exterior doors, frames and trim, exterior wall coverings which are typically applied by carpenters, insulation and vapor barriers, wall and ceiling coverings, finishing floors, stair finish, shelving and interior trim. The student will also learn the

importance of truing areas where cabinets will be installed. Prerequisite or corequisite: MTNT 2405.

MTNT 2408 Mill Cabinetry Construction (2-4) Credit: 4 and Installation

This course is designed to teach the student to plan operations, select lumber and perform a variety of operations and basic skills required in mill cabinetry. Students will receive practical experience in layout, construction, installation of cabinet work and applying plastic laminates. Prerequisite or corequisite: MTNT 2402.

MTNT 2409 Milling Machines

(2-4) Credit: 4

Practical application in the basic skills in the set-up and operation of wood machines. The course also covers mass production of fine cabinetry and mill work and wood finishing. Prerequisite or corequisite: MTNT 2408.

MTNT 2410 Plumbing II

(2-4) Credit: 4

This course is a continuation of MTNT 2403 Plumbing I with additional emphasis on "roughing-in" procedures. Course content will include hot and cold water systems, natural gas and propane piping, circulation systems, measuring and sizing in accordance with established codes, cost estimating, and sprinkler systems. Also included are the procedures involved in cast iron pipe installation. Prerequisite: MTNT 2403.

Management, Business (MGMT)

MGMT 1302 Safety (OSHA)

(3-0) Credit: 3

A study of safety as it relates to the military, industrial, and business communities. Special emphasis will be given the requirements of the Occupational Safety and Health Act as it affects management and employees.

MGMT 1304 Work Organization

(2-2) Credit: 3

This course is designed to provide a general introduction and orientation to principles of job analysis, performance evaluation, job evaluation and salary administration, and how these affect the work situation. Work measurement and work standard techniques are studied, as well as flow processes and work distribution methods, quantity and quality control planning and the current impact of governmental guidelines upon such procedures.

MGMT 1305 Introduction to Management

3-0) Credit: 3

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

MGMT 1306 Human Relations

(3-0) Credit: 3

This fundamental management course examines topics such as morale, motivation, communications, leadership, and change as they relate to managerial decision making.

MGMT 1307 Insurance

3-0) Credit: 3

Credit: 3

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

MGMT 1308 Small Business Management (3-0)

Methods and applications of financial management in a small business. Primary emphasis on internal controls and sales accountability. Secondary emphasis on budgeting, forecasting, effective sales/labor ratios, licensing requirements.

MGMT 1309 Income Tax

(3-0) Credit: 3

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

MGMT 2301 Marketing Principles

(3-0) Credit: 3

The study of marketing as an exchange relationship in public and private organizational concerns. Includes an orientation of the different prevailing thoughts in marketing today including the historical, economic, consumer, and systems approaches. Market research and market segmentation strategies are examined, as well as current government agency regulation concerning marketing practices.

MGMT 2302 Personnel Management

(3-0) Credit: 3

The dynamic role of management as it relates to personnel with emphasis on the management

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

MGMT 2305 Business Law I

(3-0) Credit: 3

Nature and scope of law; court system; law of contracts; principal and agent; business organizations, including partnerships and corporation; Texas community property laws.

MGMT 2306 Business Law II

(3-0) Credit: 3

Additional studies in law of business, dealing with bailments, carriers, mortgages, suretyships, negotiable instruments, banks and banking, wills and estates, sales, bankruptcy. No prerequisite is required for this course.

MGMT 2307 Life Insurance

(3-0) Credit: 3

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

MGMT 2309 Supervision

(3-0) Credit: 3

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

Management, Applied (MGMT)

MGMT 1151 Military Correspondence Typing (.5-2) Credit: 1
Course

MGMT 1152 Military Correspondence Typing (1-3) Credit: 1

Course

This course is designed to improve and expand the basic typing skills with emphasis on production of various forms of military correspondence.

MGMT 1153 The Army Maintenance Management (1.3-1.3) Credit: 1
System (TAMMS)

This course is designed to provide information on the purpose, use, preparation and disposition of Maintenance Management forms for Army personnel.

MGMT 1154 Supply Management Course

(2-.5) Credit: 1

This course provides detailed and management information on preparation and maintenance of unit supply records, hand receipt, personal clothing records, laundry, and accounting for lost, damaged, and destroyed property utilizing DA PAM 710-2-1 and DLOGS systems.

MGMT 1155 Prescribed Load List Course (DLOGS) (1.3-1.3) Credit: 1 This course provides management and detailed information for initiation, requesting and accounting for repair parts under the DLOGS System TM 38-L22-15-2 and DA PAM 710-2-1.

MGMT 1156 Prescribed Load List (Manual)

(1.3-1.3) Credit: 1

This course provides management information and detailed information on initiation, posting, maintenance of accounting records under a manual system and requesting and turning in repair parts using DA PAM 710-2-1.

MGMT 1159 College Typing and Military
Correspondence (A)

(1.5-2) Credit: 1

This course is designed to teach typing up to 25 words a minute, Army functional files, military correspondence, military orders and handling and safeguarding of classified information.

MGMT 1160 Beginning Typing and Military (.5-2.3) Credit: 1
Correspondence

This 45-hour course is designed to provide sufficient practice for the soldier to develop his/her career field as clerk typist. Upon completion of this course, soldiers will be able to type at a minimum of 25 WPM (GWAM) and produce simple military correspondence such as disposition forms, military letters, civilian letters, and endorsements.

MGMT 1171 Personnel Counseling Seminar (1-0) Credit: 1 This course covers the major theories of counseling and the use of basic influence and attending skills.

Organization and Management 1301

Organizational structure can have considerable impact on the manner in which an organization functions. The student studies the complex variables over which managers can exercise control to determine proper structure. While surveying management topics such as planning, decision making, organizing, staffing and controlling, this course deals, in specific terms, with how the organization must be structured to fit its environment and operation.

MGMT 1303 Fundamentals of Industrial Credit: 3 (3-0)

Management

Application of the system's approach to the unification of all areas from human factors to environmental factors are covered, along with the manner and methods through which word can be simplified, yet made more meaningful and satisfying.

2101 Stress Management

(1-0)Credit: 1

This course identifies the factors causing stress, shows how to interpret the signs of stress and explains the basic fundamentals involved in the management of personal and organizational stress. The instruction covers the most common causes of stress in the workplace and prescriptive measures that can be taken by the manager to obtain high performance and low stress levels within the organizational setting.

Unit and Organizational Supply MGMT 2161 (2.5-0)Credit: 1 To provide the students the skills and knowledge to accomplish the duties required of units and organizational supply personnel.

2162 Personal Finance Management MGMT (1..3-0)Credit: 1

Develops an understanding of the personal business activities and actions that affect personal and family accounts, budgets, budgetary control, bank accounts, charge accounts, borrowing, buying and investing.

2164 Army Personnel

This course is designed to provide the student with the knowledge of fundamental personnel management concepts used in industry, the Army and U.S. Civil Service.

Prescribed Load List (PLL)

(2.5-0)

To provide the students with the skills and knowledge to accomplish the duties required of PLL stock supply personnel.

MGMT 2250 Motor Sergeant's Maintenance (0.6-1.8)Credit: 2 Management Course

Provides training in procedures and techniques of establishing, conducting, and evaluating standard maintenance programs for unit vehicles. Includes maintenance operation, organization, management, controls, requirements, training and records.

MCMT 2251 Junior Leader's Maintenance (2.5-0)Credit: 2

Orientation Course

This course is designed to familiarize junior leaders with maintenance concepts, maintenance management, and keeping maintenance forms.

(2.5-2.5)2253 College Typing and Military Credit: 2 Correspondence

This course provides basic typing skills in touch typing, standard formats, proof reading symbols, and formats used in preparation of military correspondence as prescribed by AR 340-15. Basic military publications, ordering, maintenance of files, and posting of regulations are also

covered. Class may be split into advanced and basic typing students.

(2.5-2.5)Credit: 2 Supply and PLL Procedures This course provides general information for personnel in MOS 76Y or 76C to operate a unit/organizational supply room and Prescribed Load List (Repair Parts) using automated system or manual records.

(2.2-0)Credit: 2 Supply Officer Course MGMT 2260

This logistics management course covers the use and interpretation of supply and authorization media; authentication of request for issue and turn in of supplies, document registers and status card files; maintenance of property books; computation of supply requirements; determination of transportation requirements; preparation and processing reports of survey; and formulation

and management of budget.

MGMT 2300 Credit and Collections

(3-1) Credit: 3

This course covers the elements of merchantile and consumer credit, organization of a credit department, sources of credit information collection tolls and procedures.

MGMT 2303 Law and Legal Assistance

(3-0) Credit: 3

Nature and scope of the law, court systems, law of contracts, principal and agent as relates to the military. Explanation of bailments, carriers, mortgages, securities, negotiable instruments, banks and banking, wills and estates. The procedures of obtaining and acquiring legal assistance for both military and civilian cases in or out of the continental limits of the United States of America are addressed. Emphasis is given on the knowledge required by the supervisor to counsel subordinates in the areas of law and legal assistance.

MGMT 2304 Labor-Management Relations

(3-0) Credit: 3

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

MGMT 2310 Personnel Counseling

(3-0) Credit: 3

Systematic study of major theories of personnel counseling with supervised experience in roleplaying utilizing these approaches.

MGMT 2312 Fundamentals of Systems Management (3-0) Credit: 3 Introduction to the "systems" concept of management and integration of this concept with the more traditional "principles" approach. This course combines theory and application of systems management and focuses on systems as they exist in many fields such as education, law enforcement, military, industry, and a variety of nonprofit organizations.

MGMT 2314 Ethics in Management

(3-0) Credit: 3

A study of the field of business management as it relates to major ethical theories. The course provides actual case studies in which ethical principles are used in solving today's business problems.

MGMT 2315 Public Relations

(3-0) Credit: 3

A course designed to prepare the student for jobs in the business world covering various principles and processes of contemporary public relations as well as effective means of influencing the public. The course traces the origins of public relations and discusses current and future trends. It looks at public relations standards, a code of ethics, and public relations as a profession.

MGMT 2350 Performance Counseling and Certification by Army Supervisor

(3-0) Credit: 3

Certification by Army Supervisors

A course designed to assist the non-commissioned officer in development of performance counseling procedures and techniques for use in the performance of their duties.

MGMT 2351 Advanced Leadership

(3-0) Credit: 3

Presents advanced leadership and management techniques, organizational goals, problem solving, communications and management of changes.

MGMT 2354 Management Problems

(3-0) Credit: 3

This course is designed to develop and improve the soldier's skills to enable him/her to effectively execute the duties required of the military manager.

MGMT 2355 Unit/Organization Supply

(3.7-.6) Credit: 3

Course is designed to prepare personnel to supervise supply management procedures at the organizational level and to control and safeguard all supplies and equipment assigned to the organization.

Management, Training (MGMT)

MGMT 1158 Training Manager's Workshop

(1.5-0) Credit: 2

This course is designed for battalion and company commanders and S-3's for their training management duties and stresses training status, goals, priorities, resources and short and long term plans.

MGMT 1201 Management of Performance Oriented (2-0) Credit: 2 Training

A course designed to provide a performance oriented approach to managing training in which the manager learns to establish performance oriented objectives, tests, and follow-up evaluations.

MGMT 1202 Briefing Techniques, Aids and Devices (2-1) Credit: 2 A course designed to provide the manager with the capability of employing proper briefing methods and to develop the skills required to produce briefing aids to include charts, graphs, posters, slides, filmstrips, transparencies, opaques, and other media.

MGMT 1203 Evaluation of Instruction and Training (2-1) Credit: 2 A course designed to provide the manager with the rationale, methods, and procedures for evaluating the effectiveness and efficiency of instruction and training. Emphasis will be directed toward evaluating performance oriented training and developing the suggestions for improvement which can be provided to management.

MGMT 1204 Setting Objectives and Goals (2-1) Credit: 2 A course designed to provide managers with the processes involved in defining objectives, determining desired goals, and analyzing performance training to enhance achievement of those goals and objectives.

MGMT 1205 Analysis of Training Requirements (2-1) Credit: 2 A course designed to provide managers with techniques for determining organizational and personnel training requirements. Definition of needs and ensuring they are compatible with available resources will be stressed in this course.

MGMT 1206 Professional Resource Management (2-0) Credit: 2 A course designed to provide managers with the capability to assist subordinates in the screening, selection, evaluation, and application of employee training programs.

