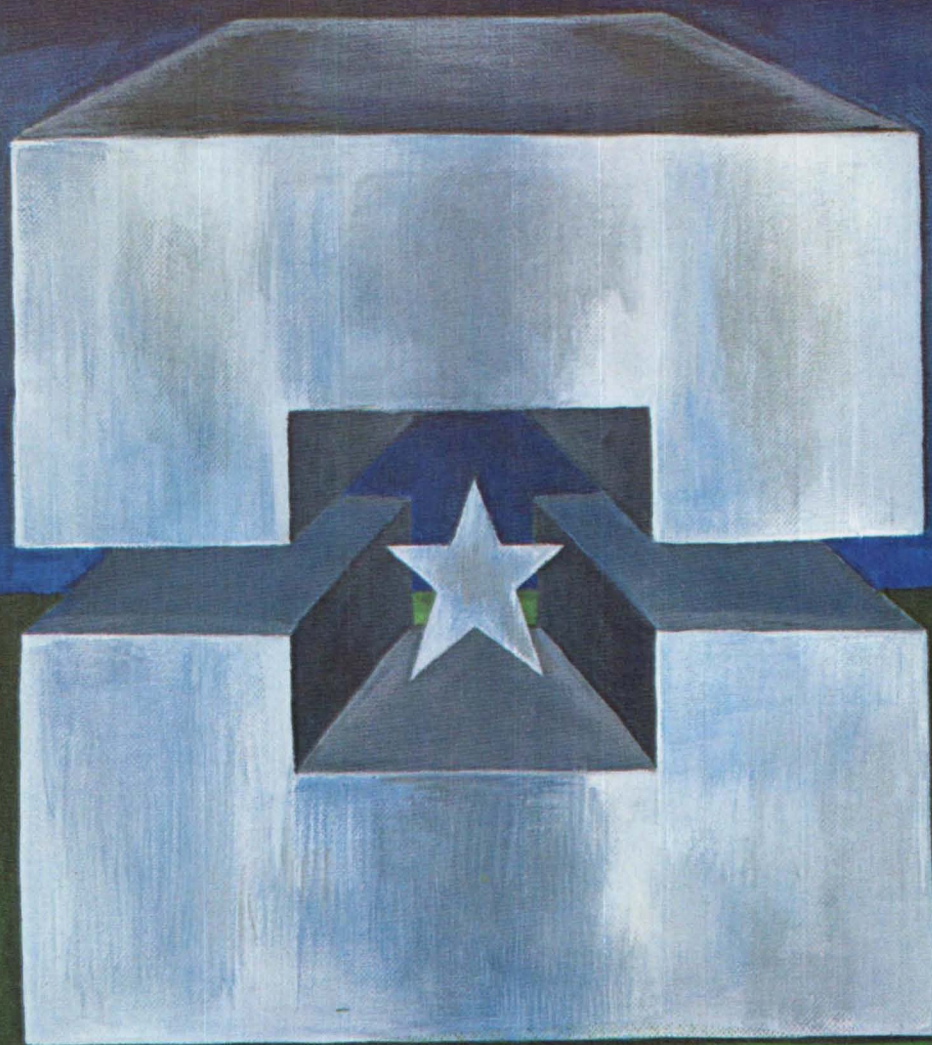


1988-89

# Richland College Catalog

Dallas County Community College District



**All blank  
pages  
have been  
removed  
from this  
document.**



**1988-89**

# **Richland College Catalog**



**Richland College**  
12800 Abrams Road  
Dallas, Texas 75243-2199

**Call for information: Counseling — 238-6106, Admissions — 238-6100**

This catalog contains policies, regulations, and procedures in existence at the time this publication went to press. The District Colleges reserve the right to make changes at any time to reflect current Board policies, administrative regulations and procedures, and applicable State and Federal regulations. This catalog is for information purposes and does not constitute a contract.

This publication prepared by the Dallas County Community College District Office of Public Information.

The Dallas County Community College District is an equal opportunity institution.



# Academic Calendar For 1988-89

## Summer Sessions, 1988

### *First Summer Session: (Based on 4 day class week)*

May 30 (M)	Memorial Day Holiday
June 2 (R)	Registration
June 6 (M)	Classes Begin
June 9 (R)	4th Class Day
June 10 (F)	Friday Class Meeting
June 23 (R)	Last Day to Withdraw with "W"
July 7 (R)	Final Exams
July 7 (R)	Semester Closes
July 11 (M)	Grades due in Registrar's Office at 10 a.m.

### *Second Summer Session: (Based on 4 day class week)*

July 12 (T)	Registration
July 13 (W)	Classes Begin
July 19 (T)	4th Class Day
August 4 (R)	Last Day to Withdraw with "W"
August 16 (T)	Final Exams
August 16 (T)	Semester Closes
August 18 (R)	Grades due in Registrar's Office at 10 a.m.

## Fall Semester, 1988

August 22 (M)	Faculty Reports
August 22-25 (M-R)	Registration Period (Varies by Campus)
August 26 (F)	Faculty Professional Development
August 26 (F)	Friday Only Classes Begin
August 27 (S)	Saturday Only Classes Begin
August 29 (M)	Classes Begin (M-R Classes)
September 2 (F)	No Friday Only Classes
September 3 (S)	No Saturday Only Classes
September 5 (M)	Labor Day Holiday
September 10 (S)	12th Class Day
November 3 (R)	Last Day to Withdraw with a Grade of "W"
November 24 (R)	Thanksgiving Holidays Begin
November 28 (M)	Classes Resume
December 9 (F)	Final Exams for Friday Only Classes
December 10 (S)	Final Exams for Saturday Only Classes
December 12-15 (M-R)	Final Exams for M-R Classes
December 15 (R)	Semester Closes
December 19 (M)	Grades due in Registrar's Office by 10 a.m.

## Spring Semester, 1989

January 9 (M)	Faculty Reports
January 9-12 (M-R)	Registration Period (varies by campus)
January 13 (F)	Faculty Professional Development
January 13 (F)	Friday Only Classes Begin
January 14 (S)	Saturday Only Classes Begin
January 16 (M)	Classes Begin (M-R Classes)
January 26 (R)	12th Class Day
February 16 (R)	District Conference Day
February 17 (F)	Faculty Professional Development (TJCTA)
February 17 (F)	No Friday Only Classes
February 18 (S)	No Saturday Only Classes
March 6 (M)	Spring Break Begins
March 10 (F)	Spring Break Holiday for All Employees
March 13 (M)	Classes Resume
March 24 (F)	Religious Holidays Begin
March 27 (M)	Classes Resume
March 30 (R)	Last Day to Withdraw With a Grade of "W"
May 5 (F)	Final Exams for Friday Only Classes
May 6 (S)	Final Exams for Saturday Only Classes
May 8-11 (M-R)	Final Exams for M-R Classes
May 11 (R)	Semester Closes
May 11 (R)	Graduation
May 15 (M)	Grades Due in Registrar's Office by 10:00 a.m.

## Summer Sessions, 1989

### *First Summer Session: (Based on 4 day class week)*

May 29 (M)	Memorial Day Holiday
May 31 (W)	Registration (Richland College Only)
June 1 (R)	Registration (All Campuses)
June 5 (M)	Classes Begin
June 8 (R)	4th Class Day
June 9 (F)	Class Day
June 22 (R)	Last Day to Withdraw with a Grade of "W"
July 4 (T)	Fourth of July Holiday
July 6 (R)	Final Exams
July 6 (R)	Semester Closes
July 10 (M)	Grades Due in Registrar's Office by 10:00 a.m.

### *Second Summer Session: (Based on 4 day class week)*

July 11 (T)	Registration (All Campuses)
July 12 (W)	Classes Begin
July 18 (T)	4th Class Day
August 3 (R)	Last Day to Withdraw With a Grade of "W"
August 15 (T)	Final Exams
August 15 (T)	Semester Closes
August 17 (R)	Grades Due in Registrar's Office by 10:00 a.m.

## Dallas County Community College District Board of Trustees



**Robert Bettis**  
Chairman



**J. D. Hall**  
Vice Chairman



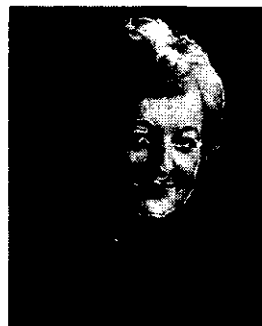
**Don Buchholz**



**Jerry Gilmore**



**Kenneth M. Pace**



**Pattie T. Powell**



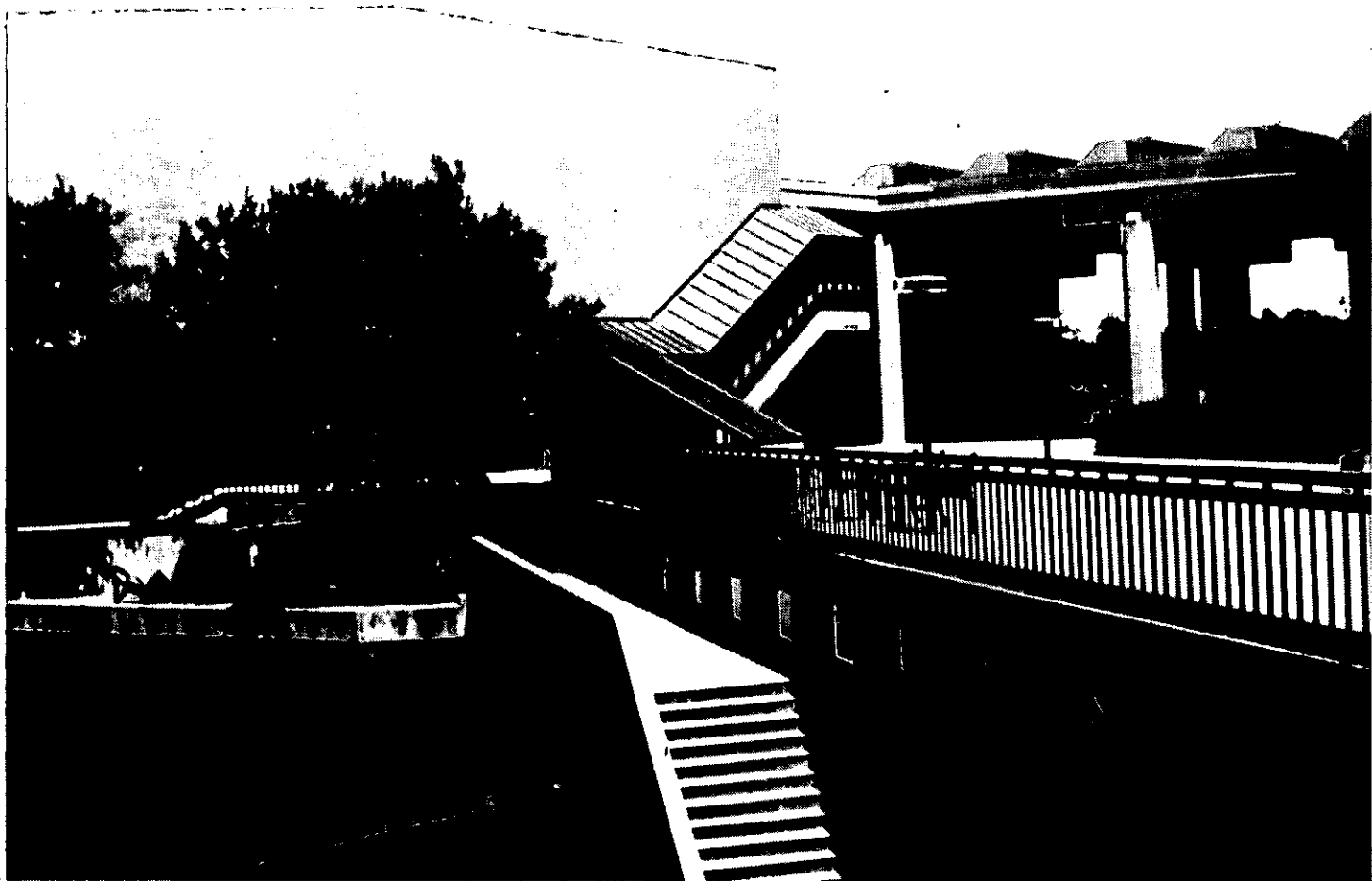
**James W. Smith**



**Lawrence W. Tyree**  
Chancellor

## Dallas County Community College District Administrators

Chancellor .....	Lawrence W. Tyree
Vice Chancellor of Business Affairs .....	Ted B. Hughes
Vice Chancellor of Educational Affairs .....	Jack Stone
Assistant Chancellor of Planning and Development Affairs .....	Bill Tucker
Executive Assistant to the Chancellor .....	Jackie Caswell
Associate Vice Chancellor/Educational Affairs .....	Rodger A. Pool
Associate Vice Chancellor of Business Affairs .....	Robb Dean
Director of Development .....	Carole Shlipak
Legal Counsel .....	Robert Young
Consultant to the Chancellor .....	Nancy Armes
Director of Career & Continuing Education .....	Ted Martinez
Director of Information Technology .....	Jim Hill
Director of Educational Telecommunications .....	Pam Quinn
Director of Personnel Services and Development .....	Barbara K. Corvey
Director of Planning, Research and Evaluation .....	Felix Aquino
Director of Public Information .....	Claudia Robinson
Director of Purchasing .....	Mavis Williams
Director of Resource Development .....	Bonny Franke-Hill
Director of Student and International Programs .....	Richard McCrary
Director of Technical Services .....	Paul Dumont



### **RICHLAND COLLEGE ADMINISTRATION**

President .....	Stephen K. Mittelstet .....	238-6200
Vice President of Instruction .....	Jesse Jones .....	238-6200
Vice President of Student Development .....	Deana Graham .....	238-6200
Vice President of Business Services .....	Lee Bacon .....	238-6200
Dean of Instruction .....	Jackie Claunch .....	238-6200
Dean of Career & Continuing Education .....	Susan Muha .....	238-6200
Dean of Educational Resources .....	Tom McLaughlin .....	238-6150
Associate Dean of Tech/Occ Programs .....	Linda Morable .....	238-6200
Associate Dean, Evening & Weekend College .....	Ken Permenter .....	238-6140
Special Assistant to the President .....	Dana Goodrich .....	238-6200
Director of Admissions/Registrar .....	Gary Matney .....	238-6100
Director of Adult Resource Center .....	Elaine Sullivan .....	238-6331
Director of Business Operations .....	Ron Clark .....	238-6277
Director of Financial Aid .....	Maria Perez-Jacome .....	238-6188
Director of Physical Plant .....	Wes Hayes .....	238-6170
Director of Public Information .....	Valenda Archer .....	238-6194
Director of Safety .....	Sam Showman .....	238-6175
Director of Student Programs .....	Cynthia Stewart .....	238-6130
Director of Testing .....	Deborah Somero .....	238-6161

### **DIVISION CHAIRPERSONS**

Business .....	Mike Ross .....	238-6210
Communications .....	Mary Osentowski .....	238-6220
Counseling .....	Mary Darin .....	238-6106
Developmental Studies/Education .....	Barbara Branum .....	238-6230
Humanities .....	George Massingale .....	238-6250
Math/Science/Technology .....	Ray Canham .....	238-6248
P.E. ....	Louis Stone .....	238-6260
Social Science .....	Corina Gardea .....	238-6290

## RICHLAND FACULTY AND STAFF

**Acree, Patricia** ..... Office Careers  
Texas Christian University, B.S.C.; North Texas State University, M.B.E.

**Albertson, Harold D.** ..... Engineering Technology  
University of Houston, B.S.; Southern Methodist University, M.S.;  
University of Texas, Austin, Ph.D.

**Allen, Floyd A., Jr.** ..... English  
University of Michigan, B.A., M.A.; North Texas State University, Ph.D.

**Alther, Robert C.** ..... History  
Indiana University, B.A., M.A.

**Anderson, Loretta G.** ..... Accounting  
University of Connecticut, B.S.; Columbia University, M.P.H., M.B.A.;  
University of New Orleans, M.S.; CPA, Texas

**Anderson, Lorrie** ..... Career Planning/Placement Specialist  
Austin College, B.A.; University of Texas, Dallas, M.S.

**Archer, Valenda K.** ..... Director of Public Information  
Richland College, A.A.; University of Texas, Arlington, B.A.

**Bacon, Lee** ..... Vice President of Business Services  
University of Texas, Dallas, M.S.

**Barber, Luke** ..... Assistant to the President  
Southern Methodist University, B.A., M.L.A.

**Barnett, George** ..... Career Planning/Placement Specialist  
East Texas State University, B.S., M.S.

**Barrett, John W.** ..... English  
University of Houston, B.A.; University of Wisconsin, M.A.  
University of Notre Dame, Ph.D.

**Beck, Larry A.** ..... Mid-Management/General Business  
Drake University, B.S.; North Texas State University, M.B.E.

**Bell, David** ..... Business  
Stephen F. Austin State University, B.B.A., M.B.A.

**Bell, Michael C.** ..... Biology  
East Texas State University, B.S., M.S.

**Bird, Sharon W.** ..... Developmental Mathematics  
University of Texas, Austin, B.S.; Southern Methodist University, M.Ed.;  
East Texas State University, Ed.D.

**Black, Jane M.** ..... Developmental Writing  
East Texas State University, B.A., M.A., Ed.D.

**Blackburn, Jo** ..... Chemistry  
Newcomb College, B.S.; Tulane Univ., M.S.

**Blackerby, Robert A.** ..... Mathematics  
Hardin Simmons University, B.A.; North Texas State University, M.Ed.;  
University of Illinois, M.A.

**Blackman, Sharon** ..... Coordinator of Career Services  
University of Tennessee, Chattanooga, B.S., M.Ed.

**Blaydes, Bart** ..... Ornamental Horticulture  
Texas Tech University, B.S.; University of Texas, Dallas, M.A.T.

**Bonner, Larry** ..... Coordinator, Special Services  
East Texas State University, M.Ed.

**Bourgeois, Helen D.** ..... Mathematics  
Tulane University, B.E., M.S.

**Boyle, Robert B.** ..... History  
Southern Methodist University, B.A., M.A.

**Branum, Barbara** ..... Chairperson, Div. of Developmental Studies  
Trinity University, B.A.; University of Kentucky, M.A.

**Brewer, Jeanne** ..... Director, Learning Disabilities Program  
Southern Methodist University, B.S.; University of Texas at Dallas, M.S.

**Brownlee, Don D.** ..... Engineering Technology  
Louisiana Tech University, B.S.E.E.; East Texas State University, M.S.

**Burke, Rose W.** ..... Biology  
Bennett College, B.S.; Southern Methodist University, M.A.

**Burnham, Weldon S.** ..... Chemistry  
University of California, Los Angeles, B.S.;  
Brigham Young University, Ph.D.

**Cadenhead, C. T.** ..... Computer Science  
North Texas State University, B.A., M.A.;  
Southern Methodist University, M.S., Ph.D.

**Calkin, Allan G.** ..... Developmental Mathematics Film  
San Angelo College, A.A.; University of Texas, Austin, B.A.  
Southern Methodist University, M.L.A.

**Canham, Raymond P.** ..... Chairperson, Div. of Math Science  
University of London, B.Sc.; University of Alberta, Ph.D.

**Carter, Perry** ..... Educational Paraprofessional  
Stephen F. Austin State University, B.S., M.Ed.

**Chapman, Sidney** ..... Philosophy  
Roberts Wesleyan College, B.A.; Michigan State University, M.A., Ph.D.

**Christopherson, Craig W.** ..... General Business  
Drake University, B.S.;  
Southern Methodist University, M.B.A.; Texas C.P.A.

**Chumbley, Richard L.** ..... Real Estate  
Howard Payne University, B.S.; East Texas State University, M.Ed.;  
Texas A&M University, S.O.A.R.S.

**Cimarolli, Mary L.** ..... English  
Texas Woman's University, B.S.; East Texas State University, M.A., Ed.D.

**Cirigliana, Mary 'Hatz'** ..... Art  
Texas Women's University, B.S., M.A.

**Clark, Ron** ..... Director, Business Operations  
Richland College, A.A.

**Claunch, Jackie L.** ..... Chairperson; Div. of Technology  
Trinity University, B.A.; Texas A&M University, M.A.;  
North Texas State University, Ph.D.

**Clements, Cynthia L.** ..... Librarian  
University of Dallas, B.A.; Texas Woman's University, M.L.S.  
University of Texas, Dallas, M.A.

**Coldwell, Patricia C.** ..... English  
Southwestern College, B.A.; Yale University, M.A., M.Phil., Ph.D.

**Collins, Dan** ..... Director of Media Services  
East Texas State University, B.S., M.S.

**Cooper, Ray E.** ..... Engineering Technology  
University of Texas, Austin, B.S., Ph.D.

**Cortina, Joe** ..... Developmental Reading  
Citrus College, A.A.; San Diego State University, B.A.;  
North Texas State University, M.Ed., Ed.D.

**Daigh, John D.** ..... Engineering  
United States Military Academy, B.S.; University of Illinois, M.S., Ph.D.;  
Professional Engineer Registration.

**Darin, Mary** ..... Coordinator of Career Services  
Augustana College, B.A.; University of Texas, Austin, M.Ed.

**Daughtery, Jean H.** ..... Construction Management  
North Texas Agricultural College, A.A.;  
Southern Methodist University, B.S., M.A.

**Davis, Roger Guion** ..... History  
Union College, B.A.; George Washington University, M.A., Ph.D.

**Dawson, Phyllis** ..... English  
Ouachita Baptist University, B.A.; Memphis State University, M.A.

**Deek, Sami D.** ..... Mathematics  
Grace College, B.A.; Ball State University, M.S.

**Delafield, Charles H. II** ..... History  
Southern Methodist University, B.S.; North Texas State University, M.S.

**Denmon, Carl** ..... Developmental Reading  
Wiley College, B.A.; North Texas State University, M.Ed.

**Dewey, Marilyn** ..... Dance  
University of Kansas, B.S.; Ithaca College, M.S.

**Dobbs, Sharon** ..... Career Planning and Placement Specialist  
University of Mississippi, B.A., M.Ed.

**Dogger, Barbara** ..... Developmental Studies  
Concordia College, B.A.; Syracuse University, M.A.;  
North Texas State University, Ph.D.

**Dolance, John** ..... Spanish  
Colorado State University, B.A.; University of Colorado, M.A.

**Duke, Jimmy Dan** ..... Government  
North Texas State University, B.S., M.S.

**Edwards, Willie J.** ..... Sociology  
East Texas State University, B.A., M.A.

**Elder, Jane R.** ..... Developmental Reading  
University of Texas, Austin, B.A.; Southern Methodist University, M.A.;  
Texas Woman's University, Ph.D.

**Esparza, Ralph Jr.** ..... Mathematics  
Midwestern University, B.S.; Oklahoma State University, M.S.

**Ezell, Vallye E.** ..... History  
Southern Methodist University, B.A.; M.L.A.

**Flowers, Jana** ..... Psychology  
University of Southern California, B.A., M.A., Ph.D.

**Garcia, Rica** ..... English  
University of Texas, Austin, B.A.; Southern Methodist University, M.A.

**Gardia, Corina** ..... Chairperson, Div. of Social Science  
Texas Woman's University, B.A.;  
University of Texas, Austin, M.Ed., Ph.D.

**Gateson, Carolyn** ..... Career Planning/Placement Specialist  
Wheaton College, B.A., M.A.

**Georges, Carolyn M.** ..... Biology  
North Texas State University, B.A.; Southern Methodist University, M.A.

**Gibbons, Mary Frances** ..... English  
Sam Houston State University, B.A., M.A.

**Glass, Victoria Luna** ..... Counselor  
University of Arkansas, B.A.; North Texas State University, M.Ed.

**Gloyd, Jane R.** ..... Ornamental Horticulture  
Richland College, A.A.A.S.; Kansas State University, B.S.;  
East Texas State University, M.S.

**Gonnel, Katherine** ..... Developmental Reading  
Texas Woman's University, B.S.; Southern Methodist University, M.Ed.;  
North Texas State University, Ed.D.

**Gooch, Stephen E.** ..... History  
Baylor University, B.A., M.A.

**Goodrich, Dana** ..... Special Assistant to the President  
University of Dallas, B.A.; Southern Methodist University, M.A.

**Graham, Deana** ..... Vice President, Student Development  
University of Texas, Austin, B.A.; M.Ed.; Ph.D.

**Graham, Stephen** ..... Philosophy  
Southern Methodist University, B.A., M.A.

**Green, Gloria** ..... Academic Advisor  
East Texas State University, B.A.

**Guerrero, Paul Jr.** ..... Music  
North Texas State University, B.A., M.Ed.

**Gussis, Jerri D.** ..... Government  
Northwestern State College, B.A.; Oklahoma State University, M.S.

<b>Hall, James W.</b> ..... English Southern Methodist University, B.A., M.A.	<b>Matter, William W.</b> ..... English Texas Tech University, B.A., M.A., Ph.D.
<b>Hanson, Carolyn</b> ..... Counselor University of Texas, Austin, B.S.; Southern Methodist University, M.A.; North Texas State University, Ed.D.	<b>McElveen, Jerry D.</b> ..... English Southeastern Louisiana University, B.A.; Louisiana State University, M.A.
<b>Harrison, Bobbie J.</b> ..... Assistant Director of Student Programs Southwestern Christian College, A.S.; Texas Tech University, B.S.; East Texas State University, M.S.	<b>McLaughlin, Thomas A.</b> ..... Dean of Instructional Services Coalingua College, A.A.; Wisconsin State University, B.S.; Southern Illinois University, M.S.
<b>Harwood, Deborah A.</b> ..... Program Director, Continuing Education	<b>McCluney, Amos R.</b> ..... Career Planning/Placement Specialist Sacred Heart College, B.S.; Emporia State University, M.S.
<b>Harwood, John</b> ..... Counselor North Texas State University, B.S.; M.Ed.	<b>McWilliams, Katie</b> ..... Career Planning/Placement Specialist Baylor University, B.S., M.S.
<b>Hayes, Wes</b> ..... Director, Physical Plant Tuskegee Institute, B.S.	<b>Meador, James E.</b> ..... Director of Cooperative Education Texas A&I, B.S.; Southwest Texas State University, M.Ed.
<b>Hayter-Hall, Priscilla</b> ..... Placement Specialist Florida A&M University, B.S.; University of Florida, M.A.	<b>Mecom, John O.</b> ..... Biology Louisiana Tech, B.S.; Northwestern University, M.S.; University of Colorado, Ph.D.
<b>Henderson, Jim R.</b> ..... Music Midwestern University, B.M.Ed.; North Texas State University, M.E.	<b>Miles, John Mike</b> ..... Aquatics Southern Illinois University, B.S.; New Mexico State University, M.A.
<b>Henderson, Thomas P.</b> ..... Real Estate University of Illinois, B.S.; Illinois State University, M.S.	<b>Millsap, Franklin</b> ..... Horticulture Muskogee Junior College, A.A.; Oklahoma State University, B.S., M.S.
<b>Henry, David</b> ..... Career Planning/Placement Specialist Hendrix College, B.A.; East Texas State University, M.S.	<b>Milton, Annette S.</b> ..... Developmental Writing East Texas State University, B.A., M.S.L.S.
<b>Herring, Marlis</b> ..... Counselor Wake Forest University, B.A.; Arkansas State University, M.R.C.	<b>Mitchell, Don</b> ..... French Roanoke College, B.A.; Tulane University, M.A.T.
<b>Hester, Gwendolyn L.</b> ..... Office Careers Michigan State University, M.A.; Wayne State University, B.S., Ed.D.	<b>Mittelstet, Stephen K.</b> ..... President McMurray College, B.A.; University of Texas, Austin, Ph.D.
<b>Hodge, Jewell E.</b> ..... Developmental Mathematics Arlington State College, B.A.; Stetson University, M.S.	<b>Molanphy, Helen</b> ..... Government Marymount College, B.A.; Hunter College, M.A.; University of Texas, Dallas, Ph.D.
<b>Hubbard, Mary Kay</b> ..... Program Director, Continuing Education University of North Dakota, B.A.	<b>Morable, Linda R.</b> ..... Associate Dean of Technical/Occupational Programs Texas Woman's University, B.S., M.B.A.; Florida State University, Ph.D.
<b>Hughes, Robert J.</b> ..... Business Central College, A.A.; Bethany Nazarene College, B.S.; North Texas State University, M.B.E., Ed.D.	<b>Morris, Conde</b> ..... Horticulture Texas Christian University, B.A.; Ohio State University, M.S.
<b>Irwin, Jim</b> ..... Music University of Iowa, B.M.; Indiana University, M.M.	<b>Mosely, Joe</b> ..... Developmental Writing Texas Tech University, B.A.; University of Arkansas, M.A.
<b>Irwin, Peter</b> ..... Computer Science Southern Methodist University, B.B.A., M.B.A.; North Texas State University, Ed.D.	<b>Motley, Tom D.</b> ..... Art University of Texas, Arlington, B.F.A.; University of Dallas, M.A., M.F.A.
<b>Jeffrey, Gloria</b> ..... Counselor Fisk University, B.A.; North Texas State University, M.Ed.	<b>Muha, Susan</b> ..... Dean of Career and Continuing Education University of Georgia, B.S.; University of Central Arkansas, M.S.
<b>Jeser-Skaggs, Sharlee</b> ..... Library Instructor/Reference Librarian Southwest Texas State University, B.A.; University of Texas, Austin, M.L.S.	<b>Muyskens, Lois Anne</b> ..... Humanities Art Dakota Wesleyan University, B.A.; North Texas State University, M.Ed.; East Texas State University, Ph.D.
<b>Jettan, Karen</b> ..... Financial Management Texas A&M, B.S.; M.B.A.	<b>Neal, William B.</b> ..... Physical Education Hiram College, B.A.; Southern Illinois University, M.S.
<b>John, Gary G.</b> ..... Counselor Austin College, B.A., M.A.; East Texas State University, Ed.D.	<b>Nelson, Susan J.</b> ..... Mathematics Austin College, B.A.; Southern Methodist University, M.S.
<b>Johnson, Carole</b> ..... Director, Library Sciences West Texas State University, B.S.; North Texas State University, M.L.S.	<b>Newbury, Fred</b> ..... Economics Howard Payne University, B.A.; North Texas State University, M.Ed., Ed.D.
<b>Jones, Jesse</b> ..... Vice President of Instruction North Texas State University, B.A., M.A., Ph.D.	<b>Northcut, Mary N.</b> ..... English University of Texas, Arlington, B.A.; Southern Methodist University, M.A.; Texas Christian University, Ph.D.
<b>Kelly, Jane</b> ..... Accounting East Texas State University, B.B.A., M.B.A.; Texas, C.P.A.	<b>Nunley, John Parker</b> ..... Anthropology University of Texas, Austin, B.A., M.A.; Southern Methodist University, M.A., Ph.D.
<b>Kelso, Mark</b> ..... English Stephen F. Austin State University, B.A., M.A.	<b>O'Connor, Linda</b> ..... Biology University of Texas, Austin, B.A.; Southern Methodist University, M.A.
<b>Kerr, James E.</b> ..... English University of Iowa, B.A., M.A., M.F.A.	<b>O'Dea, Michael D.</b> ..... Construction Management State University of New York, DELHI, A.A.S.; Missouri Western State College, B.S.; Amber University, M.S.
<b>Lambert, James W.</b> ..... Media Consultant, Audio Video Northwestern State College, B.S.; Indiana University, M.S.	<b>Ohlhausen, Orfan D.</b> ..... Mathematics Abilene Christian University, B.A., M.A.
<b>Lambert, Judy</b> ..... English Southern Methodist University, B.A.; North Texas State University, M.Ed. University of Texas at Austin, M.A.	<b>Osborne, May</b> ..... Academic Advisor University of Texas at Arlington, B.A.
<b>Landfair, Wilene</b> ..... Office Careers University of Arkansas, Monticello, B.S.; North Texas State University, M.B.E.	<b>Osentowski, Mary</b> ..... Chairperson, Div. of Communications Kearney State College, B.A.; North Texas State University, M.S.; North Texas State University, Ph.D.
<b>Leech, Virginia</b> ..... Journalism University of Texas, Austin, B.S.; Southern Methodist University, M.L.A.	<b>Parker, Carolyn</b> ..... Assistant to the President Southern Methodist University, B.A.; University of Florida, M.Ed.
<b>Leff, Gladys R.</b> ..... History New York University, B.A., M.A.; North Texas State University, Ph.D.	<b>Pascal, Nanette</b> ..... Spanish & Latin Texas Woman's University, M.A.; Villanova University, Havana, Cuba, Ph.D.; North Texas State University, Ph.D.; East Texas State University, Ph.D.
<b>Little, Peggy</b> ..... German Indiana University, A.B., M.A.T.	<b>Penner, Gary R.</b> ..... Mathematics Nebraska State Teacher's College, B.S.; University of Illinois, M.A.
<b>Lokke, Donald H.</b> ..... Geology Wheaton College, B.S.; Texas Tech University, M.S.	<b>Pepper, LaVada</b> ..... Sociology Texas Woman's University, B.S.M.A.
<b>Longbotham, Katherine A.</b> ..... Accounting Texas A&M University, B.B.A., M.B.A.; CPA, Texas	<b>Perkins, Dan G.</b> ..... Psychology Canton Community College, A.A.; Bradley University, B.S., M.A.; North Texas State University, Ph.D.
<b>Lott, Kenneth</b> ..... Mathematics University of Texas, Austin, B.A.; North Texas State University, M.S.	<b>Perkin, Randy T.</b> ..... Business North Texas State University, B.S., M.B.E.
<b>Luke, Paul J.</b> ..... Physics, Physical Science North Texas State University, B.S., M.S.	<b>Permenter, Kenneth L.</b> ..... Associate Dean of Evening and Weekend College Hardin Simmons University, B.A.; Texas Tech University, M.A.
<b>Luter, Edward C.</b> ..... English University of Dallas, B.A.; University of Miami, M.A.	<b>Peterson, Jane E.</b> ..... English Bethel College, B.A.; University of Arkansas, M.A., Ph.D.
<b>MacPhee, Carolyn S.</b> ..... Program Director, Continuing Education Washington State University, B.A.	<b>Pilcher, Rose Marie</b> ..... Business Tyler Junior College, A.S.; North Texas State University, B.B.A., M.B.E.
<b>Massingale, George W.</b> ..... Chairperson, Div. of Humanities Northeast Louisiana University, B.A., M.M.E.; North Texas State University, Ph.D.	
<b>Matlock, Jerry L.</b> ..... Developmental Mathematics University of Texas, Austin, B.A.; East Texas State University, M.S.	
<b>Matney, Gary</b> ..... Registrar, Director of Admissions Washburn University, B.S.; Southern Illinois University, M.S.	



**Ploczek, Pat** ..... Management  
North Texas State University, B.B.A., M.B.A.;  
Southern Methodist University, M.L.A.

**Polk, Larry** ..... Counselor  
East Texas State University, B.A., M.S.

**Price, Jack Randall** ..... Psychology  
North Texas State University, B.S., M.S., Ph.D.

**Rager, Ernest F.** ..... Humanities  
North Texas State University, B.M.; University of Illinois, M.S.

**Reynolds, Jackie S.** ..... Biology  
Texas A&M, B.S.; University of Hawaii, M.S.

**Ricks, Gay S.** ..... Counselor  
East Texas State University, B.S., M.S.

**Ritter, John T.** ..... Physics  
University of Tulsa, B.S.; Illinois Institute of Technology, Ph.D.

**Ross, Michael** ..... Chairperson, Div. of Business  
East Texas State University, B.S., M.S.

**Schroeder, Al** ..... Computer Science  
Southwest Texas State University, B.S.;  
Western Michigan University, M.A.; East Texas State University, M.B.A.

**Sconce, Evelyn** ..... Management  
George Mason College University of Virginia, B.A.;  
University of Missouri, M.A.; East Texas State University, Ph.D.

**Scott, Gregory L.** ..... Computer Science  
Washington University, B.S., M.S.

**Sheffield, Charles** ..... Theatre Design  
University of Texas, Austin, B.F.A., M.F.A.

**Shilling, Gerald** ..... Economics  
Central State University, B.B.A.; University of Dallas, M.B.A.

**Shorow, David** ..... Economics  
Texas Christian University, B.B.A., M.B.A.

**Skinner, Joe D.** ..... Ornamental Horticulture  
Oklahoma State University, B.S., M.S.

**Stonecker, William G.** ..... Engineering Technology/Humanities  
Olympic College, A.A.; Oregon State University, B.S., M.A.

**Somero, Debbie** ..... Career Planning/Placement Specialist  
University of Texas, Dallas, B.A.

**Somerville, Georgia Lee** ..... Counselor  
University of the Americas, B.A.; West Virginia College of Graduate  
Studies, M.A.; North Texas State University, Ph.D.

**Spence, Patricia R.** ..... English/Speech/Film  
Queens College, C.U.N.Y., B.A.; University of Wisconsin, M.A.

**Stacy, Marilyn** ..... Counselor  
Richland College, A.A.; North Texas State University, B.S.  
Texas Woman's University, M.A.

**Stanson, John D.** ..... Physical Education  
State University of New York, Buffalo, B.S.; Texas Tech University, M.S.

**Stewart, Cynthia** ..... Director of Student Programs  
Virginia Commonwealth University, B.S., M.S.

**Stone, Louis R.** ..... Lead Instructor, Physical Education  
Abilene Christian University, B.S.E., M.E.

**Stout, Dean** ..... Real Estate/Accounting  
Southwestern State University, B.S.; Oklahoma State University, M.S.;  
Texas A&M University, S.O.A.R.S.

**Stover, James W.** ..... Art  
Baylor University, B.F.A.; Columbia University, M.A.;  
Texas Woman's University, M.F.A.

**Straley, Ann** ..... Handicapped Student Specialist  
University of Texas Health Science Center, B.S.

**Stupp, William E.** ..... English/German  
Pennsylvania State University, B.A., M.A.

**Sullivan, Elaine** ..... Counselor  
Loyola University, B.S., M.S.

**Swedlund, Trudi J.** ..... English  
University of Houston, B.A.; Southern Methodist University, M.A.;  
North Texas State University, M.Ed.

**Taulbee, Thomas L.** ..... Psychology/Sociology  
Illinois State University, B.S.; East Texas State University, M.S., Ed.D.

**Teagardin, Steffani S.** ..... Physical Education  
Richland College, A.A.; North Texas State University, B.S.;  
East Texas State University, M.S., Ed.D.

**Tennant, Audrey** ..... Program Director, Continuing Education  
University of Wisconsin, B.S.; Grace Bible College, B.S.;  
University of Wisconsin, M.S.

**Thompson, Donald E.** ..... Counselor  
State University of New York, Buffalo, B.A.;  
North Texas State University, M.Ed., Ph.D.

**Tinnin, Joe** ..... Psychology  
Southern Methodist University, B.A.; Texas Christian University, M.A.

**Towles, Lorraine** ..... Director, Division of Instructional Technology  
Brigham Young University, B.A., M.L.S.

**Trickel, John A.** ..... American History  
University of Tulsa, B.A., M.A.; North Texas State University, Ed.D.

**Verett, Gary D.** ..... History/Psychology  
Abilene Christian College, B.S., M.Ed.;  
North Texas State University, Ph.D.

**Vines, Martha** ..... Director, Learning Skills  
East Texas State University, B.A.; Amber University, M.S.P.D.

**Walker, Glen D.** ..... Engineering Technology  
University of Oklahoma, B.S.; University of Texas at Dallas, M.A.T.

**Wallace, Jerry D.** ..... Music  
Texas Christian University, B.M., M.A.; North Texas State University, Ph.D.

**Warwick, Noreen M.** ..... Political Science  
Southern Methodist University, B.A., M.A.

**Watson, Ronald M.** ..... Placement Specialist  
North Texas State University, B.A.; M.Ed.

**White, Bill D.** ..... Physical Education  
Texas Wesleyan College, B.S.; North Texas State University, M.Ed.

**Williams, Rebecca** ..... Chemistry  
Louisiana State University, B.S.; Southern Methodist University, M.S.

**Wingo, Peggy Dent** ..... Computer Science/Data Processing  
University of Oklahoma, B.S.; Southern Methodist University, M.A.S.

**Wood, Hugh G.** ..... Western Civ./U.S. History  
Western State College, B.A.; University of Colorado, M.A., Ph.D.

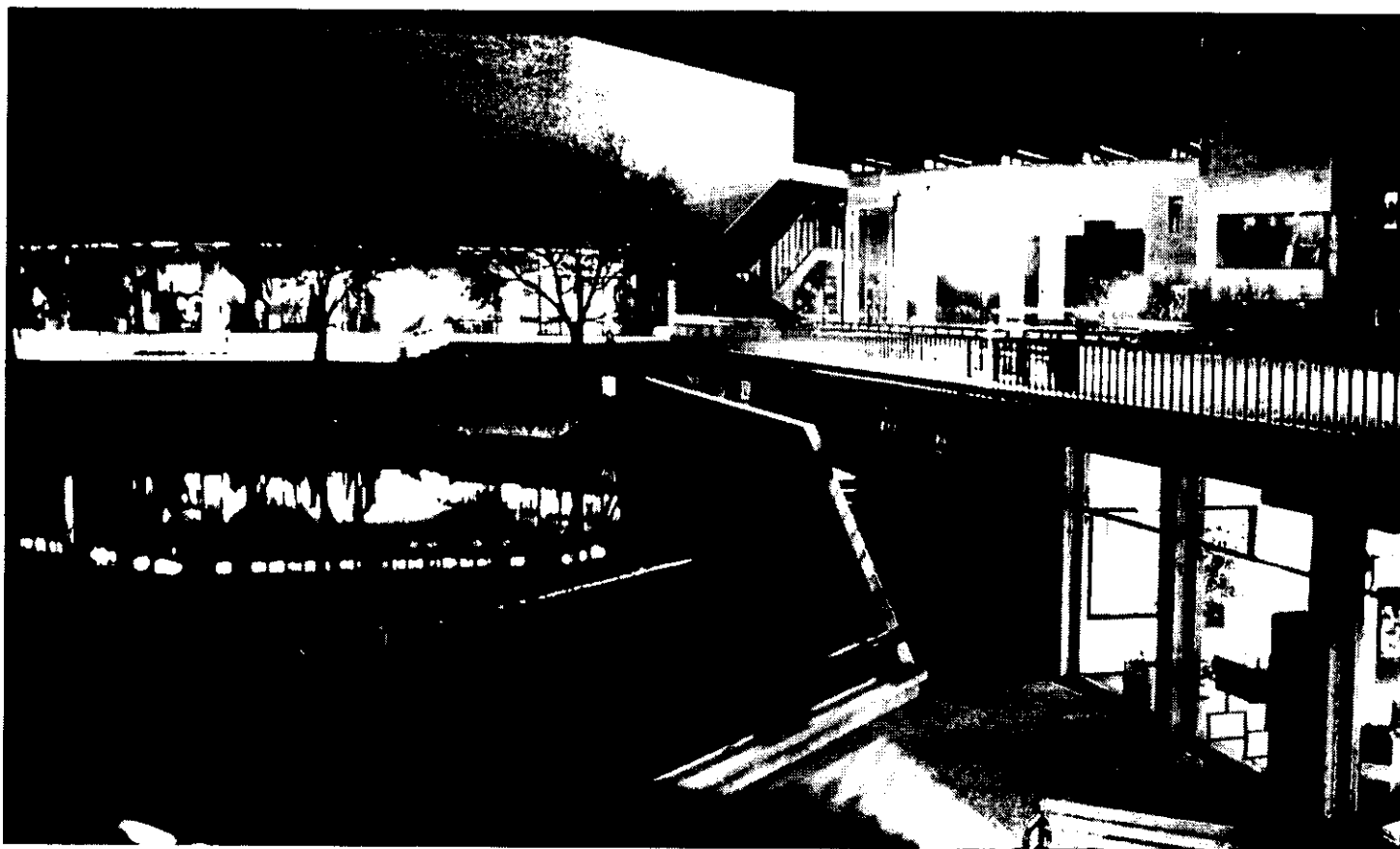
**Yates, Kathryn** ..... Government  
Midwestern State University, B.A., M.A.

**Young, Gordon D.** ..... Art  
University of Nebraska, B.F.A.; Tulane University, M.F.A.

**Zimmerman, Patricia** ..... Computer Science  
University of Texas at Austin, B.A., M.A.



# Richland College



**Richland College** is dedicated to providing quality instruction, well-equipped facilities, low tuition, and courses designed to suit the needs of our varied student body.

Our goal is to equip our students and our community with the educational resources they need and deserve. Whether you are interested in completing your first two years of college, mastering the technical skills you need to get a better job, or simply taking a course or two, we are here to help you grow personally and professionally.

Richland, one of seven campuses in the Dallas County Community College District, opened its doors in 1972 and our enrollment has grown to more than 12,000 full and part-time students each semester. An "open-door" admission policy gives every citizen of Dallas County an equal opportunity to enroll.

Our campus is clustered around a lake on 260 acres in northeast Dallas just north of LBJ Freeway at 12800 Abrams Road. Our name was selected to illustrate the Richardson and Garland communities we also serve.

Students at Richland College aren't all recent high school graduates, although these students make up an important section of our enrollment. Our academic transfer possibilities and career programs draw students from every area. Retirees looking for new interests, veterans ready to continue their education, homemakers returning to the work force — even kids who enjoy participating in our summer day-camp programs — round out our eclectic student body.

More than half of our students work in addition to

their college studies, so Richland is composed of more part-time than full-time students. Fifty percent attend classes during the day, while thirty-seven percent are night students and another twelve percent attend both day and night classes. Our student body consists of slightly more women than men, and our average student age is 27.

Richland's faculty and staff work diligently to satisfy the needs and desires of our community, and our widely varied student profile tells us that this goal is being consistently met.

As a two-year community college, Richland offers a variety of college credit courses that can lead you to an Associate of Arts and Sciences degree, enable you to transfer to four-year colleges and universities to finish your bachelor's degree, or prepare you for immediate entry into exciting jobs in accounting, data processing, construction management, engineering, horticulture, office careers and more.

Richland's faculty are professionals with master's degrees or better. (Thirty percent have completed their doctorates.)

In a society that moves as rapidly as ours, Richland's faculty and advisory committees try hard to keep our programs current and flexible. Classes are scheduled at times ranging anywhere from 7 a.m. to 10 p.m., and we offer alternatives to the traditional classroom like independent study using video tape, and instructional TV via public television and cable networks. There are also some classes on weekends.

Special features at Richland have been created to make the college a community center as well as a modern educational facility. These include:

\* **Library** — We have a collection of more than 65,000 books, periodicals, tapes and recordings plus knowledgeable personnel to help you use this resource to its fullest potential.

\* **Health Center** — Medical screening tests and health information are available.

\* **Adult Resource Center** — Adults who return to school after being out of an educational environment for awhile can find help adapting to their new situation.

\* **Speakers Bureau** — Richland's faculty and staff volunteer time and energy to provide community groups with information on a variety of topics.

\* **Performing Arts** — Free or reasonably priced recitals, plays, musicals, exhibits, guest lectures and concerts are open to the public.

\* **Planetarium** — Weekend planetarium and laser shows illustrate the Texas skies and blend laser light with a variety of music for high-tech entertainment.

\* **PAR Fitness Trail** — A one-mile fitness trail is open to students and the community during the daylight hours.



### **Student Organizations and Clubs**

Richland's many clubs and organizations offer students opportunities for leadership and participation. Membership is open to all interested students. Faculty sponsors work with each group.

Clubs and organizations at Richland include:

- Adults Returning to College
- Art Club
- American Institute of Floral Designers
- Anthropological Society
- Asian Student Organization
- Astronomy Club
- Baptist Student Union
- Computer Club
- Cheerleader Club
- Delta Psi Omega
- Fellowship of Christian Athletes
- Gaming Club
- Horticulture Club
- Handicap Awareness Society
- Phi Theta Kappa
- Rho Epsilon
- Richland Ongoing Science Experience
- Richland Select Choir
- Sigma Delta Mu

## Food For Thought

Each month students are treated on a first-come, first-served basis to a free lunch and an entertaining, informative program by a member of the Richland faculty or staff. These lively sessions have dealt with such topics as volcanoes (Mt. St. Helens), black holes in space, evolution, running, how to watch a movie, non-verbal communication, antique cars, word games, presidents and applied anthropology. Performances have included prose and poetry readings, classical guitar recitals and jazz concerts.

## Cultural Emphasis

Richland has a history of bringing outstanding performers to its campus for the pleasure and growth of students and the community. In the past, audiences have enjoyed jazz concerts, bluegrass and country groups, and symphony orchestras. They have been entertained by dance companies, mimes, comedians, puppeteers and classical actors.

Previous performers include:

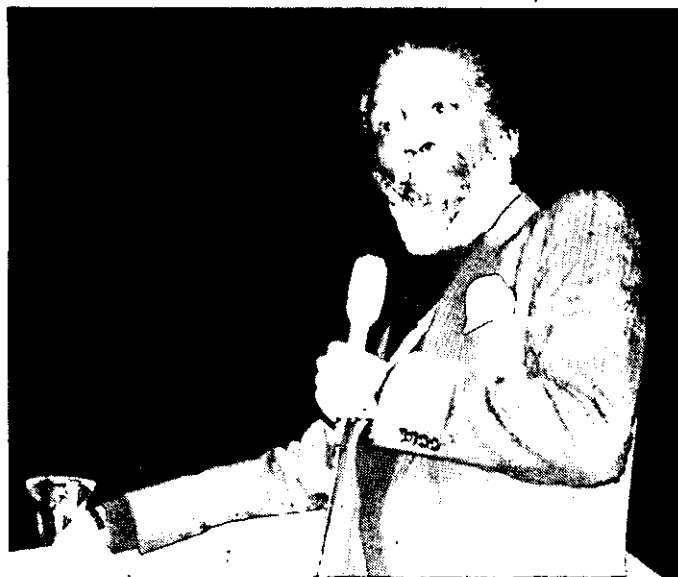
Dave Brubeck  
Woody Herman and the Thundering Herd  
Steve Fromholtz  
Ray Wylie Hubbard  
Kerrville Folk Festival  
Richardson Symphony  
Deaf Dance Company of America  
Dance Theater  
Richard Wordsworth  
Buddy Rich  
Seattle Mime Theatre  
Peter Alsop

Richland Theater students present a variety of productions each year. These have ranged from Greek tragedies to musical comedies.

Past productions include:

Trojan Women  
The Wizard of Oz  
The Sea Horse  
Alice in Wonderland  
Sweet Charity  
A Midsummer Night's Dream  
The Hobbit  
George M  
The Best Little Whorehouse in Texas  
Marat Sade  
Lysistrata

The Brazos and Lakeside Galleries are a showcase for selected visual arts exhibits. Ceramics, pottery, paintings and other graphic arts by students and regional artists are featured. The galleries are open to Richlanders and the community throughout the year.



## Distinguished Visitor Series

Richland continually invites outstanding speakers to its campus. Guest lecturers from academia, science, medicine, law, religion, politics, the arts, business, industry, sports, and other areas are invited to share their insights and expertise with the Richland community.

Richland capitalizes upon the visits of these notables by arranging special seminars, workshops and conferences with them.

Distinguished speakers have included:

Psychologist Rollo May  
Inventor Buckminster Fuller  
Cousteau Society's Jean-Michael Cousteau  
Author/poet James Dickey  
Reporter/journalist Nancy Dickerson  
Marathon swimmer Diana Nyad  
Anthropologist Richard Leakey  
Consumer advocate Ralph Nader  
Author/editor William F. Buckley  
Astronaut Bryan O'Leary  
Activist Dick Gregory  
Writer/producer James Burke  
Psychiatrist Dr. Alvin Poussaint  
Journalist/author Donald Woods

## Admission

Admission to Richland College follows an "open door" policy - equal opportunity for all without regard to race, color, sex or national origin.

The first step is filling out an application. After you're accepted, you'll talk to one of our academic counselors who will help you make decisions about your overall educational and career goals and then help you outline a plan for reaching them.

Richland is an affirmative action, equal opportunity institution accredited by the Southern Association of Colleges and Schools. Richland is also a member of the American Association of Community and Junior Colleges and is recognized and sanctioned by the Coordinating Board of the Texas College and University System.

# Honors Program



## The Richland College Honors Program

The Richland College Honors Program promotes academic excellence in students who are intellectually gifted, academically well-prepared, highly motivated, unusually creative, or especially talented.

More specifically, the Honors Program is designed to encourage and challenge these students as they realize more fully their potentials and abilities.

Honors students hold central roles in a spirited learning process that moves them closer to the depth, breadth, and application of knowledge which typifies scholarship.

## The Honors Curriculum

Honors courses are designed to provide a level of mental stimulation that challenges students to examine assumptions, encourages them to ask penetrating questions and helps them feel more at home with the traditions of learning, free inquiry and investigation. Developing and refining communication and research skills necessary for continued success in senior institutions and in career fields are major emphases of the honors curriculum.

Although specific course offerings vary year to year, nearly all the major academic and technological disciplines are represented in the honors curriculum. Honors



courses for the coming academic year are announced every spring to help students plan ahead.

## Student Participation in the Program

The Richland Honors Program allows participation in three ways. First, students may enroll in any honors course for which they are qualified and, upon successful completion, receive a special designation beside the course on their transcripts. There is no minimum number of hours or minimum overall grade point average required for such enrollment.

Second, students may earn an Honors Certificate by completing any four honors courses with A's or B's along with at least one HD 100 Honors Seminar. The Honors Seminar is a one-hour credit course offered each semester. Topics of the seminar vary from semester to semester, but all of them focus on being a successful learner.

Third, qualified students may apply to become an "Honors Scholar." Since the term Honors Scholar implies breadth and depth of learning, students accepted into this level of participation must complete seven honors courses. For information about Richland College's Honors Program, contact Dr. John Barrett, Room C183, 238-6223.



# Classics Cluster



## Classics Cluster Program

Richland's Classics Cluster is an interdisciplinary program emphasizing the intellectual roots of contemporary Western culture: the ancient civilizations of Greece and Rome. The Cluster consists of a ten-course curriculum in general education: literature, language, history, politics, philosophy, and art history. These courses will explore the relationships between classical issues and values and the problems of today's society. A unifying theme, "The Individual and the City in the Ancient World," determines the readings in all the courses. The Classics Cluster provides students the opportunity to read and discuss primary, rather than secondary, classical texts.

The Classics provide a broad knowledge of our cultural traditions and a historical perspective for understanding present-day society. Classics courses establish various links between past and present, including the ancient foundations of many contemporary dilemmas. The study of the Classics also helps to develop communication and problem-solving skills needed for success in business, industry, and the professions.

In brief, the Classics Cluster Program has been designed to help students keep "intellectually fit" in a challenging and exciting academic environment.

There are two ways to participate:

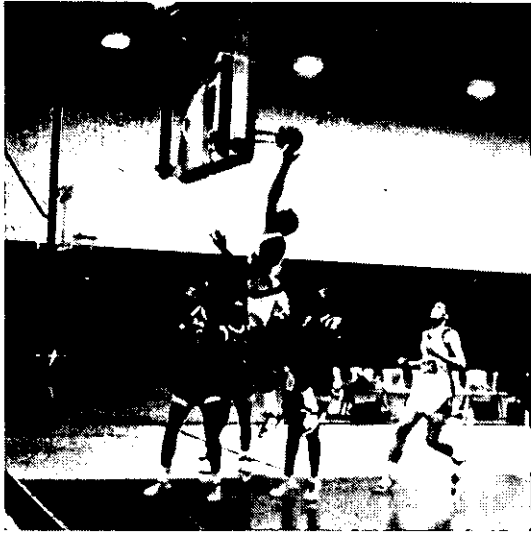
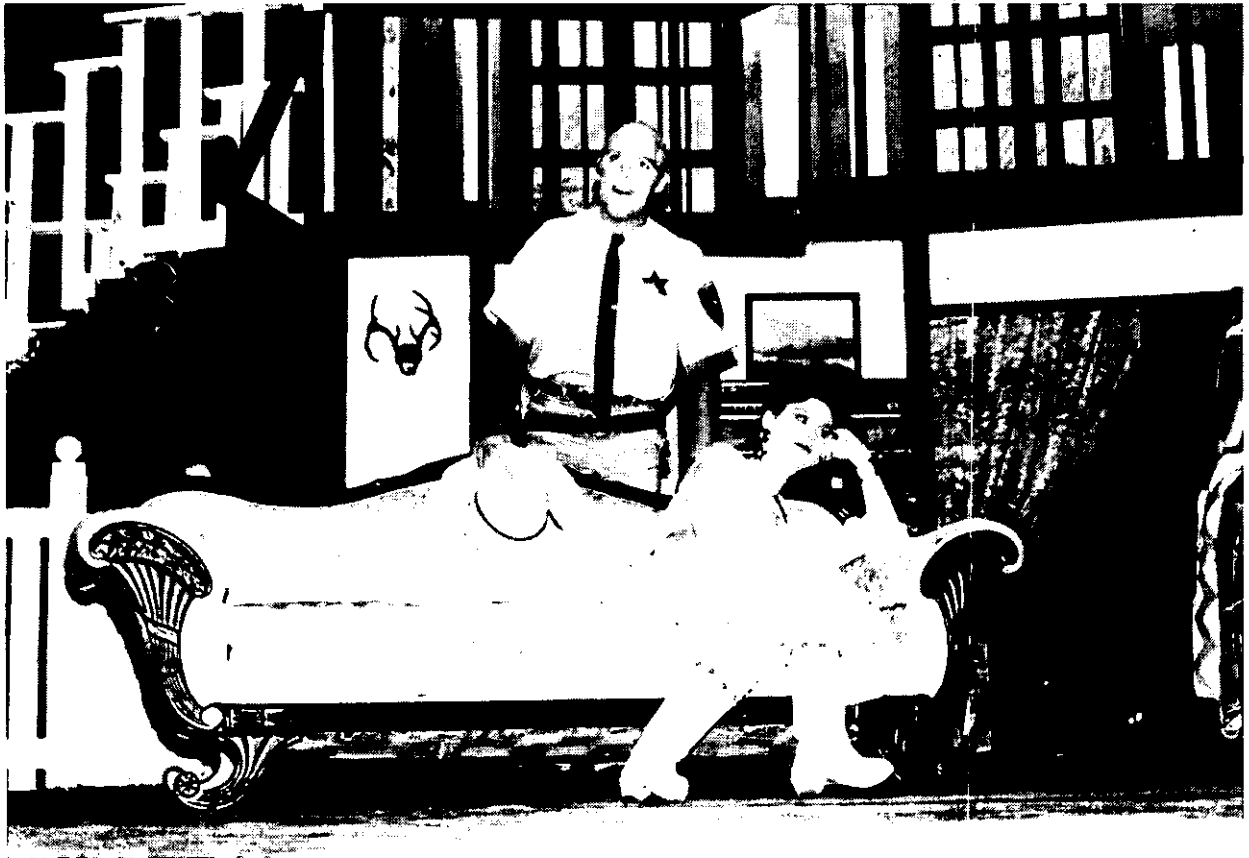
- \* Students may enroll in any Classics course provided they meet instructor determined prerequisites.
- \* By enrollment in the Classics Student Program

Students who wish to apply to receive Classic Student designation on their transcripts must meet the following requirements:

1. Successful completion (minimum grade of B) of two consecutive Latin courses.
2. Successful completion (minimum grade of B) of any four courses in the Cluster offerings.

For more information, call Dr. Nanette Pascal, Director,  
Classics Cluster Program  
238-6065 or come by S223 or S221 (Sabine Hall)

**Co-sponsored by the National Endowment  
for the Humanities and Richland College.**



# I. GENERAL INFORMATION

## History of the Dallas County Community College District

The Dallas County Community College District is comprised of seven colleges located strategically throughout Dallas County. Together the colleges enroll approximately 75,000 students per semester and employ over 1,900 full-time faculty and staff members.

The growth of the District into an educational system with such impact was not by chance. In May, 1965, voters created the Dallas County Junior College District and approved a \$41.5 million bond issue to finance it. The next year the District's first college, El Centro, began operation in downtown Dallas. Eastfield College and Mountain View College enrolled their first students in 1970, and the plans for a multi-campus district became a reality. Richland College became the District's fourth college in 1972.

The voters of Dallas County approved the sale of an additional \$85 million in bonds in September, 1972. This step provided for expansion of the four existing colleges and the construction of three more colleges. A key part of the expansion program was the remodeling and enlarging of El Centro College, a project completed in 1979. Construction of new facilities resulted in the opening of Cedar Valley College and North Lake College in 1977. Brookhaven College, the final campus in the seven-college master plan, opened in 1978.

## District Philosophy And Goals

Since 1972, the District has been known as the Dallas County Community College District. The name shows that the District has outgrown the term "junior college." The name also reflects the District's philosophy. The colleges truly are community institutions, meeting the varied educational needs of the growing Dallas County region. The primary goal of the District and its colleges is to help students of all ages achieve effective living and responsible citizenship in a fast-changing region, state, nation, and world. Each college is therefore committed to providing a broad range of educational programs for the people it serves.

The needs, abilities, and goals of each student are considered important. The focus is on creating an educational program for the individual rather than squeezing or stretching the individual to fit an "educational mold."

The District therefore has a place for different kinds of students. There is a place for the young person setting forth toward a degree in medicine, and a place for the adult delving into an interesting hobby to enrich leisure hours. There is a place for the person preparing to enter a trade or technical field with a year or two of studies, and a place for the employed individual wanting to improve occupational skills. There is a place for the very bright high school student ready to begin college work in advance of high school graduation, and a place for the high school dropout who now sees the need for education in today's complex society. In short, there is a place for everyone.

How do the colleges meet the educational needs of such a varied family? The answer is found in four categories of programs:

1. For the student working toward a bachelor's or higher degree, the colleges offer a wide range of first-year and second-year courses which transfer to senior colleges and universities.
2. For the student seeking a meaningful job, the colleges offer one-year and two-year programs in technical and occupational fields.
3. For the employed person wishing to improve job skills or to move into a new job, the colleges offer credit and non-credit adult educational courses.
4. For the person who simply wants to make life a little more interesting, the colleges offer community service programs on cultural, civic and other topics.

Additional programs are available for the high school student, dropout, and others with special needs. The colleges help each student design the educational program that best meets individual needs. Every student is offered intensive counseling to define goals and identify abilities. Continued guidance is available throughout the student's college career in case goals and plans change. This emphasis on counseling, rare for some institutions, is routine at all District colleges.

## District Responsibilities

To carry out the District philosophy, the colleges obviously must offer a wide range of programs and courses, including guidance services. These programs and courses must help each individual attain a high level of technical competence and a high level of cultural, intellectual, and social development. In addition, high professional standards for the academic staff must be maintained within a framework prescribed by the Board of Trustees. At the same time, the program and organization of each college must make maximum use of faculty and facilities.

The colleges have a basic responsibility to provide educational and cultural leadership to the community. They must be sensitive to changing community needs and adapt readily to those needs. Individuals capable of continuing their educational development should be given the opportunity to improve their skills. Finally, to continue to meet its responsibilities in changing times, the college system must guard against stagnation. Creativity and flexibility are therefore fostered at the District level and on each campus.

## League for Innovation

The Dallas County Community College District is a member of the League for Innovation in the Community College. The League is composed of 19 outstanding community college districts throughout the nation. Its purpose is to encourage innovative experimentation and the continuing development of the community college movement in America. Membership commits the District to research, evaluation, and cooperation with other community college districts. The goal is to serve the community with the best educational program and the fullest use of resources.

## Equal Educational And Employment Opportunity Policy

Dallas County Community College District is committed to providing equal educational and employment opportunity regardless of sex, marital or parental status, race, color, religion, age, national origin, or disability. The District provides equal opportunity in accord with federal and state laws. Equal educational opportunity includes admission, recruitment, extra-curricular programs and activities, access to course offerings, counseling and testing, financial aid, employment, health and insurance services, and athletics. Existing administrative procedures of the College are used to handle student grievances. When a student believes a condition of the College is unfair or discriminatory, the student can appeal to the administrator in charge of that area. Appeals to high administrative authority are considered on the merits of the case.

## Family Educational Rights And Privacy Act Of 1974

In compliance with the Family Educational Rights and Privacy Act of 1974, the College may release information classified as "directory information" to the general public without the written consent of the student. Directory information includes: (1) student name, (2) student address, (3) telephone number, (4) dates of attendance, (5) educational institution most recently attended, and (6) other information, including major field of study and degrees and awards received.

A student may request that all or any part of the directory information be withheld from the public by giving written notice to the Registrar's Office during the first 12 class days of a fall or spring semester or the first four class days of a summer session. If no request is filed, information is released upon inquiry. No telephone inquiries are acknowledged; all requests must be made in person. No transcript or academic record is released without written consent from the student stating the information to be given, except as specified by law.

## Student Consumer Information Services

Pursuant to the Education Amendment of 1980, Public Law 96-374, the College provides all students with information about its academic programs and financial aid available to students.



## Standard Of Conduct

The college student is considered a responsible adult. The student's enrollment indicates acceptance of the standards of conduct published in this catalog.

If you are unable to complete the course (or courses) for which you have registered, it is your responsibility to withdraw formally from the course (or courses). Failure to do so will result in your receiving a performance grade, usually a grade of "F".

## II. IMPORTANT TERMS

**Academic advisor:** A member of the college staff who assists students in planning appropriate academic programs.

**Add:** During any single semester, to enroll in additional course(s) after registration.

**Admission:** Formal application and acceptance as a credit student. A person wishing to enroll must complete an application, be accepted, and receive a letter of acceptance from the Registrar before registering.

**Audit:** Enrollment in a credit program in a course without receiving academic credit.

**Catalog:** The book containing course descriptions, degree plans, and general information.

**Class Schedule:** The list of courses offered for a specific semester. Names of teachers, days, times, location, fees and registration instructions are included.

**Common Learning:** "General Education" as defined by the Dallas County Community College District. Common Learning courses contain learning experiences which provide knowledge and skills necessary for living well and functioning competently in rapidly changing local, state, national, and world communities.

**Concurrent enrollment:** (a) Enrollment by the same student in two different DCCCD colleges at the same time; (b) Enrollment by a high school senior in one of the DCCCD colleges while still enrolled in high school; (c) Enrollment by a student in two related courses in the same semester; (d) Enrollment in both a DCCCD institution and a four-year institution at the same time; (e) Enrollment in both credit and Continuing Education courses at the same time.

**Course load:** The number of hours or courses in which a student is enrolled in any given semester.

**Credit:** The numerical value assigned to a course (see "CREDIT HOURS/SEMESTER HOURS").

**Credit Hours/Semester Hours:** The unit of credit earned for course work. Each college course is worth a certain number of credit or semester hours. This number is determined by the type of class it is and the number of hours per week it meets. For example, a 3 credit hour class (English, History, etc.) meets 3 hours per week during the fall/spring semesters; a 4 credit hour class (science, languages, etc.) meets 6 hours. Check this catalog or class schedule for the value of any course you wish to take.

**Credit/non-credit:** Credit classes are those which award academic credit and may apply toward a degree. Non-credit classes do not apply toward a degree and are usually offered through Continuing Education.

**Campus class schedule:** A booklet which is published prior to each semester listing classes, sections, dates, times, instructors' names, and meeting places and which is used by students to prepare their personal class schedules each semester.

**Developmental Studies Courses:** Courses which provide prerequisite skills in reading, writing, and mathematics. Because of the nature of these courses, the credit earned will not count toward graduation requirements.

**Drop:** The act of officially withdrawing from a particular course without penalty before a specified date. See calendar in this catalog for "Last Day to Withdraw." It is the student's responsibility to drop a course by the date published.

**Early Registration:** A method of selecting and reserving courses for subsequent semesters. Consult with an advisor prior to going to early registration.

**Electives:** Courses which do not count toward major but are required for most college degrees. Electives are selected for personal interest, skill development or to increase one's knowledge or understanding. Consult with an advisor before deciding upon electives.

**Fee:** A charge which the college requires for services in addition to tuition charges.

**Flexible-entry course:** A course beginning and ending on dates which are different from the regular semester. This is also referred to as "flex-entry" or "short semester registration". Consult the campus class schedule for further information.

**Former Student:** One who has attended a DCCCD college in the past but not during the previous long semester.

**Full-time student:** A student who is enrolled in at least 12 credit hours during a semester or for 6 credit hours during a summer session.

**GPA:** Grade Point Average. For further explanation, see catalog section entitled "Scholastic Standards."

**Grade Points:** See catalog section entitled "Scholastic Standards."

**Grades:** See catalog section entitled "Scholastic Standards."

**Lab hours:** The number of hours a student spends each week in a laboratory or other learning environment.

**Lecture hours:** The number of hours a student spends each week in a classroom other than a laboratory.

**Major:** The subject or field of study in which the student plans to specialize. For example, one "majors" in Automotive Technology, Business, etc.

**Part-time student:** A student who is enrolled for less than 12 credit hours during a semester or less than 6 credit hours in a summer session.

**Performance grade:** A grade of A, B, C, D, or F. This does not include the grades of W, I, or WX. See catalog section on "Academic Information" for more on grades and grade point averages.

**Prerequisite:** A requirement which must be met BEFORE enrolling for a specific course. For example, the prerequisite for ENGLISH 102 is the successful completion of ENGLISH 101. A prerequisite may be another



course (high school or college), an appropriate assessment score, or permission of the instructor.

**Probation:** A warning for a student whose academic work or behavior is unsatisfactory. Students on academic probation may be suspended if their academic performance does not improve.

**Registration:** The official process for enrolling in courses. This involves selecting classes with the help of an advisor, completing all registration forms and paying fees. Check the Class Schedule for registration dates.

**Section:** A number indicating day/evening, hour, room number, and name of instructor for a particular course. For example, the section number differentiates among the various classes of English 101.

**Semester:** A term denoting the length of time a student is enrolled in a specific course. For example, there are two long semesters (Fall and Spring) which last approximately 16 weeks. There are two summer sessions or "semesters" (Summer I and Summer II) which last approximately 5½ weeks.

**Skills for Living:** Skills needed for living well with one-self, others, and changing environments. Skills for Living are discussed and learned throughout the curriculum and provide basic goals for all Common Learning courses.

**Technical/occupational courses:** Courses which lead to a certificate or two-year degree in a technical or occupational program. These courses are designed to aid the student in developing entry-level skills to be utilized in the job market. Consult an advisor regarding transferability if you plan to attend a four-year institution.

**Telecourses:** Courses providing flexibility and convenience for students seeking college credit with minimum campus visits. Students watch the course television programs at home on regular broadcasts or cablecasts, complete the study guide and reading assignments, take tests on campus, and attend optional discussion meetings. Instructors are available during regular office hours or via telephone when assistance is needed.



**Transfer courses:** Courses which are designed to transfer to other colleges and universities. Students need to consult with an advisor or counselor about the transferability of specific courses. Because a course will transfer does not



mean it will apply toward a specific major or degree at a four-year college or university.

**Transcript:** An official copy of a student's academic record which can be obtained through the Admissions Office. An official transcript must have the seal of the college affixed and the signature of the Registrar.

**Withdrawal:** The act of terminating enrollment. A student withdrawing must go through a formal procedure. It is the student's responsibility to withdraw officially by the appropriate date. See the calendar in this catalog or the Class Schedule for the "Last Day to Withdraw."

### III. ADMISSIONS AND REGISTRATION

#### General Admissions Policy

The College has an "open door" admissions policy. It insures that all persons who can profit from post-secondary education have an opportunity to enroll. The College requires certain assessment procedures for use in course placement prior to admission to a certificate or degree program, but the assessment is not used to determine admission.

#### Admission Requirements

Documentary evidence of Texas residency must be provided by all applicants. This evidence must be submitted with the application for admission and must prove twelve (12) months of Texas residency immediately prior to the semester of enrollment. Failure to provide evidence will result in an applicant being classified as a nonresident for tuition/fee purposes. Contact the Admissions Office for specific information detailing required documentation.

#### Beginning Freshmen

Students enrolling in college for the first time who fit one of the following categories may apply for admission:

- Graduates from an accredited high school or those who have earned a General Education Diploma (G.E.D.), who are 18 years of age or older, and whose high school class has graduated.
- Graduates of an unaccredited high school who are 18 years of age or older.
- Persons who do not hold a high school diploma or G.E.D. (but who are 18 years of age or older and whose high school class has graduated) may be admitted by giving evidence of an ability to profit from college instruction. Such admission will be on a probationary basis.
- High school seniors recommended by their high school principal. The College admits a limited number of students in this category. The students are concurrently enrolled for a maximum of six hours of special study each semester, as long as the combined high school and college class load does not exceed sixteen (16) semester hours. (Each high school course is normally counted as the equivalent of one three-hour course.) Students must continue to make normal progress toward high school graduation.

#### Transfer Students

Transfer applicants are considered for admission on the basis of their previous college records. Academic standing for transfer applicants is determined by the Registrar's Office according to standards established by the College. Students on scholastic or disciplinary suspension from another institution must petition the Committee on Admissions and Academic Relations for special approval. Contact the Admissions Office for further information.

#### Former Students

Students formerly enrolled in the Dallas County Community College District must submit an application for readmission to any District college. Students with unsettled financial debts at any District college will not be readmitted.

#### Non-Credit Students

Students enrolling for non-credit courses apply through the Office of Career and Continuing Education.