MGMT 1207 Professional Development of (2-0) Credit: 2 the Manager

A course designed to equip leaders with skills necessary to provide assistance to subordinates in problem solving. Emphasis will be placed on effective, active and passive performance by leaders which will correct mistakes or reinforce good performance that will cause individuals to be motivated.

MGMT 1208 The Training System Management (2-1) Credit: 2 A course designed to provide managers with methods required to plan, organize, staff, influence, and control training. The main purpose will be to develop a plan and employ limited resources to accomplish system objectives.

accomplish system objectives.

MGMT 1209 Managerial Theories (2-0) Credit: 2

A course designed to provide examination of managerial theories to include management functions, decision-making skills, problem solving techniques, and performance standard oriented approaches to management.

MGMT Trainers Workshop (TW) (1.5-0)Credit: 1 2150 Credit: 1 MGMT 2151 Platoon Trainer's Workshop (1.5-0)Training Supervisor's Workshop (1.5-0)Credit: 1 **MGMT** 2152 **Tob Performance and Motivation** (2-0)Credit: 2 MGMT 2201

A course designed to provide managers with the capability of applying approaches that influence employee job performance through the adoption of appropriate leadership and motivation techniques, and assessment of group and individual behavior patterns. Communication problem solving techniques in a changing society, as they affect the day-to-day efforts of subordinates will also be explored.

MGMT 2202 Individual Orientation Techniques (2-0) Credit: 2 A course designed to provide managers with the skills required to orient personnel in individual job tasks and to facilitate the continuity of the organization's functions.

MGMT 2203 Group Orientation Techniques (2-1) Credit: 2 A course designed to develop managerial skills required in group training efforts. Emphasis is placed on integrating individual experiences into the group orientation efforts. Prerequisite: MGMT 2202.

Credit: 2 (2-1)Assessing of Training Standards, MGMT 2204

Goals and Objectives A course designed to provide managers with the ability to establish realistic and relevant training

standards. The relationships among organizational goals, training objectives, and training standards are emphasized to ensure continuity of effort. Personnel involved in the process and appropriate strategies and methodologies in the establishment of training standards are also stressed. Prerequisite: MGMT 1204.

(2-1)Credit: 2 2205 Management Training Theory MGMT

This course provides the manager with a basic knowledge of management training theories and application of the aspects of training which influence effectiveness of management and the learning process.

MGMT Management Learning Strategies (2-1)2206 Credit: 2

This course is designed to provide managers with a systematic approach to training program development. Theoretical and empirical modes of learning and topics related to social problems affecting the design of instruction environments will be emphasized.

MGMT 2255 Platoon Trainer's Workshop (2.5-0)Credit: 2 MGMT 2256 Training Supervisor's Workshop (2-0)Credit: 2

Provide training management for the medium sized organization (battalion) to include long and short range plans, LRC, and ARTEP.

Trainer's Workshop (TW) MGMT 2257 (2.3-0)Credit: 2

2258 Training Manager's Workshop MGMT (2-0)Credit: 2 Provide training management information for battalion sized units to include long and short

range goals, training assets, money and allocations, and ARTEP standards.

2259 Platoon Trainer's Workshop (2.3-0)Credit: 2

Course provides management of training instruction at the platoon level, includes long and short range planning and ARTEP integrated training for small groups.

2358 Trainer's Workshop (TW) (2.5-0)Credit: 3

Course provides management of training for the small unit, individual SQT and small group performance oriented training.

Management, Food Service

(See Food Service)

Management, Hotel-Motel

(See Hotel-Motel)

Mathematics (MATH)

MATH 0300 Introductory Algebra (3-0)

Credit: 3 Designed for students who need a review of fundamental algebraic operations. Topics include operations on real numbers, polynomials, linear equations, linear inequalities, factoring, and selected stated problems. Classified as a Developmental Course. (Previously numbered MATH 1300)

MATH 1101 **Basic Concepts of Statistics** (1.25-0)Credit: 1

Basic Concepts of Statistics is a one semester hour course designed to present introductory statistical methods. Emphasis is placed on the theory of probability and basic understanding of statistical language and mathematical symbols used. This course will introduce the student to collection and tabulation of data, sampling, averages, probability and distribution.

Intermediate Algebra 1301

This course includes algebraic fractions, functions, rectangular coordinate system, the straight line, exponents, radicals, complex numbers, quadratic equations and quadratic inequalities. Prerequisite: MATH 0300 or acceptable placement test score.

MATH 1302 College Algebra

(3-0)

This course is a continuation of MATH 1301. Topics include theory of equations, exponential and logarithmic functions, systems of linear equations, matrices and determinants, arithmetic and geometric sequences, binomial theorem, permutations and combinations. Prerequisite: MATH 1301 or acceptable placement test score.

MATH 1303 Trigonometry

(3-0)Credit: 3

Wrapping function, circular functions, trigonometric functions, use of tables, identities, applications to right triangles and oblique triangles, inverse functions, trigonometric equations. Prerequisite: MATH 1301 or equivalent.

MATH 1304 Analytic Geometry

(3-0)Credit: 3

An algebraic treatment of straight lines, circles, parabolas, hyperbolas, ellipses. Transformation of coordinates, curve sketching, polar coordinates. Prerequisite: MATH 1303 or equivalent.

MATH Finite Mathematics I Symbolic logic, set theory, permutations, combinations, counting methods, probability.

Credit: 3

Prerequisite: MATH 1301 or equivalent.

MATH 1306 Finite Mathematics II (3-0)Credit: 3

A continuation of Finite Mathematics I. Introduction to statistics, graphing, vectors, matrices, linear and programming. Prerequisite: MATH 1305.

1307 Business Math (3-0)Credit: 3

Introduction to the application of mathematics processes in business, including interest, mortgages, taxes, insurance, payroll, inventory deductions, discounts, depreciation, annuities.

Elementary Statistics

Credit: 3

Collection and tabulation of data, bar charts, graphs, sampling, averages, dispersion, correlation, index number, normal curve, probability, inferential statistics, applications. Prerequisite: MATH 0300 or equivalent.

MATH 2301 Calculus I (Fall) Credit: 3 (3-0)

A first course in differential calculus. Prerequisite: MATH 1304 or equivalent or concurrent enrollment in MATH 1304.

MATH 2302 Calculus II (Spring) (3-0)

Credit: 3

A first course in Integral Calculus. Prerequisite: MATH 2301 or equivalent.

Advanced Calculus

(3-0)Credit: 3

A further study of limits, functions, sequences, series, elementary differential equations, partial derivatives, multiple integrals, surface integrals. Prerequisite: MATH 2302 or equivalent.

Mathematics, Applied (AMTH)

AMTH 1301 Applied Business Math (3-0)Credit: 3

Introduction to the arithmetic processes in business, including interest, mortgages, taxes, insurance, payroll, inventory deductions, discounts, depreciation, annuities. (Students who have successfully completed MATH 1307 may not take this course for credit, and students who have successfully completed this course may not take MATH 1307 for credit).

Mathematics, Developmental

(See Developmental Studies)

Mathematics, Electronics

(See Electronics Technology)

Mathematics, Technical (TMTH)

Technical Mathematics I TMTH 0300

(3-0)

A course designed to fill the needs of students in industrial and technical programs. Emphasis is placed on the use and application of the arithmetic fundamentals basic to everyday mathematics. The course includes addition, subtraction, multiplication and division of whole numbers and fractions leading to the use of percentages, denominate numbers and basic plane and solid geometry. Classified as a Developmental Course. (Previously numbered TMTH 1300).

TMTH 1301 Technical Mathematics II

(3-0) Credit: 3

This course is a continuation of Technical Mathematics I, and includes a study of algebra, trigonometric functions, graphs of trigonometric functions, solution of triangles and plane and solid geometry. Prerequisites: MATH 0300, or TMTH 0300, or permission of the Department Manager. Classified as a Developmental Course.

Medical Laboratory Technician (MELT)

MELT 1402 Hematology

(3-3) Credit: 4

That branch of medical laboratory science involving the morphology of blood and blood forming tissues. Included will be studies of normal and abnormal hematological states and coagulation studies.

MELT 1601 Introduction to Medical Laboratory Techniques

(4-6) Credit: 6

This course will be a general introduction to Medical Laboratory Technology. It will include the following: instrumentation, urinalysis, phlebotomy, immunology, blood bank and microbiology.

MELT 2201 Medical Laboratory Seminar

(2-0) Credit: 2

This will be a discussion course involving special topics. Various guest speakers will be invited to participate. Special programs in new technology may be included.

MELT 2401 Clinical Practice II

(1-10) Credit: 4

Clinical experience totaling 176 hours in an approved clinical facility and conference with instructor are required. Prerequisite: MELT 2502

MELT 2402 Medical Microbiology I

(3-3) Credit: 4

This course includes the morphology and relationship of pathogenic organisms in the human body. Primary emphasis will be placed on identification and isolation.

MELT 2403 Immunology/Immunohematology (3-3) Credit: 4
The science that deals with blood group antigens and antibodies. Included will be exercises

involved in the detection of foreign antibodies in the patient. Blood grouping and Rh factor, cross matching blood for transfusions and illnesses associated with blood incompatibilities such as hemolytic diseases of the newborn. Suppression of antibody production with the use of products for preventive therapy will be studied. Prerequisite: MELT 1601

MELT 2404 Medical Microbiology II

(3-3) Credit: 4

Continuation of MELT 2402. It will also include parasitology and mycology. Primary emphasis will be placed on identification. Prerequisite: MELT 2402.

MELT 2405 Clinical Chemistry

(3-3) Credit: 4

Designed to study blood chemistry covering vital organs of the body and their effect on blood chemistry. Deals with chemical analysis of body fluids.

MELT 2406 Clinical Practice III

(1-10) Credit: 4

Clinical experience totaling 176 hours in an approved Clinical Laboratory, plus Clinical Conference with the Laboratory Director and/or Instructor. Prerequisite: MELT 2401.

MELT 2502 Clinical Practice I

(1-13) Credit: 5

Clinical experience totaling 224 hours in an approved clinical facility and conference with instructor are required. Prerequisites: MELT 1402, MELT 1601, BIOL 1406 and CHEM 1402.

Medical Technology

(See Biology, Chemistry)

Microcomputer Technology (MISC)

MISC Introduction to BASIC 1306

(2-3)Credit: 3

Offers an introduction to the basic concepts and constructs of programming in BASIC for the student interested in using a computer at home, in a small business or as a tool in a subject area such as math or science. Applications will illustrate personal computing techniques.

MISC 1403 Introduction to Computer

(3-3)

Credit: 4

Science & Programming

Problem solving, algorithm development, pseudo code, flow charting and a high level language are covered in depth. No prior knowledge of computers or programming is assumed.

MISC COBOL Programming Credit: 4

Provides the student with skills and fundamentals in solving business data processing problems using COBOL. The student becomes effective in COBOL programming techniques involving sequential files. Single and double dimension table handling, control breaks, and an introduction to indexed file handling. Prerequisite: MISC 1403 or MISC 1451.

Computer Concepts and Analysis (3-3)Introduces the student to digital computer systems with emphasis on current technology and terminology. Historical development of computing machinery, number systems, data representation, hardware and software. Methods of identifying business problems best suited for solutions and the analysis techniques to develop systems which these applications are presented.

MISC 1406 Computer Organization & (3-3)Credit: 4

Architecture

A study of hardware and software characteristics of digital computers designed to give the student an understanding of how the fundamental principles by which computers work affect and govern programming techniques. Topics include data representation, machine instruction types, fetch and execution cycles, interrupt schemes, metaprograms, I/O handling, and assembler concepts. PrerequisiteS: (MISC 1403 or MISC 1451) and MISC 1405.

MISC Word Processing for Microcomputers An entry level course designed to teach the use of a current state-of-the-art word processor in a hands-on environment. Includes overview of currently available word processors, their similarities and differences, and the selection process of matching information requirements with word processor capabilities. Installation and tailoring of word processor software.

MISC 1430 Spreadsheets for Microcomputers Credit: 4 An entry level course that presents the design and use of typical spreadsheet software available. Selected state-of-the-art spreadsheet software packages will be used by the student for hands-on computer applications. Advantages and disadvantages of current spreadsheet software as well as installation of spreadsheet software will be covered.

MISC 1440 Data Base for Microcomputers (3-3)Credit: 4 An entry level course designed to teach the use of a current state-of-the-art data base in a handson environment. It includes an overview of currently available data bases, their similarities and differences, and the selection process of matching information requirements with data base capabilities. Installation and tailoring of data base software.

Credit: 4 (3-3)MISC Microcomputers for Business An introduction to the use of the microcomputer as a business tool. Designed specifically for the business oriented, this course will provide familiarity with the microcomputer and its use in the business sector. A hands-on introduction to the use of a word processor, spreadsheet, database, and BASIC programming is provided. Types of hardware and software available for business will be studied.

MISC 1451 Introduction to Microcomputer (3-3)Credit: 4 Programming

Introductory programming course for Microcomputer Technology majors. No prior knowledge of computers of programming is assumed. Problem solving, algorithm development, pseudo code and flow charting. A high level language is covered in depth through programming assignments.

MISC 1454 PASCAL Programming

(3-3) Credit: 4

A thorough coverage of Structured Programming. Emphasis on top-down programming and modular organization. Major topics to be covered include constants, variables, expressions, input and output, self-contained procedures, making decisions (REPEAT-UNTIL, WHILE-DO, and FOR loops), data types arrays, character strings, records and sets, pointers and disk files. An introduction to C language will also be provided. Prerequisite: MISC 1451 or COSC 1403.

MISC 2301 Information Center Management (3-0) Credit: 3
Defines the infrastructure of Information Centers and describes their role and responsibilities in terms of assisting professionals with varying degrees of computer knowledge in using computer technology in the performance of their job function.

MISC 2302 Hardware/Software Selection (3-0) Credit: 3

& Acquisition

Selection and acquisition of hardware and software. Topics include capacity sizing of key hardware components, compatability considerations, lease/purchase alternatives, in-house versus packaged software, documentation and training provided, vendor responsibilities and support, future upgrade capability to support growth, procurement proposals and contracting. Prerequisite: 12 semester hours of MISC courses or equivalent experience.

MISC 2401 Advanced COBOL

(3-3) Credit: 4

Offers the student of COBOL programming an in-depth study of the theory, programming techniques, and programming efficiencies that will be required of the commercial COBOL programmer. A thorough coverage is given to file design and the special features of ANS COBOL language. Emphasis is placed on multi-dimensional table handling, searching and sorting techniques and indexed file manipulation. Structured design and programming will be stressed. Prerequisite: MISC 1404.

MISC 2402 Systems in the MIS Environment (3-3) Credit: 4 This course examines advanced systems including data base, distributed processing, teleprocessing, local area networks, management information systems and decision support systems. Emphasis will be placed on database management systems through the development of a data base project. Prerequisite: 16 hours in Microcomputer Technology including MISC 1405.

MISC 2405 Information Structures

3-3) Credit: 4

Advanced programming techniques to include two and three dimensional arrays, linked list, index structures, binary search, sorting techniques, direct access processing, and subroutines. Programs will be written in a high-level language. Prerequisite: Eight semester hours of programming.

MISC 2451 Operating Systems

(3-3) Credit: 4

This course provides comprehensive coverage of major present-day operating systems. Topics include system configuration, batch files, directory and hard disk management, utilities, networking/multi-user support, installing and customizing application software. Prerequisite: (MISC 1406 and 8 semester hours in programming) or (16 semester hours MISC courses including MISC 1451).

MISC 2453 Advanced BASIC Programming (3-3) Credit: 4 An in-depth study of advanced techniques for writing efficient and well designed commercial applications. Interactive and conversational programming techniques, to include data editing, menus, string manipulation. File handling will be emphasized. Prerequisite: MISC 1451 and one other programming language.

MISC 2454 Data Communications & Networking (3-3) Credit: 4 A study of the methods and criteria used to define and implement data communications and networking of present day computer systems. Topics include data transfer, communications hardware and software, security, Local Area Networks, micro to mainframe interfaces, current and future applications of data communications. Prerequisite: MISC 2451.

MISC 2455 Microcomputer Field Projects (1-9) Credit: 4 This course consists of practical applications in the field of microcomputers, commercial and/or scientific programming, and is designed to fit the needs and career objectives of the student. Prerequisite: Consent of instructor.

MISC 2456 C Language Programming (3-3) Credit:

The use of C in both system and application programming. Major topics include fundamental flow-control constructions, statement grouping, decision making, looping with termination test at top (While, For) or bottom (Do), and case selection (Switch). Detailed use of functions with internal, external, and global variables. Address arithmetic and call by reference will also be covered. Prerequisite: MISC 1454.

MISC 2457 Programming with ADA® (3-3) Credit: 4

An introduction to the basic syntax and semantics of ADA programming language. The design and use of the language will be the general theme of the course while programming exercises will be used to illustrate specific implementations of the language structure. Emphasis will be on importance of style and linguistic considerations. Prerequisite: MISC 1454.

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Mid-Management (MDMG)

MDMG 1101 Leadership Development I (1-1)

The purpose of this course is to develop an awareness and respect for education in marketing and distribution which will contribute to occupational competence, and to promote understanding and appreciation for the responsibilities of citizenship in our free, competitive enterprise system. It is intended for students who are preparing themselves for careers in middle management, sales, advertising, finance, retailing, wholesaling, insurance, real estate, fashion merchandising, food service management, hotel/motel management, and other marketing-oriented occupations. Students will be expected to participate in a student vocational leadership organization, Junior Collegiate Distributive Education Clubs of America (DECA). (Approval of a Mid-Management Coordinator is required for admission).

MDMG 1102 Leadership Development II

(1-1) Credit: 1

Credit: 1

This course is a continuation of MDMG 1101. Prerequisite: MDMG 1101 and consent of a Mid-Management Coordinator.

MDMG 1103 Leadership Development III

(1-1) Credit: 1

This course is a continuation of MDMG 1102. Prerequisite: MDMG 1102 and consent of a Mid-Management Coordinator.

MDMG 1301 Retail Management

(3-0) Credit: 3

This course is for persons intending to develop careers in retailing or marketing as well as for those seeking an introduction to the field of retailing. It contains an overview of retailing - from the development and growth of retailing to an analysis of the consumer. The impact of innovation and competition on retail institutions is studied, as well as the influence of fashion, computers, and consumerism in the industry. Other subjects include types of ownership, types of merchandise sold, the human and physical sides of store management, merchandising, selling, advertising, sales promotion, profit and pricing techniques.

MDMG 1302 Introduction To Fashion

(3-0) Credit: 3

Merchandising

Introduction to Fashion Merchandising provides an overview and history of the fashion and apparel industry, its principles and procedures. The course analyzes and production, distribution, and marketing of fashion and apparel merchandise in today's economy. In addition, subjects include the importance of fashion to the community, the marketing structure of the fashion apparel business, technology, economics, social values, culture and merchandising management. Instructional emphasis is placed on the mid-level manager's role in the industry.

MDMG 1303 Textiles, Colors & Design

(3-0) Credit: 3

Textiles, Colors and Design is a fashion and apparel course that focuses upon the rapidly changing technology of textiles and the ever-increasing consumer markets. Other subjects include the expanding home textile field, new generic fibers and finishes, new methods of computerized

control of fabric construction, the new Federal Trade Commission's law on care labeling, and the Flammable Act. Emphasis is placed upon the manager's role in the textile merchandising function.

Mid-Management Internship I (1-20)Credit: 4 MDMG 1401

This course consists of on-the-job management training that utilizes the principles, skills and knowledge gained in the theoretical setting of the classroom. The student is employed at an approved work station under the supervision of the College Mid-Management Coordinator.

MDMG 1402 Mid-Management Internship II (1-20)Credit: 4 This course is a continuation of Mid-Management Internship I. Prerequisite: MDMG 1401

Applications in Management (2-2)Credit: 3 MDMG 2301 Decision-Making

This is a course that emphasizes management decision making skills that are necessary for the modern manager to successfully deal with resource problems in his/her place of business and career field. The course is designed for the student desiring to further his/her management training by applied learning techniques utilizing decision making case studies and computerassisted models, Prerequisites: MISC 1450 or COSC 1306, sophomore standing and consent of the Department Manager.

Fashion Sales & Promotion MDMG 2304 (3-0)Credit: 3

This course addresses those activities that promote and stimulate the sale of fashion goods. It identifies what those activities are, how they are conducted, by whom and - most important why. Fashion Sales and Promotion is designed for the student whose career goals are in the field of management in the fashion apparel industry and retail marketing. Using demographics, psychographics, and attitudinal data, marketing its providing direction for both the merchandising and promotional division of today's retailers. These subjects are examined in the light of management's responsibility in the field. Prerequisite: MDMG 1302.

MDMG 2305 Fashion Buying & Merchandising (3-0)This course is intended to develop an understanding of the techniques of inventory control, elements of profit and pricing, terms of sale, and sources of buying information. Other topics include selection of merchandise, responsibilities of buying agents, and management control of the merchandising function. Prerequisite: MDMG 1302.

Mid-Management Internship III MDMG 2401 (1-20)Credit: 4 This course is a continuation of Mid-Management Internship II. Prerequisite: MDMG 1402

Mid-Management Internship IV MDMG 2402 (1-20)Credit: 4 This course is a continuation of Mid-Management Internship III. Prerequisite: MDMG 2401

Mid-Management Finance and Banking Option (FIBA)

(See Finance and Banking)

Music (MUSI)

MUSI Choir 1107

(1-2)Credit: 1 This course is recommended to all students who enter music courses, but it is open to all college

students. Preparation for on-campus and public performances.

MUSI 1205 Ear Training I (1-2)Credit: 2

This course is designed to help the student develop the aural skills pertinent to proficiency in music theory. It includes the study and proper identification of melodic patterns, intervals, chords and triads, and exercises in melodic dictation. Prerequisite: credit or enrollment in MUSI 1301.

MUSI 1206 Ear Training II

(1-2)Credit: 2

A continuation of Ear Training I. Sight singing, intervals, triads and seventh chords, asymmetric and mixed meters. Exercises in melodic and harmonic dictation. Prerequisite: MUSI 1205 and credit or enrollment in MUSI 1302.

MUSI 1301 Music Fundamentals

(3-1) Credit: 3

An introduction to music through the audio-visual relative solmization method. Study of the pentatonic, modal, and diatonic scales, key signatures, intervals, triads, cadences, introduction to four-part writing. Ear training, sight singing, melodic dictation in simple and compound meters. Cadences and canons on the keyboard.

MUSI 1302 Music Theory

(3-1) Credit 3

A continuation of Music Fundamentals with an introduction to the harmonic materials of the 18th and 19th centuries. Harmonic progressions with root and inverted triads, the dominant seventh chord, secondary dominants, sequences. Analysis of short works. Ear training, sight singing, dictation. Relative solmization method employed throughout. Cadences, canons, sequences on the keyboard. Prerequisite: MUSI 1301 or consent of instructor.

MUSI 1305 Music Appreciation

(3-0) Credit: 3

This course is designed for the music student as well as for the general college student. It emphasizes intelligent, directed listening to music with attention focused on the materials, the forms and the periods and styles of music. Course work will also cover the relation of music to other areas of cultural development.

MUSI 2303 Piano Pedagogy

(2-1) Credit: 3

Open to music majors only. The study of piano teaching methods from the beginning through the intermediate grades. The development of technique, memory, style and musicianship. The planning of a balanced repertoire, review and evaluation of piano literature. Laboratory includes supervised practice teaching. Prerequisites: credit or enrollment in MUSI 2201 and MUSI 1302, or consent of instructor.

MUSI 2304 Music Literature I

(3-1) Credit: 3

A survey of the development of music from the end of the Ancient World to the present time, with an in-depth study of the music from the 15th century through the 19th century. Principal forms, periods and composers and the literature of each of the historical periods.

MUSI 2305 Music Literature II

(3-1) Credit: 3

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

MUSI 2401 Intermediate Harmony

(3-2) Credit: 4

A study of the harmonic materials of the 18th and 19th centuries through analysis and Figured Bass exercises. Dominant and secondary seventh chords, secondary dominants, the diminished seventh chord, altered chords, nonharmonic tones. Melody harmonizations, dictation. Sequences with seventh chords on the keyboard. Prerequisite: MUSI 1302.

MUSI 2402 Advanced Harmony

(3-2) Credit: 4

The study of harmony as an organizing element of the large-scale musical structure. Diatonic, chromatic and enharmonic modulations. Melody harmonizations, analysis of larger works, harmonic dictation. Modulation to related and distant keys on the keyboard. Prerequisite: MUSI 2401.