#### International Students

The College is authorized under federal law to enroll non-immigrant alien students. International students are not admitted, however, until all admissions requirements are complete. International students must:

- complete a personal interview with the international student counselor and receive approval from the college administration,
- present TOEFL (Test of English as a Foreign Language) test scores of 525 or higher and take the DCCCD assessment tests,
- be proficient in English and provide a letter in their own handwriting indicating educational and vocational plans,
- show evidence of sufficient financial support for the academic year by submitting an I-134 (Affidavit of support) Immigration and Naturalization Service document,
- provide written proof of negative tuberculin skin test or chest x-ray, polio immunization if applicant is under nineteen years of age, measles and rubella vaccines taken since January 1, 1968, and diphtheria/tetanus injections taken within the last ten years.
- fulfill all admission requirements for international students at least 30 days prior to registration,
- enroll as a full-time student (minimum of 12 credit hours),
- supply official transcripts for all previous academic work with a minimum "C" average.





In addition to the requirements stated above, international students wishing to transfer from another U.S. higher education institution must also:

1. Present documentation indicating "bona fide" non-immigrant status as an F-1 or M-1 student.
2. Have pursued a full course of study at the institution last authorized to attend by I.N.S.
3. Present official transcripts verifying that the student:
  - a. Was "in-status" for the term immediately preceding this transfer, and
  - b. Has a minimum GPA of 2.00 in all college work attempted.

Contact the Admissions Office for information.

### **Application and Admission Procedures**

Applications may be submitted any time prior to registration. Earlier application is desirable because the student's place in registration is determined by the date of the applicant's file; submitting admissions documents early also insures that there is adequate time for effective counseling and schedule planning. A later place in registration often means that the classes a student desires are already filled.

Applicants must submit the following material to the Admissions Office to have a complete admissions file:

- a. An official application, available from the Admissions Office.
- b. Official Transcripts: The following must be submitted: (1) for beginning college students an official high school transcript from the last high school attended; (2) for college transfer students, official transcripts for all previous college work attempted. The college's accrediting agency requires transcripts, and the college uses them in program advisement.

All applicants may select only those classes available when they register. Students may enroll in certain courses at times other than regular semester registration. See the Flexible Entry Courses section in this catalog and contact the Registrar's Office for additional information.

Students entering with academic deficiencies or low assessment scores may be admitted on probation and may be required to enroll in developmental or other programs designated by the college.

### **Tuition**

Tuition is charged on a sliding scale according to the number of credit hours for which a student is enrolled and the student's place of legal residence. Tuition is subject to change without notice by the Board of Trustees or the Texas Legislature.

### **Additional Fees**

Additional fees may be assessed as new programs are developed with special laboratory costs. These fees will always be kept to a practical minimum. A graduation fee is not assessed, but each student must pay for cap and gown rental.

### **Special Fees And Charges**

Laboratory Fee: \$2 to \$8 a semester (per lab).

Class Fee: Variable special costs of course not otherwise defined as "Laboratory Fee." Rental costs of specialized equipment and off-campus facilities are examples of "class fees."

Physical Education Activity Fee: \$5 a semester.

Bowling Class Fee: Student pays cost of lane rental.

Private Music Lesson Fee: \*\$45 for one hour per week (maximum) for one course, \$25 for one half hour per week.

Audit Fee: The charge for auditing a course is the same as if the course were taken for credit, except that a student service fee is not charged.

Credit by Examination: A fee will be charged for each examination. This fee can change without prior notice.

### **Refund Policy**

The refund policy of the District is based upon state regulations and on the fact that student tuition and fees provide only a fraction of the cost of offering educational opportunities. When students enroll in a class, they reserve places which cannot be made available to other students until they officially drop the class. In addition, the original enrollment of students represents a sizable cost to the District regardless of continuance in that class. Therefore, a refund is made only under the following conditions:

- (1) Official withdrawal:

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

Continued on page 20  
following Tuition & Fees Schedule

# TUITION AND STUDENT SERVICES FEE Fall and Spring Sessions

Semester Credit Hours	Dallas County			Out-of-District			Out-of-State or Country		
	Tuition	Fee	Total	Tuition	Fee	Total	Tuition	Fee	Total
1	\$ 36	\$ 3	\$ 39	\$ 100	\$ 3	\$ 103	\$ 200	\$ 3	\$ 203
2	36	3	39	100	3	103	200	3	203
3	36	3	39	100	3	103	200	3	203
4	48	4	52	132	4	136	244	4	248
5	60	5	65	165	5	170	305	5	310
6	72	6	78	198	6	204	366	6	372
7	84	7	91	231	7	238	427	7	434
8	96	8	104	264	8	272	488	8	496
9	108	9	117	297	9	306	549	9	558
10	120	10	130	330	10	340	610	10	620
11	130	11	141	342	11	353	671	11	682
12	140	12	152	354	12	366	732	12	744
13	150	12	162	366	12	378	793	12	805
14	160	12	172	378	12	390	854	12	866
15	170	12	182	390	12	402	915	12	927
16	180	12	192	402	12	414	976	12	988
17	190	12	202	414	12	426	1037	12	1049
18	200	12	212	426	12	438	1098	12	1110
19	210	12	222	438	12	450	1159	12	1171
20	220	12	232	450	12	462	1220	12	1232

## TUITION Summer Sessions

Semester Credit Hours	Dallas County		Out-of-District		Out-of-State or Country	
	Tuition		Tuition		Tuition	
1	\$ 36		\$100		\$200	
2	36		100		200	
3	42		138		200	
4	56		184		268	
5	70		230		335	
6	84		276		402	
7	92		286		469	
8	100		296		536	
9	108		306		603	

The following definitions are brief guidelines only; please discuss any questions regarding proper tuition classification with admissions office personnel.

### TUITION REQUIREMENTS FOR LONG TERM:

- Dallas County Residents\*\*\*** \$12.00 per credit unit through ten credit units and \$10.00 for each additional credit unit over ten credit hours; minimum of \$36.00
- Out-of-District Residents\*** \$33.00 per credit unit through ten credit units and \$12.00 for each additional credit unit over ten credit units; minimum of \$100.00
- Out-of-State Residents\*\*** \$61.00 per credit unit; minimum of \$200.00
- Out-of-Country Residents** \$61.00 per credit unit; minimum of \$200.00

### SUMMER SESSION

- Dallas County Residents\*\*\*** \$14.00 per credit unit through six credit units and \$8.00 for each additional credit unit over six credit units; minimum of \$36.00
- Out-of-District Residents\*** \$46.00 per credit unit through six credit units and \$10.00 for each additional credit unit over six credit units; minimum of \$100.00
- Out-of-State Residents\*\*** \$67.00 per credit unit; minimum of \$200.00
- Out-of-Country Residents** \$67.00 per credit unit; minimum of \$200.00

The charge for auditing a course is the same as taking the course for credit.

\*Provided he has established legal residence in the State of Texas, a student's county of residence is the county in which his legal guardian resides, if he is under 18 years of age and unmarried. Students 18 years of

age and older and all married students are deemed to be residents of the county in which they reside.

\*\*An "Out-of State Resident" is defined to be a student of less than 18 years of age, living away from his family and whose family resides in another state or whose family has not resided in Texas for twelve months immediately preceding the date of registration; or a student 18 years of age or older who has not been a resident of the state twelve months subsequent to his 18th birthday or for the twelve months immediately preceding the date of registration.

\*\*\*A full-time District employee or his dependent who resides outside Dallas County is eligible for Dallas County tuition rates.

An individual who would have been classified as a resident for the first five of the six years immediately preceding registration but who resided in another state for all or part of the year immediately preceding registration shall be classified as a resident student.

The description of resident and non-resident status contained above are generally applicable, but the determination of residence status for tuition purposes is specifically governed by the provisions of V.T.C.A. Education Code, Section 54.052, the rules and regulations of the Coordinating Board, Texas College and University System, and judicial and/or administrative interpretations thereof. In the event of conflict between the above-noted descriptions and the latter authorities, the latter shall govern.

Pursuant to the authorization contained in the Texas Education Code Section 130.003, subsection (b)(4), the Board has waived the difference in the rate of tuition for non-resident and resident students for a person or his dependent, who owns property which is subject to ad valorem taxation by the District.

A foreign national on any other than a permanent resident visa must pay out-of-country tuition and fees.

\*The tuition schedule above is subject to change without notice by action of the District Board of Trustees or the State of Texas.

Continued from page 18

#### 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

#### (2) Official drop of a course or courses:

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

##### Summer Session

During the first four class days	100%
After the fourth class day	NONE

Separate refund schedules may be established for optional fees such as intercollegiate athletics, cultural entertainment, parking, etc.

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.

(3) A student dropping a portion of his or her class load after the twelfth class day of a fall or spring semester (fourth class day of a summer session) is not entitled to a refund unless approved by the Refund Petitions Committee.

(a) Refund petitions, accompanied by an explanation of any existing circumstances, shall be submitted to the Refund Petitions Committee on the campus.

(b) If the petition is approved by the committee, the student shall be notified and shall receive a refund of tuition and fees according to the appropriate schedules in this policy.

(4) The student must submit the request for refund before the end of the semester or summer session for which the refund is requested.

(5) Mandatory fees shall include, but not be limited to, student activity fees, laboratory fees, private lesson fees, and physical education activity fees.

(6) Flexible entry courses are to be handled as regular semester length courses. The refund schedule will be prorated accordingly.

(7) Refund checks normally require a minimum of one month from date of approval for processing.

(8) The college academic calendar shall specify the last day for withdrawal with refund.

#### Returned Checks

Checks returned to the Business Office must be paid with cash or a cashier's check within the time limits prescribed by the notification letter. An additional fee is added for returned checks. If a check for tuition is returned by the bank for any reason, including stop payment, the College Business Office may submit the check to the Justice of the Peace for appropriate legal action and collection. The Vice President of Student Development may also implement disciplinary procedures.

#### Assessment and Advisement Procedures

Assessment is the process of evaluating readiness for certain college courses and the probabilities for success in those courses. The College has an assessment program for entering students which is a required part of the enrollment process.

The assessment program includes the completion of a questionnaire which documents information on career and work plans, previous academic achievement and other relevant information. Assessment also includes an examination of individual skill levels in reading, writing and mathematics. Information on skills may come from ACT or SAT results, previous college-level work or from scores on the standardized tests administered free of charge by the College.

Because of the importance of such information, students should have official copies of ACT and/or SAT scores and transcripts mailed to the Admissions Office or bring them personally at the time of application. It is the responsibility of the student to make these available.

The assessment program provides information needed in advisement. Academic advisement sessions provide a framework for informed decision-making on the part of students and advisors. Information on a student's skills, abilities, career plans, educational background, life experiences, and motivation is important in helping the student and advisor make selections from the many educational options available.

Details of assessment and advisement procedures are available through the College Counseling Center or in the "Schedule of Classes" each semester.

#### Change Of Schedule

Students should be careful in registering to schedule courses only for the days and hours they can attend. Students requesting class changes should contact the Registrar's Office during the time specified in the class schedule. No change is complete until it has been processed by the Registrar's Office.

#### Non-Credit Student (Audit)

A person who meets the admission requirements of the District may, with the consent of the division chairperson and instructor, enroll in a credit course as a non-credit student. A non-credit student may attend class, but may not receive a final grade or credit for a course. An instructor may give an examination if he or she determines the examination is an essential component of the learning process. The fee in a credit course is the same for a non-credit student as for a credit student, except that a student service fee may not be charged.

### Transfer Of Credits

Transfer of credit is generally given for all attempted work at colleges and universities recognized by a national accrediting agency equivalent to the Southern Association Commission on Colleges. The Registrar's Office evaluates all transfer credit. Transfer students admitted with a grade point deficiency cannot graduate until the deficiency is cleared by earning additional grade points. Credits earned in military service schools or through the U.S. Armed Forces Institute are reviewed by the Registrar and credit granted if applicable.

### Address Changes And Social Security Number

Each student has the responsibility to inform the Registrar's Office of changes in name or address. Each applicant for admission is asked to furnish a Social Security number. This number doubles as a student identification number and insures accuracy of student records. If a student does not have a Social Security number, another number is assigned for record keeping.

### TASP (Texas Academic Success Program)

The Texas State Education Code requires that all students "...who enter public institutions of higher education in the fall of 1989 and thereafter must be tested for reading, writing and mathematics skills." This includes all "...full-time and part-time freshmen enrolled in a certificate or degree program...", any non-degree students prior to the "accumulation of nine or more [college] credit hours or the equivalent," and "...any transfer students with fewer than 60 semester credit hours or the equivalent who has not previously taken the tests."

Performance on the test will not be used as a condition of admission.

A student may not "...enroll in any upper division course [the] completion of which would give the student 60 or more semester credit hours or the equivalent until the student's test results meet or exceed the minimum standards in all test scores." Other assessment procedures may be used in exceptional cases to allow a student to enroll in upper division courses "...in cases where student test results do not meet minimum standards" (Texas Education Code, Sec. 51.306).

The test fee will be paid by the student.



## IV. ACADEMIC INFORMATION

### Scholastic Standards: Grades And Grade Point Average

Final grades are reported for each student for every course according to the following grading system.

Grade	Interpretation	Grade Point Value
A	Excellent	4 points
B	Good	3 points
C	Average	2 points
D	Poor	1 point
F	Failing	0 points
I	Incomplete	Not Computed
WX	Progress; re-enrollment required	Not Computed
W	Withdrawn	Not Computed
CR	Credit	Not Computed

Grade points earned for each course are determined by multiplying the number of points for each grade by the number of credit hours the course carries. For example, a student who takes a three hour course and earns an "A" accumulates 12 grade points for that course. A student's grade point average is computed by adding the total grade point values for all courses and dividing by the number of credit hours attempted during the same period. For example, a student who takes the following courses and earns the following grades has a grade point average 2.93:

Credit Hours	Grade	Grade Points
2-hour course	A	8
3-hour course	B	9
4-hour course	B	12
3-hour course	C	6
Total Credit Hours:		Total Grade Points: 35
12		
$35 \div 12 = 2.93$		





For repeated courses, only the latest grade earned is included in cumulative grade point averages, even if the latest grade is lower than a preceding grade. However, transcripts do indicate all work completed in the District. When a student withdraws from a course being repeated, the cumulative grade point average is calculated by using the immediately preceding grade in the same course.

If a student believes an error has been made in determining a course grade, the instructor or appropriate division office should be contacted as soon as possible. Requests for grade changes will not be considered later than two years following the last day of the semester for which the grade was assigned.

An incomplete grade "I" may be given when an unforeseen emergency prevents a student from completing the work in a course. The "I" must be converted to a performance grade (one with a grade point value) within 90 days after the first day of classes in the subsequent regular semester. If the work is not completed after 90 days, the "I" is converted to a performance grade.

An Incomplete Contract is used to convert an incomplete grade to a performance grade and states the requirements for the satisfactory completion of the course. The Incomplete Contract must be agreed upon and signed by the instructor, the student and the division chairperson and submitted with the final grade report. When an Incomplete Contract must be submitted without the student's signature, the instructor must include a statement indicating that the student is aware of and in agreement with the contract.

Students who do not complete course requirements may receive a "WX" grade when the instructor determines that reasonable progress has been made and when the student can reenroll for course completion prior to the certification date in the next regular semester. If the student re-enrolls and completes the course requirements, the "WX" remains for the first enrollment; a performance grade is given for the second enrollment. If the student does not complete the course requirements, the "WX" is converted to a performance grade.

### Acceptable Scholastic Performance

College work is measured in terms of credit hours. The number of credit hours offered for each course is given with the course description.

Acceptable scholastic performance is the maintenance of a grade point average of 2.0 (on a 4.0 scale) or better. Students may not be graduated from any degree or certificate program unless they have a cumulative grade point average of 2.0 or better. Grade points and hours earned in courses numbered 99 and below, Art 199, College Learning Skills 100, Developmental Communications 120, Human Development 100, Human Development 110, Library Skills 101, Music 199, and Theatre 199 cannot be used to meet graduation requirements.

### Recommended Academic Load

The maximum academic load is 18 credit hours of course work per semester or five classes plus physical education. Students must receive permission of the appropriate college official to carry a heavier load. Employed students carrying a full load (12 credit hours or more) should not work more than 20 hours per

week. Students working more hours should reduce their academic load proportionately. The recommended load limit for day or evening students who are employed full-time is six credit hours. The recommended load limit in a six-week summer session is six credit hours. A total of 14 credit hours is the maximum that may be earned in any 12-week summer period.

### Classification Of Students

**Freshman:**

A student who has completed fewer than 30 credit hours.

**Sophomore:**

A student who has completed 30 or more credit hours.

**Part-time:**

A student carrying fewer than 12 credit hours in a given semester.

**Full-time:**

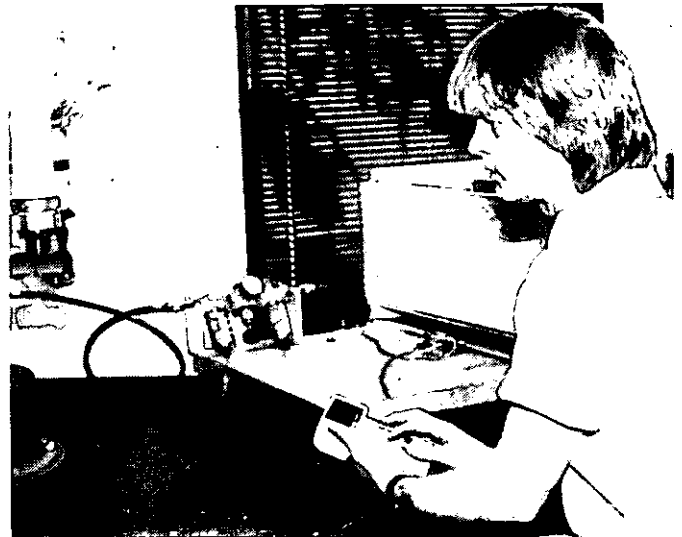
A student carrying 12 or more credit hours in a given semester.

### Class Attendance

Students are expected to attend regularly all classes in which they are enrolled. Students have the responsibility to attend class and to consult with the instructor when an absence occurs.

Instructors are responsible for describing attendance policy and procedures to all students enrolled in their classes. If a student is unable to complete a course (or courses) in which he/she is registered, it is the student's responsibility to withdraw from the course by the appropriate date. (The date is published in the academic calendar each year.) If the student does not withdraw, he/she will receive a performance grade, usually a grade of "F."

Students who are absent from class for the observance of a religious holiday may take an examination or complete an assignment scheduled for that day within a reasonable time after the absence if, not later than the 15th day of the semester, the student notified the instructor(s) that the student would be absent for a religious holiday. Sec. 51.911 Tx. Educ. Code.





### **Dropping A Course Or Withdrawing From College**

To drop a class or withdraw from the College, students must obtain a drop or withdrawal form and follow the prescribed procedure. It is the student's responsibility to drop or withdraw. Failure to do so will result in receiving a performance grade, usually a grade of "F." Should circumstances prevent a student from appearing in person to withdraw from the College, the student may withdraw by mail by writing to the Registrar. No drop or withdrawal requests are accepted by telephone. Students who drop a class or withdraw from the College before the semester deadline receive a "W" (Withdraw) in each class dropped. The deadline for receiving a "W" is indicated on the academic calendar. See "Refund Policy" for possible eligibility for a refund.

### **Academic Recognition**

Full-time students who complete at least 12 hours of credit and earn a grade point average of 3.5-3.79 are listed on the Vice President's Honor Roll. Full-time students who complete at least 12 hours of credit and average 3.8-4.0 are placed on the President's Honor Roll. Part-time students who take six-11 credit hours and maintain a 3.5 or higher grade point average are placed on the Academic Recognition List.

### **Scholastic Probation And Scholastic Suspension**

Full-time and part-time students who have completed a total of 12 credit hours are placed on probation if they fail to maintain a 2.0 cumulative grade point average. Students may be removed from probation when they earn a 2.0 cumulative grade point average. Students on scholastic probation who achieve either a cumulative grade point average of 1.5 or above or a previous semester grade point average of 2.0 or above are continued on scholastic probation. Students on probation who do not meet the requirements for continued probation are placed on scholastic suspension. Students on suspension for the first time may not register for the immediately following semester or summer sessions without special permission. Suspended students must file a petition for readmission. The conditions for readmission are established and administered by the Vice President of Student Development.

### **Grade Reports**

A grade report is issued to each student at the end of each semester and gives the grade earned in each course that semester. A transcript is the official record of college work and gives all grades earned throughout the DCCCD college career. Transcripts are withheld from students who have not met financial or other obligations to the College. (See Student Codes and Expectations: "Financial Transactions with the College.")

### **Transcripts Of Credit**

Upon the written request of a student, the Registrar's Office will send an official transcript to the individual student or to any college or agency named. A fee will be charged for each transcript requested. The transcript may be withheld, however, until the student has settled all obligations with the College.

### **Degree Requirements**

The College confers the Associate in Arts and Sciences Degree upon students who have completed all requirements for graduation. Each degree candidate must earn the last 15 hours as a resident student in the District colleges or accrue 45 hours in residence.

Students seeking certificates or associate degrees must submit official transcripts of all previous work attempted before a certificate or degree will be awarded. Failure to submit official transcripts directly from the institutions attended will result in the degree or certificate not being awarded.

The degree must be awarded by the college which offers the program in which the student majored. If two or more schools offer the program, the student is granted the degree where the majority of the hours were taken. Correspondence work must be approved by the Registrar for graduation credit. No more than one-fourth of the work required for any degree or certificate may be taken by correspondence.

### **The Common Learning Curriculum**

The Common Learning curriculum is composed of required courses and clusters of courses designed to advance the learning which is common to all candidates for a degree.

The Core Curriculum consists of English 101, Speech Communication 101, and a math course numbered 100 or above. A grade of "C" or better in each of the three courses is required for graduation. Students are strongly advised to enroll in these courses in the first two semesters of study because skills necessary for success in other courses are taught in Core courses.

Common Learning course requirements beyond the Core are designed to help ensure that all graduates have general knowledge as well as the specific knowledge ordinarily associated with a major course of study or a technical program. Candidates for the Associate in Arts and Sciences must take 34-36 hours in approved Common Learning courses beyond the Core. Candidates for the Associate in Applied Arts and Sciences must choose six to eight hours of course work from two of the following clusters: Laboratory Science, Behavioral/ Social Science, Business, and Humanities.

### **Associate in Arts and Sciences Degree**

Students must have a minimum of 61 credit hours, a grade of "C" or better in each of the three Core courses, and a grade point average of at least "C" (2.0) to receive the Associate in Arts and Sciences Degree. These 61 hours may be earned at any District college and must include:

- English 101, Speech Communication 101, and a math course numbered 100 or above. (9 credit hours)
- English 102 and a sophomore literature course. (6 credit hours)

- Laboratory Science (8 credit hours) chosen from Astronomy, Biology, Chemistry, Geology, Physical Science, or Physics. (For Astronomy to count as a lab science, the student must complete successfully Astronomy 101 in combination with 103 and Astronomy 102 in combination with 104.)
- Humanities (3 credit hours) to be chosen from Art 104, a foreign language, Humanities 101, Literature, Music 104, Philosophy 102, or Theatre 101.
- Physical Education activity course (1 credit hour).
- Behavioral Science (3 credit hours) to be chosen from Anthropology, Human Development, Psychology, or Sociology.
- History 101-102 (6 credit hours) and Government 201-202 (6 credit hours). Only three credit hours of history and three credit hours of government may be earned through credit by examination.
- Business (3 credit hours) to be chosen from Business, Accounting, Management, Computer Information Systems, or Economics. Cooperative Work Experience courses may not be used to meet Common Learning degree requirements.
- Electives (16-18 credit hours).

A maximum of four physical education activity hours may be counted as credit toward requirements for graduation. The G.P.A. for graduation is based on the credit earned for all DCCCD work completed and all transfer work. The following courses will not count toward graduation nor the G.P.A. for graduation: Courses numbered 099 and below, Art 199, College Learning Skills 100, Developmental Communications 120, Human Development 100, Human Development 110, Library Skills 101, Music 199, and Theatre 199.

All students planning to transfer to a four-year institution may complete their four semester requirements in physical education during their freshman and sophomore years. Students are urged to consult the catalogs of the institutions to which they may transfer for their special requirements. These catalogs should be used by students and advisors in planning programs.

#### **Associate in Applied Arts and Sciences Degree**

Students must have a minimum of 60 credit hours, a grade of "C" or better in each of the three Core courses, and a grade point average of at least "C" (2.0) to receive the Associate in Applied Arts and Sciences Degree. These 60 hours must include:

- English 101 or Communications 131, Speech Communication 101, and a math course numbered 100 or above. (9 credit hours)
- Six to eight credit hours chosen from two of the following clusters:

*Laboratory Science:* Astronomy, Biology, Chemistry, Geology, Physical Science, or Physics. (For Astronomy to count as a lab science, the student must complete successfully Astronomy 101 in combination with 103 and Astronomy 102 in combination with 104.)

*Behavioral/Social Science:* Anthropology, Government, History, Human Development, Psychology, or Sociology.

*Humanities:* Art 104, a foreign language, Humanities 101, Literature, Music 104, Philosophy 102, or Theatre 101.

*Business:* Business, Accounting, Management, Computer Information Systems, or Economics. Cooperative Work Experience courses may not be used to meet Common Learning degree requirements.

Where a technical/occupation program heavily emphasizes a specific cluster as part of its requirements, students are encouraged to select from other clusters to satisfy this requirement. For example, students pursuing an A.A.S. degree in accounting must enroll in many courses from the business cluster as part of their program requirements. Therefore, to meet Common Learning requirements, the 6-8 additional hours should be selected from the other three clusters: Behavioral/Social Sciences, Humanities, or Laboratory Science.

For some programs, more than 60 credit hours are required. All prescribed requirements for the specific technical/occupational program in which the student is enrolled must be completed. These programs may also have other criteria in addition to degree requirements. See the Technical/Occupational Programs section of the catalog for a more detailed explanation. A maximum of four physical education activity hours may be counted as credit toward graduation. The G.P.A. for an Applied Arts and Sciences Degree is based only on the hours used to meet degree requirements. The following courses will not count toward graduation nor the G.P.A. for graduation: Courses numbered 099 and below, Art 199, College Learning Skills 100, Developmental Communications 120, Human Development 100, Human Development 110, Library Skills 101, Music 199, and Theatre 199.

#### **Certificate Career Programs**

The requirements for certificates are detailed under specific programs in the Technical/Occupational Programs section of this catalog. A "C" (2.0) grade point average is required. The G.P.A. for a certificate is based only on the hours used to meet certificate requirements. The following courses will not count toward graduation nor the G.P.A. for graduation: Courses numbered 099 and below, Art 199, College Learning Skills 100, Developmental Communications 120, Human Development 100, Human Development 110, Library Skills 101, Music 199, and Theatre 199.

#### **Procedure For Filing Degree And Certificate Plans And For Graduation**

Students should request a degree plan from the Registrar's Office at the end of their freshman year. Official transcripts of all previous college work must be on file at the time of request for degree plans. Students following a one-year certificate program should request an official plan during the first semester of their enrollment. Application for the granting of the degree or certificate should be filed in the Registrar's Office prior to the deadline announced by the Registrar.

An annual graduation ceremony is held at the conclusion of the spring semester. Participation is ceremonial only and

confers on a student no rights to a degree. December graduates may participate in the next commencement if they desire and July and August graduates may participate in the spring commencement if they desire, but neither is required to do so. The Registrar's Office should be notified if the student wishes to participate. Instructions for graduation are mailed to all candidates prior to commencement.

In addition to other graduation requirements, a student has five (5) years from the date of original enrollment in the college granting the degree to complete the specific course requirements detailed in the college catalog. If the student does not fully complete the course requirements within five (5) years, the student must select a subsequent catalog year, provided the requisite courses are still being offered in the program.

The student has the ultimate responsibility to select and register for courses meeting graduation requirements.

### **Waiving Of Scholastic Deficiency**

Any student in an academic transfer program may transfer to Applied Arts and Sciences degree or Certificate program. In such a case, the student may choose to have any grades below "C" disregarded. However, the procedure for disregarding low grades may only be exercised while the student is in a career program. If the student changes to an academic transfer program, the original conditions of the academic transfer program must be followed, including the calculation of a cumulative grade point average of all college credits earned. The procedure for waiving scholastic deficiency applies both to students of this college and to students transferring from other institutions. The student who wishes to use the procedure for waiving scholastic deficiency should so state in writing to the Registrar prior to registration and should inform a counselor of such intentions during the pre-registration advisement session.

## **V. EDUCATIONAL AND SPECIAL OPPORTUNITIES**

### **Academic Transfer Programs**

Students who desire to earn a bachelor's degree may complete freshman and sophomore courses in the DCCCD before transferring to a four-year institution. The academic transfer curriculum is coordinated with four-year colleges and universities to aid the transfer of credits to these schools. Students must understand that each four-year institution establishes its own course requirements for its majors and degrees. Even in the same major, what one four-year institution requires may differ greatly from the requirements of another four-year institution. Students should consult with a DCCCD counselor or advisor and the four-year institution on a regular basis to insure enrollment in courses appropriate to the selected degree or program.

Below is a list of some majors which students can begin within the DCCCD. For specific majors and programs, students should consult with an advisor or counselor.

Accounting  
Advertising  
Agriculture  
American Studies

Anthropology  
Architecture  
Art  
Biochemistry  
Biological Sciences  
Botany  
Business Administration (including  
Accounting, Finance, Management,  
Marketing)  
Business Education  
Chemistry  
City and Regional Planning  
Communications  
Computer Science  
Dance  
Dentistry  
Dietetics  
Drama  
Economics  
Elementary Education  
Engineering  
English  
Entomology  
Fine Arts  
Finance  
Foreign Languages  
Forestry  
Geography  
Geology  
Health Science  
History  
Home Economics  
Industrial Arts  
Industrial Design  
Journalism  
Law  
Liberal Arts  
Life Science  
Management  
Marine Biology  
Marketing  
Mathematics  
Medical Technology  
Medicine (Pre-Med)  
Meteorology  
Microbiology  
Music  
Natural Sciences  
Nursing  
Occupational Therapy  
Oceanography  
Optometry  
Pharmacy  
Philosophy  
Photography  
Physical Education  
Physical Science  
Physical Therapy  
Physics  
Political Science  
Pre-Dental, Pre-Medical, Pre-Veterinary  
Psychology  
Public Relations  
Radio/Television/Film  
Recreation



Secondary Education  
 Sociology  
 Special Education  
 Speech Communications  
 Speech Pathology and Audiology  
 Theatre  
 Telecommunications  
 Theology  
 Veterinary Medicine  
 Urban Studies  
 Wildlife Management  
 Zoology

The fields of dentistry, law, medicine, optometry, pharmacy, veterinary medicine, and theology generally require graduate study. Students who plan eventually to get a graduate degree in one of these fields or areas should consult with a counselor or advisor about an appropriate undergraduate major.

Students are encouraged to consult counselors about the transfer information and resources which are available in the college counseling center. Counselors and advisors can assist students in interpreting information from university and college catalogs. The number of credit hours which are transferable will vary from institution to institution. Most colleges and universities will accept at least 60 hours in transfer. In addition, some colleges and universities may have specific grade point average requirements for transfer students. IT IS THE RESPONSIBILITY OF STUDENTS TO KNOW ANY SPECIFIC REQUIREMENT OF THE COLLEGE OR UNIVERSITY TO WHICH THEY WISH TO TRANSFER. THIS RESPONSIBILITY INCLUDES KNOWING COURSE REQUIREMENTS, NUMBER OF CREDIT HOURS ACCEPTED, AND GRADE POINT AVERAGE REQUIREMENTS.

### Technical/Occupational Programs

Students who desire to enter a chosen field as a skilled employee after one or two years of college work may enroll in one of the many technical/occupational programs offered by the College.

Technical/occupational courses are accredited college courses which lead to a Certificate of Completion or an Associate in Applied Arts and Sciences Degree. These programs are established only after studies verify that employment opportunities exist in business and industry.

The College attempts to match the community's labor requirements with the ambitions and goals of its students. This realistic approach to occupational education is made possible by the excellent cooperation of local industry, business, and public agencies who increasingly depend on District colleges to supply skilled personnel.

A continuous liaison is maintained with prospective employers to help place graduates and to keep the training programs current with job requirements. Recommendations for adding new programs to the College offerings are made periodically and are based on community studies which identify additional needs.

Many technical/occupational courses can be offered on company sites for their employees.

### Credit By Examination

Students who believe they already meet the requirements of a course by experience or previous training may request credit by examination. The Registrar's Office has knowledge of courses available through this method. The examination may be a section of the College Level Examination Program (CLEP), Advanced Placement Exams (CEEB), or a teacher-made test, depending on the course.

The student pays an examination fee for each course examination. This fee must be paid prior to taking the examination and is not refundable. The College's credit by examination program is coordinated with similar programs of four-year institutions. Final acceptance of credit by examination for specific degree purposes is determined by the degree-granting institution. Students planning to use credit by examination to meet degree requirements at other institutions should check the requirements of the receiving institution.

Students must be currently enrolled at this college to receive credit by examination. Students may not request credit by examination in courses for which they are currently enrolled. Students may earn as many credits through examination as their ability permits and needs require, but the last 15 credit hours required for graduation in any degree or certificate program may not be earned through credit by examination except as approved by the Vice President of Instruction.

Credit by examination may be attempted only one time in any given course, and a grade of "C" or better must be earned in order for credit to be recorded. A student may use credit by examination for only three (3) credit hours to apply toward the degree requirements in history and only three (3) credit hours to apply toward the degree requirements in government.

### Non-Traditional Learning

The College is committed to serve students and the community in the most effective manner possible while maintaining high standards of education. Students learn in a variety of ways and through a multitude of experiences. Therefore, the College will evaluate these learning experiences and grant equivalent college credit according to the following guidelines:

1. The student must be currently enrolled in the college to receive equivalent credit for non-traditional learning.
2. Credit for specific courses offered by the college may be granted for non-traditional learning experiences after proper assessment of those experiences. Credit



will be awarded on a course by course basis only. The student must be enrolled in the college which is assessing the learning experiences.

3. A student is required to complete at least 12 semester hours of course work with the District, six of which are in the student's major occupational area, prior to awarding of equivalent credits for non-traditional activities. The "CR" grade is awarded for non-traditional course work accepted for credit.
4. Credit may be granted for occupational courses approved by the Coordinating Board of Colleges and Universities.
5. The number of equivalent credits awarded may not exceed the total number of credits required for the student's specific associate degree objective. No graduation, residency, degree or program requirements will be waived as a result of credits earned as provided by this policy.

Students desiring to take advantage of this opportunity should consult with the College Advocate for Non-traditional Learning for additional information. Students making application for assessment of prior learning through life experiences are required to enroll in a human development course to facilitate the process.

### High School Articulation

The College has established a process for evaluating the work of high school vocational graduates to determine if a student can receive college credit for competencies mastered in the high school vocational program. Students should check with the College Dean of Career and Continuing Education or the Counseling Center for more information.

### Flexible Entry Courses

In keeping with its commitment to meet individual educational needs, the College makes available flexible entry courses. These courses are often self paced, allowing students to work at their own speed. Students are cautioned to be aware of the time specified by the College as to when the course requirements need to be completed. Students may register for flexible entry courses during the pre-semester registration periods or at regular times during the semester. Students should check with the Registrar to determine times for registration in these courses. Approval must be obtained for enrollment.

### Telecourses

Students may take a variety of college-credit courses via television which are called "telecourses." Telecourses require the viewing of video programs on local cable systems, KERA/Channel 13 or at campus Learning Resource Centers. Reading, writing and study guide assignments are required, as well as attendance at an on-campus orientation session. Three or four tests are administered on campus during each telecourse, and some courses require discussion meetings, laboratory sessions or field trips. Campus visits are scheduled for times convenient to students.

Content and credit for telecourses are equivalent to that of courses taken on campus. All telecourses are noted in the course description section of this catalog and their schedules included in the college class schedule. Telecourses may be taken in conjunction with on-campus classes, and students may enroll for them through normal registration processes. For more information, call the Telecourse Hotline: 324-7780.

### Cooperative Work Experience

Students may enrich their education by enrolling in cooperative education courses. Cooperative education is a method of instruction that offers the student the opportunity to earn college credit for the development and achievement of learning objectives which are accomplished through current on-the-job experience.

Work experience must be related to a field of study and an occupational goal. This work experience takes place at work training stations approved by the College. Employers must be willing to enter into training agreements with the College and the student/employee. The College will assist a student in seeking approvable employment, if needed.

To enroll in a cooperative education course, students must:

- have completed at least six semester hours in an occupational major or secure waiver of requirement from the instructor;
- be currently enrolled in a course related to the major area of study;
- be approved by the instructor.