Music, Applied (MUSI)

MUSI 1101 Class Piano I

(1-1) Credit: 1

Introduction to the keyboard, the study of Mikrokosmos Vol. I by Bartok, easy selections from the classic, romantic and contemporary piano literatures. Memory work is emphasized throughout. Scales up to two key signatures. One hour daily practice required. Prerequisite: credit or enrollment in MUSI 1301.

MUSI 1102 Class Piano II

(1-1) Credit: 1

A continuation of Class Piano I. Techniques: scales and arpeggios to four key signatures. Literature: Little Dances by Bach, a classic Sonatina, selections from the easy romantic and contemporary piano literature. Memory work is emphasized throughout. One hour daily practice required. Prerequisite: MUSI 1101 or consent of the instructor; credit or enrollment in MUSI 1301 or 1302.

MUSI 1103 Class Piano III

(1-1) Credit: 1

For students with a considerable keyboard skill. All scales and arpeggios on four octaves, Czerny studies. Literature: short preludes by Bach, a classic Sonatina or Sonata, romantic and modern compositions. Memory work is emphasized throughout. One hour minimum daily practice required. Prerequisite: MUSI 1102 or consent of the instructor, credit or enrollment in MUSI 1301 or 1302.

MUSI 1104 Class Piano IV

(1-1) Credit: 1

A continuation of Class Piano III. All scales and arpeggios on four octaves in thirds, sixths, and the octave. Literature: short preludes by Bach, a classic Sonatina or sonata, romantic and modern compositions. Memory work is emphasized. One hour minimum daily practice is required. This course is a preparation for private piano and may be repeated until the student is ready to meet the entrance requirements for MUSI 1201. Prerequisite: MUSI 1103 or consent of the instructor; credit or enrollment in MUSI 1302.

MUSI 1201 Private Piano I

(0-1) Credit: 2

Private Piano. Technique: Czerny's School of Velocity and scales and arpeggios. Repertoire: two or three part inventions by Bach, a complete classic Sonata, works by composers from the 19th and 20th centuries. All work is to be memorized. One one-hour lesson per week. Two hours daily practice required. Prerequisite: MUSI 1103 or MUSI 1104 or audition, credit or enrollment in MUSI 1302.

MUSI 1202 Private Piano II

(0-1) Credit: 2

A continuation of Private Piano I. One one-hour lesson per week. Two hours daily practice required. Prerequisite: MUSI 1201 or audition, credit or enrollment in MUSI 1302.

MUSI 2201, 2202 Private Piano III & IV

(0-1) Credit: 2, 2

Technique includes all scales and arpeggios on four octaves and Clementi or Czerny studies. Repertoire: WTC Preludes and Fugues by Bach, a Sonata by Haydn, Mozart, or Beethoven; romantic, impressionistic and modern compositions; one movement of a standard Concerto. Student is required to memorize all material. One one-hour private lesson per week. Two hours daily practice required. Prerequisite: MUSI 1202 and credit or enrollment in MUSI 2401 or 2402.

MUSI 2301, 2302 Advanced Private Piano I & II (0-1) Credit: 3, 3 Scales and arpeggios in all keys. Repertoire: Partitas, Suites, Preludes and Fugues by Bach. A Beethoven Sonata or a standard Concerto, romantic, impressionistic and modern compositions. Student is requested to memorize all the material. One hour private lesson per week. Three hours of daily practice required. Prerequisite: MUSI 2202 and credit or enrollment in MUSI 2401 or 2402.

Music, Voice (MUSI)

MUSI 1105, 1106 Class Voice I & II

(1-1) Credit: 1, 1

These courses are concerned with the most basic principles of singing; correct breathing, posture and the proper use of the vocal anatomy; i.e., palate, larynx, and tongue. Basic vocal literature will be introduced. Prerequisite: credit or enrollment in MUSI 1301.

MUSI 1203, 1204 Private Voice I & II

(0-1) Credit: 2, 2

A continuation of the principles of Class Voice I and Class Voice II, with greater depth and concentration. Students learn to improve breath control, diction, and tone quality. The literature includes songs in English and Italian, and for more advanced students, German and French. Prerequisite: MUSI 1106 and/or audition; credit or enrollment in MUSI 1301 or 1302.

MUSI 2203, 2204 Private Voice III & IV

(0-1) Credit: 2, 2

A continuation of MUSI 1203 and 1204. More difficult songs from the classic and romantic literature, oratorio and operatic arias, modern French songs, 20th century American songs. One one-hour private lesson per week. Prerequisite: MUSI 1204 and credit or enrollment in MUSI 2401 or 2402.

Nursing (NURI)

NURI 1101 Psychiatric Nursing I

(1-1) Credit: 1

This course introduces the student to the care of the emotionally ill person. Emphasis is upon the

nurse-patient relationship; the role of the nurse in the provision of care in various settings, and therapeutic communication techniques. There is a one hour laboratory component in this course. Corequisite: NURI 1902, or another clinical nursing course and permission of Director.

NURI 1901 Fundamentals of Nursing

(4-20) Credit: 9

This course provides an overview of the health care field and the role of the nurse as a member of the health care team. Instruction is designed to assist the student in developing knowledge in the areas of communication, interpersonal relations, growth and development, psychological aspects of patient care, health teaching, safety, asepsis technical skills, pharmacology, nursing math, nutrition, nursing process, nursing history, trends, legal aspects and self evaluation. Area hospitals and health agencies and various community agencies provide opportunity for clinical experience and/or observation. Corequisite: BIOL 1405. Prerequisites: ENGL 1301, MATH 1301, PSYC 1101 and PSYC 2301.

NURI 1902 Medical-Surgical Nursing I

(4-20) Credit: 9

This course is a development of knowledge, skills and attitudes necessary for planning, implementing and evaluating the nursing care of adult patients with medical and surgical problems in non-critical care areas. Includes special emphasis on perioperative nursing care of surgical patients. Content focuses on disease processes involving all body systems, diet therapy, pharmacology, mental health concepts, culture, ethnicity, religious aspects, prevention and rehabilitation. Prerequisites: NURI 1901, BIOL 1405. Corequisite: BIOL 1406.

NURI 2101 Nursing Trends Seminar

(1-0) Credit: 1

This course is designed to ease the transition from student to graduate status through exploration of patterns of patient care, areas of employment, legal and professional responsibilities, current issues and trends. The seminar method is used throughout. Prerequisite: NURI 2903.

NURI 2102 Psychiatric Nursing II

(1-1) Credit: 1

The focus of this course is on psychopathologies and the various nursing interventions appropriate for treatment. Emotional illness across all ages are included. There is a one hour laboratory component in this course. Prerequisites: NURI 1901, 1902, 1101. Corequisite: NURI 2903 or another clinical nursing course or permission of Director.

NURI 2103 Psychiatric Nursing III

(0-4) Credit: 1

This course will center on clinical application of psychiatric nursing concepts in the care of persons seeking help for emotional/mental health problems. Students are guided in use of techniques of establishing, maintaining and terminating therapeutic nurse-patient/client relationships. A number of community facilities will be utilized for the students' supervised clinical experience. Prerequisite: NURI 2903, 1101, 2102. Corequisite: NURI 2904.

NURI 2903 Maternal & Child Health Nursing (4-20) Credit: 9 The parents, child, family and/or significant others are considered a unit in this course. Nursing care experience includes maternity care (antepartum, intrapartum, and post partum), neonatal care, and pediatric care. The different needs of children related to developmental stages and pathological conditions are emphasized. Family planning, health teaching, and family adaptation to problems of daily living are also discussed. Prerequisites: NURI 1902, BIOL 1406, and PSYC 2303. Corequisite: BIOL 2404.

NURI 2904 Medical-Surgical Nursing II

(4-20) Credit: 9

This course aids the student in developing skills in caring for groups of patients with more complicated medical-surgical nursing problems. The patient and significant others are considered in the planning and administering of nursing care by use of the nursing process in the hospital, planning for discharge and continuing care in the home or with other agencies. Experiences in team nursing will provide the student with the opportunity to function as a team member and to develop beginning skills of team leading. Lectures, seminar discussions, group work, audiovisual aids, simulated experiences projects, independent research projects, and nursing conferences may be utilized in addition to clinical practice. Prerequisites: NURI 2903, BIOL 2404.

Office Administration (OADM)

OADM 1131 Beginning Typing I

(1.5-1.5) Credit: 1

A beginning course in touch typing. The course will emphasize mastery of machine parts and the keyboard.

Intermediate Typing I

(1.5-1.5)

A continuation of Beginning Typing II and Beginning Typewriting. Students will increase typing accuracy and speed. Prerequisite: OADM 1303 or OADM 1232 or ability to type 25 wpm for five minutes with no more than five errors.

Beginning Typing II OADM 1232

(1.5-1.5) Credit: 2

A continuation of Beginning Typing I. Special emphasis will be placed on speed development. The course will include an introduction to letter writing, tabulating and preparing manuscripts. Prerequisite: OADM 1131.

OADM 1234 Intermediate Typing II (1.5-1.5)

A continuation of Intermediate Typing I. Students will compose and type business letters, tabulations, and manuscripts of a more demanding nature. Prerequisite: OADM 1133.

Beginning Shorthand

An introduction to shorthand. Students will receive initial training in shorthand emphasizing

reading, writing, theory principles, brief forms and related activities. Intermediate Shorthand (3-3)Credit: 3

Students will continue shorthand training and reinforcement of theory. Prerequisite: OADM 1301 or equivalent.

OADM Beginning Typewriting 1303

(3-3) Credit: 3

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

OADM 1304 Intermediate Typewriting (3-3)Credit: 3

A continuation of OADM 1303. Additional skills in terms of accuracy and speed will be evidenced by students. Composition and typing of business letters, tabulations and manuscripts of more demanding content will be instructed.

OADM 1305 Records Management (2-1)Credit: 3

This course introduces the basic principles and procedure of records storage and control. Topics include records storage methods; procedures for the operation and control of manual and automated storage systems; rules for indexing; and principles for the selection of records equipment and supplies.

OADM 1306 Office Functions

This course is designed for the student who wishes to prepare for a career as an executive secretary. The following topics are covered: human relations skills, meetings and conferences, travel arrangements, information sources, mail handling, telephone techniques, receptionist duties, scheduling, and related office routines.

Business Correspondence

A course designed to teach effective business writing and to give practice in composing all types of business letters and reports. Typing ability and sound background in English are strongly recommended.

Business Mathematics & Calculating OADM 1309 (3-3)Credit: 3 Machines

Technique familiarization in the operation of the most commonly used office machines: computations; calculations, speed drills; percentages, discounts and net values, chain discounts, business forms. Emphasis will be placed on business mathematics.

OADM Advanced Shorthand (3-3)Credit: 3

Students will improve their ability to take dictation and transcribe mailable copy. Theory principles; brief form derivatives; vocabulary development; speed building; mailable transcription; and office style dictation will be emphasized. Prerequisite: OADM 1302 or equivalent.

OADM 2302 Advanced Typewriting

(3-3)

This course includes advanced work in such specialized production as tabulation, inter-office correspondence, manuscripts, telegrams, stencil cutting and mimeograph operation, legal forms, medical forms, special inter-office forms, and additional work on the arrangement of business letters with special features. Prerequisite: OADM 1303, 1304.

Office Accounting I OADM

Elementary principles of accounting, journalization, posting, statements, special journals; subsidiary ledgers; payroll records and payroll taxes. Special emphasis is placed on personal, family and small business accounting systems.

OADM 2305 Office Accounting II

(3-3) Credit: 3

Analysis and recording of business transactions; use of the journal and ledgers; trial balance and work sheets; adjusting and closing entries; accounting statements; introduction to partnership and corporate accounting; special journals and ledgers; business papers and business procedures relating to accounting voucher system. Prerequisite: OADM 2304 or equivalent.

Automated Office Management OADM 2307 (3-0)

Credit: 3 This course includes topics of instruction in office procedures, work simplification, selection and training of office workers, supervision, office etiquette and ethics, and an analysis of the responsibilities of the manager, secretary, clerk, and other office workers. The student is given an opportunity to relate knowledge, information and skills acquired in previous academic courses. Special emphasis is placed on the relationship of the various systems that affect the modern office. Prerequisite: Sophomore standing or consent of the instructor.

Office Occupations Internship

(1-5)Credit: 3

The student will be provided a combination of occupationally related classroom instruction and on-the-job training in cooperation with offices within the Office Administration Department and other campus offices. Actual work training will be available in the following areas: typewriting, filing, duplication, use of telephone, preparation of correspondence, voice transcription machine, record-keeping, proofreading, etc.

2309 OADM Office Administration Internship (1-5)Credit: 3 Students will be provided a combination of occupational related classwork instruction and onthe-job training in cooperation with Office Administration Department and other campus offices. Students will demonstrate advanced competencies with work experiences in the following areas: taking dictation, typewriting, letter composing, telephone procedures, filing, work scheduling, financial calculating, duplicating, transcribing from dictation equipment, etc.

OADM 2350 Machine Shorthand

(3-3)Credit: 3

This course is an introduction to machine shorthand. It covers machine shorthand principles, abbreviations, derivatives, word lists, and operation of the machine. The students develop dexterity and keyboard mastery through writing practices and laboratory exercises.

Office Assistant

(See Office Administration)

Offset Printing (OPRT)

OPRT **Introduction to Offset Printing** (2-4)Credit: 3

This course offers the student an introduction to offset printing with a general survey of various printing processes and their uses in industry. The history of printing, the techniques involved in the production and distribution of printing materials, the kinds of printing industries, and printing terminology are included. It provides an introduction to all equipment and how each piece of equipment relates to the total plant operation.

Camera & Darkroom Procedures. OPRT 1302 (2-4)Credit: 3 Stripping & Platemaking I

Basic camera operations and darkroom procedures including percentage size calculations, simple line shots, and film processing by the tray method. Basic techniques in the precise layout of simple line negative, halftones, and combinations. Selection of proper plates for specific jobs and the exposing and developing of plates.

Offset Press Operation I 1303

Basic theory and techniques in the operation of the small (duplicator) offset press, including the "offset principle", feeding of all types of stock, image position, sheet delivery, and the maintaining of correct image density.

OPRT 1304 Bindery Operations, Cost Estimating & Pricing

(2-4) Credit: 3

Theory and operation of the paper cutter, paper drill, stitcher, collator and paper folder and basic binding techniques. The course includes actual print shop production-type activities utilizing this equipment. The course also contains a study of the basic characteristics of paper and ink, and the processes involved in the manufacture. Procedures for estimating the expenses of and determining the amount of customer charges for printing jobs are also taught.

OPRT 1305 Copy Preparation & Layout

(2-4) Credit: 3

A study of various methods of producing body and display type is conducted. Students are taught the operations for producing both body and display type and procedures for basic copy layout and pasteups. Prerequisite: OPRT 1301 or OPRT 1302.

OPRT 1306 Camera & Darkroom Procedures, Stripping & Platemaking II

(2-4) Credit: 3

Advanced theory and techniques of line copy reproduction, with emphasis on halftone reproductions, including duotone color and multi-color stripping and plate processing of line copy. Prerequisite: OPRT 1302.

OPRT 1307 Offset Press Operation II

(2-4) Credit: 3

Advanced offset press operation including printing of large solids, duotone and multi-color line copy. Students will train on more advanced equipment and improve the skills acquired in the previous offset press operation course. Prerequisite: OPRT 1303.

OPRT 1308 Offset Printing Equipment

(2-4) Credit: 3

Maintenance

A thorough study of the adjustments, preventive maintenance and simple repair of darkroom, composing room, press room, and bindery equipment. Prerequisite: OPRT 1301 or OPRT 1303.

Philosophy (PHIL)

PHIL 2301 Introduction to Philosophy

(3-0) Credit: 3

A general introduction to critical and reflective thinking as applied to the basic problems of existence and the meaning of human life and institutions; study of methods and types of evidence utilized by authority, intuition, revelation, reason and scientific methods, and a study of the nature of philosophy, including its relation to religion, science, and art.

PHIL 2302 Introduction to Ethics

(3-0) Credit: 3

Study of basic principles of the normal life, with critical examination of traditional and current theories of the nature of goodness, happiness, duty, and freedom.

PHIL 2303 Logic

(3-0) Credit: 3

Nature and methods of correct reasoning; deductive proof; inductive proof; fallacies; arguments.

PHIL 2304 Old Testament History & Philosophy (3-0) Credit; 3

A general survey of the Old Testament as to origin, literature, and history with special study of the institutions, religions, and national life of the Hebrew people.

PHIL 2305 New Testament History & Philosophy (3-0) Credit: 3
The course will consist of a survey of all the New Testament Literature. The Synoptic Gospels, the
Johanine Corpus, Acts, the Pauline Letters, and the General Epistles. Particular attention will be
given to the methods and results of contemporary critical research in the New Testament studies.
Thus, both primary sources (New Testament documents) and secondary literature on the New
Testament will be used.

Photography (PHOT)

PHOT 1301 Introduction to Photography

(2-4) Credit: 3

The course emphasizes the handling of small cameras, film exposure, processing, contact printing, and basic enlarging. Flash and existing light photography is studied with news features, action photography, and storytelling photographs. Printing and composing photographs for publications is included.

PHOT 1302 Portrait Photography

(2-4) Credit: 3

A study is made of fundamental lighting, camera techniques, posing, composition, processing, and printing as applied to portraiture. Experience in retouching negatives and prints, mounting and making storytelling pictures for fashion and advertising is provided. Prerequisite: PHOT 1301 or consent of instructor.

PHOT 1303 Advanced Photography

(2-4) Credit: 3

The course includes elements of composition and film exposure development for specific gamma, studied sensitometry, advanced photographic printing, characteristics of printing papers, processing for contrast, print balance, and toning are included. Principles of filters and lenses and advanced focusing techniques are studied. Prerequisite: PHOT 1301 or consent of instructor.

PHOT 1304 Commercial Photography

(2-4) Credit: 3

A study is made of the fundamental differences between commercial and advertising photography. Although both are studied, emphasis will be on the commercial level such as products, houses, factories, weddings, and party photography. Emphasis on what a commercial photographer does, how he sets up a business, what equipment he needs, how he finds clients, what prices to charge, and new trends in the field are reviewed. Prerequisites: PHOT 1301 and 1302 or consent of instructor.

PHOT 1305 Advanced Print Making

(2-4) Credit: 3

This course includes special instruction and laboratory work in advanced print making, mounting, display, toning and tinting, and special procedures in graphic techniques in print making with higher contrast materials. Preparation of a black and white portfolio is included. Prerequisites: PHOT 1301, 1302, 1303 and 1304 or consent of instructor.

PHOT 1306 Print Enhancement

(2-4) Credit: 3

The course will improve the student's ability to correct flaws in photographic prints and to mask photographs by removing or adding colors to prints. The understanding and utilization of proper air brushing and other techniques and processes will provide the student with an ability to better display photographic work.

PHOT 1400 Photography as a Communicative Art (3-2) Credit: 4 This course covers the history of photography and the general techniques and technical processes of still photography.

PHOT 1401 Introduction to Photography

(3-2) Credit: 4

This course emphasizes the handling of small cameras, film exposure, processing, contact printing and basic enlarging. Flash and existing light photography is studied with new features, action photography, and story-telling photographs. Printing and composing photographs for publication included.

PHOT 1402 Portrait Photography

(3-2) Credit: 4

A study is made of fundamental lighting, camera techniques, posing, composition, processing, and printing as applied to portraiture. Experience in retouching negatives and prints, mounting and making storytelling pictures for fashion and advertising is provided. Prerequisite: PHOT 1401 or consent of instructor.

PHOT 1403 Advanced Photography

(3-2) Credit: 4

This course includes elements of composition and film exposure development for specific gamma, studies sensitometry, advanced photographic printing characteristics of printing papers, processing for contrast, print balance, and toning. Principles of filters and lenses and advanced focusing techniques are studied. Prerequisite: PHOT 1401 or consent of instructor.

PHOT 1404 Commercial Photography

(3-2) Credit: 4

A study is made of the fundamental differences between commercial and advertising photography. Although both are studied, emphasis will be on the commercial level such as products, houses, factories, weddings and party photography. Emphasis on what a commercial photographer does, how business is set up, what equipment is needed, how clients are found, what prices are charged, and new trends in the field are reviewed. Prerequisites: PHOT 1401 and PHOT 1402, or consent of instructor.

PHOT 1405 Advanced Print Making

(3-2) Credit: 4

This course includes special instruction and laboratory work in advanced print making, mounting, display, toning and tinting and special procedures in graphic techniques in print

making with higher contrast materials. Preparation of a black and white portfolio is included. Prerequisites: PHOT 1402, PHOT 1403, PHOT 1404 or consent of instructor.

PHOT 2403 Portrait Retouching (3-2) Credit: 4
Portrait negatives retouched by the use of leads, dye and etching with special attention to the study of facial structure and demonstrations in printing and retouching negatives. Some color

techniques included. Prerequisite: PHOT 1402.

PHOT 2404 Photographic Production

(1-8) Credit: 4

The student prepares a portfolio of photographs for the mass media, business, education, government, industry and science for presentation to staff members and to prospective employers. Individualized projects. Prerequisites: PHOT 1401, PHOT 1402, PHOT 1404, PHOT 2406, and PHOT 2407.

PHOT 2406 Color Photography I

(3-2) Credit: 4

Study of primary and secondary colors of light, color temperature, color compensations in film exposure, the making of color slides for visual education, theory of color negative systems and demonstrations of Type-C printing. Prerequisite: PHOT 1401

PHOT 2407 Color Photography II

(3-2) Credit: 4

Positive and negative color film processing, sensitometry, and color printing. Prerequisite: PHOT 2406.

Physical Education (PYED)

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PYED	1100	Football & Basketball	(1-2)	Credit: 1
PYED	1101	Volleyball & Softball	(1-2)	Credit: 1
PYED	1102	Beginning Badminton	(1-2)	Credit: 1
PYED	1103	Beginning Bowling	(1-2)	Credit: 1
PYED	1104	Soccer	(1-2)	Credit: 1
PYED	1105	Folk & Square Dancing	(1-2)	Credit: 1
PYED	1106	Beginning Swimming	(1-2)	Credit: 1
PYED	1107	Beginning Tennis	(1-2)	Credit: 1
PYED	1108	Beginning Golf	(1-2)	Credit: 1
PYED	1109	Basketball & Soccer	(1-2)	Credit: 1
PYED	1110	Karate	(1-2)	Credit: 1
PYED	1111	Roller Skating	(1-2)	Credit: 1
PYED	1112	Angling	(1-2)	Credit: 1
PYED	1113	Country Western Dance	(1-2)	Credit: 1
PYED	1114	Volleyball	(1-2)	Credit: 1
PYED	1115	Basketball	(1-2)	Credit: 1
PYED	1116	Individual Physical Education Activity	(1-2)	Credit: 1
PYED	1117	Hunting	(1-2)	Credit: 1
PYED	1118	Jogging	(1-2)	Credit: 1
PYED	1119	Racquetball	(1-2)	Credit: 1
PYED	2100	Advanced Bowling	(1-2)	Credit: 1
PYED	2101	Advanced Swimming	(1-2)	Credit: 1
PYED	2102	Intermediate Tennis	(1-2)	Credit: 1
PYED	2103	Advanced Golf	(1-2)	Credit: 1
PYED	2104	Tumbling	(1-2)	Credit: 1
PYED	2105	Figure Development	(1-2)	Credit: 1
PYED	2106	Advanced Badminton	(1-2)	Credit: 1
PYED	2107	Modern Dance	(1-2)	Credit: 1
PYED	2108	Physical Conditioning	(1-2)	Credit: 1
PYED	2109	Aerobics	(1-2)	Credit: 1

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PYED 1301 Foundations of Physical Education (3-0)Credit: 3

A course which introduces the student to the fields of health, physical education, and recreation. Emphasis on the scope and organization of professional activities, opportunities and qualifications of the professional physical educator.

1302 Foundations of Health

(3-0)Credit: 3 A fundamental course in principles and problems of healthful living. Emphasis on current information and thought to be applied to individual daily lives.

Credit: 3 2301 Sports Officiating (3-0)

Theory and practice in techniques of officiating. Officiating experience.

Safety & First Aid (3-0)Credit: 3 PYED 2302

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

Physics (PHYS)

College Physics I PHYS 1401

(3-3)Credit: 4

Fundamentals of classical mechanics, heat, and sound are discussed. This course is primarily for students who plan to major in medicine, dentistry, veterinary medicine, pharmacy, and for all other students needing a two semester course in physics. The course includes three hours of lecture and three hours of laboratory per week. Prerequisite: MATH 1303 or registration therein.