Additional information regarding cooperative education may be secured from the Cooperative Education Office, the Division Office, or Counseling Office at each college. Technical/occupational programs which include cooperative education are indicated in this catalog.

### International Studies

Each year a number of selected programs combine learning experiences with foreign travel. Such study-travel is under the direct supervision of faculty, and college credit may be earned by students who successfully meet the learning objectives established for these courses. Most of these courses are offered during the summer, and a complete listing for 1988-89 can be secured from the District Office of Student and International Programs (746-2410).

Richland College offers several study-abroad opportunities for students during the regular semesters and in the summer.

**Semester and Year-Abroad Programs:** Programs are offered both fall and spring in Aix-en-Provence, France; in Puebla, Mexico; and in London, England, at colleges in those countries. The objective of each of these programs is to immerse students in the culture of the country in which they study while they pursue coursework in traditional disciplines. Prior knowledge of a foreign language is not required, though students in France and Mexico must enroll in courses in French and Spanish, respectively, during their semester or year of study. All three programs are available to any qualified DCCCD student through the College Consortium for International Studies, a national organization of more than 170 colleges and universities. These programs are designed primarily for mature students with a 2.5 cumulative grade point average who need second-semester freshman-level or sophomore-level courses. Credits earned in France, Mexico, or England are granted by Richland and are transferable within the normal limits of a student's degree plan. Students who qualify for financial aid at Richland may use such funds toward the costs of any of these programs.

● The program in France is conducted through the Institute for American Universities in Aix-en-Provence and offers courses in French language, civilization, and literature; international relations; international law; politics; history; geography; psychology; philosophy; art history; European literature; and drawing and painting. Studio art students attend the Marchutz School adjacent to where Cezanne lived and worked. The primary language of instruction at Aix is English, although students proficient in French may have their classes conducted in French.

In addition to the primary center in Aix, there are two additional programs for more specialized students. In Avignon, courses are offered that are designed for students wanting advanced classes in French language, literature, and civilization. Those wishing to master French while concentrating on a business curriculum have courses available in such areas as economics, government, international trade, European trade and finance, and international law at the center in Toulon.

● The program in Mexico is offered through the University of the Americas (UDLA) in Puebla, Mexico, for students who want to study the language and culture of Mexico. UDLA is a private, non-sectarian university consisting of three colleges and a masters-level graduate school and is accredited by the Southern Association of Colleges and Schools. Although the primary language of instruction is Spanish, a number of courses in such disciplines as accounting, art, business administration, history, literature, philosophy, political science, and psychology are taught in English for the beginning language student. All students are required to enroll in an interdisciplinary colloquium in Mexican culture and in at least one course in the Spanish language, depending on proficiency.

● The program in London, England, is sponsored by Ealing College. Students may study British culture, history, and literature. As this is the focus of the program, all American students are required to take an orientation course in British culture in addition to the many courses available to them in traditional disciplines.

● Semester-Abroad Curriculum: Although most of the courses in these three programs are listed in the course description section of this catalog, a few are available only in the programs in France and Mexico. For further information about such courses, please contact the Office of International Programs at Richland College. These courses include:

French Conversation.....	4 credits
Language Practicum in French.....	6 credits
Introduction to French Literature.....	3 credits
Spanish Conversation.....	3 credits
Language Practicum in Spanish.....	3 credits
International Relations.....	3 credits
Introduction to Political Science.....	3 credits
Child Psychology.....	3 credits
Architectural History.....	3 credits

**Summer-abroad intensive courses:** Each summer Richland offers a number of study abroad opportunities in which students enroll for Richland courses taught by Richland faculty in various countries abroad. Such courses vary in content and locale from year to year according to the desires of sponsoring faculty and interests of students. In previous summers, these courses have been offered in the following countries: Austria, France, Great Britain, Greece, Italy, the Orient, Russia, Spain, and Switzerland. For more information, contact the Richland Office of International Programs, 238-6200.

### Human Development Courses

In human development courses, students can learn skills useful in everyday living to promote their personal growth. Much of the success and satisfaction in life is dependent on good interpersonal communication skills, making healthy adjustments to our changing society, and pursuing a satisfying career. The human development curriculum gives the student an opportunity to obtain and practice skills in these important areas.

These courses are taught by counselors and other qualified instructors. They offer academic credits which transfer to most surrounding four-year institutions. The courses in human development enhance the total curriculum and blend in with the total concept of the community college.

Campuses also offer special topics courses relevant to life issues. In addition, Speech Communications 101, a course combining aspects of interpersonal communications and public speaking, is required for DCCCD associate degrees.

### Developmental Studies

Students whose assignment test scores indicate they are performing below college level skills will be advised to enroll in developmental courses. Successful completion of these courses will provide prerequisite skills for college-



level work. Other students who want to review and improve basic skills may also elect to take one or more developmental courses.

Reading, writing and mathematics courses are offered in classroom settings with laboratory support. These developmental courses provide instruction directly relevant to students' personal, academic and career goals.

### **Evening And Weekend College**

In dynamic, growing communities such as those encompassing this college, people have continuing educational needs, yet many of them have work schedules and personal involvements which make it impossible for them to attend college during normal daytime hours. For this reason, virtually every course offered during the day is also available in the evening and weekend college. Courses are offered both on campus and at selected community locations.

Evening and weekend courses offer high quality instruction, excellent facilities, and a variety of student services, including counseling, health, library, bookstore, food services, financial aid, and recreation. Instructors are selected from the College's own full-time staff, from outstanding Dallas area educators, and from other professional specialists interested in teaching. To enroll in the evening and weekend courses, contact the Director of Admissions.

### **Learning Resources Center and Library Obligations**

The Learning Resources Center (LRC) supports the entire instructional program. The two major parts of the LRC are the library and instructional Media Services.

The library is a place where students can find books and non-print materials to supplement classroom learning or where — if they choose — they can actually take a course. The library helps students to learn in their own way and at their own speed. It provides books, slides, tapes, reference help, videotapes, and films. The college has a growing collection of books on a wide variety of general information areas to support academic transfer programs and technical/occupational programs. In addition, there are special collections of career materials and pamphlets. The library also subscribes to current popular and technical periodicals as well as to area and national newspapers.

Instructional Media Services supports the classroom instructional program and is responsible for all campus audio-visual equipment and non-print materials used in the classroom and for the production of instructional materials.

Willful damage to library materials (or property) or actions disturbing users of the library may lead to the loss of library privileges. Damage cases are referred to the appropriate authorities for further action. All books and other library materials must be returned before the end of each semester. No transcript is issued until the student's library record is cleared.

### **Servicemen's Opportunity College**

In cooperation with other community colleges in the United States, colleges of the Dallas County Community College District participate in the Servicemen's Opportunity College. Through this program, students can plan an educational experience regardless of location requirements of the military. For further information, contact the Admissions Office.

### **Continuing Education Programs**

Continuing education classes expand the available opportunities for persons of all ages to participate in college programs. A wide spectrum of courses is offered to adults and children through each campus's Continuing Education Division. Continuing education programs are offered throughout the year to meet a variety of needs such as:

- Educational opportunities for individuals who want to broaden their knowledge or learn new skills for different occupational fields.
- Cultural and community enrichment studies for groups and individuals seeking to enhance their quality of life.
- Personal entertainment and recreation for individuals wishing to explore new activities for personal growth and enjoyment.
- Resources for industry, government and professional groups needing to supplement their own training and development programs.

Continuing education program instructors are professional men and women from the community who have proven experience in their fields. Their objective is to share their knowledge, insight, and experience, and to insure that students acquire a greater perspective of the subject and have a meaningful learning experience. This is accomplished through seminars, workshops, and institutes.

The type of course is determined by the nature of the material, instructional approach, and needs of the requesting individuals or organizations. Usually there are no entrance requirements or examinations. Some courses may have age restrictions or may require a certain amount of experience for enrollment. Admission is on a first-come first-served basis. Registration is simple, quick and easy; you may even want to register by phone.

Classes and activities are held on the campus of each College and in a variety of locations throughout the community. Most classes and activities are conducted on weekday evenings, but are also held on weekdays and weekends.

Although most continuing education courses do not require textbooks, the nature of some special offerings do require the purchase of books or supplies. Students are notified of the need for texts and other materials at the first meeting.

Library privileges are afforded continuing education students during the term in which they are registered. Scholarship money is available for specific vocationally oriented courses. To apply for this type of scholarship, please inquire at the Continuing Education Office.

### **Continuing Education Units (CEU's)**

Although no college credit is awarded for continuing education class participation, Continuing Education Units are transcribed for successful completion of most courses. One CEU, by nationwide definition, is "ten contact hours of participation in an organized continuing adult education or extension experience under responsible sponsorship, capable direction and qualified instruction." The CEU is a means of recording and accounting for the various continuing education activities one accumulates over a period of years.

### **The Business and Professional Institute**

The Business and Professional Institute (B.P.I.) develops and delivers training programs and provides services to businesses, industries, government agencies, and professional associations. The Institute custom designs training or provides college credit programs or request to be taught on any of the college campuses or on-site at an office or plant. The duration of training or services is adjusted to meet special requirements and is based on a per-hour contract cost. A B.P.I. office is located on each campus and is staffed with training experts to assist the business community in identifying needs, developing programs and delivering training requests. Other B.P.I. services include conference planning, fitness/wellness programs, tele-conferencing, basic skills assessment, and small business development assistance.

## **VI. STUDENT DEVELOPMENT**

The College is committed to providing opportunities for each individual student's total educational development. Specific student services are integrated with the instructional program of the College to address individual needs for educational, personal, social, cultural, and career development.

### **Student Programs and Resources**

The Student Programs and Resources Office plans and presents programs and activities for the general campus population and the surrounding community. Programs often are coordinated with the various instructional divisions to provide students with valuable educational experiences. Many programs and activities are offered to help the student develop leadership and life enrichment skills. Other programs provide students with interesting and entertaining ways to spend leisure time on campus. The goal of all programs is to facilitate the development of cultured and well-rounded human beings. Student participation in programs is highly encouraged.

### **Counseling Center Services**

Individuals may find the counseling services helpful as they make plans and decisions in various phases of their development. For example, counselors can assist students in selecting courses of study, determining transferability of courses, choosing or changing careers, gaining independence, and confronting problems of daily living. Assistance is provided by the counseling staff in the following areas:

1. Career counseling to explore possible vocational directions, occupational information, and self appraisals of interest, personality and abilities.
2. Academic advisement to examine appropriate choices of courses, educational plans, study skills, and transferability of courses.
3. Confidential personal counseling to make adjustment and life decisions about personal concerns.
4. Small group discussions led by counselors focusing on such areas as interpersonal relationships, test anxiety, and assertiveness. Counselors will consider forming any type of group for which there is a demand.



5. Referral sources to provide in-depth assistance for such matters as legal concerns, financial aid, tutoring, job placement, medical problems, or psychological problems.

### **Tutoring Services**

For students needing special assistance in course work, tutoring services are available. Students are encouraged to seek services through self referral as well as through instructor referral.

### **Testing/Appraisal Center**

The Testing Center administers various tests. Types of tests include:

1. Psychological tests of personality, vocational interests, and aptitudes.
2. Academic tests for college instructional programs. Many courses are individualized and self-paced, permitting students to be tested at appropriate times.
3. Assessment tests, required for appropriate class placement.
4. Tests for selected national programs.

### **Health Center**

Health is the most fundamental human need, and a high standard of physical and mental health is desirable for every human being. The Health Center helps maintain and promote the health of students, faculty, and staff. Services provided by the Health Center include education and counseling about physical and emotional health, emergency first aid treatment, referral services to community agencies and physicians, tuberculin skin tests and other screening programs, and programs of interest to students and faculty. Students are encouraged to make an appointment with the nurse to discuss specific health problems. No information on a student's health is released without written permission from the student, except as required by law.

## **Placement Services**

The Dallas County Community College District provides job placement services free of charge to DCCCD students (credit and non-credit), alumni, and those in the process of enrolling. Staff members provide assistance by utilizing the computerized Student Placement System. This system contains lists of job openings in a variety of fields throughout the Metroplex. Staff members also provide assistance with establishing employment contacts, job interviewing, writing a resume and cover letter, and developing job search strategies leading to success.

## **Services for Disabled Students**

The Services for Disabled Students Office offers a variety of support services to enable disabled students to participate in the full range of college experiences. Services are arranged to fit the individual needs of the student and may include sign language interpreters; notetakers; tutors; mobility assistants; and loan of wheelchairs, audio tape recorders, talking calculators and audio texts (for those students with visual impairments or learning disabilities). Academic, career and personal counseling are also available. Disabled students should contact the office at least one month before registration. The office will provide students with an orientation session and registration information. For additional information, contact the Services for Disabled Students Office or the Counseling Center.

## **Student Organizations**

Information about participation in any organization may be obtained through the Student Programs and Resources Office. The development of student organizations is determined by student interest. Categories of organizations include:

Co-curricular organizations pertinent to the educational goals and purposes of the College.

Social organizations to provide an opportunity for friendships and promote a sense of community among students.

Service organizations to promote student involvement in the community.

Pre-professional and academic organizations to contribute to the development of students in their career fields.

## **Intercollegiate Athletics**

Participation on athletic teams is voluntary on a non-scholarship basis for students who meet requirements established by the Metro Athletic Conference. Some sports are associated with the National Junior College Athletic Association. For more information regarding eligibility, rules, standards, and sports offered, contact the Physical Education Office.

## **Intramural Sports**

The College provides a campus intramural program for students and staff and encourages participation. For additional information contact the intramural director in the Physical Education Office or the Student Programs and Resources Office.

## **Housing**

The College does not operate dormitories of any kind or maintain listings of available housing for students. Students who do not reside in the area must make their own arrangements for housing. Limited housing for DCCCD students may be available at Bishop College. Interested persons should contact the Vice President of Students at Bishop.

## **Campus Safety Department**

Campus safety is provided within the framework of state law to "protect and police buildings and grounds of state institutions of higher learning." Because all laws of the state are applicable within the campus community, specially trained and educated personnel are commissioned to protect college property, personal property, and individuals on campus. Officers of the Campus Safety Department are licensed Peace Officers of the State of Texas. These officers are vested with full authority to enforce all Texas laws and rules, regulations, and policies of the College, including the Code of Student Conduct.

## **VII. FINANCIAL AID**

Financial aid is available to help those students who, without such aid, would be unable to attend college. The primary resources for meeting the cost of education are the student, the parents and/or spouse. Financial aid, however, can remove the barriers for those families who cannot afford the cost of education beyond high school and can fill in the gap for families who can afford only part of the cost.

### **How to Apply**

All students must complete the Financial Aid Application and return it to the Financial Aid office of the DCCCD college the student plans to attend. The Financial Aid Form of the College Scholarship Service must be completed using data from the 1040 Income Tax Return. This form is used to provide an analysis of financial need. It may be obtained from a high school counselor or from any DCCCD Financial Aid office. The FAF is to be mailed directly to the College Scholarship Service with the required processing fee noted on the form. Allow 4 to 6 weeks for the processing. The student should mail the FAF at least one month before the priority deadline for the semesters for which the student is applying.

The Department of Education will randomly select about 50% of all applicants and require that information reported on the FAF or PELL Grant application be verified for accuracy. If the student's application is one that is selected, the student will be required to provide additional documents before financial assistance can be awarded. An eligible non-citizen must submit a copy of an INS card as proof of immigration status before financial assistance can be awarded.

For students who attended other colleges, universities, vocational or trade schools (including our DCCCD colleges), a Financial Aid Transcript must be sent from each institution to the Financial Aid office of the school where the student is applying. This procedure is required even though the student may not have received financial assistance at the previous institution.

Students born after December 31, 1959, and who are required under the Military Selective Service Act to register for the draft, must do so before financial aid can be approved. All students who apply for financial aid must sign a Registration Compliance Statement giving their selective service registration status before financial aid can be awarded.

### **Deadlines for Applying**

Application for financial assistance received by the following dates will be given first priority:

Academic Year — July 1  
Spring Only — November 1  
Summer Sessions — May 1

Applications received after these dates will be processed as time and availability of funds permit.

The student must reapply for financial assistance every year. The award does not continue automatically beyond the period awarded.

### **Grants**

#### **Pell Grant**

The Pell Grant is a federally funded program designed to help undergraduate pre-baccalaureate students continue their education. The purpose of this program is to provide eligible students with a "foundation" of financial aid to assist with the costs of attending college.

All students applying for financial assistance through the College must apply for a Pell Grant. Other types of financial aid may be awarded if the student applies and qualifies. Eligibility for Pell Grant is based on financial need and satisfactory academic progress. Applications and additional information concerning the Pell Grant Program are available in the Financial Aid Office and in the counseling offices of most high schools. The application process takes approximately 8-10 weeks. In response to the Pell Grant application, a Student Aid Report (SAR) will be mailed directly to the student. The student should immediately review the SAR to make sure it is correct and bring all copies to the Financial Aid Office. The exact amount of the Pell Grant award will depend upon the aid index on the SAR and the number of hours for which the student enrolls. In order to be eligible, a student must enroll for at least six credit hours each semester. Students must apply each year.

#### **Supplemental Educational Opportunity Grant (SEOG)**

The SEOG program provides assistance for eligible undergraduate students who show exceptional financial need, are making satisfactory academic progress toward their educational goal and are enrolled for at least six credit hours. The maximum award for an academic year is \$4,000; however, the actual amount of the grant may be limited to less than this, depending on the availability of funds at the school, the student's family financial condition and other financial aid the student is receiving. Priority is given to students receiving Pell Grant. Students must apply each year for the SEOG.

#### **Texas Public Educational Grant (TPEG)**

The TPEG Program was enacted by the 64th Texas Legislature to assist needy students attending state supported colleges in Texas. To be eligible students must show financial need and be making satisfactory academic progress toward their educational goal. The actual amount of the grant will vary depending on the availability of funds at the school, the student's family financial condition and other financial aid the student is receiving. This grant is available to students enrolled in credit and some non-credit courses. Students must apply each year for the TPEG.



#### **Texas Public Educational-State Student Incentive Grant (TPE-SSIG)**

The TPE-SSIG Program is a state grant that is matched with federal funds to provide financial assistance to needy students attending state-supported colleges in Texas. No more than 10% of the funds may be awarded to non-resident students. To qualify, students must enroll for at least six credit hours per semester, make satisfactory academic progress toward their educational goal, and have financial need. The maximum grant for an academic year is \$2,500; however, the actual amount of the grant award may be less depending on the availability of funds and the degree of financial need. Grants are awarded by eligibility on a first-come, first-served basis. Students must apply each year for the TPE-SSIG.

### **Scholarships**

#### **DCCCD Foundation Scholarships**

The DCCCD Foundation provides a sizeable scholarship program for students who attend one of the colleges of the DCCCD. These funds are made available through the colleges to deserving students who, also, meet additional criteria of the scholarship funds. Application forms for these Foundation scholarships are available in the Financial Aid Office at each college.

#### **Miscellaneous Scholarships**

Several of the colleges have a limited number of scholarships available as a result of gifts from individuals, private industry, and community organizations. Generally, the eligibility criteria is the same as noted for the DCCCD Foundation Scholarships, and application forms are available in the Financial Aid Office.

### **Loans**

#### **Guaranteed Student Loans (GSL):**

The Higher Education Act of 1965, as amended, provided for student loans from private commercial lending agencies such as banks, savings and loan associations, credit unions and insurance companies. To be eligible students must now have financial need, make satisfactory academic progress toward their educational goal, and be enrolled for at

least six (6) credit hours. As an undergraduate, the student may borrow up to \$2,625 per year for the first two academic years and a maximum of \$17,250 for all years of undergraduate study. The actual loan amount may be limited to less than this, depending on the cost of attendance, other financial aid, and family financial condition.

The interest rate is set by Congress and is currently 8%. Borrowers do not pay interest until six months after ceasing at least half-time enrollment. The U.S. Dept. of Education pays the interest during the time the student is enrolled and during the grace period of six months following enrollment. Repayment begins six months after the student leaves school or drops to less than half-time enrollment. The minimum payment will be \$50 per month, and the loan must be repaid within 10 years.

Lenders may charge a 5% loan origination fee on each loan in addition to the insurance premium charged on the loan. These charges will be deducted from the proceeds of the loan.

Under the new Supplemental Loans to Students (SLS) Program, independent undergraduate students are eligible to borrow up to \$4,000 per academic year at 10.03% interest for the current year. The loan maximum is \$20,000 for all the years of undergraduate study. Repayment begins within 60 days after disbursement of the loan, except that the borrower is entitled to a deferment of the principal for at least half time enrollment.

Under the PLUS Program, parents may now borrow up to \$4,000 per year for each dependent undergraduate student with the loan maximum for each eligible student of \$20,000. The current interest rate is 10.03%. Repayment begins within 60 days after disbursement of the loan.

#### **Hinson-Hazelwood College Student Loan Program (HHCSLP)**

The Hinson-Hazelwood Loan is a state-funded Guaranteed Student Loan Program for students who are attending Texas colleges and are eligible to pay Texas resident tuition rates.

All Hinson-Hazelwood Loan applicants must demonstrate financial need before a loan can be approved. The loan limit has been raised to \$2,625 for the first two years of undergraduate study and a maximum of \$17,250 for all one's years of undergraduate study. The actual loan amount may be limited to less than this depending on the cost of attendance, other financial aid, and the family's financial condition. A 5% loan origination fee and an insurance premium on the life of the student will be taken from the total amount of each loan. The interest rate currently is 7% per year simple interest. No interest or payments are paid by the student while enrolled at least half-time or during the six month grace period. The minimum payment will be \$50 per month over a 5 to 10 year period depending on the total amount borrowed.

#### **Emergency Short-Term Loans**

The colleges of the DCCCD have limited short-term loan funds available which have been established by individuals and organizations, including the DCCCD Foundation, to meet emergency needs of students. Loans are usually limited to the amount of tuition and fees or books and

supplies and bear no interest. These loans must be repaid within the semester for which they are borrowed. A late fee of \$5 will be added for late payment. Delinquent loans are turned over to a collection agency for recovery, and the student must pay the entire cost of collection. Because there is heavy use of these short-term loan funds at registration, students should apply *before* registration if help from this program is needed.

#### **Employment**

##### College Work-Study Program (CWSP)

The College Work-Study Program provides part-time employment for students with financial need who are making satisfactory academic progress toward their educational goal and are enrolled for at least six credit hours. The wage rate is \$4.25 per hour and most students work 15 to 25 hours per week. You will be paid on the last working day of the month. The amount you can earn in a school year is determined by the amount of your financial need and other aid awarded as part of your financial aid package. The majority of the students are employed on campus; however, some off-campus employment is also available. Students must apply each year for College Work-Study.

##### Student Assistants Employment Program (Non-Work-Study)

Part-time employment for students who do *not* have financial need is available on campus. The wage rate and the average hours worked per week are the same as the College-Work Study Program.

##### **Off-Campus Employment**

Students who need help finding a job off-campus should apply at the Placement Office of the college they plan to attend. The wage rate varies with each job and financial need is not a requirement of employment.







### **Tuition Exemption Programs**

In addition to the grants, scholarships, employment and loan programs already mentioned, the State of Texas and DCCCD offer a number of exemptions from tuition and fee charges. These exemptions are often overlooked simply because of their unusual nature. They are not related to family income or "financial need," nor do they require completion of a regular financial aid application. Check with the Financial Aid Office for additional information on these tuition exemption programs and the criteria for eligibility.

### **Vocational Rehabilitation**

The Texas Rehabilitation Commission offers assistance for tuition and fees to students who are vocationally handicapped as a result of a physically or mentally disabling condition. This assistance is generally limited to students not receiving other types of aid. For information, contact Texas Rehabilitation Commission, 13612 Midway, Suite 530, Dallas, Texas 75234.

### **Social Security Administration**

The Social Security Administration has offered benefits to students who met its criteria. However, this program of educational benefits is being phased out so students need to contact the regional Social Security Administration Office regarding eligibility. The Admissions Office on campus acts as liaison between students and the Social Security Administration after eligibility has been established.

### **Bureau of Indian Affairs**

The Bureau of Indian Affairs offers educational benefits to American Indian students. Students need to contact the regional Bureau of Indian Affairs Office regarding eligibility.

Bureau of Indian Affairs  
1100 Commerce - Room 2C44  
Dallas, Texas 75202

### **Veterans' Benefits Program**

The Veterans' Benefits Program is coordinated by the Veterans' Affairs Office of the College. Services of this office include counseling the veteran concerning benefits. Veterans Administration loans, Veterans Administration work study programs, financial problems, career counseling, and other areas related to the veteran's general welfare. When testing indicates that a veteran should enroll in developmental courses such as reading, writing, or math, the student may pursue these courses with no charge to his or her benefits. Tutoring services are also available to the veteran who is having learning difficulties in one or more subjects. The veteran student should be aware of some of the Veterans Administration guidelines. Violation of these guidelines causes complications in receiving monthly benefits or loss of those benefits.

1. A veteran student who plans to enroll in developmental courses must be tested and show a need in basic skills before enrolling in these courses.
2. A veteran student enrolled in television courses must be pursuing more on-campus credit hours than hours taken by television.
3. A veteran student who has successfully completed credit hours at another college or university must submit a transcript from that college or university before applying for V.A. benefits. The transcript is evaluated and credit granted when applicable.
4. A veteran student must enroll in courses required for a degree program. Information on degree requirements may be obtained from the Registrar's Office.
5. A veteran student who withdraws from all courses attempted during a semester is considered as making unsatisfactory progress by the V.A. and may lose future benefits. A veteran student must also maintain a satisfactory grade point average as outlined in this catalog.

The above V.A. regulations are subject to change without notice. Students should contact the Veterans' Affairs Office in order to be aware of current regulations and procedures.

### **Hazlewood Act**

Under the Hazlewood Act certain veterans who have exhausted remaining educational benefits from the Veterans Administration can attend Texas state supported institutions and have some fees waived. To be eligible, students must have been residents of Texas at the time they entered the service, have an honorable discharge, must now be residents of Texas; and be ineligible for federal financial aid. Applications are available at the Financial Aid Office and will take a minimum of eight weeks to process. To apply, students must submit a Hazlewood Act application, a copy of their discharge papers and a Student Aid Report stating ineligibility to the Financial Aid Office.

### **Academic Progress Requirements:**

Students who receive financial aid or V.A. benefits are required by government regulations to make measurable progress toward the completion of their course of study.

## **Academic Progress Requirements**

Federal law requires that students must be making satisfactory progress in their course of study in order to receive financial aid. DCCCD's policy requires that the following:

### The Grade Point Average (GPA) Requirement:

1. A student must maintain a 2.0 GPA for each semester or the combined summer sessions for which an award is approved.
2. A new applicant must have a cumulative 2.0 GPA on all credit hours earned from District colleges prior to the semester for which aid is requested.
3. A transfer student from a college outside the District must have a cumulative 2.0 GPA as evidenced by an academic transcript. If no academic transcript is available at the time of the award, aid may be awarded on a probationary basis for one semester only.

### Completion Requirement:

1. A student enrolled full-time (12 credit hours or more) must complete a minimum of 9 credit hours for any semester or the combined summer sessions for which funding is received.
2. A student enrolled three-quarter time (9-11 credit hours) or half-time (6-8 credit hours) must complete a minimum of 6 credit hours for any semester or the combined summer sessions for which funding is received.

### Failure to Meet the Standards of Academic Progress:

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

1. Following the first semester in which the above standards of academic progress are not met, the student will be placed on probation for the duration of the next semester of funding.
2. A new applicant with less than a cumulative 2.0 GPA will not have met the standards of academic progress; however, financial aid may be awarded on a probationary basis for one semester only.
3. The student who fails to meet the standards of academic progress during the semester of attendance while on probation will be placed on suspension and denied further funding for one semester or combined summer session.
4. During the first period of suspension, the student must enroll at least half-time for one semester at a District college, pay the expenses related to that enrollment and maintain the standards of academic progress before eligibility for financial aid will be reestablished.

5. If failure to meet satisfactory progress results in a second suspension from financial aid, the student must enroll at least half-time for the equivalent of two semesters at a District college, pay the expenses related to that enrollment and maintain the standards of academic progress before eligibility for financial aid will be reestablished.
6. Following any period of suspension, the student will again be eligible for funding on a probationary basis for one semester or combined summer session.
7. If failure to meet satisfactory progress results in a third suspension from financial aid, no additional aid will be awarded.
8. The colleges of the District shall enforce probation or suspension status of any student who transfers from one college to another within the District.

### Notification:

A student who is placed on probation or suspension will be notified in writing of the student's status.

### Incremental Measurement of Progress:

Academic progress of recipients will be measured three times a year following the Fall and Spring semesters and Summer II session for the entire summer enrollment.

### Maximum Time Period for Completion of Educational Objective:

1. Each student receiving financial aid funds will be expected to complete their educational objective or course of study within a reasonable period of time. The maximum hour limit for the District is 75 credit hours.
2. Funding beyond the maximum hour limit may be approved by the Director of Financial Aid due to mitigating circumstances.

### Appeal Process

1. A student who has been denied financial aid because of a failure to meet any of the criteria of the standards of academic progress may petition the Director of Financial Aid to consider mitigating circumstances.
2. A student who has been denied financial aid may make written appeal of the Financial Aid Director's decision to the Vice President of Student Development. The President of the College shall be the final appeal authority.

### Effects on Funding:

1. Certain courses not considered for funding are:
  - a. courses taken by audit; and
  - b. courses taken outside the degree plan; however, developmental courses, if required as a prerequisite to enable a student to successfully complete a student's educational goal, will be considered for funding.
2. Credit hours earned by a placement test will not be considered for funding.
3. Courses for which an "I" (incomplete), "WX" or "W" (withdrawal) grade is received will not be treated as completed courses.
4. Repeated courses will be considered for funding.

# VIII. DALLAS COUNTY COMMUNITY COLLEGE DISTRICT STUDENT RIGHTS AND RESPONSIBILITIES

## Synopsis:

1. General Provisions
  - a. Preamble
  - b. Scope
  - c. Definitions
2. Acquaintance with Policies, Rules Regulations
3. Campus Regulations
  - a. Basic Standard
  - b. Enumerated Standards
    - (1) Student Identification
    - (2) Use of District Facilities
    - (3) Speech and Advocacy
    - (4) Disruptive Activities
    - (5) Alcoholic Beverages
    - (6) Drugs
    - (7) Gambling
    - (8) Hazing
    - (9) Academic Dishonesty
    - (10) Financial Transactions
    - (11) Other Offenses
4. Disciplinary Proceedings
  - a. Administrative Disposition
    - (1) Investigation
    - (2) Summons
    - (3) Disposition
  - b. Student Discipline Committee
    - (1) Composition; Organization
    - (2) Notice
    - (3) Preliminary Matters
    - (4) Procedure
    - (5) Evidence
    - (6) Record
  - c. Faculty-Student Board of Review
    - (1) Right to Appeal
    - (2) Board Composition
    - (3) Consideration of Appeal
    - (4) Petition for Administrative Review
5. Penalties
  - a. Authorized Disciplinary Penalties
  - b. Definition of Penalties
6. Parking and Traffic Regulations

## 1. General Provisions

### a. Preamble

The primary goal of the District and its colleges is to help students of all ages achieve effective living and responsible citizenship in a fast-changing region, state, nation and world. The District's primary concern is the student, each college attempts to provide an environment which views students in a holistic manner encouraging and inviting them to learn and grow independently, stressing the process and the acquisition of skills. Such an environment presupposes both rights and responsibilities. Free inquiry and expression are essential parts of this freedom to learn and of room for growth and development. However, this environment also demands appropriate opportunities and conditions in the classroom, on the campus and, indeed, in the larger community. Students must exercise these freedoms with responsibility. The responsibility to secure and to respect general conditions conducive to the freedom to learn and to grow is shared by all members of the college community. Dallas County Community College District has a duty to develop policies and procedures which provide and safeguard this liberty and this environment. The purpose of this statement is to enumerate the essential provisions for student freedom to learn and grow and the responsibilities which go with these liberties as established by the Dallas County Community college District Board of Trustees.

### b. Scope

- (1) This code applies to individual students and states the function of student, faculty, and administrative staff members to the College in disciplinary proceedings.
- (2) The College has jurisdiction for disciplinary purposes over a person who was a student at the time he allegedly violated a board policy, college regulation, or administrative rule.

### c. Definitions: In this code, unless the context requires a different meaning:

- (1) "Class day" means a day on which classes before semester or summer session final examinations are regularly scheduled or on which semester or summer session final examinations are given;
- (2) "Vice President of Student Development" means the Vice President of Student Development, his delegate(s) or his representative(s);
- (3) "Director of Student Programs" means the Director of Student Programs, his delegate(s) or his representative(s);
- (4) "Director of Campus Security" means the Director of Campus Security, his delegate(s) or his representative(s);

- (5) "President" means the president of a college of the Dallas County Community college District;
- (6) "Student" means a person enrolled in a college of the Dallas County Community College District, or a person accepted for admission to the College;
- (7) All vice presidents, deans, associate deans, assistant deans, directors, and division chairman of the College for the purposes of this code shall be called "administrators";
- (8) "Complaint" is a written summary of the essential facts constituting a violation of a board policy, college regulation or administrative rule;
- (9) "Board" means the Board of Trustees, Dallas County Community College District;
- (10) "Chancellor" means the Chancellor of the Dallas County Community College District;
- (11) "Major violation" means one which can result in suspension or expulsion from the college or denial of degree;
- (12) "Minor violation" means one which can result in any disciplinary action other than suspension or expulsion from the College or denial of degree.

## 2. Acquaintance with Policies, Rules, Regulations

The Student Rights and Responsibilities statement is subject to change by action of the Board of Trustees. Each student is expected to be fully acquainted with all published policies, rules, and regulations of the College, copies of which shall be available to each student for review at the offices of the Vice President of Student Development and Student Programs. The College will hold each student responsible for compliance with these policies, rules and regulations. The student is responsible for obtaining published materials to update the items in this statement. Students are also expected to comply with federal, state and local laws. This principle extends to conduct off campus which is likely to have an adverse effect on the College or on the educational process.

## 3. Campus Regulations

### a. Basic Standard: The basic standard of behavior requires a student:

- (1) Not to violate any municipal, state, or federal laws, and
- (2) Not to interfere with or disrupt the orderly educational processes of any college of the Dallas County Community College District.

A student is not entitled to greater immunities or privileges before the law than those enjoyed by other citizens generally.

**b. Enumerated Standards:** The succeeding regulations describe offenses for which disciplinary proceedings may be initiated, but the College expects from its students a higher standard of conduct than the minimum required to avoid discipline. The College expects all students to obey the law, to show respect for properly constituted authority, to perform contractual obligations, to maintain absolute integrity and a high standard of individual honor in scholastic work, and to observe standards of conduct appropriate for a community of scholars. In short, a student enrolled in the College assumes an obligation to conduct himself in a manner compatible with the College's function as an educational institution.

### (1) Student Identification:

- a. **Issuance and Use:** I.D. cards will be distributed during the first week of school and will be required for the following events and services: library usage, concerts, lectures, campus movies, use of student center facilities, voting in campus elections, and tickets for campus and community events. All I.D. cards are the property of the College and must be shown on request of a representative of the College. Students are required to be in possession of their I.D. cards at all times and are prohibited from loaning their I.D. cards to any other person for any reason. Likewise, it is prohibited to use any other card except the one issued by the College.

- b. **Replacement Cards:** If lost, duplicate I.D. cards may be obtained in the Business Office by payment of a \$4.00 charge.

- (2) **Use of District Facilities:** Each college of the Dallas County Community College District is a public facility entrusted to the Board of Trustees and college officials for the purpose of conducting the process of education. Activities which appear to be compatible with this purpose are approved through a procedure maintained in the Student Programs Office. Activities which appear to be incompatible or in opposition to the purposes of education are normally disapproved. It is imperative that a decision be made prior to an event in order to fulfill the trust of the public. No public facility could be turned over to the indiscriminate use of anyone for a platform or forum to promote random causes. These reasonable controls are exercised by college officials for the use of facilities to ensure the maximum use of the College for the purpose for which it was intended. Therefore, anyone planning an activity at one of the colleges of the Dallas County Community College District which requires space to handle two or more persons to conduct an activity must have prior approval. Application forms to reserve space must be acquired through the Student Programs Office. This office also maintains a statement on procedures for reserving space.

- (3) **Speech and Advocacy:** Students have the right of free expression and advocacy; however, the time, place, and manner of exercising speech and advocacy shall be regulated in such a manner to ensure a orderly conduct, non-interference with college functions or activities, and identification of sponsoring groups or individuals. Meetings must be registered with the Student Programs Office. An activity may be called a meeting when the following conditions prevail at the activity:
  - (a) When two or more persons are sitting, standing, or lounging so as to hear or see a presentation or discussion of a person or a group of persons.

(b) When any special effort to recruit an audience has preceded the beginning of discussions or presentations.

(c) When a person or group of persons appears to be conducting a systematic discussion or presentation on a definable topic.

(4) **Disruptive Activities:** Any activity which interrupts the scheduled activities or processes of education may be classified as disruptive; thus, anyone who initiates in any way any gathering leading to disruptive activity will be violating college regulations and/or state law. The following conditions shall normally be sufficient to classify behavior as disruptive:

(a) Blocking or in any other way interfering with access to any facility of the College.

(b) Inciting others to violence and/or participating in violent behavior, e.g., assault; loud or vulgar language spoken publicly; or any form of behavior acted out for the purpose of inciting and influencing others.

(c) Holding rallies, demonstrations, or any other form of public gathering without prior approval of the College.

(d) Conducting any activity which causes college officials to be drawn off their scheduled duties to intervene, supervise or observe the activity in the interest of maintaining order at the College.

Furthermore, the Vice President of Student Development shall enforce the provisions of the Texas education Code, Section 4.30 (following)

**Education Code Section 4.30 provides:**

(a) No person or group of persons acting in concert may willfully engage in disruptive activity or disrupt a lawful assembly on the campus or property of any private or public school or institution of higher education or public vocation and technical school or institute.

(b) For the purposes of this section, disruptive activity means

(1) Obstructing or restraining the passage of persons in an exit, entrance, or hallway of any building without the authorization of the administration of the school;

(2) Seizing control of any building or portion of a building for the purpose of interfering with any administrative, educational, research, or other authorized activity;

(3) Preventing or attempting to prevent by force or violence or the threat of force or violence any lawful assembly authorized by the school administration;

(4) Disrupting by force or violence or the threat of force or violence a lawful assembly in progress; or

(5) Obstructing or restraining the passage of any person at an exit or entrance to said campus or property or preventing or attempting to prevent by force or violence or by threats thereof the ingress or egress of any person to or from said property of campus without the authorization of the administration of the school.

(c) For the purpose of this section, a lawful assembly is disrupted when any person in attendance is rendered incapable of participating in the assembly due to the use of force or violence or due to a reasonable fear that force or violence is likely to occur.

(d) A person who violates any provision of this section is guilty of a misdemeanor and upon conviction is punishable by a fine not to exceed \$200 or by confinement in jail for not less than 10 days nor more than six months, or both.

(e) Any person who is convicted the third time of violating this section shall not thereafter be eligible to attend any school, college, or university receiving funds from the State of Texas for a period of two years from such third conviction.

(f) Nothing herein shall be construed to infringe upon any right of free speech or expression guaranteed by the Constitutions of the United States or the State of Texas.

(5) **Drinking of Alcoholic Beverages:** Each college of the Dallas County Community College District specifically forbids the drinking of or possession of alcoholic beverages on its campus.

(6) **Drugs:** Each college of the Dallas County Community College District specifically forbids the illegal possession, use, sale or purchase of drugs, narcotics, or hallucinogens on or off campus.

(7) **Gambling:** State law expressly forbids gambling of any kind on state property.

(8) **Hazing:** Each college of the Dallas County Community College District, as a matter of principle and because it is a violation of state law, is opposed to and will endeavor to prevent hazing activities which involve any of the following factors singly or in conjunction:

(a) Any actions which seriously imperil the physical well-being of any student (all walks and all calisthenics are held to be actions which seriously imperil the physical well-being of students and are, therefore, accordingly specifically prohibited).

(b) Activities which are by nature indecent, degrading, or morally offensive.

(c) Activities which by their nature may reasonably be assumed to have a degrading effect upon the mental or moral attitude of the persons participating therein.

The institutional policy is one discouraging all activities incompatible with the dignity of the college student and exercising disciplinary correction over such activities as escape from reasonable control, regulation, and decency. From the institution's point of view, the reasonableness for the control of hazing activities, if engaged in by an organization, rests in the elected and responsible officials of the group, as individuals, and in the group as a whole, since it sets and approves the policy to be followed in these matters. It is accordingly recommended that all groups be informed that both their officers and the group as a whole, will be held singularly and collectively responsible for any actions considered to be unreasonable, immoral, and irresponsible within the policy limits detailed above. Individual activity falling in this category shall be disciplinary action.

**(9) Academic Dishonesty**

(a) The Vice President of Student Development may initiate disciplinary proceedings against a student accused of academic dishonesty.

(b) "Academic dishonesty" includes, but is not limited to, cheating on a test, plagiarism and collusion.

(c) "Cheating on a test" includes:

(i) Copying from another student's test paper;

(ii) Using, during a test, materials not authorized by the person giving the test;

(iii) Collaborating with another student during a test without authority;

(iv) Knowingly using, buying, selling, stealing, transporting or soliciting in whole or part the contents of an unadministered test;

(v) Substituting for another student, or permitting another student to substitute for one's self, to take a test; and

(vi) Bribing another person to obtain an unadministered test or information about an unadministered test.

(d) "Plagiarism" means the appropriation of another's work and the unacknowledged incorporation of that work on one's written work offered for credit.

(e) "Collusion" means the unauthorized collaboration with another person in preparing written work offered for credit.

**(10) Financial Transactions with the College**

(a) No student may refuse to pay or fail to pay debt he owes to the College.

(b) No student may give the College a check, draft or order with intent to defraud the College.

(c) A student's failure to pay the College the amount due on a check, draft, or order, on or before the fifth class after the day the Business Office sends written notice that the drawee has rightfully refused payment on the check, draft or order, is prima facie evidence that the student intended to defraud the College.

(d) The Vice President of Student Development or designee may initiate disciplinary proceedings against a student who has allegedly violated the provisions of this section.

**(11) Other Offenses**

(a) The Vice President of Student Development may initiate disciplinary proceedings against a student who:

(i) Conducts himself in a manner that significantly interferes with college teaching, research, administration, disciplinary proceedings or other college activities, including its public service functions, or with other authorized activities on college premises;

(ii) Damages, defaces or destroys college property or property of a member of the college community or campus visitor;

(iii) Knowingly gives false information in response to requests from the College;

(iv) Engages in hazing, as defined by state law and college regulations;

(v) Forges, alters or misuses college documents, records or I.D. cards;

(vi) Violates college policies or regulations concerning parking, registration of student organizations, use of college facilities, or the time, place and manner of public expression;

(vii) Fails to comply with directions of college officials acting in the performance of their duties;

(viii) Conducts himself in a manner which adversely affects his suitability as a member of the academic community or endangers his own safety or the safety of others

(ix) Illegally possesses, uses, sells, or purchases drugs, narcotics, hallucinogens, or alcoholic beverages on or off campus;

(x) Commits any act which is classified as an indictable offense under either state or federal law.

**4. Disciplinary Proceedings**

**a. Administrative Disposition**

**(1) Investigation, Conference and Complaint**

(a) When the Vice President of Student Development Office receives information that a student has allegedly violated a board policy, college regulation, or administrative rule, the Vice President or a subordinate delegated by him shall investigate the alleged violation. After completing the preliminary investigation, the Vice President may:

(i) Dismiss the allegations as unfounded, either before or after conferring with the student; or

(ii) Proceed administratively and impose disciplinary action; or

(iii) Prepare a complaint based on the allegation for use in disciplinary hearings along with a list of witnesses and documentary evidence supporting the allegation.

(b) The President may take immediate interim disciplinary action, suspend the right of a student to be present on the campus and to attend classes, or otherwise alter the status of a student for violation of a board policy, college regulation, or administrative rule, when in the opinion of such official the interest of the College would best be served by such action.

(c) No person shall search a student's personal possessions for the purpose of enforcing this code unless the individual's prior permission has been obtained. Searches by law enforcement officers of such possessions shall be only as authorized by law.

**(2) Summons**

(a) A student may be summoned to appear in connection with an alleged violation by sending him a letter by certified mail, return receipt

requested, addressed to the student at his address appearing in the Registrar's Office records. It is the student's responsibility to immediately notify the Registrar's Office of any change of address.

- (b) The letter shall direct the student to appear at a specified time and place not less than three class days after the date of the letter. The letter shall also describe briefly the alleged violation and shall state the Vice President of Student Development's intention to handle the allegation as a minor or major violation.
- (c) The Vice President of Student Development may place on disciplinary probation a student who fails without good cause to comply with a letter of summons, or the Vice President may proceed against the student as stated below in the sections of **Disposition** and **Penalties**.

### (3) Disposition

- (a) At a conference with a student in connection with an alleged minor or major violation, the Vice President shall advise the student of his rights.
- (b) A student may refuse administrative disposition of the alleged violation and, on refusal, is entitled to a hearing. If a student accepts administrative disposition, he shall sign a statement that he understands the nature of the charges, his right to a hearing. If a student accepts administrative disposition, he shall sign a statement that he understands the nature of the charges, his right to a hearing or to waive the same, the penalty imposed, and his waiver of the right of appeal.
- (c) The Vice President of Student Development shall prepare an accurate, written summary of each administrative disposition and forward a copy to the student (and, if the student is a minor, to the parent or guardian of the student), to the Director of Student Programs and to the Director of Campus Security.
- (d) The Vice President of Student Development may impose disciplinary action as follows:
  - (i) For minor violations, any action authorized by this code in the section on **Penalties** (from 1-8, i.e. Admonition through Suspension of eligibility).
  - (ii) For major violations, any action authorized by this code in the section on **Penalties** (from 1-11, i.e. Admonition through Expulsion).

## b. Student Discipline Committee

### (1) Composition; Organization

- (a) When a student refuses administrative disposition of either a major or a minor violation, he is entitled to a hearing before the Student Discipline Committee. This request must be made in writing on or before the sixth working day following administrative disposition. The committee shall be composed of equal numbers of students, administrators and faculty of the College. The committee shall be appointed by the president for each hearing on a rotating basis or on a basis of availability.
- (b) The Student Discipline Committee shall elect a chairman from the appointed members. The chairman of the committee shall rule on the admissibility of evidence, motions, and objections to procedure, but a majority of the committee members may override the chairman's ruling. All members of the committee are eligible to vote in the hearing.
- (c) The chairman shall set the date, time, and place for the hearing and may summon witnesses, and require the production of documentary and other evidence.
- (d) The Vice President of Student Development shall represent the College before the Student Discipline Committee and present evidence to support any allegations of violations of Board policy, college regulation, or administrative rules. The Vice President of Student Development may be assisted by legal counsel when in the opinion of the Vice President of Student Development the best interests of the student or the College would be served by such assistance.

### (2) Notice

- (a) The committee chairman shall by letter notify the student concerned of the date, time and place for the hearing. The letter shall specify a hearing date not less than three (3) nor more than ten (10) class days after the date of the letter. If the student is under 18 years of age, a copy of the letter shall be sent to the parents or guardian.
- (b) The chairman may for good cause postpone the hearing so long as all interested parties are notified of the new hearing date, time and place.
- (c) The Student Discipline Committee may hold a hearing at any time if the student has actual notice of the date, time, and place of the hearing, and consents in writing thereto, and the President, or his designated representative in his absence, states in writing to the committee that, because of extra-ordinary circumstances the requirements are inappropriate.
- (d) The notice shall specify whether the charge or charges are considered minor violations or major violations, shall direct the student to appear before the committee on the date and at the time and place specified, and shall advise the student of the following rights:
  - (i) To a private hearing;
  - (ii) To appear alone or with legal counsel (if charges have been evaluated as a major violation or if the College is represented by legal counsel);
  - (iii) To have his parents or legal guardian present at the hearing;
  - (iv) To know the identity of each witness who will testify against him;
  - (v) To cause the committee to summon witnesses, require the production of documentary and other evidence possessed by the

College, and to offer evidence and argue in his own behalf;

- (vi) To cross-examine each witness who testifies against him;
- (vii) To have a stenographer present at the hearing to make a stenographic transcript of the hearing, at the student's expense, but the student is not permitted to record the hearing by electronic means;
- (viii) To appeal to the Faculty-Student Board of Review, subject to the limitations established by the **Faculty-Student Board of Review** section.
- (e) The Vice President of Student Development may suspend a student who fails without good cause to comply with a letter sent under this section, or, at his discretion, the Vice President of Student Development may proceed with the hearing in the student's absence.

### (3) Preliminary Matters

- (a) Charges arising out of a single transaction or occurrence, against one or more students, may be heard together or, either at the option of the committee or upon request by one of the students-in-interest, separate hearings may be held.
- (b) At least three (3) class days before the hearing date, the student concerned shall furnish the committee chairman with:
  - (i) The name of each witness he wants summoned and a description of all documentary and other evidence possessed by the College which he wants produced;
  - (ii) An objection that, if sustained by the chairman of the Student Discipline Committee, would prevent the hearing;
  - (iii) The name of the legal counsel, if any, who appear with him;
  - (iv) A request for a separate hearing, if any, and the grounds for such a request.
- (c) When the hearing is set under waiver of notice or for other good cause determined by the committee chairman, the student concerned is entitled to furnish the information described in paragraph (b) hereof at any time before the hearing begins.

### (4) Procedure

- (a) The hearing shall be informal and the chairman shall provide reasonable opportunities for witnesses to be heard. The College may be represented by staff members of the Vice President of Student Development's Office, legal counsel and other persons designated by the President. The hearing shall be open to the public so long as space is available, but may include the following persons on the invitation of the student:
  - (i) Representatives of the College Council;
  - (ii) A staff member of the college newspaper;
  - (iii) Representatives of the Faculty Association;
  - (iv) Student's legal counsel, and
  - (v) Members of the student's immediate family.
- (b) The committee shall proceed generally as follows during the hearing:
  - (i) The Vice President of Student Development shall read the complaint;
  - (ii) The Vice President of Student Development shall inform the student of his rights, as stated in the notice of hearing;
  - (iii) The Vice President of Student Development shall present the College's case;
  - (iv) The student may present his defense;
  - (v) The Vice President of Student Development and the student may present rebuttal evidence and argument;
  - (vi) The committee will vote the issue of whether or not there has been a violation of board policy, college regulation or administrative rule; if the committee finds the student has violated a board policy, college regulation or administrative rule, the committee will determine an appropriate penalty.
  - (vii) The committee shall inform the student of the decision and penalty, if any;
  - (viii) The committee shall state in writing each finding of a violation of board policy, college regulation or administrative rule, and the penalty determined. Each committee member concurring in the finding and penalty shall sign the statement. The committee may include in the statement its reasons for the finding and penalty.

### (5) Evidence

- (a) Legal rules of evidence shall not apply to hearings before the Student Discipline Committee, and the committee may admit and give probative effect to evidence that possesses probative value and is commonly accepted by reasonable men in the conduct of their affairs. The committee shall exclude irrelevant, immaterial and unduly repetitious evidence. The committee shall recognize as privileged communications between a student and a member of the professional staff of the Health Center, Counseling and Guidance Center, or the Office of the Vice President of Student Development where such communications were made in the course of performance of official duties and when the matters discussed were understood by the staff member and the student to be confidential. Committee members may freely question witnesses.
- (b) The committee shall presume a student innocent of the alleged violation until it is convinced by clear and convincing evidence that the student violated a Board policy, college regulation or administrative rule.
- (c) All evidence shall be offered to the committee during the hearing and made a part of the hearing record. Documentary evidence may be

admitted in the form of copies of extracts, or by incorporation by reference. Real evidence may be photographed or described.

(d) A student defendant may not be compelled to testify against himself.

#### **(6) Record**

(a) The hearing record shall include: a copy of the notice of hearing; all documentary and other evidence offered or admitted in evidence; written motions, pleas, and any other materials considered by the committee; and the committee's decisions.

(b) If notice of appeal is timely given as hereinafter provided, the Vice President of Student Development, at the direction of the committee chairman, shall send the record to the Board of Review, with a copy to the student appellant on or before the tenth class day after the notice of appeal is given.

### **b. Faculty-Student Board of Review**

#### **(1) Right to Appeal**

(a) In those cases in which the disciplinary penalty imposed was as prescribed in the section on **Penalties**, (6) Restitution through (11) Expulsion, the student may appeal the decision of the Student Discipline Committee, or the decision of the President in an interim action to the Faculty-Student Board of Review. Disciplinary actions taken under the section on **Penalties**, (1) Admonition through (5) Bar against readmission, cannot be appealed beyond the Student Discipline Committee. A student appeals by giving written notice to the Vice President of Student Development on or before the third class day after the day the decision or action is announced. This notice may be informal, but shall contain the student's name, the date of the decision or action, the name of his legal counsel, if any, and a simple request for appeal.

(b) Notice of appeal timely given suspends the imposition of penalty until the appeal is finally decided, but interim action may be taken as authorized under the section on **Disciplinary Disposition** which authorizes the President to take immediate interim disciplinary action.

#### **(2) Board Composition**

(a) The President shall appoint Boards of Review to hear appeals under this code. Each such board shall have three faculty representatives and two students appointed by the President in alphabetical rotation from available members, of the review panel.

(b) The review panel shall have twenty-five (25) members, selected as follows:

(i) Fifteen (15) representatives from the faculty, recommended by the President of the Faculty Association and appointed by the President of the College for three-year staggered terms.

(ii) Ten (10) students shall be appointed by the President of the College for one-year terms. Student members must have an overall 2.0 average on all college work attempted at the time of the nomination and must not have a discipline case pending.

(c) The President shall instruct the Board of Review members on student disciplinary policies, rules, and hearing procedures as soon as practicable after the members are appointed.

#### **(3) Consideration of Appeal**

(a) The Board of Review shall consider each appeal on the record of the Student Discipline Committee and for the good cause shown, original evidence and newly discovered evidence may be presented.

(b) Upon timely appeal, the President shall select a Board of Review as aforesaid and shall notify the student appellant and the Vice President of Student Development in writing of the time, date, and place of the hearing as determined by the President.

(c) The President will designate one of the members of the Board of Review to serve as chairman.

(d) Appellate hearings will follow the procedure prescribed in this code.

(e) The Board of Review will hear oral argument and receive written briefs from the student appellant and Vice President of Student Development or their representatives.

(f) The Board of Review, after considering the appeal, may affirm the Student Discipline Committee's decision, reduce the penalty determined or otherwise modify the decision of the Student Discipline Committee, or dismiss the complaint.

(g) The Board of Review shall modify or set aside the findings of violation, penalty or both, if the substantive rights of the student were prejudiced because the Student Discipline Committee's finding of facts, conclusions or decisions were:

(i) In violation of a federal or state law, board policy, college regulation, administrative rule, or authorized procedure.

(ii) Clearly erroneous in view of the reliable probative and substantial evidence on the complete hearing; or

(iii) Capricious, or characterized by abuse of discretion or clearly unwarranted exercise of discretion.

(h) The Board of Review may not increase a penalty assessed by the Student Discipline Committee.

#### **(4) Petition for Administrative Review**

(a) A student is entitled to appeal in writing to the Board of Trustees through the President, the Chancellor, and the Chairman of the Board. The President shall automatically review every penalty of expulsion.

(b) A petition for review is informal but shall contain, in addition to the information required, notice of appeal, the date of the Board of Review's action on the student's appeal and his reasons for disagreeing with the board's action. A student shall file his petition with the President on or before the third class day after the day the Board of Review announces its action on the appeal. If the President rejects the petition, and the student appellant wishes to petition the Chancellor,

he shall file the petition with the Chancellor on or before the third class day after the President rejects the petition in writing.

(c) If the Chancellor rejects the petition, and the student appellant wishes to petition the Board of Trustees, he shall file the petition with the Chairman of said Board on or before the third class day after the day after the Chancellor rejects the petition in writing.

(d) The President, the Chancellor, and the Board of Trustees in their review may take any action that the Student Discipline Committee is authorized to take. They may receive written briefs and hear oral argument during their review.

### **5. Penalties**

#### **a. Authorized Disciplinary Penalties:**

The Vice President of Student Development, the Student Discipline Committee, or the Faculty-Student Board of Review may impose one or more of the following penalties for violation of a board policy, college regulation, or administrative rule:

- (1) Admonition
- (2) Warning probation
- (3) Disciplinary probation
- (4) Withholding of transcript or degree
- (5) Bar against readmission
- (6) Restitution
- (7) Suspension of rights or privileges
- (8) Suspension of eligibility for official athletic and non-athletic extracurricular activities
- (9) Denial of degree
- (10) Suspension from the College
- (11) Expulsion from the College

#### **b. Definitions:**

The following definitions apply to the penalties provided above:

(1) An "Admonition" is a written reprimand from the Vice President of Student Development to the student on whom it is imposed.

(2) "Warning probation" indicates that further violations may result in suspension. Disciplinary probation may be imposed for any length of time up to one calendar year and the student shall be automatically removed from probation when the imposed period expires.

(3) "Disciplinary probation" indicates that further violations may result in suspension. Disciplinary probation may be imposed for any length of time up to one calendar year and the student shall be automatically removed from probation when the imposed period expires. Students may be placed on disciplinary probation for engaging in activities such as the following, being intoxicated, misuse of I.D. card, creating a disturbance in or on campus facilities, and gambling.

(4) "Withholding of transcript or degree" is imposed upon a student who fails to pay a debt owed the College or who has a disciplinary case pending final disposition. The penalty terminates on payment of the debt or final disposition of the case.

(5) "Bar against readmission" is imposed on a student who has left the College on enforced withdrawal for disciplinary reasons.

(6) "Restitution" is reimbursement for damage to or misappropriation of property. Reimbursement may take the form of appropriate service to repair or otherwise compensate for damages.

(7) "Disciplinary suspension" may be either or both of the following:

(a) "Suspension of rights and privileges" is an elastic penalty which may impose limitations or restrictions to fit the particular case.

(b) Suspension of eligibility for official athletic and non-athletic extracurricular activities: prohibits, during the period of suspension, the student on whom it is imposed from joining a registered student organization; taking part in a registered student organization's activities, or attending its meetings or functions; and from participating in an official athletic or non-athletic extracurricular activity. Such suspension may be imposed for any length of time up to one calendar year. Students may be placed on disciplinary suspension for engaging in activities such as the following: having intoxicating beverages in any college facility; destroying state property or student's personal property; giving false information in response to requests from the College; instigating a disturbance or riot; stealing; possession, use, sale or purchase of illegal drugs on or off campus; any attempt at bodily harm, which includes taking an overdose of pills or any other act where emergency medical attention is required; and conviction of any act which is classified as a misdemeanor or felony under state or federal law.

(8) "Denial of degree" may be imposed on a student found guilty of scholastic dishonesty and may be imposed for any length of time up to and including permanent denial.

(9) "Suspension from the College" prohibits, during the period of suspension, the student on whom it is imposed from being initiated into an honorary or service organization; from entering the college campus except in response to an official summons; and from registering, either for credit or for non-credit, for scholastic work at or through the College.

(10) "Expulsion" is permanent severance from the College. This policy shall apply uniformly to all of the colleges of the Dallas County Community College District.

In the event any portion of this policy conflicts with the state law of Texas, the state law shall be followed.

### **6. Parking and Traffic**

#### **a. Reserved Parking Areas**

These reserved areas are designated by signs; all other parking areas are open

and are non-reserved.

- (1) Handicapped persons, college visitors
- (2) Motorcycles

#### b. Tow Away Areas

- (1) Handicapped persons area
- (2) Fire lanes
- (3) Parking or driving on campus in areas other than those designated for vehicular traffic
- (4) Parking in "No Parking" zone
- (5) Parking on courtyards

#### c. General Information

- (1) College parking areas are regulated by state, municipal and campus statutes. College campus officers are commissioned to cite violators.
- (2) All vehicles which park on the campus of the College must bear a parking decal emblem. The parking decal may be secured from the College Security Division or during fall and spring registration periods. No fee is charged for the decal.
- (3) Placement of decal emblem:
  - (a) Cars: lower left corner of rear bumper.
  - (b) Motorcycles, motor bikes, etc.: gas tank
- (4) Campus Speed Limits\*
  - (a) 10 M.P.H. in parking areas
  - (b) 20 M.P.M. elsewhere on campus.

\*Unless otherwise posted.
- (5) All handicapped parking must be authorized and handicapped decal displayed on vehicle prior to parking in handicapped reserved areas.

#### d. Campus Parking and Driving Regulations

- (1) The colleges, acting by and through their Board of Trustees are authorized by state law to promulgate, adopt and enforce campus parking and driving regulations. Campus officers are commissioned police officers, and as such, all traffic and criminal violations are within their jurisdiction.
- (2) The College has authority for the issuance and use of suitable vehicle identification insignia as permits to park and drive on campus. Permits may be suspended for the violation of campus parking and driving regulations.
- (3) The College campus officers have the authority to issue the traffic tickets and summons of type now used by the Texas Highway Patrol. It is the general policy to issue these tickets for violations by visitors and persons holding no college permit. These tickets are returnable to the Justice of Peace Court in which the college is located. Furthermore, the campus officers are authorized to issue campus citations which are returnable to the Department of Safety and Security at the Business Office.
- (4) Under the direction of the College President, the Department of Safety and Security shall post proper traffic and parking signs.
- (5) Each student shall file an application for a parking permit with the Security Office upon forms prescribed by the College.
- (6) These traffic regulations apply not only to automobiles but to motor bikes, motorcycles and ordinary bicycles.

#### e. Procedures

- (1) All motor vehicles must be parked in the parking lots between the parking lines. Parking in all other areas, such as campus, drives, curb areas, courtyards, and loading zones, will be cited.
- (2) Citations may be issued for:
  - (a) Speeding (the campus speed limit is 20 M.P.H. except where posted)
  - (b) Reckless driving
  - (c) Double parking
  - (d) Driving wrong way in one-way lane
  - (e) Parking in "No Parking" lane
  - (f) Improper parking (parts of car outside the limits of a parking space)
  - (g) Parking in wrong area (for example, handicapped or "No Parking" areas)
  - (h) Parking trailers or boats on campus
  - (i) Parking or driving on campus in areas other than those designated for vehicular traffic
  - (j) Violations of all state statutes regulating vehicular traffic
  - (k) Failure to display parking permit
  - (l) Collision with another vehicle or any sign or immovable object
- (3) A citation is notice that a student's parking permit has been suspended. The service charge to reinstate the parking and driving permit must be paid at the Business Office. Failure to pay the service charge will result in the impoundment of a vehicle that is parked on campus and whose decal has been suspended.
- (4) A person who receives a campus citation shall have the right within ten days to appeal in writing to the Vice President of Business, accompanied by whatever reason the person feels that the citation should not have been issued.
- (5) If it becomes necessary to remove an improperly parked vehicle, an independent wrecker operator may be called. The owner of the vehicle will be charged the wrecker fee in addition to the service charge for reinstatement of driving and parking privileges.
- (6) Visitors to campus are also required to follow college regulations.
- (7) The service charge for reinstatement of the parking and driving permit will be \$5.00 per citation.
- (8) Four citations per car during an academic year will result in permanent suspension of parking and driving permit for the balance of that academic year. A new total commences on August 1, of each year. A fee may be assessed for unauthorized parking in an area designated for handicapped persons. (Not to exceed \$200).
- (9) The College is not responsible for the theft of vehicles on campus or their contents.

#### Student Grievance Procedure

A copy of the Student Grievance Procedure designed to provide students with the opportunity to question conditions which the student believes impede his/her education or instruction is available in the office of the Vice President of Student Development.

## RECIPROCAL TUITION AGREEMENT

### TCJC PROGRAMS

The following programs offered by Tarrant County Junior College may be taken by Dallas County residents at in-county tuition rates:

Program	Campus*
Agribusiness Technology	NORTHWEST
Banking and Finance	NORTHEAST
Business	NORTHEAST, NORTHWEST, SOUTH
Civil/Construction	NORTHEAST
Dental Hygiene	NORTHEAST
Emergency Medical Technology	NORTHEAST
Fashion Merchandising	NORTHEAST
Industrial Supervision	SOUTH
Major Appliance Repair	SOUTH
Marketing	NORTHEAST, NORTHWEST, SOUTH
Media Communications	NORTHEAST
Medical Record Technology	NORTHEAST
Mental Health/Mental Retardation	NORTHEAST
Motorcycle Service Technician	NORTHWEST
Nondestructive Evaluation Technology	SOUTH
Physical Therapist Assistant	NORTHEAST
Consumer Electronics Technician	SOUTH
Small Gasoline Engine Repair	NORTHEAST
Surveying Technology	NORTHEAST





# DALLAS COUNTY COMMUNITY COLLEGE DISTRICT

## 1988-89 Technical/Occupational Programs Offered On Our Campuses

### Career Education Programs

	BHC	CVC	EFC	MVC	NLC	RLC
Accounting Associate	*	*	*	*	*	*
Advertising Art	*					
Air Conditioning & Refrigeration—Residential		*	*		*	
Air Conditioning & Refrigeration Technology			*			
Animal Medical Technology		*				
Apparel Design			*			
Architectural Technology			*			
Associate Degree Nursing	*	*	*			
LVN Option			*			
Auto Body Technology		*				
Automotive Technology		*	*			
Dealership-Sponsored Technician	*					
Electronic Engine Control Technician	*					
Service Technician	*					
Automotive Technology Apprenticeship		*				
Aviation Technology						
Career Pilot				*		
Air Cargo Transport				*		
Air Traffic Control				*		
Aircraft Dispatcher				*		
Airline Marketing				*		
Fixed Base Operations/Airport Management				*		
Carpentry				*		
Child Development Associate	*	*				
Administrative	*	*				
CDA Training Certificate	*	*				
Infant-Toddler	*	*				
Special Child Certificate	*	*				
Commercial Music						
Arranger/Composer/Copyist	*					
Music Retailing	*					
Performing Musician	*					
Recording Technology	*					
Computer Information Systems						
Business Computer Assistant			*			
Business Computer Information Systems	*	*	*	*	*	*
Business Computer Programmer	*	*	*	*	*	*
Computer Center Specialist			*			
Computer Operations Technician			*			
Personal Computer Support			*	*	*	
Construction Management & Technology				*		
Criminal Justice			*			
Dental Assisting Technology			*			
Diesel Mechanics				*		
Digital Electronics		*				
Drafting & Computer Aided Design		*	*			
Electronic Design		*				
Educational Personnel				*		
Bilingual/ESL				*		
Educational Assistant				*		
Electrical Technology				*		
Electronic Telecommunications		*	*	*		
Electronics Technology			*	*		
Avionics			*			
Engineering Technology						
Electro-Mechanical	*			*		
Electronic Controls	*			*		
Electronic Quality Control	*			*		

### Career Education Programs

	BHC	CVC	EFC	MVC	NLC	RLC
Industrial Technology	*			*		
Manufacturing Engineering	*			*		
Mechanical Quality Control				*		
Mechanical Technology				*		
Quality Control				*		
Robotics Technology				*		
Robotics and Fluid Power	*			*	*	*
Fashion Marketing	*	*				
Financial Management					*	
Fire Protection Technology			*			
Food And Hospitality Service			*			
Graphic Communications		*	*			
Graphic Arts		*	*			
Interior Design		*	*			
Interpreter Training Program		*	*			
Sign Language Studies		*	*			
Legal Assistant			*			
Machine Parts Inspection			*			
Machine Shop			*			
Management Careers						
Administrative Management	*	*	*	*	*	*
Mid-Management	*	*	*	*	*	*
Postal Service Administration	*	*	*	*	*	*
Sales, Marketing & Retail Management	*	*	*	*	*	*
Small Business Management	*	*	*	*	*	*
Transportation and Logistics Management	*	*	*	*	*	*
Medical Assisting Technology			*			
Medical Laboratory Technology			*			
Medical Transcription			*			
Motorcycle Mechanics	*					
Office Careers						
Administrative Assistant	*	*	*	*	*	*
Legal Secretary	*	*	*	*	*	*
General Office Certificate	*	*	*	*	*	*
Office Information Systems Specialist	*	*	*	*	*	*
Word Processing Operator	*	*	*	*	*	*
Ornamental Horticulture Technology						
Greenhouse Florist					*	
Landscape Management					*	
Landscape Nursery					*	
Florist					*	
Landscape Gardener					*	
Outboard Marine Engine Mechanics	*					
Pattern Design		*	*			
Physical Fitness Technology			*			
Radiologic Sciences			*			
Diagnostic Medical Sonography			*			
Radiography Technology			*			
Real Estate			*	*	*	
Respiratory Therapy Technology			*			
Small Engine Mechanics	*					
Social Work Associate		*	*			
Human Services		*	*			
Surgical Technology			*	*		
Surgical Technology for Graduate R.N.			*	*		
Video Technology			*	*		
Vocational Nursing			*	*		
Welding Technology			*	*		

BHC — Brookhaven College  
 CVC — Cedar Valley College  
 EFC — Eastfield College  
 ECC — El Centro College  
 MVC — Mountain View College  
 NLC — North Lake College  
 RLC — Richland College

# ACCOUNTING ASSOCIATE

Offered at all seven campuses

(Associate Degree)

The Accounting Associate two-year program is designed to prepare a student for a career as a junior accountant in business, industry and government. Emphasis will be placed on internal accounting procedures and generally accepted accounting principles.

The Associate in Applied Arts and Sciences Degree is awarded for successful completion of at least 66 credit hours as outlined below. Students desiring a less comprehensive program that emphasizes bookkeeping procedures and practices should consider the General Office Certificate with elective emphasis on accounting careers. The General Office Certificate is available in the Office Careers Program.

	CREDIT HOURS
<b>SEMESTER I</b>	
ACC 201 Principles of Accounting I.....	3
BUS 105 Introduction to Business.....	3
ENG 101 Composition I.....	3
MTH 130 Business Mathematics or	
MTH 111 Mathematics for Business and	
Economics.....	3
OFC 160 Office Calculating Machines.....	3
	15
<b>SEMESTER II</b>	
ACC 202 Principles of Accounting II.....	3
ENG 102 Composition II.....	3
CIS 103 Introduction to Computer Information	
Systems.....	3
MGT 136 Principles of Management.....	3
OFC 172 Beginning Typing*.....	3
SC 101 Introduction to Speech	
Communication.....	3
	18
<b>SEMESTER III</b>	
ACC 203 Intermediate Accounting I.....	3
ACC 204 Managerial Accounting.....	3
ACC 250 Microcomputer-Based Accounting	
Applications.....	3
ECO 201 Principles of Economics I.....	3
†Elective.....	3
ACC 803 Cooperative Work Experience or	
ACC 804 Cooperative Work Experience or	
†††Elective.....	3-4
	18-19

## SEMESTER IV

ACC 238 Cost Accounting or	
ACC 239 Income Tax Accounting.....	3
BUS 234 Business Law.....	3
ECO 202 Principles of Economics II.....	3
OFC 231 Business Communications.....	3
††Elective.....	3
	15

Minimum Hours Required..... 66

†Elective must be selected from the following:

ANT 100 Introduction to Anthropology.....	3
GVT 201 American Government.....	3
GVT 202 American Government.....	3
HST 101 History of the United States.....	3
HST 102 History of the United States.....	3
HD 105 Basic Process of Interpersonal Relationships.....	3
HD 106 Personal and Social Growth.....	3
PSY 101 Introduction to Psychology.....	3
PSY 103 Human Sexuality.....	3
PSY 131 Applied Psychology and	
Human Relations.....	3
SOC 101 Introduction to Sociology.....	3
SOC 102 Social Problems.....	3

††Elective must be selected from the following:

ART 104 Art Appreciation.....	3
ENG 201 British Literature.....	3
ENG 202 British Literature.....	3
ENG 203 World Literature.....	3
ENG 204 World Literature.....	3
ENG 205 American Literature.....	3
ENG 206 American Literature.....	3
HUM 101 Introduction to the Humanities.....	3
MUS 104 Music Appreciation.....	3
PHI 102 Introduction to Philosophy.....	3
THE 101 Introduction to the Theatre.....	3
Foreign Language	

†††Electives may be selected from the following:

Any CIS or CS Programming Course	
ACC 205 Business Finance.....	3
ACC 207 Intermediate Accounting II.....	3
ACC 238 Cost Accounting.....	3
ACC 239 Income Tax Accounting.....	3
ACC 703-713 Cooperative Work Experience.....	3
ACC 704-714 Cooperative Work Experience.....	4
ACC 813 Cooperative Work Experience.....	3
ACC 814 Cooperative Work Experience.....	4
BUS 143 Personal Finance.....	3
BUS 237 Organizational Behavior.....	3
CIS 262 Contemporary Topics in Computer	
Information Systems.....	3
CIS 264 Special Topics in Computer	
Information Systems.....	4
MKT 206 Principles of Marketing.....	3

\*Students who can demonstrate proficiency by previous training, experience, or placement tests may substitute a course from the electives††† listed for this program.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# COMPUTER INFORMATION SYSTEMS — BUSINESS COMPUTER INFORMATION SYSTEMS

Offered at all seven campuses

(Associate Degree)

This option is designed to develop entry-level skills and knowledge in computer information systems. The option includes several business courses found in university degree programs as well as CIS courses which will prepare students for CIS course work at a university. A touch typing speed of 20 words per minute is suggested for most CIS courses with a lab component. Students are advised to develop this proficiency.