College Physics II 1402

(3-3)

A continuation of College Physics I, fundamentals of classical electricity, magnetism, light, wavemotion, atomic and nuclear physics are covered. Prerequisite: PHYS 1401 or consent of the instructor.

PHYS 1403 Survey of Physics

(3-3)Credit: 4

A survey of the fundamental principles of physics designed to acquaint students with the basic concepts of classical and modern physics which are the foundation of everyday phenomena.

PHYS (3-1)Credit: 4 1404 Laser Optics

This course includes a fundamental study of the operating principles of lasers, the theory of wave transmission and diffraction, and reflection and refraction of light rays. Mathematical solutions for equations involving Smell's Law and the mirror and lens formulas will be taught at appropriate times during the course. Prerequisite: MATH 1303 or consent of appropriate College official. This course is offered in Europe only.

PHYS 2401 Modern Physics I

(3-3)Credit: 4

Mechanics and heat for science majors and minors, and engineering majors. Vector algebra and calculus are used. The course includes three hours of lecture, and three hours of laboratory per week. Prerequisite: MATH 2301 or registration therein.

2402 Modern Physics II

(3-3)Credit: 4

Electricity, magnetism, wave-motion and light, an introduction to modern physics for science majors and minors, and engineering majors. Vector algebra and calculus are used. The course includes three hours of lecture and three hours of laboratory per week. Prerequisite: PHYS 2401 or equivalent.

Plant Production

(See Farm and Ranch Mgmt.)

Plumber (PLUM)

PLUM 1401 Principles of Plumbing I

(2-4) Credit: 4

This course presents the theory and practice in measuring, cutting and threading steel pipe; cutting and caulking cast iron pipe; installation of hot and cold water lines and grading and laying of sewer lines.

PLUM 1402 Principles of Plumbing II

(2-4) Credit: 4

A course of the theory and practice in gas pipe work, copper sweating, plastic drain, waste and vent systems, soil cast iron fitting and their uses.

PLUM 1403 Residential Plumbing I

(2-4) Credit: 4

A study of the practices, procedures, and techniques employed by a plumber in the roughing-in of complete plumbing systems in new construction. The different plumbing stages, the "roughin", "pulling of copper lines", and the "top-out" are covered in this course.

PLUM 1404 Residential Plumbing II

(2-4) Credit: 4

The setting of plumbing fixtures after they have been "roughed-in" is explained and practiced. The student will practice the installation of bathroom fixtures, kitchen fixtures, water heaters, dishwashers and garbage disposals. Heating units and controls are covered in the course.

PLUM 1405 Commercial Plumbing

(2-4) Credit: 4

Practices and procedures employed by a plumber in usual and unusual commercial-industrial plumbing, heating units, commercial water heaters and gas line installations are covered. Water pumping equipment, water conditioners, hot water circulation, double check valves, and backflow preventers are also emphasized.

PLUM 2401 Plumbing Layout, Codes & Estimating (3-3) Credit: 4

The residential plumbing systems are planned and plotted. Grading specifications and schematics are developed and presented. Multistory plumbing systems are studied. Residential and commercial plumbing codes are analyzed. This course also introduces techniques, formulas and methods necessary for practical, on-the-job plumbing estimates. Procedures for interpreting and reading building specifications and blueprint "take-off's" are explained and practiced. Prerequisite: DRDS 1400.

PLUM 2402 Plumbing Repair and Maintenance (2-4) Credit: 4

This course consists of practices and procedures employed by a plumber in usual and unusual service work in the field. The repairing and maintaining various types of valves, faucets, fixtures, gas controls and safety practices are covered in this course. A basic study of mechanical skills as well as public relations necessary to be developed by a service man in the field are emphasized.

PLUM 2403 Heating & Air Conditioning Plumbing (2-4) Credit: 4 This course is designed to provide the student with the basic knowledge required to install heating and air conditioning units to include the use of copper, galvanized, black and plastic pipe and fittings.

PLUM 2409 Plumbing Internship

(1-20) Credit: 4

This course consists of on-the-job plumbing training that utilizes the principles, knowledge and skills gained in the classroom and laboratory. The student is employed at an approved work site under the supervision of a College instructor/coordinator.

Pre-Med

(See Biology, Chemistry)

Psychology (PSYC)

PSYC 1101 College Orientation

(1-0) Credit: 1

This course is designed to assist the student to recognize and develop aptitudes, interests, and abilities; to make adequate personal and social adjustments to college life; and to become

acquainted with Central Texas College policies, services and activities. This course will familiarize students with the library and the use of references, texts and other materials contained in the library.

PSYC 2301 Introduction to Psychology (3-0) Credit: 3 Basic principles of human experience and behaviour involving biological, environmental and sociological studies. An overview course including an introduction to the major studies of psychology.

PSYC 2302 Personality Adjustment (3-0) Credit: 3 A study of psychological concepts and principles related to healthy personality and social adjustment.

PSYC 2303 Child Growth and Development (3-0) Credit: 3 The purpose of this course is to develop an understanding of children and to engender a real interest in them. Consideration is given to the human organism as it develops physically, mentally, emotionally and socially; from birth through adolescence.

Real Estate (REAE)

REAE 1300 Real Estate Mathematics (3-0) Credit: 3

This course includes, but is not limited to a review of mathematical logic, interest, time-valued money, depreciation, amortization, proration, and estimation of closing statements. In addition, there is an introduction to real estate investments and the basic mathematical skills needed by the successful real estate agent.

REAE 1301 Real Estate Fundamentals (3-0) Credit: 3 This course includes an overview of licensing requirements for a real estate broker and salesman, ethics of practice, titles to and conveyancing of real estate, legal descriptions, law of agency, deeds, encumbrances and liens, distinctions between personal and real property, contracts, appraisal, finance and regulations, closing procedures and real estate mathematics.

REAE 1302 Real Estate Marketing (3-0) Credit: 3

This course includes a study of real estate professionalism and ethics, characteristics of successful salesmen, time management, psychology of marketing, listing procedures, advertising, negotiating and closing, financing, and the Deceptive Trade Practices - Consumer Protection Act, as amended, and the Business & Commerce Code.

REAE 1303 Introduction to Residential Construction (3-0) Credit: 3 This course is a beginner's orientation to the concepts and terminology of residential construction including one-to-four family residential units. Topics include site analysis; foundation work; framing, interior and exterior walls; plumbing and electrical work; energy efficiency; roofing; paint and trim work; the role of architects, builders and real estate brokers in the new home construction business; and other related topics. This course is accepted by the Texas Real Estate Commission as a "related" real estate course for license credit toward both the salesman's and broker's license. The course is also apropos for the general consumer public seeking an

orientation to new home construction.

REAE 2300 Real Estate Law: Contracts (3-0) Credit: 3

This course is approved by the Texas Real Estate Commission as a "core" real estate course that

can be applied for credit toward both the real estate salesman's and broker's licenses. Contents include the required excerpts from Section 7A (3) of the Texas Real Estate License Act of 1975, as amended, including legal concepts of real estate, land description, real property rights and estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of titles. In addition, there is thorough coverage of the Broker-Lawyer Committee Statement of Principles and detailed instruction in the actual preparation of all promulgated contract forms, with emphasis on those forms most commonly used.

REAE 2301 Real Estate Brokerage (3-0) Credit: 3
This is an examination of the law of agency; planning and organization; operational policies and procedures; recruiting, selection, and training of personnel; records and control; real estate firm

competition; and the search for professionalism. Prerequisite: REAE 1301 or consent of the Department Manager.

REAE 2302 Residential Real Estate Appraisal (3-0) Credit: 3 This course is an explanation of the purposes and functions of appraisal; the social and economic determinants of value; appraisal case studies; cost; market data; income approaches to appraisal; final correlations; and reporting. The course also consists of discussions and case studies involving the nature of neighborhood analysis; land or site analysis and valuation; residential styles and utility; mortgage equity and discounted cash flow; and codes of ethics associated with the appraisal industry. Prerequisites: REAE 1301 or consent of the Department Manager.

REAE 2303 Real Estate Property Management (3-0) Credit: 3 This is an explanation of the role of the property manager, landlord policies, operational guidelines; leases; lease negotiations; tenant relations; maintenance; reports; habitability laws; the Federal, State, and local Fair Housing Laws; an overview of the real estate market; the rising role of government in real estate; cyclic aspects of real estate; the marketing process in property management; the administrative processes necessary for success; and the operation and management of a property management firm. Prerequisite: REAE 1301 or consent of the Department Manager.

REAE 2304 Real Estate Finance

(3-0) Credit: 3

This course is an overview of monetary systems, primary and secondary money markets, sources of mortgage loans, Federal Government Procedures, closing costs, alternative financial instruments, loan applications-process and procedures, equal credit opportunity, the Community Reinvestment Act, and the Texas Housing Agency purpose and operations. This course also includes the history and background of real estate financing, money and interest rates, notes and mortgages, sources of mortgage money, property appraisal, analyzing borrowers, residential loan analysis, loan analysis of income properties, loan analysis of industrial, rural and development properties, and settlement procedures. Prerequisite: REAE 1301 or consent of the Department Manager.

REAE 2305 Real Estate Law

(3-0) Credit: 3

This course consists of legal concepts of real estate; land descriptions; real property rights; estates in land; contracts; encumbrances; foreclosures; recording procedures; evidence of title; an explanation as to how ownership is held; fixture and easements; conveyancing, acknowledgements; and constructive notice; mortgages; closings, landlord and tenant relationships; regulation of real estate; and real estate taxation.

REAE 2306 Real Estate Seminar

(3-0) Credit: 3

This course is a special subjects course that may vary in content with each offering. It is designed to provide a classroom setting in order to meet the changing needs in real estate education and training. Subjects may range from math, finance, law, contracts, construction, appraisal, property management, taxation, investments, interior decoration, site analysis, blueprint reading, microcomputer applications, and various other subjects. License applicants are instructed to inquire with the Mid-Management Department as to whether the Texas Real Estate Commission will accept credits toward license requirements.

REAE 2307 Commercial Real Estate Appraisal (3-0) Credit: 3 This is an explanation of the purposes and functions of appraisal; the social and economic determinants of value; appraisal case studies; cost; market data; income approaches to appraisal; final correlations; and reporting. The course also consists of discussions and case studies pertaining to building material and equipment; building costs and estimates accrued depreciation; gross income estimates; analysis of expense; rates in capitalization; straight and annuity capitalization; and reconciliation of value indications. Prerequisites: MATH 1301 or REAE 1300 or equivalent, REAE 1301, or consent of the Department Manager.

REAE 2308 Real Estate Investments

(3-0) Credit: 3

This course shall include an analysis of real estate investment, characteristics, techniques of investment analysis, time-valued money, discounted and nondiscounted investment criteria, leverage, tax shelters, depreciation, and applications to property tax. In addition, a study of consumer investment alternatives to real estate and the customer/client counseling concerns for real estate investments will be covered. Prerequisites: REAE 1301, MATH 1301 or REAE 1300 or

equivalent, REAE 2304, or approval of the Department Manager.

REAE 2309 Advanced Real Estate Finance (3-0) Credit: 3

This is an advanced course in real estate finance designed for the licensed real estate salesman or broker, entry level mortgage loan processor, general contractor, or real estate investor. Subjects include monetary systems, primary and secondary 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 the Texas Housing Agency. In addition, students will receive an extensive amount of "hands-on" training in qualification underwriting guidelines, closing costs, yield analysis, graduated payment mortgages, adjustable rate mortgages, and other variable rate programs. Prerequisites: REAE 2304, Real Estate Finance; and REAE 1300, Real Estate Math or equivalent.

REAE 2401 Real Estate Internship I

(1-20) Credit: 4

This course consists of on-the-job training in the real estate profession that utilizes the principles, skills, and knowledge gained in the theoretical setting of the classroom. The student works at an approved work station under the supervision of a College coordinator. Prerequisite: Sophomore standing or consent of the Department Manager.

REAE 2402 Real Estate Internship II

(1-20) Credit: 4

This course is a continuation of Real Estate Internship I. Prerequisite: Sophomore standing or consent of the Department Manager.