## CREDIT HOURS

### SEMESTER I

CIS 103	Introduction to Computer Information Systems .....	3
BUS 105	Introduction to Business or	
MGT 136	Principles of Management .....	3
MTH 111	Mathematics for Business and Economics I .....	3
ENG 101	Composition I .....	3
+ Elective .....		3
		15

### SEMESTER II

CIS 162	COBOL Programming I .....	4
MTH 112	Mathematics for Business and Economics II .....	3
SC 101	Introduction to Speech Communication .....	3
CIS 150	Computer Program Logic and Design .....	3
ACC 201	Principles of Accounting I* .....	3
		16

### SEMESTER III

CIS 164	COBOL Programming II .....	4
ECO 201	Principles of Economics I .....	3
ACC 202	Principles of Accounting II .....	3
++ Elective .....		3
+++ Elective .....		3-4
		16-17

### SEMESTER IV

CIS 210	Assembly Language I .....	4
ECO 202	Principles of Economics II .....	3
Any CIS/CS or Accounting course .....		3
++++ Elective .....		3-4
		13-14

Minimum Hours Required: ..... 60

+ Elective—must be selected from the following:

Anthropology  
Government  
History  
Human Development  
Psychology  
Sociology

++ Elective—must be selected from the following:

ART 104	Art Appreciation .....	3
ENG 102	Composition II .....	3
ENG 201	British Literature .....	3
ENG 202	British Literature .....	3
ENG 203	World Literature .....	3
ENG 204	World Literature .....	3
ENG 205	American Literature .....	3
ENG 206	American Literature .....	3
ENG 210	Technical Writing .....	3
HUM 101	Introduction to the Humanities .....	3
MUS 104	Music Appreciation .....	3
PHI 102	Introduction to Philosophy .....	3
THE 101	Introduction to the Theatre .....	3
Foreign Language .....		3

+++ Recommended Electives

Any CIS or CS course (including CIS 700-800 Cooperative Work Experience).

Any 200 level accounting course not listed.

++++ Electives—must be selected from the following:

CIS 167	C Programming .....	4
CIS 168	4th Generation Language Concepts .....	3
CIS 170	RPG Programming .....	3
CIS 172	BASIC Programming .....	3
CIS 173	PASCAL Programming for Business .....	3

NOTE: Students may obtain credit toward a degree for only one of each of the pairs of courses listed below:

CIS 172 or CS 122  
CIS 210 or CS 211  
CIS 103 or CS 111  
CIS 173 or CS 112

\*ACC 131 and ACC 132 may be substituted for ACC 201. Both courses must be taken for equivalent credit to ACC 201.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# COMPUTER INFORMATION SYSTEMS — BUSINESS COMPUTER PROGRAMMER

Offered at all seven campuses

(Associate Degree)

This option is intended for the preparation of entry-level or trainee computer programmers who will work in an applications setting to support the general, administrative, and organizational information processing function of industry, commerce, business, and government service. It is designed as a two-year career program to prepare students for direct entry into the work environment. It is intended to provide a sufficient foundation so the graduate with experience and continued learning may advance in career paths appropriate to their own particular interests and abilities. A touch typing speed of 20 words per minute is suggested for most CIS courses with a lab component. Students are advised to develop this proficiency.

## CREDIT HOURS

### SEMESTER I

CIS 103	Introduction to Computer Information Systems	3
BUS 105	Introduction to Business or	
MGT 136	Principles of Management	3
MTH 115	College Mathematics I*	3
ENG 101	Composition I	3
PSY 131	Applied Psychology and Human Relations or	
PSY 101	Introduction to Psychology or	
HD 105	Interpersonal Relationships or	
HD 107	Developing Leadership Behavior	3
		15

### SEMESTER II

CIS 150	Computer Program Logic and Design	3
CIS 160	Data Communications	3
CIS 162	COBOL Programming I	4
ACC 201	Principles of Accounting I**	3
SC 101	Introduction to Speech Communication	3
		16

### SEMESTER III

CIS 164	COBOL Programming II	4
CIS 205	JCL and Operating Systems	4
ACC 202	Principles of Accounting II	3
+ Elective		3-4
++ Elective		3
		17-18

### SEMESTER IV

CIS 210	Assembly Language I	4
CIS 225	Systems Analysis & Design	4
CIS 258	On-Line Applications or	
CIS 254	Data Base Systems	4
+++ Elective		3-4
		15-16

Minimum Hours Required: 63

+ Electives—must be selected from the following: Any CIS or CS course (including CIS 700-800 Cooperative Work Experience).

BUS 105	Introduction to Business	3
BUS 234	Business Law	3
BUS 237	Organizational Behavior	3
ECO 201	Principles of Economics I	3
ECO 202	Principles of Economics II	3
MGT 136	Principles of Management	3
MKT 206	Principles of Marketing	3
MTH 202	Introductory Statistics	3
Other 200 level Accounting courses.		

++ Electives—must be selected from the following:

ART 104	Art Appreciation	3
ENG 102	Composition II	3
ENG 201	British Literature	3
ENG 202	British Literature	3
ENG 203	World Literature	3
ENG 204	World Literature	3
ENG 205	American Literature	3
ENG 206	American Literature	3
ENG 210	Technical Writing	3
HUM 101	Introduction to the Humanities	3
MUS 104	Music Appreciation	3
PHI 102	Introduction to Philosophy	3
THE 101	Introduction to the Theatre	3
Foreign Language		

+++ Electives—must be selected from the following:

CIS 108	PC Software Applications	4
CIS 114	Problem Solving With the Computer	4
CIS 118	Text Processing Applications	3
CIS 167	C Programming	4
CIS 168	4th Generation Language Concepts	3
CIS 170	RPG Programming	3
CIS 172	BASIC Programming	3
CIS 173	PASCAL Programming for Business	3
CIS 218	Spreadsheet Applications	4

NOTE: Students may obtain credit toward a degree for only one of each of the pairs of courses listed below:

CIS 172 or CS 122	
CIS 210 or CS 211	
CIS 103 or CS 111	
CIS 173 or CS 112	

\*MTH 111 and MTH 130 may be substituted

\*\*ACC 131 Bookkeeping I and ACC 132 Bookkeeping II may be substituted for ACC 201 Principles of Accounting I

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# COMPUTER INFORMATION SYSTEMS — PERSONAL COMPUTER SUPPORT

*El Centro, Mountain View, and Richland only*

(Associate Degree)

This program includes education/training to qualify students to provide support for personal computer users; to troubleshoot software and hardware problems, implementing corrections where possible; to evaluate new software and hardware, matching company standards to product specifics; to install hardware and software, including equipment assembly and diagnostics; and to assist in the development of training courses, providing training for users.

A touch typing speed of 20 words per minute is suggested for most CIS courses with a lab component. Students are advised to develop this proficiency.

## CREDIT HOURS

### SEMESTER I

CIS 108	PC Software Applications .....	4
BUS 105	Introduction to Business or	
MGT 136	Principles of Management .....	3
ENG 101	Composition I .....	3
MTH 130	Business Mathematics or	
MTH 115	College Mathematics II .....	3
PSY 131	Applied Psychology and	
	Human Relations .....	3
		<hr/> 16

### SEMESTER II

CIS 114	Problem Solving with the	
	Computer .....	4
CIS 118	Text Processing Applications .....	3
CIS 160	Data Communications .....	3
ACC 201	Principles of Accounting I .....	3
SC 101	Introduction to Speech	
	Communication .....	3
		<hr/> 16

### SEMESTER III

CIS 218	Spreadsheet Applications .....	4
CIS 221	PC Operating Systems and	
	Utilities .....	4
CIS 223	PC Hardware .....	3
HUM 101	Introduction to the Humanities .....	3
OFC 231	Business Communications .....	3
		<hr/> 17

### SEMESTER IV

CIS 228	Database Applications .....	4
CIS 239	User Documentation and	
	Training .....	3
CIS 280	Applied Studies .....	3
CIS XXX	Any PC Programming Language .....	3-4
+ CIS Elective	.....	3-4
		<hr/> 16-18

Minimum Hours Required: ..... 65

+ CIS Elective to be selected from any CIS course offered.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# CONSTRUCTION MANAGEMENT AND TECHNOLOGY

*Richland only*

(Associate Degree)

This program prepares the student for employment as a technician in a wide range of construction industry applications. Course content is designed to provide meaningful experiences in the construction industry at the management and site coordination level.

	CREDIT HOURS
<b>SEMESTER I</b>	
CMT 121 Construction Materials, Methods and Equipment I .....	3
CMT 123 Construction Graphics .....	4
CMT 132 Construction Industry .....	3
CMT 236 Building Codes and Safety .....	4
MTH 195 Technical Mathematics I* .....	3
	17
<b>SEMESTER II</b>	
CMT 122 Construction Materials, Methods and Equipment II .....	3
CMT 124 Electrical and Mechanical Equipment for Buildings .....	4
CIS 108 PC Software Applications .....	4
COM 131 Applied Communications* .....	3
MTH 196 Technical Mathematics II* .....	3
	17
<b>SEMESTER III</b>	
CMT 136 Surveying and Measurements .....	4
CMT 138 Construction Management I .....	4
CMT 231 Construction Contracts and Specifications .....	3
EGR 289 Mechanics of Structure .....	3
SC 101 Introduction to Speech Communication .....	3
	17
<b>SEMESTER IV</b>	
CMT 230 Quality Control and Cost Control .....	4
CMT 234 Estimating .....	4
CMT 237 Soils, Foundations, and Reinforced Concrete .....	4
CMT 238 Construction Management II .....	4
+ Elective .....	3-4
	19-20
Minimum Hours Required .....	70

+ Electives—must be selected from the following:

ANT 100	Introduction to Anthropology .....	3
ART 104	Art Appreciation .....	3
GVT 201	American Government .....	3
HST 101	History of the United States or	
HST 102	History of the United States .....	3
HST 105	Western Civilization or	
HST 106	Western Civilization .....	3
HUM 101	Introduction to the Humanities .....	3
PHI 102	Introduction to Philosophy .....	3
SPA 101	Beginning Spanish .....	4
	(Or any higher level Spanish course)	

\*The following substitutions for required courses are permitted.

ENG 101 for COM 131  
MTH 101 and MTH 102 for MTH 195 and MTH 196

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# EDUCATIONAL PERSONNEL

Richland only

(Associate Degree)

This program is designed to prepare educational personnel in a wide range of competencies needed for effective roles in public and non-public schools. A student can take courses required for the one year Educational Assistant Certificate and continue in the program to receive the two year Associate in Applied Arts and Sciences Degree.

Educational personnel are employed under job titles such as teacher aide, assistant teacher, library assistant, P.E. aide, study hall teacher, tutor, tutoring coordinator, youth worker, special education aides, etc. Individuals working with handicapped children have found this program to be especially beneficial.

	CREDIT HOURS
<b>SEMESTER I</b>	
EP 131 Introduction to Educational Processes I.....	3
EP 135 Arts and Crafts.....	3
SC 101 Introduction to Speech Communication.....	3
HD 105 Basic Processes of Interpersonal Relations.....	3
HST 101 History of the United States or	
+ Elective .....	3
	15
<b>SEMESTER II</b>	
EP 129 Communication Skills for Educational Paraprofessionals.....	3
EP 133 Introduction to Educational Processes II.....	3
EP 134 Introduction to Media.....	3
ENG 101 Composition I.....	3
HST 102 History of the United States or	
+ Elective .....	3
	15
<b>SEMESTER III</b>	
EP 249 The Exceptional Child.....	3
EP 804 Cooperative Work Experience.....	4
ENG 102 Composition II.....	3
GVT 201 American Government or	
+ Elective .....	3
+ + Elective .....	3
	16

## SEMESTER IV

EP 814	Cooperative Work Experience.....	4
GVT 202	American Government or	
+ Elective .....		3
MTH 101	College Algebra or	
MTH 117	Fundamental Concepts of Mathematics for Elementary Teachers ..	4
+ + + Elective .....		4-6
		14-16

Minimum Hours Required..... 60

+ Elective—must be selected from the following:

EP 245	Diversified Studies.....	1
EP 246	Diversified Studies.....	2
EP 247	Diversified Studies.....	3
HD 107	Developing Leadership Behavior.....	3
LS 101	Introduction to Library Research.....	3
PEH 257	Advanced First Aid and Emergency Care.....	3
PSY 101	Introduction to Psychology.....	3
PSY 201	Developmental Psychology.....	3
SOC 101	Introduction to Sociology.....	3
SOC 102	Social Problems.....	3
SOC 204	American Minorities.....	3
TPD 141	Beginning Sign Language.....	4
TPD 143	Intermediate Sign Language.....	4

+ + Elective—must be selected from the following:

ART 104	Art Appreciation.....	3
HUM 101	Introduction to the Humanities.....	3
MUS 104	Music Appreciation.....	3
PHI 102	Introduction to Philosophy.....	3
THE 101	Introduction to the Theatre.....	3

+ + + Elective—must be selected from the following:

AST 101	Descriptive Astronomy.....	3
AST 102	General Astronomy.....	3
BIO 115	Biological Science.....	4
BIO 116	Biological Science.....	4
CHM 115	Chemical Sciences.....	4
CHM 116	Chemical Sciences.....	4
OFC 172	Beginning Typing.....	3
OFC 173	Intermediate Typing.....	3

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.



## EDUCATIONAL PERSONNEL — BILINGUAL/ESL OPTION

*Richland only*

(Associate Degree)

The Bilingual/ESL Option in the Educational Personnel Program is designed to prepare the student to assist in the instructional development of children who have a limited English proficiency.

The Associate in Applied Arts and Sciences Degree is awarded for successful completion of at least 63 credit hours as outlined.

CREDIT  
HOURS

### SEMESTER I

EP 131	Introduction to Educational Processes I.....	3
EP 134	Introduction to Media.....	3
ENG 101	Composition I.....	3
HST 101	History of the United States.....	3
SPA 101	Beginning Spanish.....	4
		16

### SEMESTER II

EP 140	Topics in Child Language Development.....	3
ENG 102	Composition II.....	3
HST 102	History of the United States.....	3
MTH 117	Fundamental Concepts of Mathematics for Elementary Teachers or	
	College Algebra.....	3
SPA 102	Beginning Spanish.....	4
		16

### SEMESTER III

EP 143	Bilingual Education: Philosophy, Techniques, Materials.....	3
EP 247	Diversified Studies.....	3
PSY 101	Introduction to Psychology.....	3
SC 101	Introduction to Speech Communication.....	3
+ Elective		3-4
		15-16

### SEMESTER IV

EP 241	Techniques for Teaching English to Non-Native Speakers.....	3
EP 249	Exceptional Child.....	3
EP 804	Cooperative Work Experience.....	4
GVT 201	American Government.....	3
+ + Elective		3-4
		16-17

Minimum Hours Required..... 63

+ Elective—must be selected from the following:

ART 104	Art Appreciation.....	3
HUM 101	Introduction to the Humanities.....	3
LS 101	Introduction to Library Research.....	3
MUS 104	Music Appreciation.....	3

## EDUCATIONAL PERSONNEL — EDUCATIONAL ASSISTANT

*Richland only*

(Certificate)

CREDIT  
HOURS

### SEMESTER I

EP 131	Introduction to Educational Processes I.....	3
EP 135	Arts and Crafts.....	3
+ Technical Electives		9
		15

### SEMESTER II

EP 129	Communication Skills for Educational Paraprofessionals.....	3
EP 134	Introduction to Media.....	3
EP 249	The Exceptional Child.....	3
+ Technical Electives		6
		15

Minimum Hours Required..... 30

+ Technical Electives — must be selected from the following:

COM 131	Applied Communications.....	3
EP 133	Introduction to Educational Processes II.....	3
EP 245	Diversified Studies.....	1
EP 246	Diversified Studies.....	2
EP 247	Diversified Studies.....	3
EP 804	Cooperative Work Experience.....	4
EP 814	Cooperative Work Experience.....	4
ENG 101	Composition I.....	3
ENG 102	Composition II.....	3
ENG (200 level)		
HD 104	Educational and Career Planning.....	3
HD 105	Basic Processes of Interpersonal Relationships.....	3
HD 107	Developing Leadership Behavior.....	3
LS 101	Introduction to Library Research.....	3
MTH 117	Fundamental Concepts of Mathematics for Elementary Teachers or Mathematics Elective.....	3
OFC 172	Beginning Typing.....	3
OFC 173	Intermediate Typing.....	3
PEH 101	Fundamentals of Health.....	3
PEH 144	Introduction to Physical Education.....	3
PEH 257	Advanced First Aid and Emergency Care.....	3
PSY 101	Introduction to Psychology.....	3
PSY 201	Developmental Psychology.....	3
SOC 101	Introduction to Sociology.....	3
SOC 102	Social Problems.....	3
SOC 203	Marriage and Family.....	3
SOC 204	American Minorities.....	3
SC 105	Fundamentals of Public Speaking.....	3
TPD 141	Beginning Sign Language.....	4
TPD 143	Intermediate Sign Language.....	4

Art or music as appropriate and approved by EP instructor. Other courses occupationally appropriate and approved by the EP instructor.

+ + Elective—must be selected from the following:

BUS 105	Introduction to Business.....	3
BIO 101	General Biology or	
BIO 115	Biological Science.....	4
OFC 172	Beginning Typing.....	3
PSC 118	Physical Science.....	4

# ENGINEERING TECHNOLOGY – ELECTRONIC CONTROLS OPTION

Brookhaven and Richland only

(Associate Degree)

The Electronic Controls option prepares the student for technician level employment in electronics and related industries. The emphasis in this option is on electronic control systems, particularly those that exist in an automated manufacturing environment. The student studies electronic devices and their application in digital and analog control circuits, basic microprocessors and microprocessor interfacing, basic robotics, and digital machine control systems.

	CREDIT HOURS
<b>SEMESTER I</b>	
QCT 121 Introduction to Quality Control . . . .	2
EGT 141 Basic Hydraulics and Fluid Mechanics . . . . .	4
DFT 182 Technician Drafting or DFT 183 Basic Drafting . . . . .	(4)
EGR 186 Manufacturing Processes . . . . .	2
ET 190 DC Circuits and Electrical Measurements* . . . . .	4
MTH 195 Technical Mathematics I* . . . . .	3
	17-19
<b>SEMESTER II</b>	
EGT 144 Instrumentation and Testing . . . . .	4
ET 191 AC Circuits* . . . . .	4
ET 193 Active Devices . . . . .	4
COM 131 Applied Communications* . . . . .	3
MTH 196 Technical Mathematics II* . . . . .	3
	18
<b>SEMESTER III</b>	
EGT 143 Technical Programming . . . . .	4
EGT 239 Principles of Microprocessor Control** . . . . .	4
EGT 242 Digital Control Circuits . . . . .	4
PHY 131 Technical Physics . . . . .	4
SC 101 Introduction to Speech Communication . . . . .	3
	19
<b>SEMESTER IV</b>	
EGT 228 Amplifiers and Control Circuits** . . . . .	4
EGT 268 Microprocessor Interfacing and Troubleshooting or EGT 230 Digital Machine Control . . . . .	4
PHY 132 Technical Physics* . . . . .	4
MTH 297 Technical Mathematics III . . . . .	3
+Elective . . . . .	3
	18
Minimum Hours Required: . . . . .	72

+Electives – must be selected from the following:

ART 104	Art Appreciation . . . . .	3
HUM 101	Introduction to the Humanities . . . . .	3
MUS 104	Music Appreciation . . . . .	3
PHI 102	Introduction to Philosophy . . . . .	3
THE 101	Introduction to the Theatre . . . . .	3
ANY COURSE IN ANT, GVT, HST, HD, PSY, SOC, Foreign Language, or Literature		

\*\*The following substitutions for required courses are permitted:

ET 135	for ET 190 and ET 191
ENG 101	for COM 131
MTH 101, MTH 102 and MTH 124	for MTH 195, MTH 196, and MTH 297
PHY 201 and PHY 202	for PHY 131 and PHY 132

\*\*Cooperative Work Experience may be substituted.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

## ENGINEERING TECHNOLOGY – ELECTRONIC CONTROLS CERTIFICATE

Brookhaven and Richland only

(Certificate)

This one-year program develops the basic skills necessary for entry level positions in electronics related industries. All courses required for the certificate are applicable to the Engineering Technology degree, Electronic Controls option.

	CREDIT HOURS
<b>SEMESTER I</b>	
ET 190 DC Circuits and Electrical Measurements* . . . . .	4
MTH 195 Technical Mathematics I* . . . . .	3
EGT 143 Technical Programming . . . . .	4
DFT 182 Technician Drafting or DFT 183 Basic Drafting . . . . .	(4)
EGR 186 Manufacturing Processes . . . . .	2
	15-17
<b>SEMESTER II</b>	
ET 191 AC Circuits* . . . . .	4
ET 193 Active Devices . . . . .	4
EGT 242 Digital Control Circuits . . . . .	4
EGT 144 Instrumentation and Testing . . . . .	4
MTH 196 Technical Mathematics II* . . . . .	3
	19
Minimum Hours Required: . . . . .	34

\*The following substitutions for required courses are permitted:

MTH 101 and MTH 102	for MTH 195 and MTH 196
ET 135	for ET 190 and ET 191

# ENGINEERING TECHNOLOGY— ELECTRONIC QUALITY CONTROL OPTION

Richland only

(Associate Degree)

The Electronic Quality Control Program prepares the graduate to enter the high opportunity area of electronic product quality control.

The objectives of quality control include providing a customer with the highest quality product at the lowest cost and preventing defective products from ever reaching a customer. Specialized quality control courses provide training in applied statistics, metrology, physical and environmental testing, non-destructive testing, as well as an introduction to quality control techniques such as control charts, sampling plans, reliability analysis, cost control and product liability.

The program also includes a strong emphasis in electronics and provides a broad technology background in drafting, manufacturing processes, hydraulics, and technical programming.

		CREDIT HOURS
<b>SEMESTER I</b>		
QCT 121	Introduction to Quality Control . . . .	2
EGT 141	Basic Hydraulics and Fluid Mechanics . . . . .	4
DFT 182	Technician Drafting or	2
DFT 183	Basic Drafting . . . . .	(4)
EGR 186	Manufacturing Processes . . . . .	2
ET 190	DC Circuits and Electrical Measurements . . . . .	4
MTH 195	Technical Mathematics I* . . . . .	3
		<u>17-19</u>
<b>SEMESTER II</b>		
QCT 122	Dimensional Measurement . . . . .	3
EGT 144	Instrumentation and Testing . . . . .	4
ET 191	AC Circuits . . . . .	4
COM 131	Applied Communications* . . . . .	3
MTH 196	Technical Mathematics II* . . . . .	3
		<u>17</u>
<b>SEMESTER III</b>		
EGT 143	Technical Programming . . . . .	4
ET 193	Active Devices . . . . .	4
QCT 220	Physical and Environmental Testing . . . . .	3
PHY 131	Applied Physics* . . . . .	4
SC 101	Introduction to Speech Communication . . . . .	3
		<u>18</u>

<b>SEMESTER IV</b>		
QCT 227	Non-Destructive Evaluation** . . . .	3
QCT 236	Advanced Quality Control Systems . . . . .	4
MTH 297	Technical Mathematics III* . . . . .	3
PHY 132	Technical Physics* or	
CHM 115	Chemical Sciences . . . . .	4
+ Elective . . . . .		<u>3</u>
		<u>18</u>

Minimum Hours Required: . . . . . 69

+ Electives—must be selected from the following:

ART 104	Art Appreciation . . . . .	3
HUM 101	Introduction to the Humanities . . . . .	3
MUS 104	Music Appreciation . . . . .	3
PHI 102	Introduction to Philosophy . . . . .	3
THE 101	Introduction to the Theatre . . . . .	3
ANY COURSE IN ANT, GVT, HST, HD, PSY, SOC, Foreign Language, or Literature		

\*The following substitutions for required courses are permitted:

ENG 101 for COM 131  
MTH 101, MTH 102 and MTH 124 for MTH 195, MTH 196, and MTH 297  
PHY 201 and PHY 202 for PHY 131 and PHY 132

\*\*Cooperative Work Experience may be substituted.

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# ENGINEERING TECHNOLOGY – ELECTRO-MECHANICAL OPTION

*Richland only*

(Associate Degree)

The Electro-Mechanical option prepares the student for technician level employment with a broad based curriculum involving electronics, mechanics and fluid power devices and systems. Job opportunities exist, in all types of manufacturing, repair and maintenance, and research and development.

		CREDIT HOURS
<b>SEMESTER I</b>		
QCT 121	Introduction to Quality Control	2
EGT 141	Basic Hydraulics and Fluid Mechanics	4
DFT 182	Technician Drafting or	2
DFT 183	Basic Drafting	(4)
EGR 186	Manufacturing Processes	2
ET 190	DC Circuits and Electrical Measurements	4
MTH 195	Technical Mathematics I*	3
		17-19
<b>SEMESTER II</b>		
EGT 143	Technical Programming	4
ET 191	AC Circuits	4
ET 193	Active Devices	4
COM 131	Applied Communications*	3
MTH 196	Technical Mathematics II*	3
		18
<b>SEMESTER III</b>		
EGT 230	Digital Machine Control	4
PHY 131	Technical Physics	4
SC 101	Introduction to Speech Communication	3
+ Elective		3
+ + Elective or Cooperative Work Experience		1-4
		15-18
<b>SEMESTER IV</b>		
EGT 243	Robotics I	3
MTH 297	Technical Mathematics III*	3
PHY 132	Technical Physics*	4
+ + Electives		7
		17
Minimum Hours Required:		67

+ Electives – must be selected from the following:

ART 104	Art Appreciation	3
HUM 101	Introduction to Humanities	3
MUS 104	Music Appreciation	3
PHI 102	Introduction to Philosophy	3
THE 101	Introduction to the Theatre	3
ANY COURSE IN ANT, GVT, HIST, HD, PSY, SOC, Foreign Language, or Literature		

# ENGINEERING TECHNOLOGY – ELECTRO-MECHANICAL CERTIFICATE

*Brookhaven and Richland only*

(Certificate)

This one-year program develops the basic skills necessary for entry level positions in electronics and mechanical technician positions. All courses required for the certificate are applicable to the Electro-Mechanical option.

		CREDIT HOURS
<b>SEMESTER I</b>		
ET 190	DC Circuits and Electrical Measurements	4
EGR 186	Manufacturing Processes	2
EGT 141	Basic Hydraulics and Fluid Mechanics	4
MTH 195	Technical Mathematics I*	3
DFT 182	Technician Drafting or	2
DFT 183	Basic Drafting	(4)
		15-18
<b>SEMESTER II</b>		
EGT 143	Technical Programming	4
ET 191	AC Circuits*	4
EGT 144	Instrumentation and Testing or	4
ET 194	Instrumentation	(3)
ET 193	Active Devices	4
EGT 230	Digital Machine Control	4
MTH 196	Technical Mathematics II*	3
		22-23

Minimum Hours Required: 37

\*The following substitutions for required courses are permitted:

ET 135 for ET 190 and ET 191  
MTH 101 and MTH 102 for MTH 195 and MTH 196

+ + Elective – must be selected from the following:

EGR 187	Manufacturing Processes	2
EGT 144	Instrumentation and Testing	4
EGT 222	Fundamentals of Pneumatics	3
EGT 228	Amplifier and Analog Control Circuits or	
ET 238	Linear Integrated Circuits	4
EGT 232	Applied Mechanics	4
EGT 239	Principles of Microcomputer Control	
ET 237	or Modular Memories and Microprocessors	4
EGT 242	Digital Control Circuits	4
EGT 247	Robotics II	3
EGT 268	Microprocessor Interfacing and Troubleshooting	4
EGT 804	Cooperative Work Experience	4
MT 248	Computer-Aided Drafting	4
QCT 122	Dimensional Measurement	3

\*The following substitutions for required courses are permitted:

ET 135 for ET 190 and ET 191  
ENG 101 for COM 131  
MTH 101, MTH 102, and MTH 124 for MTH 195, MTH 196, and MTH 297  
PHY 201 and PHY 202 for PHY 131 and PHY 132

# ENGINEERING TECHNOLOGY— MANUFACTURING ENGINEERING

Richland only

(Associate Degree)

The Manufacturing Engineering Technology Option prepares the student for technician level employment in an industrial manufacturing engineering environment. Training includes processes, tools, materials, drafting, production control, quality control, safety and management.

	CREDIT HOURS
<b>SEMESTER I</b>	
QCT 121 Introduction to Quality Control . . . .	2
EGT 141 Basic Hydraulics and Fluid Mechanics . . . . .	4
DFT 183 Basic Drafting . . . . .	4
EGR 186 Manufacturing Processes . . . . .	2
ET 190 DC Circuits and Electrical Measurements . . . . .	4
MTH 195 Technical Mathematics I* . . . . .	3
	19.
<b>SEMESTER II</b>	
EGT 143 Technical Programming or CIS 103 Introduction to Computer Information Systems . . . . .	(3)
EGR 187 Manufacturing Processes . . . . .	2
ET 191 AC Circuits . . . . .	4
COM 131 Applied Communications* . . . . .	3
MTH 196 Technical Mathematics II* . . . . .	3
	15-16
<b>SEMESTER III</b>	
EGT 124 Industrial Organizations . . . . .	2
MET 234 Production and Inventory Control** . . . . .	3
MET 235 Industrial Safety** . . . . .	3
PHY 131 Applied Physics . . . . .	4
SC 101 Introduction to Speech Communication . . . . .	3
+ Elective . . . . .	3
	18
<b>SEMESTER IV</b>	
QCT 122 Dimensional Measurement . . . . .	3
MET 231 Engineering Materials . . . . .	3
MGT 136 Principles of Management or MGT 171 Introduction to Supervision . . . . .	3
MTH 297 Technical Mathematics III* . . . . .	3
PHY 132 Technical Physics* . . . . .	4
	16
Minimum Hours Required: . . . . .	68

# ENGINEERING TECHNOLOGY— MANUFACTURING ENGINEERING CERTIFICATE

Brookhaven and Richland only

(Certificate)

The Manufacturing Engineering Technology certificate provides the student with basic skills needed in an industrial manufacturing environment. All courses required for the one-year certificate are applicable to the Engineering Technology Associate Degree, Manufacturing Engineering Technology option.

	CREDIT HOURS
<b>SEMESTER IV</b>	
DFT 183 Basic Drafting . . . . .	4
MTH 195 Technical Mathematics I* . . . . .	3
EGR 186- Manufacturing Processes . . . . .	2
ET 190 DC Circuits and Electrical Measurements . . . . .	4
COM 131 Applied Communications . . . . .	3
	16
<b>SEMESTER II</b>	
EGT 124 Industrial Organizations . . . . .	2
EGR 187 Manufacturing Processes . . . . .	2
MET 235 Industrial Safety . . . . .	3
MET 234 Production and Inventory Control . . . . .	3
MET 238 Principles of Work Measurement . . . . .	3
QCT 121 Introduction to Quality Control . . . . .	2
	15
Minimum Hours Required: . . . . .	31

\*The following substitutions for required courses are permitted;

MTH 101 for MTH 195  
ENG 101 for COM 131

+ Electives—must be selected from the following:

ART 104 Art Appreciation . . . . .	3
HUM 101 Introduction to Humanities . . . . .	3
MUS 104 Music Appreciation . . . . .	3
PHI 102 Introduction to Philosophy . . . . .	3
THE 101 Introduction to Theatre . . . . .	3
ANY COURSE IN ANT, GVT, HST, HD, PSY, SOC, Foreign Language, or Literature	

\*The following substitutions for required courses are permitted:

ENG 101 for COM 131  
MTH 101, MTH 102, and MTH 124 for MTH 195, MTH 196, and MTH 297  
PHY 201 and PHY 202 for PHY 131 and PHY 132

\*\*Cooperative Work Experience may be substituted for one asterisked second-year course.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# ENGINEERING TECHNOLOGY – MECHANICAL QUALITY CONTROL OPTION

Richland only

(Associate Degree)

The Mechanical Quality Control Program prepares the graduate to enter the high opportunity area of mechanical product quality control.

The objectives of quality control include providing a customer with the highest quality product at the lowest cost and preventing defective products from ever reaching a customer. Specialized quality control courses provide training in applied statistics, metrology, physical and environmental testing, non-destructive testing, as well as an introduction to quality control techniques such as control and product liability.

The program also includes a broad technology background in DC circuits, hydraulics, pneumatics, drafting, manufacturing processes, CAD/CAM and technical programming.

	CREDIT HOURS
<b>SEMESTER I</b>	
QCT 121 Introduction to Quality Control . . . .	2
EGT 141 Basic Hydraulics and Fluid Mechanics . . . . .	4
DFT 183 Basic Drafting . . . . .	4
EGR 186 Manufacturing Processes . . . . .	2
ET 190 DC Circuits and Electrical Measurements . . . . .	4
MTH 195 Technical Mathematics I* . . . . .	3
	19
<b>SEMESTER II</b>	
QCT 122 Dimensional Measurement . . . . .	3
EGR 187 Manufacturing Processes . . . . .	2
EGT 222 Fundamentals of Pneumatics . . . .	3
COM 131 Applied Communications* . . . . .	3
MTH 196 Technical Mathematics II* . . . . .	3
	14
<b>SEMESTER III</b>	
EGT 143 Technical Programming . . . . .	4
QCT 220 Physical/Environmental Testing . .	3
EGT 232 Applied Mechanics** . . . . .	4
PHY 131 Applied Physics* . . . . .	4
SC 101 Introduction to Speech Communication* . . . . .	3
	18
<b>SEMESTER IV</b>	
QCT 227 Non-Destructive Testing** . . . .	3
QCT 236 Advanced Quality Control . . . . .	4
MTH 297 Technical Mathematics III* . . . .	3
PHY 132 Technical Physics* or CHM 115 Chemical Science . . . . .	4
+Elective . . . . .	3
	17
Minimum Hours Required: . . . . .	68

# ENGINEERING TECHNOLOGY – QUALITY CONTROL CERTIFICATE

Richland only

(Certificate)

This one-year program develops the basic skills necessary for advancement in a purchased materials, machine shop or assembly inspection department. All of the courses required for the certificate are applicable to the Engineering Technology Associate Degree, either the Electronic Quality Control option or the Mechanical Quality Control option.

	CREDIT HOURS
<b>SEMESTER I</b>	
QCT 121 Introduction to Quality Control . . . .	2
QCT 122 Dimensional Measurement . . . . .	3
ET 190 DC Circuits and Electrical Measurements . . . . .	4
MTH 195 Technical Mathematics I* . . . . .	3
DFT 183 Basic Drafting . . . . .	4
EGR 186 Manufacturing Processes . . . . .	2
	18
<b>SEMESTER II</b>	
QCT 220 Physical/Environmental Testing . .	3
QCT 227 Non-Destructive Evaluation . . . .	3
EGT 143 Technical Programming or ET 240 Electronics Theory and Application of Digital Computers . . . . .	4
MTH 196 Technical Mathematics II* . . . . .	3
COM 131 Applied Communications* . . . . .	3
	17
Minimum Hours Required: . . . . .	35

\*The following substitutions for required courses are permitted:

MTH 101 and MTH 102 for MTH 195 and MTH 196  
ENG 101 for COM 131

+ Elective – must be selected from the following:

ART 104	Art Appreciation . . . . .	3
HUM 101	Introduction to the Humanities . . . . .	3
MUS 104	Music Appreciation . . . . .	3
PHI 102	Introduction to Philosophy . . . . .	3
THE 101	Introduction to the Theatre . . . . .	3
ANY COURSE IN ANT, GVT, HST, HD, PSY, SOC, Foreign Language, or Literature		

\*The following substitutions for required courses are permitted:

ENG 101 for COM 131  
MTH 101, MTH 102, and MTH 124 for MTH 195, MTH 196, and MTH 297  
PHY 201 and PHY 202 for PHY 131 and PHY 132

\*\*Cooperative Work Experience may be substituted

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# ENGINEERING TECHNOLOGY – MECHANICAL TECHNOLOGY OPTION

Richland only

(Associate Degree)

The purpose of the Mechanical Technology Option is to prepare the student for employment in the field of Mechanical Design. Both theory and application are provided by courses in mechanisms, fluid power, manufacturing processes, and mechanical design courses. Technical programming and computer graphics provide the latest in state-of-the-art training in the mechanical design field. Emphasis is on the design of machines, the component parts, gages, jigs, fixtures, and special tooling.

	CREDIT HOURS
<b>SEMESTER I</b>	
QCT 121 Introduction to Quality Control .....	2
EGT 141 Basic Hydraulics and Fluid Mechanics .....	4
DFT 183 Basic Drafting .....	4
EGR 186 Manufacturing Processes .....	2
ET 190 DC Circuits and Electrical Measurements .....	4
MTH 195 Technical Mathematics I* .....	3
	19
<b>SEMESTER II</b>	
MT 198 Mechanical Design Technology ..	4
MT 248 Computer-Aided Drafting .....	4
COM 131 Applied Communications* .....	3
MTH 196 Technical Mathematics II* .....	3
SC 101 Introduction to Speech Communication .....	3
	17
<b>SEMESTER III</b>	
EGT 232 Applied Mechanics .....	4
MT 249 Applications In Computer-Aided Drafting .....	4
EGR 106 Descriptive Geometry .....	3
MTH 297 Technical Mathematics III* .....	3
PHY 131 Applied Physics** .....	4
	18
<b>SEMESTER IV</b>	
EGR 187 Manufacturing Processes .....	2
MT 251 Machine Design .....	4
PHY 132 Technical Physics* .....	4
++ Elective .....	3
+ Elective or Cooperative Work	
Experience .....	2-4
	15-17
Minimum Hours Required: .....	69

# ENGINEERING TECHNOLOGY – MECHANICAL TECHNOLOGY CERTIFICATE

Richland only

(Certificate)

The Mechanical Technology certificate provides the student with the basic skills development in the area of mechanical design. All courses required for the one-year certificate are applicable to the Engineering Technology Degree, Mechanical Technology option.

	CREDIT HOURS
<b>SEMESTER I</b>	
DFT 183 Basic Drafting .....	4
MTH 195 Technical Mathematics I* .....	3
EGR 186 Manufacturing Processes .....	2
EGT 141 Basic Hydraulics and Fluid Mechanics .....	4
COM 131 Applied Communications* .....	3
	16
<b>SEMESTER II</b>	
MT 198 Mechanical Design Technology ..	4
EGR 106 Descriptive Geometry .....	3
MT 248 Computer Aided Drafting .....	4
MTH 196 Technical Mathematics II* .....	3
QCT 121 Introduction to Quality Control .....	2
	16
Minimum Hours Required: .....	32

\*The following substitutions for required courses are permitted:

MTH 101 and MTH 102 for MTH 195 and MTH 116  
ENG 101 for COM 131

+ Elective may be selected from any 2 to 3 credit hour Engineering Technology course.

++ Electives – must be selected from the following:

ART 104 Art Appreciation .....	3
HUM 101 Introduction to the Humanities .....	3
MUS 104 Music Appreciation .....	3
PHI 102 Introduction to Philosophy .....	3
THE 101 Introduction to the Theatre .....	3
ANY COURSE IN ANT, GVT, HST, HD, PSY, SOC, Foreign Language, or Literature	

\*The following substitutions for required courses are permitted:

ENG 101 for COM 131  
MTH 101, MTH 102, and MTH 124 for MTH 195, MTH 196, and MTH 297  
PHY 201 and PHY 202 for PHY 131 and PHY 132

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.



# ENGINEERING TECHNOLOGY-- ROBOTICS AND FLUID POWER OPTION

*Brookhaven and Richland only*

(Associate Degree)

The Robotics and Fluid Power option prepares the student for technician level employment in industrial robotics and/or industrial hydraulics and pneumatics. The student also receives training in electronics, microcomputers, quality control, drafting and computer aided design, and manufacturing processes.

	CREDIT HOURS
<b>SEMESTER I</b>	
OCT 121 Introduction to Quality Control . . . .	2
EGT 141 Basic Hydraulics and Fluid Mechanics . . . . .	4
DFT 182 Technician Drafting or DFT 183 Basic Drafting . . . . .	(4)
EGR 186 Manufacturing Processes . . . . .	2
ET 190 DC Circuits and Electrical Measurements . . . . .	4
MTH 195 Technical Mathematics I * . . . .	3
	17-19

<b>SEMESTER II</b>	
ET 191 AC Circuits . . . . .	4
EGT 222 Fundamentals of Pneumatics . . . .	3
EGT 243 Robotics I . . . . .	3
COM 131 Applied Communications* . . . . .	3
MTH 196 Technical Mathematics II* . . . .	3
	16

<b>SEMESTER III</b>	
EGT 143 Technical Programming . . . . .	4
ET 193 Active Devices . . . . .	4
EGT 247 Robotics II . . . . .	3
PHY 131 Applied Physics* . . . . .	4
SC 101 Introduction to Speech Communication . . . . .	3
	18

<b>SEMESTER IV</b>	
EGT 230 Digital Machine Control . . . . .	3
MTH 297 Technical Mathematics III* . . . .	3
PHY 132 Technical Physics* . . . . .	4
+ Elective . . . . .	3
++ Electives . . . . .	6
	19

Minimum Hours Required: . . . . . 70

+ Electives--must be selected from the following:

ART 104 Art Appreciation . . . . .	3
HUM 101 Introduction to Humanities . . . . .	3
MUS 104 Music Appreciation . . . . .	3
PHI 102 Introduction to Philosophy . . . . .	3
THE 101 Introduction to the Theatre . . . . .	3
ANY COURSE IN ANT, GVT, HST, HD, PSY, SOC, Foreign Language, or Literature . . . . .	3

+ + Electives--must be selected from the following:

OCT 122 Dimensional Measurement . . . . .	3
EGT 144 Instrumentation and Testing . . . . .	4
EGR 187 Manufacturing Processes . . . . .	2
EGT 225 Advanced Fluid Power Systems . . . . .	4
EGT 232 Applied Mechanics . . . . .	4
EGT 239 Principles of Microcomputer Controls . . . . .	4
EGT 242 Digital Control Circuits . . . . .	4
EGT 251 Advanced Robotics and Automated Systems . . . . .	3
MT 248 Computer-Aided Drafting . . . . .	4
EGT 268 Microprocessor Interfacing and Troubleshooting . . . . .	4
EGT 804 Cooperative Work Experience . . . . .	4

\*The following substitutions for required courses are permitted:

ENG 101 for COM 131  
MTH 101, MTH 102, and MTH 124 for MTH 195, MTH 196, and MTH 297  
PHY 201 and PHY 202 for PHY 131 and PHY 132

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

## ENGINEERING TECHNOLOGY-- ROBOTICS AND FLUID POWER CERTIFICATE

*Brookhaven, Mountain View, and Richland only*

(Certificate)

This one-year program provides the student with the basic skills needed in the industrial robotics and/or industrial hydraulics and pneumatics industry. All of the courses for the one-year certificate are applicable to the Engineering Technology Associate Degree, Robotics and Fluid Power option.

	CREDIT HOURS
<b>SEMESTER I</b>	
ET 190 DC Circuits and Electrical Measurements . . . . .	4
EGR 186 Manufacturing Processes . . . . .	2
EGT 141 Basic Hydraulics and Fluid Mechanics . . . . .	4
EGT 243 Robotics I . . . . .	3
MTH 195 Technical Mathematics I* . . . .	3
	16

<b>SEMESTER II</b>	
DFT 182 Technician Drafting . . . . .	2
EGT 222 Fundamentals of Pneumatics . . . .	3
EGT 225 Advanced Fluid Power Systems . .	4
EGT 247 Robotics II . . . . .	3
MTH 196 Technical Mathematics II* . . . .	3
Technical Elective . . . . .	2-4
	17-19

Minimum Hours Required: . . . . . 33

Technical Electives--must be selected from the following:

EGR 187 Manufacturing Processes . . . . .	2
EGT 144 Instrumentation and Testing . . . . .	4
EGT 143 Technical Programming . . . . .	4
EGT 251 Advanced Robotics and Automated Systems . . . . .	3

\*MTH 101 and MTH 102 may be substituted for MTH 195 and MTH 196.

# FINANCIAL MANAGEMENT

*Richland only*

(Associate Degree)

The Financial Management Program is designed to prepare students to enter the finance industry. Students completing the program will be prepared to assume positions in commercial banks, savings and loan associations, credit unions, and other financial organizations.

	CREDIT HOURS
<b>SEMESTER I</b>	
FM 105 Comparative Financial Institutions..	3
ENG 101 Composition I.....	3
ECO 201 Principles of Economics I.....	3
MGT 136 Principles of Management.....	3
MTH 130 Business Mathematics or	
MTH 111 Mathematics for Business and	
Economics.....	3
	<u>15</u>
<b>SEMESTER II</b>	
ECO 202 Principles of Economics II.....	3
FM 115 Credit & Collection Principles.....	3
CIS 103 Introduction to Computer	
Information Systems.....	3
OFC 231 Business Communications.....	3
SC 101 Speech Communication.....	3
Elective .....	3
	<u>18</u>
<b>SEMESTER III</b>	
ACC 201 Principles of Accounting I.....	3
FM 104 Money and Financial Institutions... 3	
FM 205 Analyzing Financial Statements*... 3	
GVT 201 American Government.....	3
Financial Management Elective.....	3
*Humanities Elective .....	3
	<u>18</u>
<b>SEMESTER IV</b>	
FM 203 Public Relations and Marketing of	
Financial Services.....	3
FM 206 Negotiable Instruments and the	
Payments Mechanism* or.....	3
FM 201 Advanced Credit Analysis .....	
ACC 202 Principles of Accounting II.....	3
BUS 237 Organizational Behavior.....	3
Financial Management Elective or	
Cooperative Work Experience.....	3
	<u>15</u>
Minimum Hours Required.....	66

\*A Humanities elective may be selected from the following:

ART 104	Art Appreciation .....	3
HUM 101	Introduction to the Humanities .....	3
MUS 104	MUS Appreciation .....	3
PHI 102	Introduction to Philosophy .....	3
THE 101	Introduction to the Theatre .....	3

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# MANAGEMENT CAREERS— ADMINISTRATIVE MANAGEMENT OPTION

*Offered at all seven campuses*

(Associate Degree)

The Administrative Management Option is designed for students seeking a broad program of study in all phases of business practices. This option focuses not only at the core of management (principles of management, organizational behavior, personnel administration) but also encompasses the critical areas of business operations (principles of marketing, accounting, business law).

	CREDIT HOURS
<b>SEMESTER I</b>	
MGT 136 Principles of Management.....	3
BUS 105 Introduction to Business.....	3
ENG 101 Composition I.....	3
MTH 111 Mathematics for Business and Economics I or	
MTH 130 Business Mathematics.....	3
+ Elective .....	3
	15
<b>SEMESTER II</b>	
MKT 206 Principles of Marketing.....	3
ACC 201 Principles of Accounting I.....	3
ENG 102 Composition II.....	3
CIS 103 Introduction to Computer Information Systems.....	3
+ + Elective .....	3
	15
<b>SEMESTER III</b>	
ACC 202 Principles of Accounting II.....	3
BUS 234 Business Law.....	3
ECO 201 Principles of Economics I.....	3
PSY 131 Applied Psychology and Human Relations.....	3
SC 101 Introduction to Speech Communication.....	3
	15
<b>SEMESTER IV</b>	
MGT 242 Personnel Administration.....	3
BUS 237 Organizational Behavior.....	3
ECO 202 Principles of Economics II.....	3
OFC 231 Business Communications.....	3
+ + Elective .....	3
+ + + Elective .....	3
	18
Minimum Hours Required:.....	63

+ Elective—must be selected from the following:

ART 104	Art Appreciation.....	3
HUM 101	Introduction to the Humanities.....	3
ENG 201	British Literature.....	3
ENG 202	British Literature.....	3
ENG 203	World Literature.....	3
ENG 204	World Literature.....	3
ENG 205	American Literature.....	3
ENG 206	American Literature.....	3
MUS 104	Music Appreciation.....	3
PHI 102	Introduction to Philosophy.....	3
THE 101	Introduction to the Theatre.....	3
	Foreign Language.....	

+ + Electives— may be selected from the following:

MGT 153	Small Business Management.....	3
MGT 171	Introduction to Supervision.....	3
MGT 212	Special Problems in Business.....	1
MGT 703	Cooperative Work Experience.....	3
MGT 704	Cooperative Work Experience.....	4
MKT 137	Principles of Retailing.....	3
MKT 230	Salesmanship.....	3
MKT 233	Advertising and Sales Promotion.....	3
OFC 160	Office Calculating Machines.....	3
OFC 172	Beginning Typing.....	3

+ + + Elective—must be selected from the following:

GVT 201	American Government.....	3
GVT 202	American Government.....	3
HST 101	History of the United States.....	3
HST 102	History of the United States.....	3
SOC 101	Introduction to Sociology.....	3
SOC 102	Social Problems.....	3
HD 105	Basic Process of Interpersonal Relationship.....	3
HD 106	Personal and Social Growth.....	3
ANT 100	Introduction to Anthropology.....	3
PSY 103	Human Sexuality.....	3
PSY 101	Introduction to Psychology.....	3

\*Students may substitute ACC 131 and ACC 132 for ACC 201. Only three hours may be applied to the required number of hours for granting the degree.

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# MANAGEMENT CAREERS— SMALL BUSINESS MANAGEMENT OPTION

*Cedar Valley, Mountain View, and Richland only*

(Associate Degree)

The Small Business Management Option is designed for students who plan to become owners or managers of a small business. The practical aspects of planning, locating, resources, financing, starting, and operating a business are emphasized. Owners and managers of small businesses may also benefit from the program.

## CREDIT HOURS

### SEMESTER I

MGT 136	Principles of Management.....	3
MGT 153	Small Business Management.....	3
COM 131	Applied Communications or	
ENG 101	Composition I.....	3
SC 101	Speech Communications.....	3
+ Elective	.....	3
		15

### SEMESTER II

MGT 157	Small Business Bookkeeping and	
	Accounting*.....	3
ENG 102	Composition II.....	3
CIS 103	Introduction to Computer	
	Information Systems.....	3
MTH 111	Mathematics for Business	
	and Economics I or	
MTH 130	Business Mathematics.....	3
BUS 105	Introduction to Business.....	3
		15

### SEMESTER III

MKT 206	Principles of Marketing.....	3
MGT 211	Small Business Operations.....	3
ECO 201	Principles of Economics I.....	3
PSY 131	Applied Psychology and	
	Human Relations.....	3
+ + Elective	.....	3
		15

### SEMESTER IV

MGT 210	Small Business Capitalization,	
	Acquisition and Finance.....	3
BUS 234	Business Law.....	3
ECO 202	Principles of Economics II.....	3
+ Elective	.....	3
+ + + Elective	.....	3
		15

Minimum Hours Required:..... 60

+ Elective—must be selected from the following:

ART 104	Art Appreciation.....	3
HUM 101	Introduction to the Humanities.....	3
MUS 104	Music Appreciation.....	3
PHI 102	Introduction to Philosophy.....	3
THE 101	Introduction to the Theatre.....	3

+ + Elective—may be selected from the following:

ACC 201	Principles of Accounting I.....	3
MGT 212	Special Problems in Business.....	1
OFC 160	Office Calculating Machines.....	3
OFC 172	Beginning Typing.....	3

+ + + Electives—must be selected from the following:

GVT 201	American Government.....	3
GVT 202	American Government.....	3
HST 101	History of the United States.....	3
HST 102	History of the United States.....	3
SOC 101	Introduction to Sociology.....	3
SOC 102	Social Problems.....	3
HD 105	Basic Process of Interpersonal Relationship.....	3
HD 106	Personal and Social Growth.....	3
ANT 100	Introduction to Anthropology.....	3
PSY 103	Human Sexuality.....	3
PSY 101	Introduction to Psychology.....	3

\*Students may substitute ACC 201 for MGT 157.

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# MANAGEMENT CAREERS— MID-MANAGEMENT OPTION

*Offered at all seven campuses*

(Associate Degree)

The Mid-Management Program provides an opportunity for students to acquire knowledge in the management field and at the same time update and sharpen personal management skills. In addition to learning about supervision, personnel management, human relations psychology, problem-solving, decision-making, and other related business topics, students also participate in an on-the-job management training course with their present employers. These management training courses at work allow students to apply what is learned in the classroom environment and obtain the valuable practical experience necessary to become competent business managers. The Mid-Management Program allows students the opportunity to bridge the gap between theory and practice as professional managers.

	CREDIT HOURS
<b>SEMESTER I</b>	
MGT 136 Principles of Management.....	3
MGT 150 Management Training.....	4
MGT 154 Management Seminar: Role of Supervision.....	2
BUS 105 Introduction to Business.....	3
ENG 101 Composition I.....	3
	<b>15</b>
<b>SEMESTER II</b>	
MGT 151 Management Training.....	4
MGT 155 Management Seminar: Personnel Management.....	2
CIS 103 Introduction to Computer Information Systems.....	3
MTH 111 Mathematics for Business and Economics I or MTH 130 Business Mathematics.....	3
ENG 102 Composition II.....	3
+ Elective.....	3
	<b>18</b>
<b>SEMESTER III</b>	
MGT 250 Management Training.....	4
MGT 254 Management Seminar: Organizational Development.....	2
ACC 201 Principles of Accounting I*.....	3
ECO 201 Principles of Economics I.....	3
PSY 131 Applied Psychology and Human Relations.....	3
SC 101 Introduction to Speech Communication.....	3
	<b>18</b>

## SEMESTER IV

MGT 251 Management Training.....	4
MGT 255 Management Seminar: Planning Strategy and the Decision Process	2
ECO 202 Principles of Economics II.....	3
++ Elective.....	3
+++ Elective.....	3
	<b>15</b>

Minimum Hours Required:..... 66

+ Elective—must be selected from the following:

ART 104 Art Appreciation.....	3
HUM 101 Introduction to the Humanities.....	3
ENG 201 British Literature.....	3
ENG 202 British Literature.....	3
ENG 203 World Literature.....	3
ENG 204 World Literature.....	3
ENG 205 American Literature.....	3
ENG 206 American Literature.....	3
MUS 104 Music Appreciation.....	3
PHI 102 Introduction to Philosophy.....	3
THE 101 Introduction to the Theatre.....	3
Foreign Language.....	

+ + Elective—may be selected from the following:

MGT 153 Small Business Management.....	3
MGT 212 Special Problems in Business.....	1
MKT 137 Principles of Retailing.....	3
MKT 230 Salesmanship.....	3
MKT 233 Advertising and Sales Promotion.....	3
OFC 160 Office Calculating Machines.....	3
OFC 172 Beginning Typing.....	3

+ + + Electives—must be selected from the following:

GVT 201 American Government.....	3
GVT 202 American Government.....	3
HST 101 History of the United States.....	3
HST 102 History of the United States.....	3
SOC 101 Introduction to Sociology.....	3
SOC 102 Social Problems.....	3
HD 105 Basic Processes of Interpersonal Relationship.....	3
HD 106 Personal and Social Growth.....	3
ANT 100 Introduction to Anthropology.....	3
PSY 100 Human Sexuality.....	3
PSY 101 Introduction to Psychology.....	3

\*Students may substitute ACC 131 and ACC 132 for ACC 201. Only three hours may be applied to the required number of hours for granting the degree.

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

## OFFICE CAREERS.

*Offered at all seven campuses*

The Office Careers freshman student is provided a core study related to working in an office environment. After completing this core, the sophomore student will begin the specialized program tracks of Administrative Assistant Legal Secretary.

CREDIT  
HOURS

### CORE CURRICULUM

(For all first year students in Office Careers)

#### SEMESTER I

ENG 101	Composition I .....	3
MTH 130	Business Mathematics .....	3
OFC 150	Automated Filing Procedures .....	3
**OFC 160	Office Calculating Machines .....	3
**OFC 172	Beginning Typing* .....	3
BUS 105	Introduction to Business .....	3
		<u>18</u>

#### SEMESTER II

ENG 102	Composition II .....	3
OFC 162	Office Procedures .....	3
OFC 173	Intermediate Typing* .....	3
ACC 131	Bookkeeping I or	
ACC 201	Principles of Accounting .....	3
CIS 103	Introduction to Computer	
	Information Systems .....	3
**OFC 179	Office Information Systems	
	Concepts .....	2
**OFC 182	Introduction to Word Processing	
	Equipment .....	1
		<u>18</u>

Minimum Hours Required ..... 36

\*Students may be placed in typing courses based on proficiency level determined by previous training, experience and/or placement tests. If a student places out, any OFC course may be taken to supplement the minimum hours required.

\*\*Note: OFC 172 Equivalent to 176, 177 and 178  
OFC 160 Equivalent to 192, 193 and 194  
OFC 190 Equivalent to 179, 182 and 185

## OFFICE CAREERS — ADMINISTRATIVE ASSISTANT OPTION

*Offered at all seven campuses*

(Associate Degree)

The primary objective of the Administrative Assistant Option to the Office Careers Program is to prepare students for positions as assistants to administrators within public or private firms and agencies. Emphasis in this program is on the development of organizational and management skills in addition to basic office skills.

CREDIT  
HOURS

#### SEMESTERS I and II

Core Curriculum ..... 36

#### SEMESTER III

OFC 231	Business Communications .....	3
SC 101	Introduction to Speech	
	Communication .....	3
PSY 131	Applied Psychology and Human	
	Relations or	
HD 105	Basic Processes of	
	Interpersonal Relationships ..	3
**OFC 185	Basic Machine Transcription .....	1
OFC 282	Word Processing Applications ..	1
*OFC 273	Advanced Typing Applications ..	2
OFC 159	Beginning Shorthand or	
OFC 103	Speedwriting .....	4
		<u>17</u>

#### SEMESTER IV

HUM 101	Introduction to the Humanities ..	3
OFC 283	Specialized Software .....	1
MGT 136	Principles of Management or	
BUS 237	Organizational Behavior .....	3
OFC 166	Intermediate Shorthand or	
OFC 106	Speedwriting Dictation and	
	Transcription .....	4
OFC 803, 804	Cooperative Work Experience ..	3-4
		<u>14-15</u>

Minimum Hours Required ..... 67

\*Students may be placed in typing courses based on proficiency level determined by previous training, experience and/or placement tests. If a student places out, any OFC course may be taken to supplement the minimum hours required.

\*\*NOTE: OFC 190 Equivalent to 179, 182 and 185

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

## OFFICE CAREERS — GENERAL OFFICE

Offered at all seven campuses

(Certificate)

The General Office Certificate Program with a clerical emphasis is designed to provide the student with a basic working knowledge of office procedures.

	CREDIT HOURS
<b>SEMESTER I</b>	
ENG 101 Composition I .....	3
MTH 130 Business Mathematics .....	3
**OFC 160 Office Calculating Machines .....	3
**OFC 172 Beginning Typing* .....	3
BUS 105 Introduction to Business .....	3
CIS 103 Introduction to Computer Information Systems .....	3
	<u>18</u>

<b>SEMESTER II</b>	
OFC 162 Office Procedures .....	3
OFC 173 Intermediate Typing* .....	3
**OFC 190 Principles of Word Processing .....	4
OFC 231 Business Communications .....	3
ACC 131 Bookkeeping I or	
ACC 201 Principles of Accounting .....	3
	<u>16</u>

Minimum Hours Required ..... 34

\*Students may be placed in typing courses based on proficiency level determined by previous training, experience and/or placement tests. If students place out, any OFC course may be taken to supplement the minimum hours required.

\*\*NOTE: OFC 172 Equivalent to 176, 177 and 178  
OFC 160 Equivalent to 192, 193 and 194  
OFC 190 Equivalent to 179, 182 and 185

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

## OFFICE CAREERS — LEGAL SECRETARY OPTION

Offered at all seven campuses

(Associate Degree)

The primary objective of this option is to prepare students to become competent legal secretaries, capable of performing office and clerical duties within public and private firms and agencies. Students enrolled in the program will have an opportunity to secure intensive training in basic skills. An Associate in Applied Arts and Sciences Degree is awarded for successful completion.

	CREDIT HOURS
<b>SEMESTERS I and II</b>	
Core Curriculum .....	36
<b>SEMESTER III</b>	
-OFC 231 Business Communications .....	3
SC 101 Introduction to Speech Communication .....	3
PSY 131 Applied Psychology and Human Relations or	
HD 105 Basic Processes of Interpersonal Relationships ..	3
**OFC 185 Basic Machine Transcription .....	1
OFC 282 Word Processing Applications ..	1
OFC 273 Advanced Typing Applications* ..	2
HUM 101 Introduction to the Humanities ..	3
	<u>16</u>

<b>SEMESTER IV</b>	
BUS 234 Business Law .....	3
OFC 167 Legal Terminology and Transcription .....	3
OFC 274 Legal Secretarial Procedures .....	3
OFC 285 Applied Machine Transcription ..	1
OFC 803-804 Cooperative Work Experience ..	3-4
	<u>13-14</u>

Minimum Hours Required ..... 65

\*Students may be placed in typing courses based on proficiency level determined by previous training, experience, and/or placement tests. If a student places out, any OFC course may be taken to supplement the minimum hours required.

\*\*NOTE: OFC 190 Equivalent to 179, 182 and 185

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.



# OFFICE INFORMATION SYSTEMS SPECIALIST

Offered at all seven campuses

(Associate Degree)

This program introduces the skills for operators, supervisors, and managers in automated office environments. Office Information Systems involves the use of automated equipment and techniques that include speed gathering, processing, storing, and distributing printed materials.

This program develops the skills to work with a group of principals as a part of a team under the direction of an administrative support supervisor/informations systems manager. The specialist handles transcription and manipulation of data using a variety of software applications and provides special secretarial services.

## CREDIT HOURS

### SEMESTER I

ENG 101	Composition I.....	3
MTH 130	Business Mathematics.....	3
**OFC 160	Office Calculating Machines....	3
*OFC 173	Intermediate Typing.....	3
**OFC 179	Office Information Systems Concepts	2
***OFC 182	Introduction to Word Processing Equipment.....	1
		<u>15</u>

### SEMESTER II

ENG 102	Composition II.....	3
OFC 162	Office Procedures.....	3
**OFC 185	Basic Machine Transcription....	1
*OFC 273	Advanced Typing Applications....	2
***OFC 282	Word Processing Applications....	1
CIS 103	Introduction to Computer Information Systems.....	3
ACC 131	Bookkeeping I or	
ACC 201	Principles of Accounting .....	3
		<u>16</u>

### SEMESTER III

SC 101	Introduction to Speech Communication.....	3
PSY 131	Applied Psychology and Human Relations or	
HD 105	Basic Processes of Interpersonal Relationships ..	3
OFC 150	Automated Filing Procedures....	3
OFC 231	Business Communications.....	3
***OFC 283	Specialized Software.....	1
OFC 285	Applied Machine Transcription..	1
+ Elective	.....	3
		<u>17</u>

### SEMESTER IV

OFC 256	Office Management.....	3
CIS 160	Data Communications.....	3
OFC 803-804	Cooperative Workd Experience or Elective(s) .....	3-4
+ Electives	.....	3
++ Electives	.....	3
		<u>15-16</u>

Minimum Hours Required:..... 63

+ Electives—must be selected from the following:

OFC 143	Contemporary Topics in Office Careers.....	1
OFC 182	Introduction to Word Processing Equipment***	1
OFC 282	Word Processing Applications***	1
OFC 283	Specialized Software.....	1

+ + Electives—must be selected from the following:

BUS 105	Introduction to Business.....	3
BUS 234	Business Law.....	3
MGT 136	Principles of Management.....	3

\*Students may be placed in typing courses based on proficiency level determined by previous training, experience, and/or placement tests.

\*\*Note:

OFC 160 Equivalent to 192, 193, and 194

OFC 172 Equivalent to 176, 177 and 178

OFC 190 Equivalent to 179, 182, and 185.

\*\*\*Must be repeated for credit two additional times using different emphasis/equipment/software.

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# ORNAMENTAL HORTICULTURE TECHNOLOGY GREENHOUSE FLORIST OPTION

*Richland only*

(Associate Degree)

This option prepares a student to enter the florist industry. The program places emphasis on those skills required for success in wholesale greenhouse flower production, retail floral design and sales, and retail greenhouse florist production and sales. Upon graduation, a student is qualified to enter a wide number of positions in crop production, sales and distribution, floral design and flower shop management.

	CREDIT HOURS
<b>SEMESTER I</b>	
HLN 131 Horticulture Science.....	4
HLN 132 Landscape Trees.....	2
HLN 141 Floral Design.....	4
BIO 115 Biological Science or	
BIO 110 Introductory Botany.....	4
COM 131 Applied Communications.....	3
	<hr/> 17

<b>SEMESTER II</b>	
HLN 133 Landscape Shrubs, Vines and Ground Cover.....	2
HLN 140 Herbaceous and Exotic Plants.....	3
ART 110 Basic Design I.....	3
BUS 105 Introduction to Business or	
MGT 153 Small Business Management.....	3
SC 101 Introduction to Speech Communication.....	3
MTH 130 Business Mathematics.....	3
	<hr/> 17

<b>SEMESTER III</b>	
HLN 227 Greenhouse Horticulture.....	4
HLN 235 Propagation of Woody Ornamental Plants.....	2
HLN 252 Flower Shop Management.....	3
MKT 206 Principles of Marketing or	
MKT 137 Principles of Retailing.....	3
+ Elective.....	3
	<hr/> 15

<b>SEMESTER IV</b>	
HLN 249 Foliage Plants and Interiorscaping.....	3
HLN 248 Advanced Floral Design.....	3
HLN 245 Problems and Practices in Industry or	
HLN 804 Cooperative Work Experience ...	4
ACC 131 Bookkeeping I or	
MGT 157 Small Business Bookkeeping and Accounting.....	3
CHM 115 Chemical Sciences or	
PSC 118 Physical Science.....	4
	<hr/> 17

Minimum Hours Required..... 66

# ORNAMENTAL HORTICULTURE TECHNOLOGY — FLORIST OPTION

*Richland only*

(Certificate)

This program prepares the student to enter positions in floral design, retail flower shop operations, and sales and distribution of flowers and florist supplies.

	CREDIT HOURS
<b>SEMESTER I</b>	
HLN 141 Floral Design.....	4
ACC 131 Bookkeeping I or	
MGT 157 Small Business Bookkeeping and Accounting.....	3
ART 110 Basic Design I.....	3
BUS 105 Introduction to Business or	
MGT 153 Small Business Management.....	3
MTH 130 Business Mathematics.....	3
	<hr/> 15

<b>SEMESTER II</b>	
HLN 133 Landscape Shrubs, Vines and Ground Cover.....	2
HLN 140 Herbaceous and Exotic Plants.....	3
HLN 248 Advanced Floral Design.....	3
HLN 252 Flower Shop Management.....	3
HLN 804 Cooperative Work Experience.....	4
	<hr/> 15

Minimum Hours Required..... 31

+ Electives—must be selected from the following:

ART 104	Art Appreciation.....	3
HUM 101	Introduction to Humanities.....	3
MUS 104	Music Appreciation.....	3
PHI 102	Introduction to Philosophy.....	3
THE 101	Introduction to Theatre.....	3
ANY COURSE IN ANT, GVT, HST, HD, PSY, SOC, Foreign Language, or Literature		

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# ORNAMENTAL HORTICULTURE TECHNOLOGY— LANDSCAPE MANAGEMENT OPTION

*Richland only*

(Associate Degree)

This option prepares the student to enter the landscape contracting and the landscape installation and maintenance businesses. The student expands his preparation to meet his own specific goals through directing two semesters of cooperative work experience toward areas in which he desires greater preparation. Landscape management is the fastest growing field in ornamental horticulture and provides excellent employment opportunities. A student completing this option is also well prepared for work in city park departments and in state and federal park development.

	CREDIT HOURS
<b>SEMESTER I</b>	
HLN 131 Horticulture Science.....	4
HLN 132 Landscape Trees.....	2
HLN 145 Landscape Développement I.....	3
HLN 146 Fundamentals of Landscape Planning.....	3
BIO 115 Biological Science or	
BIO 110 Introductory Botany.....	4
	<hr/> 16

<b>SEMESTER II</b>	
HLN 133 Landscape Shrubs, Vines and Ground Cover.....	2
HLN 140 Herbaceous and Exotic Plants.....	3
HLN 147 Landscape Development II.....	3
BUS 105 Introduction to Business.....	3
SC 101 Introduction to Speech Communication.....	3
COM 131 Applied Communications.....	3
	<hr/> 17

<b>SEMESTER III</b>	
HLN 231 Landscape Design.....	4
HLN 804 Cooperative Work Experience.....	4
MGT 153 Small Business Management.....	3
MGT 157 Small Business Bookkeeping and Accounting*.....	3
ACC 131 Bookkeeping I.....	3
MTH 130 Business Mathematics.....	3
	<hr/> 17

<b>SEMESTER IV</b>	
HLN 238 Landscape Management.....	3
HLN 249 Foliage Plants and Interiorscaping.....	3
HLN 250 Advanced Landscape Planning.....	3
HLN 814 Cooperative Work Experience.....	4
CHM 115 Chemical Sciences or	
PSC 118 Physical Sciences.....	4
	<hr/> 17

Minimum Hours Required..... 67

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

## ORNAMENTAL HORTICULTURE TECHNOLOGY— LANDSCAPE NURSERY OPTION

*Richland only*

(Associate Degree)

This option prepares a student to enter both the landscaping industry and the nursery industry at a technician level. The program places emphasis on those skills required for success in landscape service, nursery production and landscape planning business. A student who completes this training is prepared for work in park and recreation departments, production nurseries, industrial parks and gardens.

	CREDIT HOURS
<b>SEMESTER I</b>	
HLN 131 Horticulture Science.....	4
HLN 132 Landscape Trees.....	2
HLN 145 Landscape Development I.....	3
HLN 146 Fundamentals of Landscape Planning .....	3
BIO 115 Biological Science or	
BIO 110 Introductory Botany .....	4
	16
<b>SEMESTER II</b>	
HLN 133 Landscape Shrubs, Vines and Ground Cover .....	2
HLN 140 Herbaceous and Exotic Plants.....	3
HLN 147 Landscape Development II.....	3
MTH 195 Technical Mathematics or	
MTH 130 Business Mathematics .....	3
SC 101 Introduction to Speech Communication.....	3
COM 131 Applied Communications.....	3
	17
<b>SEMESTER III</b>	
HLN 227 Greenhouse Horticulture.....	4
HLN 231 Landscape Design .....	4
HLN 233 Nursery Operations.....	3
HLN 235 Propagation of Woody Ornamental Plants.....	2
BUS 105 Introduction to Business.....	3
	16
<b>SEMESTER IV</b>	
HLN 238 Landscape Management.....	3
HLN 245 Problems and Practices in Industry or	
HLN 804 Cooperative Work Experience ...	4
HLN 249 Foliage Plants and Interiorscaping.	3
HLN 250 Advanced Landscape Planning....	3
CHM 115 Chemical Sciences or	
PSC 118 Physical Science .....	4
	17
Minimum Hours Required.....	66

## ORNAMENTAL HORTICULTURE TECHNOLOGY— LANDSCAPE GARDENER CERTIFICATE

*Richland only*

(Certificate)

This program prepares the student to enter positions in landscape construction, park maintenance, home landscape and garden services, and garden center and nursery sales. Through the selection of electives and occupational experiences the student can guide his training toward specific jobs.

	CREDIT HOURS
<b>SEMESTER I</b>	
HLN 131 Horticulture Science.....	4
HLN 132 Landscape Trees.....	2
HLN 146 Fundamentals of Landscape Planning .....	3
BUS 105 Introduction to Business or	
MGT 153 Small Business Management ....	3
MTH 195 Technical Mathematics or	
MTH 130 Business Mathematics .....	3
	15
<b>SEMESTER II</b>	
HLN 133 Landscape Shrubs, Vines and Ground Cover .....	2
HLN 140 Herbaceous and Exotic Plants.....	3
HLN 145 Landscape Development I.....	3
HLN 804 Cooperative Work Experience.....	4
Elective .....	3
	15
Minimum Hours Required.....	30

NOTE: Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# REAL ESTATE

*Cedar Valley, North Lake and Richland only*

(Associate Degree)

The program in real estate is designed to develop the fundamental skills, attitudes and experiences which enable the student to function in decision-making positions in the real estate profession. Successful completion of the program leads to the Associate in Applied Arts and Sciences Degree and may be applied toward licensing requirements as determined by the Texas Real Estate Commission.