Recreation (RECR)

RECR 1302 Principles of Recreational Leadership (3-0) Credit: 3 A study of the development of skills and leadership ability in various program areas of recreation including boys clubs, city recreation and armed forces. It describes recreational leadership methods for selection and discusses the principles and problems of recreational supervision.

Science

(See Biology, Chemistry, Geology)

EASC 1301 Earth Science

(3-0) Credit: 3

A course designed for Education majors. This course covers the nature of the earth as revealed by geology, astronomy, meteorology, and other related physical sciences.

GESC 1301 General Physical Science

(3-0) Credit: 3

This is an introductory course for students who need to acquire a basic understanding of the philosophy and methods of science. Topics will be selected from various fields of physical science and will cover a review of the basic principles and theories.

Sheet Metal (SMTL)

SMTL 1303 Insulation & Sheet Metal Standards & Materials (2-2) Credit: 3

A study of insulation and sheet metal standards and specifications. The course also includes the identification and uses of various materials, material take-off and estimating.

SMTL 1401 Sheet Metal I

(2-4) Credit: 4

This course is an introduction to the use of hand tools, power tools, flux, rivets, and fastening devices. Measurement and layout is stressed.

SMTL 1402 Plumbing & Heating Insulation (2-4) Credit: 4 A study of the theory and application of insulating materials related to pipes, fittings, vessels, tanks, heaters, breechings and ducts. The student will practice roughing-in and finish work.

SMTL 2302 Sheet Metal Layout & Planning (2-2) Credit: 3 This course presents the theory of the psychometrics of conditioned air and duct design and sizing. It is a course in practical pattern drafting and planning for industrial, commercial and residential use of sheet metal. Prerequisites: DRDS 1302, DRDS 1400.

SMTL 2401 Sheet Metal II

(2-4) Credit: 4

Practice in sheet metal fabrication and installation of skylights and ventilators. Prerequisites: SMTL 1401, WELD 1401 or WELD 1402.

SMTL 2402 Duct Work

(2-4) Credit: 4

The student will practice fabricating and installing ducts using the various fastening hardware and techniques. This course also presents the theory and practical application of carpentry as it applies to duct installation and sheet metal work. Prerequisite: SMTL 2302.

SMTL 2409 Sheet Metal Internship

(1-20) Credit: 4

This course consists of on-the-job sheet metal training that utilizes the principles, knowledge and skills gained in the classroom and laboratory. The student is employed at an approved work site under the supervision of a College instructor/coordinator.

Small Gas Engine Repair (SGER)

SGER 1401 Gas Engine Fundamentals

(2-4) Credit: 4

This course is a study of the fundamental principles and operation of the two and four stroke aircooled engine. Testing and maintenance procedures are performed on the ignition, compression, fuel, starting and lubrication systems of 2 HP to 8 HP engines. Prerequisite: INDU 1400.

SGER 1407 Small Gas Engine Service

(2-4) Credit: 4

This course provides the student with "hands-on" experiences in the repair and overhaul of small gas engines. Emphasis will be placed upon valve reconditioning, magnetos, and ignition repair, carburetor overhaul, crankshaft replacement and other types of service requirements. Prerequisites: INDU 1400, SGER 1401.

SGER 1409 Motorcycle Service

(2-4) Credit: 4

This course is designed to provide the student with the necessary skills to perform preventative maintenance, and an understanding of the theory and operation of two and four stroke motorcycle engines. Study will include the battery, electrical, fuel, tune-up, drive-line and brake systems. Prerequisites: INDU 1400, SGER 1401.

SGER 2311 Shop Organization & Management (3-0) Credit: 3 This course is designed to provide the student with an understanding of small engine repair business management. Areas of study includes customer relations, warranty provisions, service salesmanship, organization and shop layout, and the financial and operational aspects of managing a small engine repair business. Prerequisite: Sophomore standing.

SGER 2402 Chain Saw Service & Repair

(2-4) Credit: 4

This course provides the student with the theory and repair skills necessary to service all types of modern chain saws. Areas of study will include preventative maintenance, chains, guide bars, sprockets, clutches, fuel, ignition and lubrication systems. Prerequisites: INDU 1400, SGER 1401.

SGER 2407 Off-Road Small Engine

(2-4) Credit: 4

Repair & Service

This course provides the student with experiences in the maintenance and repair of mini-bikes, go-carts, snowmobiles, mobile generators, farm equipment and other small engine applications. Prerequisite: Sophomore standing.

SGER 2408 Outboard Motor Service & Repair (2-4) Credit: 4 This course is designed to provide the student with the necessary skills to disassemble, repair, and assemble outboard engines and lower drive units on various types of outboard engines. Special emphasis will be placed on the cooling, ignition and fuel systems, and the use of special tools, and service manuals. Prerequisite: Sophomore standing.

SGER 2409 Motorcycle Repair

(2-4) Credit: 4

This course is designed to provide the student with the necessary skills to disassemble, repair, replace, and assemble motorcycle engines, drive train components, transmission, and suspension systems. Special emphasis will be placed on special tools and test equipment. Prerequisites: INDU 1400, SGER 1401, SGER 1409.

SGER 2410 Lawn & Garden Equipment Service (2-4) Credit: 4
This course is designed to provide the student with "hands-on" experience in the repair of all types of power lawn care units including lawn mowers, riding mowers, garden tractors, tillers

and other similar small engine applications. Skills employed will utilize both oxy-gas and arc welding equipment when necessary. Prerequisites: INDU 1400, SGER 1401, SGER 1407, WELD 1401. Co-requisite: WELD 1402.

Social Science

(See Anthropology, Geography, Government, History, Philosophy, Psychology, Sociology)

Sociology (SOCI)

SOCI 2301 Introduction to Sociology

(3-0) Credit: 3

The study of human society; human behavior and personality as a product of group life; community organization; social change and current social problems.

SOCI 2302 Contemporary Social Problems (3-0) Credit: 3 Identification and analysis of contemporary social problems, development of criteria for evaluating problems for social betterment.

SOCI 2303 Criminology

(3-0) Credit: 3

Causes and manifestations of delinquency; case studies of criminals and their social milieu; the offender and agencies of his adjustment; analysis and evaluation of penal methods.

SOCI 2304 Social Institutions & Processes (3-0) Credit: 3 Sociological concepts and principles that are basic to an understanding of the complexity of modern society. Students, through firsthand observation and course materials, are familiarized with social institutions, class structures, and social processes which produce social organization and disorganization. Major social institutions are viewed from the standpoint of social structure

and social processes, and their future roles in society's operation and influence upon the individual and groups.

SOCI

2305

Social Psychology

(3-0) Credit: 3

The origin and development of personal behavior in interpersonal situations.

SOCI 2306 Marriage & The Family

(3-0) Credit: 3

A study of problems in courtship, marriage, and family living as they relate to the social structure of American society.

SOCI 2307 Introduction to Social Work

(3-0) Credit: 3

This course covers the development of the philosophy and practice of social work in the United States. Also included is a survey of the various social work occupations and techniques utilized in social work.

SOCI 2308 American Minorities

(3-0) Credit: 3

The principal minority groups in American society and their significant sociological problems of intergroup relations, social movements, and related social changes occurring on the contemporary American scene.

Spanish (SPAN)

SPAN 1401 Beginning Spanish I

(3-3) Credit: 4

The study of Spanish grammar and development of vocabulary. Stresses conversation in Spanish.

SPAN 1402 Beginning Spanish II

(3-3) Credit: 4

A continuation of Beginning Spanish I, with continued emphasis on conversation. Prerequisite: SPAN 1401.

SPAN 2301 Intermediate Spanish I

(3-0) Credit: 3

Continued emphasis on conversation, correct pronunciation, and correct writing. Readings from various Spanish-American authors. Prerequisites: SPAN 1401, 1402, or two years of Spanish at an accredited high school.

SPAN 2302 Intermediate Spanish II

(3-0) Credit: 3

Continues the readings from Spanish-American authors. Emphasizes grammar, composition, and conversation. Prerequisite: SPAN 2301 or equivalent.

Speech (SPCH)

SPCH 1301 Public Speaking

(3-0) Credit: 3

Research, composition, organization, and delivery of speeches for various purposes and occasions, including informative, persuasive sales, and demonstration speeches. Studies of theories and principles of interpersonal, small group and public communication.

SPCH 1302 Voice & Diction

(3-0) Credit: 3

Physiology and mechanics of effective voice production with practice in articulation, pronunciation, and enunciation. Introduction to the International Phonetic Alphabet and regional dialects (accents). Practice in achieving vocal variety through the oral interpretation of literature.

SPCH 1303 Oral Interpretation

Discussion

(3-0) Credit: 3

Study and practice in the principles of the oral reading of literature. Stresses analyzing good literature and recreating the logical and emotional content for an audience. Also includes group oral interpretation.

SPCH 2303 Business & Professional Speaking (3-0) Credit: 3

Theories and skills of speech communication as applied to business and professional situations.

Includes participating in an interview, the preparation of a resume and cover letter, engaging in a problem solving discussion, and delivering speeches in public.

2304

(3-0) Credit: 3

Study of the principles of systematic investigation and reflective thinking as applied to discussion. Practice in discussion of current problems by use of various forms: round table, panel, sales conferences, committee, parliamentary and lecture-forum.

SPCH 2305 Interpersonal Communications (3-0) Credit: 3 Theory, examples and participation in exercises to improve effective one-to-one and small group communication.

Telecommunications (TELE)

TELE 1301 Introduction to Broadcasting (3-0) Credit: 3 This is a survey course tracing the history of broadcasting from 1884 to the present. Besides history, the course will present information on comparative systems of broadcasting and on the basic operational procedures of radio and television stations. Preparation for the FCC Radio-Telephone Operator's Third Class Permit is included in this course of study.

TELE 1305 Broadcast Writing

(3-0) Credit: 3

This course covers the stylistic writing techniques as needed for commercial copy, promotional copy, news editing, radio-television show formats, and individualistic creative writing for drama or documentaries. Practical experience will be available through stations.

TELE 1402 Beginning Radio Production (3-3) Credit: 4 In this course the fundamental techniques and practices of production and programming are emphasized with a great deal of practical experience in an actual radio station. Production of various types of programs including interviews, documentaries, and basic news will be studied. Each student will be trained to competently operate a radio control board, turntables, and tape recorders.

TELE 1403 Beginning Television Production (3-3) Credit: 4
This course is designed to give the student the fundamental skills in camera operation, microphone techniques, basic set design, basic graphics, and lighting. In addition, each student will participate in the production of a daily live broadcast from a television station and other live and taped productions. A basic study of the operations of a television station will be covered.

TELE 1405 Radio-Television Announcing (3-3) Credit: 4
This course covers the duties and responsibilities of the announcer, such as operation of the audio console, announcing commercial copy, announcing station breaks, newscasting, interviewing, etc.
Special emphasis is given in the areas of voice and diction and pronunciation. Practical experience will be offered through the use of actual radio and television stations.

TELE 1406 Television Film

(3-3) Credit: 4

This course is designed to introduce the student to the fundamentals of cinematography and its applications in the television industry. Basic filming techniques will be covered, and each student

will learn to shoot 16 mm motion picture cameras, edit, story board, and process film. Laboratory exercises will provide for the shooting of at least 200 feet of film per student.

TELE 1407 Advanced Radio Production (3-3) Credit: 4
The major emphasis in this course is advanced training in the production of radio commercials, promotion announcements, documentaries, newscasting, and interviewing. An in-depth study of the programming formulas and different types of radio broadcasting is presented. Each student will be responsible for weekly programming to be aired over a radio station. Prerequisite: TELE

1402 or approval of the Department Manager.

TELE 1408 Advanced Television Production (3-3) Credit: 4 This course offers advanced training in television production. Included will be experience as cameraman, floor director, talent, lighting director, technical director, producer, graphics, film director, video tape operator and audio engineer. Practical experience in weekly television program production will be available through the use of an actual television station. In addition, a critical look will be given to television programming techniques, types of station structure, and innovative technological breakthroughs. Prerequisite: TELE 1403 or approval of the Department Manager.

TELE 2301 Technical Aspects of Broadcasting (3-0) Credit: 3 This course will help the student develop a broad technical vocabulary and a basic understanding of the technical aspects of Telecommunications. Emphasis is placed on the study of operating fundamentals and the technical limitations of telecommunications systems. Broadcast technical standards and their rationale are a major part of the course. Limited emergency maintenance techniques for production personnel are also taught.

TELE 2304 Broadcast Sales (3-0) Credit: 3
This course is designed to give the student a working knowledge of broadcast time sales. Areas of study include sales call preparation, sales presentations, spot scheduling, client interviews, collections, rate cards, contracts, and sales promotions. Station ratings and their use in broadcast sales will also be studied. Prerequisite: TELE 1301 or approval of the Department Manager.

TELE 2306 Telecommunications Seminar (3-0) Credit: 3 This seminar is designed to allow the student of broadcasting to take an in-depth look at the industry he will soon serve. Individual investigation will be conducted on the current trends in broadcasting, major issues facing the broadcaster, and the importance of broadcasting in today's society. Considerable discussion on such issues as freedom of the press and the future of broadcasting will take place. This course will give the student an up-to-date and realistic perspective of his chosen industry. Prerequisite: Sophomore standing or approval of the Department Manager.

TELE 2307 Broadcast Station Management (3-0) Credit: 3
This course is an in-depth study of management responsibilities within the broadcast industry.
Areas of study include personnel management, station budgets, profit and loss statements, network negotiations, and equipment purchases. Also included is a study of the Federal Communications Commission's rules and regulations pertaining to the overall operation of the broadcast station. Prerequisite: TELE 1301 or approval of the Department Manager.

TELE 2407 Electronic Field Production (3-3) Credit: 4 Electronic field production techniques are covered including mini-camera operations, electronic editing principles, remote audio and lighting techniques. Students assist television station's staff with remote production assignments. Prerequisite: TELE 1406 or approval of the Department Manager.

TELE 2408 Telecommunications Internship (1-8) Credit: 4
The purpose of this course is to give each student an opportunity to receive practical experience in a specialized area of study. A student may choose his individual intern study from any of the following broadcast-related areas: graphic arts, set design, photography, cinematography, broadcast journalism, sales, radio production, television production, broadcast promotion, traffic and continuity. Prerequisite: TELE 1402 and TELE 1403 or approval of the Department Manager.

TELE 2409 Telecommunications Projects I (1-8) Credit: 4
The telecommunications projects will constitute an on-the-job training experience for all the students. The laboratory portion will place the student in responsible production positions for

on-air broadcast activities on radio and/or television. Each student will produce and direct at least three major TV or radio programs on a regularly scheduled basis. In conjunction with this practical training, the student will compile a daily log of his work experience for in-class discussion and criticism. Prerequisite: TELE 1402 and TELE 1403 or approval of the Department Manager.

TELE 2410 Telecommunications Projects II (1-8) Credit: 4

A continuation of TELE 2409, this course consists of on-the-job training as a production member of an actual television or radio station for on-air operations. Prerequisite: TELE 2409.

Television Repair

(See Consumer Electronics Servicing)

Theatre

(See Speech)

Vocational Nursing

(See Nursing)

Voice

(See Music)

Welding (WELD)

WELD 1250 Basic Oxy Welding

(.2-2.3) Credit: 2

Instruction in selected types of weld joints and edge preparation includes safety requirements and maintenance of metal-working tools, supplies and equipment.

WELD 1251 Basic Arc Welding

(.2-2.3) Credit :2

Provides the student with basic arc welding skills, includes selection of electrodes, heat ranges, types of joints, edge preparation, shop safety and maintenance of equipment.

WELD 1301 Basic Gas Welding

(1-2) Credit: 3

This course covers the theory and practice of oxyacetylene cutting and welding of metals in horizontal, vertical and overhead positions.

WELD 1302 Basic Arc Welding

(1-2) Credit: 3

This course covers the theory and practice of electric arc welding. Welds will be made in all positions with various types of electrodes.

WELD 1401 Beginning Gas Welding

(2-4) Credit: 4

Instruction will be conducted in oxyacetylene welding theory and practical application. Course of study will include use and operation of oxyacetylene cutting equipment. Safety and proper care of oxyacetylene equipment will be stressed.

WELD 1402 Beginning Arc Welding

(2-4) Credit: 4

Instruction will be conducted in the theory and practical application of Shielded Metal Arc Welding with various types of electrodes in flat and horizontal positions. Course of study to include AWS electrode classification.

WELD 1403 Intermediate Arc Welding

(2-4) Credit: 4

Instruction will be given in the practice of making Shielded Metal Arc Welds in all positions. Emphasis will be placed on preparing the student for certification in flat and horizontal positions with various types of electrodes. Prerequisite: WELD 1402.

WELD 1405 Advanced Gas Welding

(2-4) Credit: 4

Instruction will be given on oxyacetylene welding in all positions and practical application of silver brazing and soft solder. Use of cutting machines will be included in the course of study. Prerequisite: WELD 1401.

WELD 1406 Blueprint for Welders

(2-4) Credit: 4

This course covers the fundamentals of drawing interpretation as applied in the welding trade. Emphasis will be on welding symbols and their significance, familiarization with terms, sizes, shapes and abbreviations.

WELD 2401 Advanced Arc Welding

(2-4) Credit: 4

Instruction will be given in the practice of taking guided bend test, with and without the use of back-up strips, in all positions. Emphasis will be placed on preparing students for certification in all positions with various types of electrodes. Prerequisite: WELD 1403.

WELD 2402 Pipe I

(2-4) Credit: 4

Intensive classroom and practical applications will be given in techniques used in the welding of rolled and fixed position pipe. Prerequisite: WELD 1403.

WELD 2404 Pipe II

(2-4) Credit: 4

Classroom instruction to be given on development of layout templates. Practical instruction will place emphasis on preparing the student for certification test on pipe. Prerequisite: WELD 2402.

WELD 2406 Welding Fabrication & Layout (2-4) Credit: 4
Practical application of steel fabrication and general layout work. Blueprint reading of welding prints with welding symbols will be included. Prerequisites: WELD 2401 and DRDS 1400.

WELD 2407 GTAW Welding (TIG)

(2-4) Credit: 4

This course provides instruction in the theory and practice of gas tungsten Arc Welding (GTAW) of aluminum, stainless and mild steel. The course of study includes types of power sources, shielding gases and metals. Welding is performed using 1/16, 3/32, and 1/8 tungsten rod in all positions. Prerequisites: WELD 1401, WELD 1402, and WELD 1405.

WELD 2408 GMAW Welding (MIG)

(2-4) Credit: 4

This course covers the theory and practice of Gas Metal Arc Welding (GMAW) of mild steel and aluminum. The course of study includes the study of the types of metal transfer and shielding gases used in these processes. Welding will be preformed 1, 2, 3, and 4G positions using .035 wirefeed. Prerequisite: WELD 1402 or ATBR 1409.

Word Processing (WOPO)

WOPO 1303 Beginning Keyboarding/Data Entry (3-3) Credit: 3 A beginning course in the fundamentals and techniques of keyboarding and data entry on personal computers. Special emphasis of speed development, including an introduction to letter writing, tabulating, and preparing manuscripts.

WOPO 1304 Intermediate Information Processing (3-3) Credit: 3
Applications

A continuation of WOPO 1303. Additional skills in terms of accuracy and speed will be evidenced by students in utilizing personal computers. Composition and typing of business letters, tabulations and manuscripts of more demanding content will be instructed.

WOPO 1307 Word Processing/Transcription (3-3) Credit: 3 This course is designed to train students in the theory of word processing. It introduces the student to word processing facilities and equipment. It provides hands-on experience with word processing equipment to include processing, editing, storing information, printing devices, formatting, type style, and paragraphing. Transcribing machines are utilized in conjunction with information creation. Prerequisite: Minimum typing skill of 40 WPM.

WOPO 2302 Advanced Information Processing (3-3) Credit: 3 Applications

This course includes advanced work in such specialized production as tabulation, inter-office correspondence, manuscripts, telegrams, legal forms, medical forms, special inter-office forms, and additional work on the arrangement of business letters with special features. Personal computers and applicable softwares are used extensively in preparing students to be highly productive office employees. Prerequisite: WOPO 1304 or equivalent.

WOPO 2303 Office Automation

(3-0) Credit: 3

The students will work with advanced problems utilizing hands-on experience with information processing facilities and equipment. Hands-on experience includes the following: editing, storing

information, printing, formatting, type styling, paragraphing, computational capabilities, functions, networking, directories and spreadsheets. A thorough study of present and future systems, i.e. interchangeability and adaptability will also be presented. Prerequisite: 12 WOPO hours or equivalent.

2304 Automated Accounting WOPO

(3-3)Credit: 3 Elementary principles of accounting, such as journalization, posting, statements, special journals; subsidiary ledgers will be studied utilizing various software packages. Special emphasis is placed on personal, family and small business accounting systems.

Information System Internship I (2-4)WOPO Credit: 3 The student will be provided a combination of occupationally related classroom instruction and on-the-job training in cooperation with offices within the Office Administration Department. Actual work training will be available in the following areas: information processing, filing, duplication, use of telephone, preparation of correspondence, voice transcription machine, record keeping, proofreading, etc.

WOPO 2309 Information System Internship II (2-4)Credit: 3 Students will be provided a combination of occupationally related classwork instruction and onthe-job training in cooperation with Office Administration offices. Students will demonstrate advanced competencies with work experiences in the following areas: taking dictation, information processing, letter composing, telephone procedures, filing, work scheduling, financial calculating, duplication, transcribing from dictation equipment, etc.

Word Processing Center Management (3-0) This course covers the factors that influence work efficiency and human behavior in the information processing center environment. This course includes a consideration of systems limitations and capabilities, work flow, system security, scheduling, managerial theories, system evaluation, human relations, and supervision. Prerequisite: Sophomore standing or the consent of the instructor.

CONTINUING EDUCATION

The non-credit program is designed to meet the continuing education requirements of the community at large. To achieve this purpose, organized programs are provided in response to anticipated, as well as, expressed needs. Generally, classes provide training for the individual; however, special interest groups can also be accommodated within the scope and philosophy of the program.

Classes are geared to the changing needs of the area and to the changing requirements of local business and industry. There is no limit to the number or variety of courses available. Classes are offered in vocational areas, general interest, and the arts. Area employees and businessmen are periodically consulted for recommendations as to types of vocational courses needed.

Additional information may be obtained by contacting the Director of the Evening College at 526-1225.

Typical courses are listed below:

Animal & Plant Care Landscaping Gardening Dog Obedience

Arts & Crafts
Sewing
Needlepoint
Cake Decorating
Flower Arranging
Drawing Texas Wild Flowers

Business & Management
Bookkeeping
Real Estate
Tax Preparation
Securities & Investments
Women in Management
Small Engine Repair

Dance & Exercise
Country & Western Dancing
Ballroom Dancing
Slimnastics
Racquet Ball

Driver Education
Under 18 Drivers Education
Adult Drivers Education
Remedial Drivers Education
Defensive Driving Education

Microcomputers Fundamentals Word Processing Data Base

Personal Development Marriage & Family Seminar Preparation for ACT Stress Management Conversational Spanish Study Skills

Recreation & Sports Sailing Summer Camping

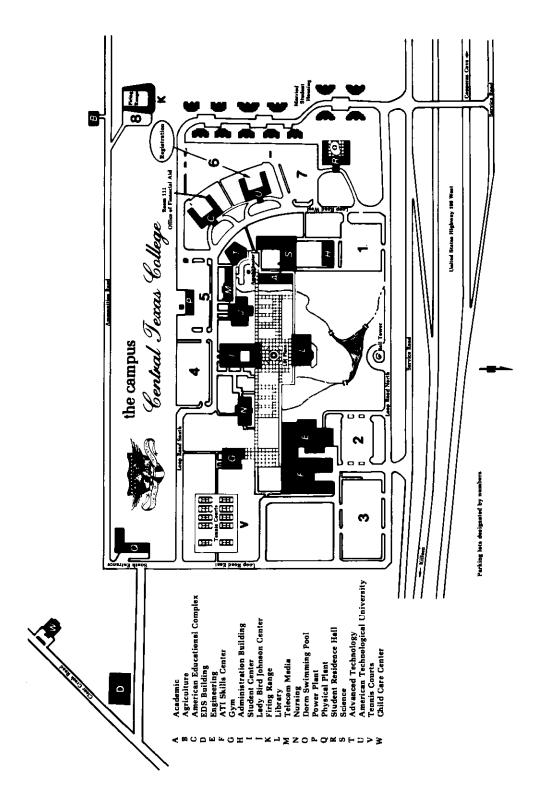
Special Interest Microwave Cooking Interior Decorating Babysitting Training Sign Language

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