	CREDIT HOURS
<b>SEMESTER I</b>	
RE 130 Real Estate Principles.....	3
RE 131 Real Estate Finance.....	3
BUS 105 Introduction to Business.....	3
COM 131 Applied Communications or ENG 101 Composition I .....	3
MTH 130 Business Mathematics or MTH 111 Mathematics for Business and Economics I.....	3
	<hr/> 15

<b>SEMESTER II</b>	
RE 133 Real Estate Marketing.....	3
RE 135 Real Estate Appraisal.....	3
RE 136 Real Estate Law.....	3
SC 101 Introduction to Speech Communication.....	3
Elective (Psychology, Sociology, or Human Development).....	3
	<hr/> 15

<b>SEMESTER III</b>	
ECO 201 Principles of Economics I or ECO 105 Economics of Contemporary Social Issues.....	3
RE 230 Real Estate Office Management/Brokerage.....	3
RE 250 Real Estate Internship I*.....	4
RE 254 Real Estate Seminar I*.....	2
+ Elective .....	3
	<hr/> 15

<b>SEMESTER IV</b>	
ACC 201 Principles of Accounting I.....	3
GVT 201 American Government.....	3
+ Elective .....	9
	<hr/> 15

Minimum Hours Required:..... 60

## + Recommended Electives

RE 138	Real Estate Law Contracts.....	3
RE 233	Commercial and Investment Real Estate.....	3
RE 235	Property Management.....	3
**RE 251	Real Estate Internship.....	4
**RE 255	Real Estate Seminar.....	2
RE 240	Special Problems in Real Estate.....	1
RE 241	Special Problems in Real Estate.....	3
ACC 202	Principles of Accounting II.....	3
ECO 202	Principles of Economics II.....	3
SC 105	Fundamentals of Public Speaking.....	3

\*RE 250 and RE 254 must be taken concurrently. Preliminary interview by real estate coordinator required.

\*\*RE 251 and RE 255 must be taken concurrently. Preliminary interview by real estate coordinator required.

**NOTE:** Students enrolling in this program who plan to transfer to a four-year institution should consult an advisor or counselor regarding transfer requirements and the transferability of these courses to the four-year institution of their choice.

# Course Descriptions

## Including General Education and Career Program Courses

- All courses listed in the District catalog are not available at every college. The District catalog contains descriptions of both General Education courses and Technical/Occupational courses offered collectively by the seven colleges of the Dallas County Community College District. The listing is alphabetical by course subject title.
- Each campus within the District publishes a catalog which reflects courses and programs that are offered on that campus.
- All courses listed in this catalog may not be offered during the current year. It is suggested that students plan their schedules with the help of a college counselor well in advance of registration.

## Understanding The Course Descriptions

Abbreviation on the general program area name (in this case, "Biology").

Course Number

Name of the Course

Credit Hours - When you complete a course, you are awarded a certain number of credit hours. If you are in a degree program, a specified number of credit hours is required for graduation. Counselors are available to help you determine your course and credit hour requirements.

Prerequisite - A course that must be successfully completed or a requirement such as related life experiences that must be met before enrolling in this course.

**(BIO) 221 Anatomy And Physiology I (4)**

Prerequisite: Biology 102 or demonstrated competence approved by the instructor. This course examines cell structure and function, tissues, and the skeletal, muscular, and nervous systems. Emphasis is on structure, function, and the interrelationships of the human systems. Laboratory fee. (3 Lec., 3 Lab.)

A brief paragraph describing the course.

Laboratory Fee - A charge for equipment or services in addition to tuition.

Lecture/Lab - The number of hours that you will spend in a classroom (Lecture) and/or Laboratory each week during the semester. In this example, you would spend three hours in the classroom and three hours in the lab each week. Some course descriptions show the total number of "contact hours" for the entire semester. *Contact hours* are the number of hours you are in contact with the instructor or on-the-job supervisor during the entire semester.

In the following course descriptions, the number of credit hours for each course is indicated in parenthesis opposite the course number and title. Courses numbered 100 (except Music 199, Art 199 and Theater 199) or above may be applied to requirements for associate degrees. Courses numbered below 100 are developmental in nature and may not be applied to degree requirements. Students are urged to consult their counselors or specific college catalogs for information about transferability of courses to four-year institutions. Course prerequisites may be waived only by the appropriate division chairperson.

# Course Descriptions

## ACCOUNTING

### **(ACC) 131 Bookkeeping I (3)**

The fundamental principles of double-entry bookkeeping are presented and applied to practical business situations. Emphasis is on financial statements, trial balances, work sheets, special journals, and adjusting and closing entries. A practice set covering the entire business cycle is completed. (3 Lec.)

### **(ACC) 132 Bookkeeping II (3)**

Prerequisite: Accounting 131. This course covers accruals, bad debts, taxes, depreciation, controlling accounts, and business vouchers. Bookkeeping for partnerships and corporations is introduced. (3 Lec.)

### **(ACC) 201 Principles of Accounting I (3)**

This course covers the theory and practice of measuring and interpreting financial data for business units. Topics include depreciation, inventory valuation, credit losses, the operating cycle, and the preparation of financial statements. *(This course is offered on campus and may be offered via television.)* (3 Lec.)



### **(ACC) 202 Principles Of Accounting II (3)**

Prerequisite: Accounting 201. Accounting procedures and practices for partnerships and corporations are studied. Topics include cost data and budget controls. Financial reports are analyzed for use by creditors, investors, and management. (3 Lec.)

### **(ACC) 203 Intermediate Accounting I (3)**

Prerequisite: Accounting 202. This course is an intensive study of the concepts, principles, and practice of modern financial accounting. Included are the purposes and procedures underlying financial statements. (3 Lec.)

### **(ACC) 204 Managerial Accounting (3)**

Prerequisite: Accounting 202. This course is a study of accounting practices and procedures used to provide information for business management. Emphasis is on the preparation and internal use of financial statements and budgets. Systems, information, and procedures used in management planning and control are also covered. (3 Lec.)

### **(ACC) 238 Cost Accounting (3)**

Prerequisite: Accounting 202. The theory and practice of accounting for a manufacturing concern are presented. The measurement and control of material, labor, and fac-

### **(ACC) 239 Income Tax Accounting (3)**

Prerequisite: Accounting 202 or demonstrated competence approved by the instructor. This course examines basic income tax laws which apply to individuals and sole proprietorships. Topics include personal exemptions, gross income, business expenses, non-business deductions, capital gains, and losses. Emphasis is on common problems. (3 Lec.)

### **(ACC) 250 Microcomputer-Based Accounting Applications (3)**

Prerequisites: Accounting 202 and Computer Information Systems 103. This course is designed to provide students with an overview of microcomputer-based accounting systems for small businesses. Actual "hands-on" experience will be provided utilizing systems for general ledger, accounts receivable, accounts payable, and payroll. Additional study may be devoted to financial planning and budgeting applications using electronic worksheet programs. Laboratory fee. (2 Lec., 2 Lab.)

### **(ACC) 703, 713, 803, 813 Cooperative Work Experience (3)** (See Cooperative Work Experience). (1 Lec., 15 Lab.)

### **(ACC) 704, 714, 804, 814 Cooperative Work Experience (4)** (See Cooperative Work Experience). (1 Lec., 20 Lab.)

## ANTHROPOLOGY

### **(ANT) 100 Introduction To Anthropology (3)**

This course surveys the origin of mankind involving the processes of physical and cultural evolution, ancient man, and preliterate man. Attention is centered on fossil evidence, physiology and family/group roles and status. (3 Lec.)

### **(ANT) 101 Cultural Anthropology (3)**

Cultures of the world are surveyed, and emphasis is given to those of North America. Included are the concepts of culture, social and political organization, language, religion and magic, and elementary anthropological theory. (This course is offered on campus and may be offered via television.) (3 Lec.)



### **(ANT) 104 American Indian Culture (3)**

Native Americans are studied from three perspectives: Native American history and prehistory; traditional Indian cultures; and native Americans today. The latter theme stresses current topics such as discrimination, poverty, employment, reservations, The Bureau of Indian Affairs, self-determination, health care, etc. (3 Lec.)

### **(ANT) 110 The Heritage Of Mexico (3)**

This course (cross-listed as History 110) is taught in two parts each semester. The first part of the course deals with the archeology of Mexico beginning with the first humans to enter the North American continent and culminating with the arrival of the Spanish in 1519 A.D. Emphasis is on archaic cultures; the Maya, the Toltec, and Aztec empires. The second part of the course deals with Mexican history and modern relations between the United States and Mexico. The student may register for either History 110 or Anthropology 110 but may receive credit for only one of the two. (3 Lec.)

### **(ANT) 231 Introduction To Archeology (3)**

This course is an anthropological approach to archeology. Topics include an introduction to the study of humanity's past. How archeologists retrieve, process, analyze and interpret surviving prehistoric materials is covered, as well as a survey of world prehistory through neolithic times. (3 Lec.)



# ART

## **(ART) 104 Art Appreciation (3)**

Films, lectures, slides, and discussions focus on the theoretical, cultural and historical aspects of the visual arts. Emphasis is on the development of visual and aesthetic awareness. (3 Lec.)

## **(ART) 105 Survey Of Art History (3)**

This course covers the history of art from prehistoric time through the Renaissance. It explores the culture, geophysical, and personal influences on art styles. (3 Lec.)

## **(ART) 106 Survey Of Art History (3)**

This course covers the history of art from the Baroque period through the present. It explores the cultural, geophysical and personal influences on art styles. (3 Lec.)

## **(ART) 110 Design I (3)**

Basic concepts of design with two-dimensional materials are explored. The use of line, color, illusion of space or mass, texture, value, shape and size in composition is considered. (2 Lec., 4 Lab.)

## **(ART) 111 Design II (3)**

Basic concepts of design with three-dimensional materials are explored. The use of mass, space, movement and texture is considered. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 114 Drawing I (3)**

This beginning course investigates various media, techniques and subjects. It explores perceptual and descriptive possibilities and considers drawing as a developmental process as well as an end in itself. (2 Lec., 4 Lab.)

## **(ART) 115 Drawing II (3)**

Prerequisite: Art 114. This course is an expansion of Art 114. It stresses the expressive and conceptual aspects of drawing, including advanced compositional arrangements, a range of wet and dry media, and the development of an individual approach to theme and content. (2 Lec., 4 Lab.)

## **(ART) 116 Jewelry Design and Construction (3)**

This course explores the uses of metal in design, basic fabrication techniques in metal, bezel setting of stones, and simple casting. Emphasis is on original design. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 117 Advanced Jewelry Design and Construction (3)**

Prerequisite: Art 116. This course continues Art 116. Advanced fabrication, lost wax casting, setting of faceted stones, and forging and shaping of metal, including repousse and chasing are presented. Emphasis is on original design. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 199 Problems In Contemporary Art (1)**

Area artists, critics and art educators speak with students about the work exhibited in the gallery and discuss current art styles and movements. They also discuss specific aspects of being artists in contemporary society. This course may be repeated for credit. (1 Lec.)

## **(ART) 201 Drawing III (3)**

Prerequisites: Art 110, Art 111, Art 115, sophomore standing or demonstrated competence approved by the

instructor. This course covers the analytic and expressive drawing of the human figure. Movement and volume are stressed. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 202 Drawing IV (3)**

Prerequisites: Art 201, sophomore standing or demonstrated competence approved by the instructor. This course continues Art 201. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 203 Art History (3)**

Prerequisites: Art 105 and Art 106. The development of the art of western culture during the Renaissance Period is presented. Emphasis is on the development of Renaissance art in Northern and Southern Europe. (3 Lec.)

## **(ART) 204 Art History (3)**

Prerequisites: Art 105 and Art 106. The development of the art of western culture from the late 19th century through today is presented. Emphasis is on the development of modern art in Europe and America. (3 Lec.)

## **(ART) 205 Painting I (3)**

Prerequisites: Art 110, Art 111, Art 115 or demonstrated competence approved by the instructor. This studio course stresses fundamental concepts of painting with acrylics and oils. Emphasis is on painting from still life, models and the imagination. (2 Lec., 4 Lab.)

## **(ART) 206 Painting II (3)**

Prerequisite: Art 205. This course continues Art 205. Emphasis is on individual expression. (2 Lec., 4 Lab.)

## **(ART) 208 Sculpture I (3)**

Prerequisites: Art 110, Art 111, Art 115 or demonstrated competence approved by the instructor. Various sculptural approaches are explored. Different media and techniques are used. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 209 Sculpture II (3)**

Prerequisite: Art 208. This course continues Art 208. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 210 Commercial Art I (3)**

Prerequisites: Art 110, Art 111, Art 115 or demonstrated competence approved by the instructor. The working world of commercial art is introduced. Typical commercial assignments are used to develop professional attitudes and basic studio skills. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 215 Ceramics I (3)**

Prerequisites: Art 110, Art 111, Art 115 or demonstrated competence approved by the instructor. This course focuses on the building of pottery forms by coil, slab and use of the wheel. Glazing and firing are also included. Laboratory fee. (2 Lec., 4 Lab.)

## **(ART) 216 Ceramics II (3)**

Prerequisite: Art 215 or demonstrated competence approved by the instructor. Glaze technology is studied. Advanced problems in the creation of artistic and practical ceramic ware. Laboratory fee. (2 Lec., 4 Lab.)

**(ART) 217 Watercolor I (3)**

Prerequisites: Art 110, Art 111 and Art 115 or demonstrated competence approved by the instructor. This course explores studio techniques in water base media. Emphasis is placed on exploration of a variety of modes and techniques as a means to original expression. (2 Lec., 4 Lab.)

**(ART) 218 Watercolor II (3)**

Prerequisite: Art 217. This course continues the development of skills in water base media. (2 Lec., 4 Lab.)

**(ART) 220 Printmaking I (3)**

Prerequisites: Art 110, Art 111, Art 115, or demonstrated competence approved by the instructor. Basic printmaking processes are introduced. Included are planographic, intaglio, stencil and relief processes. Laboratory fee. (2 Lec., 4 Lab.)

**(ART) 222 Printmaking II (3)**

Prerequisite: Art 220. This course is a continuation of Printmaking I. Laboratory fee. (2 Lec., 4 Lab.)

**(ART) 227 Design III (3)**

Prerequisites: Art 110, 111, 114 and 115. This course is a development of two and three dimensional projects in a variety of materials. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)

**(ART) 229 Design IV (3)**

Prerequisite: Art 227. This course is a continued investigation into the problems of two- and three-dimensional concepts. Emphasis is on individual expression. Laboratory fee. (2 Lec., 4 Lab.)

**(ART) 232 Fibers I (3)**

Prerequisites: Art 110, 111, 114 and 115. This course explores the problems of design, construction and form utilizing basic fiber techniques. (2 Lec., 4 Lab.)

**(ART) 233 Fibers II (3)**

Prerequisite: Art 232. This course is a continuation of Art 232. It further explores fiber techniques and processes. (2 Lec., 4 Lab.)

## ASTRONOMY

**(AST) 101 Descriptive Astronomy (3)**

This course surveys the fundamentals of astronomy. Emphasis is on the solar system. Included is the study of the celestial sphere, the earth's motions, the moon, planets, asteroids, comets, meteors and meteorites. (This course is offered on campus and may be offered via television.) (3 Lec.)

**(AST) 111 Fundamentals Of Astronomy (4)**

This course concerns fundamental aspects of the solar system and the historical development of astronomical ideas. Included are studies of the celestial sphere and motions of the earth, the moon, planets, and other minor bodies. The origin and evolution of the solar system are also covered. The laboratory includes outdoor viewing sessions and study of celestial motions, elementary navigation, constellation identification, and telescope construction. Laboratory fee. (3 Lec., 3 Lab.)

**(AST) 112 General Introductory Astronomy (4)**

This course concerns fundamental properties of stars, stellar systems, star clusters, nebulae, interstellar gas and dust, and galaxies. Included is the study of the sun, Milky Way Galaxy, stellar evolution, black holes, and current cosmological ideas. The laboratory includes outdoor viewing sessions and the study of timekeeping, use of spectra, and motions of stars and galaxies. Laboratory fee. (3 Lec., 3 Lab.)

## BIOLOGY

**(BIO) 101 General Biology (4)**

This course is intended for students majoring and minoring in biology and related disciplines. It is a prerequisite for all higher level biology courses. Topics include the scientific method, fundamental general and biological chemistry, cell structure and function including membrane transport, cell reproduction, cell energetics and homeostatic mechanisms. Laboratory fee. (3 Lec., 3 Lab.)

**(BIO) 102 General Biology (4)**

This course is a continuation of Biology 101 and is intended for students majoring and minoring in biology and related disciplines. Topics include Mendelian and molecular genetics, developmental biology, evolution and the diversity of life, and ecology. Laboratory fee. (3 Lec., 3 Lab.)

**(BIO) 110 Introductory Botany (4)**

This course introduces plant form and function. Topics ranging from the cell through organs are included. Emphasis is on the vascular plants, including the taxonomy and life cycles of major plant divisions. Laboratory fee. (3 Lec., 3 Lab.)

**(BIO) 115 Biological Science (4)**

Selected topics in biological science are presented for the non-science major. Topics include the cell concept and basic chemistry as it relates to biology. An introduction to genetics, evolution, cellular processes, such as mitosis, meiosis, respiration, and photosynthesis, and plant and animal reproduction is also covered. Laboratory fee. (This course is offered on campus and may be offered via television.) (3 Lec., 3 Lab.)

**(BIO) 116 Biological Science (4)**

Selected topics in biological science are presented for the non-science major. Topics include the systems of the human body, disease, drug abuse, aging, evolution, ecology, and people in relation to their environment. Laboratory fee. (3 Lec., 3 Lab.)

**(BIO) 216 General Microbiology (4)**

Prerequisite: Biology 102 or 121 or demonstrated competence approved by the instructor. Topics include growth, reproduction, nutrition, genetics, and ecology of microorganisms, as well as aspects of microbial disease, immunology and chemotherapy. Laboratory activities constitute a major part of the course. Laboratory fee. (3 Lec., 4 Lab.)

**(BIO) 218 Field Biology (3)**

Local plant and animal life are surveyed in relationship to the environment. Aquatic and terrestrial communities are studied with reference to basic ecological principles and techniques. Emphasis is upon classification, identification, and collection of specimens in the field. This course may be repeated for credit. (2 Lec., 4 Lab.)

**(BIO) 221 Anatomy And Physiology I (4)**

Prerequisite: Biology 102 or demonstrated competence approved by the instructor. This course examines cell structure and function, tissues, and the skeletal, muscular, and nervous systems. Emphasis is on structure, function, and the interrelationships of the human systems. Laboratory fee. (3 Lec., 3 Lab.)

**(BIO) 222 Anatomy and Physiology II (4)**

Prerequisite: Biology 221 or demonstrated competence approved by the instructor. This is the second course of a two course sequence. Structure and function as related to the human circulatory, respiratory, urinary, digestive, reproductive, and endocrine systems are studied. Emphasis is placed on the inter-relationships of these systems. Laboratory fee. (3 Lec., 3 Lab.)

**(BIO) 235 Comparative Anatomy of the Vertebrates (4)**

Prerequisites: Biology 101 and 102. For science majors and pre-medical and pre-dental students. Major groups of vertebrates are studied. Emphasis is on morphology and evolutionary relationships. Laboratory fee. (3 Lec., 4 Lab.)

**BUSINESS****(BUS) 105 Introduction to Business (3)**

This course provides an introduction to business operations. Topics include: the business system, legal forms of business, organization and management, business functions (production, marketing, finance, risk management, information systems, accounting) and the environments affecting business (the economy, labor, government regulation, social responsibility, law, international business, and technology). (This course is offered on campus and may be offered via television.) (3 Lec.)

**(BUS) 143 Personal Finance (3)**

Personal financial issues are explored. Topics include financial planning, insurance, budgeting, credit use, home ownership, savings, investment, and tax problems. (3 Lec.)

**(BUS) 234 Business Law (3)**

This course presents the legal principles affecting business decisions. The law of contracts, agency sales, negotiable instruments, and secured transactions are specifically covered. (3 Lec.)

**(BUS) 237 Organizational Behavior (3)**

The persisting human problems of administration in modern organizations are covered. The theory and methods of behavioral science as they relate to organizations are included. (3 Lec.)

**CHEMISTRY****(CHM) 101 General Chemistry (4)**

Prerequisites: Developmental Mathematics 093 or equivalent and any one of the following: high school chemistry, Chemistry 115, or the equivalent. This course is for science and science-related majors. Fundamental concepts of chemistry are presented including states and properties of matter, the periodic table, chemical reaction types and energy relationships, chemical bonding, atomic and molecular structure, stoichiometry, gas laws and solutions. Laboratory fee. (3 Lec., 3 Lab.)

**(CHM) 102 General Chemistry (4)**

Prerequisite: Chemistry 101. This course is for science and science-related majors. It is a continuation of Chemistry 101. Previously learned and new concepts are applied. Topics include reaction kinetics and chemical equilibrium, acids, bases, salts and buffers, thermodynamics, colligative properties of solutions, electrochemistry, transition-metal chemistry, nuclear chemistry, qualitative inorganic analysis and an introduction to organic chemistry. Laboratory fee. (3 Lec., 3 Lab.)

**(CHM) 115 Chemical Science (4)**

Prerequisite: Developmental Mathematics 091 or the equivalent. This course is for non-science majors. Fundamental concepts are presented in lecture and laboratory including the periodic table, atomic structure, chemical bonding, reactions, stoichiometry, states of matter, properties of metals, nonmetals and compounds, acid-base theory, oxidation-reduction, solutions and nuclear chemistry. Descriptive chemistry is emphasized. Laboratory fee. (3 Lec., 3 Lab.)

**(CHM) 116 Chemical Science (4)**

Prerequisite: Chemistry 115 or demonstrated competence approved by the instructor. This course is for non-scientific majors. It surveys organic chemistry and biochemistry. The reactions, syntheses, nomenclature, uses, purposes and properties of the important classes of organic and biochemical compounds are studied. Laboratory fee. (3 Lec., 3 Lab.)

**(CHM) 201 Organic Chemistry I (4)**

Prerequisite: Chemistry 102. This course is for science and science-related majors. It introduces the fundamental classes of organic (carbon) compounds and studies aliphatic and aromatic hydrocarbons in detail. It includes occurrence, structure, stereochemistry, nomenclature, and reactions and mechanisms of synthesis. Lab includes: synthesis, purification by distillation, recrystallization, extraction and chromatography, and identification by spectroscopic, physical and chemical methods. Laboratory fee. (3 Lec., 4 Lab.)

**(CHM) 202 Organic Chemistry II (4)**

Prerequisite: Chemistry 201. This course is for science and science-related majors. It is a continuation of Chemistry 201. Topics studied include properties and syntheses of aliphatic and aromatic systems of aldehydes, ketones, carboxylic acids, esters, ethers, amines, alcohols and amides. Further topics include polyfunctional and heterocyclic compounds, amino acids, proteins, lipids and carbohydrates. Laboratory includes qualitative organic analysis. Laboratory fee. (3 Lec., 4 Lab.)

## CHINESE

### **(CHI) 101 Beginning Chinese I (4)**

This course is a beginning course in Chinese. Oral practice, elementary reading, and grammar will be stressed. Laboratory fee. (3 Lec., 2 Lab.)

### **(CHI) 102 Beginning Chinese II (4)**

Prerequisite: Chinese 101 or the equivalent. This course continues the oral practice, elementary reading, and grammar studies begun in Chinese 101. Laboratory fee. (3 Lec., 2 Lab.)

### **(CHI) 201 Intermediate Chinese I (3)**

Prerequisite: Chinese 102 or the equivalent. Reading, cultural background, conversation, and composition are stressed in this course. (3 Lec.)

### **(CHI) 202 Intermediate Chinese II (3)**

Prerequisite: Chinese 201 or the equivalent. This course is a continuation of Chinese 201, with stress on reading, cultural background, conversation, and composition. (3 Lec.)

## COLLEGE LEARNING SKILLS

### **(CLS) 100 College Learning Skills (1)**

This course is for students who wish to extend their learning skills for academic or career programs. Individualized study and practice are provided in reading, study skills and composition. This course may be repeated for a maximum of three credits. (1 Lec.)

## COMMUNICATIONS

### **(COM) 131 Applied Communications (3)**

This course focuses on student writing. It emphasizes reading and analytical thinking skills and introduces research skills. Students practice writing for a variety of audiences and purposes, primarily job-related. (3 Lec.)

## COMPUTER INFORMATION SYSTEMS

### **(CIS) 103 Introduction to Computer Information Systems (3)**

This course provides an overview of computer information systems. Topics include history of computers, vocabulary, cultural impact, procedures and systems, development of basic algorithms, and number systems. The fundamentals of computer problem-solving are applied through the use of the BASIC programming language and microcomputer software packages. Laboratory fee. (This course is offered on campus and may be offered via television.) (3 Lec., 1 Lab.)



### **(CIS) 108 PC Software Applications (4)**

This course surveys the use of the microcomputer in conducting professional activities and solving business problems. Topics include the study of hardware and software components of a microcomputer, the function of operating systems and the study and use of contemporary software application packages. Laboratory fee. (3 Lec., 4 Lab.)

### **(CIS) 114 Problem Solving With The Computer (4)**

Prerequisites: Business 105 or Management 136 and Computer Information Systems 103 or Computer Information Systems 108, or demonstrated proficiency approved by instructor. This course explores methods of solving business problems with the use of a microcomputer. Analysis and design methods are studied and applied to practical situations involving various business functions. Data security and privacy issues are also considered. (3 Lec., 2 Lab.)

### **(CIS) 118 Text Processing Applications (3)**

Prerequisites: Computer Information Systems 108 or demonstrated proficiency approved by the instructor. This course covers text entry and editing, reformatting, search and replace, cut-and-paste, file and print operations, utilities including spelling checkers, outliners, and office productivity tools. Office automation concepts including desktop publishing, facsimile and networking are covered. Students will learn to use two commercially available text processors. Laboratory fee. (2 Lec., 3 Lab.)

### **(CIS) 150 Computer Program Logic and Design (3)**

Prerequisite: Computer Information Systems 103 or demonstrated competence approved by the instructor. This course presents basic logic needed for problem solving with the computer. Topics include structured design tools and their application to general business problems. (3 Lec.)

### **(CIS) 160 Data Communications (3)**

Prerequisite: Computer Information Systems 103. This course provides an introduction to data communications vocabulary, concepts, and uses. Topics include data communications hardware, software, networks, and protocols. (3 Lec.)

### **(CIS) 162 COBOL Programming I (4)**

Prerequisites: Computer Information Systems 103, credit or concurrent enrollment in Computer Information Systems 150, or demonstrated competence approved by the instructor. This course develops structured programming skills using the COBOL language. Topics include input/output, comparisons, control breaks, introductory table concepts, and report formats. Skills in problem analysis, using design tools, coding, testing, and documentation are also developed. Laboratory fee. (3 Lec., 4 Lab.)

### **(CIS) 164 COBOL Programming II (4)**

Prerequisites: Computer Information Systems 150 and 162 or demonstrated competence approved by the instructor. This course continues the development of programming skills using the COBOL language. Topics include advanced table concepts, sort techniques, disk file organizations and maintenance, debugging techniques, copy techniques, and subprograms. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 167 C Programming (4)**

Prerequisite: Six credit hours in programming language courses, or demonstrated competence approved by the instructor. This course covers the fundamentals of the C Programming language. Topics include structured programming and problem solving techniques. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 170 RPG Programming (3)**

Prerequisite: Three credit hours in a programming language course, or demonstrated competence approved by the instructor. This course introduces programming skills using the RPG II language. Topics include basic listings with levels of totals, multi-record input, exception reporting, look-ahead feature, and multi-file processing. Laboratory fee. (2 Lec., 2 Lab.)

**(CIS) 173 Pascal Programming for Business (3)**

Prerequisites: Three credit hours in a programming language course, or demonstrated competence approved by the instructor. This course is an introduction to the Pascal programming language. Topics will include structured programming and problem-solving techniques as they apply to business applications. Laboratory fee. (2 Lec., 2 Lab.)

**(CIS) 205 JCL and Operating Systems (4)**

Prerequisite: Credit or concurrent enrollment in Computer Information Systems 164 or Computer Information Systems 116 or demonstrated competence approved by the instructor. This course introduces mainframe operating system concepts, terminology, job control language, and utilities. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 210 Assembly Language I (4)**

Prerequisites: Computer Information Systems 164 or demonstrated competence approved by the instructor. This course focuses on basic concepts and instructions using a current mainframe assembler language and structured programming techniques. Topics include decimal features, fixed point operations using registers, selected macro instructions, introductory table concepts, editing printed output, and reading memory dumps. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 218 Spreadsheet Applications (4)**

Prerequisites: Computer Information Systems 108 and Computer Information Systems 114 or demonstrated competence approved by the instructor. Using a commercially available spreadsheet package, this course covers the theory and uses of electronic spreadsheets including formula creation, template design, formatting features, statistical, mathematical and financial functions, file operations, report generation, graphics, and macro programming. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 220 Assembly Language II (4)**

Prerequisite: Computer Information Systems 210 or demonstrated competence approved by the instructor. Advanced programming skills will be developed using a current mainframe assembler language. Topics include advanced fixed point operations, indexing, disk file organization and maintenance, advanced table concepts, data and bit manipulation techniques, macro writing, sub-

program linkages, advanced problem analysis, debugging techniques, and introduction to floating point operations. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 221 PC Operating Systems and Utilities (4)**

Prerequisites: Computer Information Systems 108 and Computer Information Systems 160. This course covers operating system concepts and includes scheduling, data and memory management, the use of batch files, and "path techniques" to facilitate efficient use of secondary storage. Back-up techniques, operating system commands, and operating system enhancer programs and utilities will be analyzed. Laboratory fee. (3 Lec., 3 Lab.)

**(CIS) 223 PC Hardware (3)**

Prerequisites: Credit or concurrent enrollment in Computer Information Systems 221. This course presents a function systems-level review of PC hardware and the organization of components and devices into architectural configurations. Students will learn how to prepare and evaluate system specifications, trouble-shoot minor hardware problems, and prepare and modify short assembler language programs. Laboratory fee. (2 Lec., 2 Lab.)

**(CIS) 225 Systems Analysis and Design (4)**

Prerequisite: Computer Information Systems 164 or demonstrated competence approved by the instructor. This course introduces and develops skills to analyze existing business systems and to design new systems using structured methodology. Emphasis is on a case study involving all facets of systems analysis and design. (3 Lec., 4 Lab.)

**(CIS) 228 Database Applications (4)**

Prerequisites: Computer Information Systems 108 and Computer Information Systems 114 or demonstrated competence approved by the instructor. Using a commercially available database management program, this course covers terminology, organizing data and designing files, report and menu generation, indexing, selection/queries, browsing, file operations, and program development. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 239 User Documentation and Training (3)**

Prerequisites: Speech Communication 101, Office Careers 231, and Computer Information Systems 118 or comparable word processing course or demonstrated competence approved by the instructor. This course covers the practical application of adult learning theory, product documentation, creating user guides and reference manuals, using tutorials, evaluating and using training materials, effective training experiences, concepts of desktop publishing, and presentation graphics. (3 Lec.)

**(CIS) 254 Data Base Systems (4)**

Prerequisite: Computer Information Systems 164 or demonstrated competence approved by the instructor. This course is an introduction to applications program development in a data base environment with emphasis on loading, modifying, and querying a data base. Topics include discussion and application of data structures, indexed and direct file organizations, data analysis, design, implementation, and data management. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 256 Computer Center Management (3)**

Prerequisite: Computer Information Systems 103 and 116 or demonstrated competence approved by the instructor. The management of a computer center is examined. Topics include introduction to management theory, personnel management, production, scheduling, and processing within a computer center. Methods for computer selection and evaluation are also presented. (3 Lec.)

**(CIS) 258 On-Line Applications (4)**

Prerequisites: Computer Information Systems 160 and 164 or demonstrated competence approved by the instructor. This course covers teleprocessing monitors and introduces the concepts required to program on-line applications. Topics include on-line applications design, the functions of a teleprocessing monitor, program coding techniques, testing methods, and file handling. The CICS Command Level interface to the COBOL language will be used. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 260 Contemporary Topics in Computer Information Systems (1)**

Prerequisite: Will vary based on topics covered and will be annotated in each semester's class schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. (1 Lec.)

**(CIS) 262 Contemporary Topics in Computer Information Systems (3)**

Prerequisite: Will vary based on topics covered and will be annotated in each semester's class schedule. Recent developments and topics of current interest are studied. May be repeated when topics vary. (3 Lec.)

**(CIS) 265 Special Topics in Computer Information Systems (4)**

Prerequisite: Will vary based on topics covered and will be annotated in each semester's class schedule. Current developments in the rapidly changing field of computer information systems are studied. May be repeated when topics vary. Laboratory fee. (3 Lec., 4 Lab.)

**(CIS) 280 Applied Studies (3)**

Prerequisites: Computer Information Systems 223 and twelve additional credit hours from this option or demonstrated proficiency approved by the instructor. This course applies PC analyst skills to real world situations. Topics include planning and implementing solutions to business-related problems, incorporating student knowledge of hardware, software, applications packages, training, documentation, communication skills, and problem solving skills. (3 Lec.)

**(CIS) 701, 711, 801, 811 Cooperative Work Experience (1)**  
(See Cooperative Work Experience) (1 Lec., 5 Lab.)**(CIS) 702, 712, 802, 812 Cooperative Work Experience (2)**  
(See Cooperative Work Experience) (1 Lec., 10 Lab.)**(CIS) 703, 713, 803, 813 Cooperative Work Experience (3)**  
(See Cooperative Work Experience) (1 Lec., 15 Lab.)**(CIS) 704, 714, 804, 814 Cooperative Work Experience (4)**  
(See Cooperative Work Experience) (1 Lec., 20 Lab.)

## COMPUTER SCIENCE

**(CS) 111 Computing Science I (3)**

Prerequisite: Two years of high school algebra or Developmental Math 093 or demonstrated competence approved by the instructor. This introductory course is designed to meet the requirements for a four-year degree with a major or minor in computer science, mathematics, or a scientific field. Topics covered include computer organization and storage, number systems, and problem-solving using structured programming in Pascal. Laboratory fee. (3 Lec.)

**(CS) 112 Computing Science II (3)**

Prerequisites: Computer Science 111 and Math 101 or demonstrated competence approved by the instructor. This course is a continuation of Computer Science 111 and is designed to meet the requirements for a degree in computer science or a related field. Topics covered include a continuation of Pascal programming, structured problem solving, elementary data structures including arrays, records, files, and the use of pointer variables. Laboratory fee. (2 Lec., 2 Lab.)

**(CS) 121 Introduction to FORTRAN Programming (3)**

Prerequisite: Math 102 or demonstrated competence approved by the instructor. This course is intended primarily for students pursuing a degree in an engineering, science, or a related field who require a one-semester course in FORTRAN programming. Emphasis is on the use of the FORTRAN language in technical applications. Topics include input/output, structures, and formatting. Laboratory fee. (2 Lec., 2 Lab.)

**(CS) 122 Introduction to BASIC Programming (3)**

Prerequisite: Developmental Math 093 or demonstrated competence approved by the instructor. This course is an introduction to the BASIC programming language. Topics include input/output, looping, decision structures, functions, arrays, disk files, and formatting. Emphasis is placed on structured programming techniques and algorithm development. Laboratory fee. (2 Lec., 2 Lab.)

**(CS) 123 Introduction to PL/I Programming (3)**

Prerequisites: Developmental Math 093 and Computer Science 111 or Computer Information Systems 105 or demonstrated competence approved by the instructor. This course is an introduction to the PL/I programming language. Emphasis is placed upon the structured approach to program design using both mathematical and business applications. Topics include string processing, simple data structures, internal search/sort techniques, and sequential file processing. Laboratory fee. (2 Lec., 2 Lab.)

**(CS) 211 Assembly Language (3)**

Prerequisite: Computer Science 112 or demonstrated competence approved by the instructor. This course is designed to meet the requirements for a degree in computer science or a related field. Topics covered include a study of assembly language programming, machine representation of data and instructions, and addressing techniques. Laboratory fee. (2 Lec., 2 Lab.)

**(CS) 221 Introduction to Computer Organization (3)**

Prerequisite: Computer Science 112 or demonstrated competence approved by the instructor. This course introduces the organization and structuring of the major hardware components of computers, the mechanics of information transfer and control within a digital computer system, and the fundamentals of logic design. Laboratory fee. (2 Lec., 2 Lab.)

**(CS) 222 Introduction to File Processing (3)**

Prerequisite: Computer Science 112 or demonstrated competence approved by the instructor. This course introduces the concepts and techniques of structuring data. Experience is provided in the use of secondary storage devices and applications of data structures and file processing techniques. Laboratory fee. (2 Lec., 2 Lab.)

## CONSTRUCTION MANAGEMENT AND TECHNOLOGY

**(CMT) 121 Construction Materials, Methods And Equipment I (3)**

This course introduces construction materials, methods, and equipment. The origin, nature, and normal uses of materials are investigated. The integration of materials into finished projects is also covered. Laboratory fee. (2 Lec., 3 Lab.)

**(CMT) 122 Construction Materials, Methods And Equipment II (3)**

This course continues the study of construction materials, methods, and equipment. (2 Lec., 3 Lab.)

**(CMT) 123 Construction Graphics (4)**

Construction technology and construction graphic communications are introduced. The student learns to read blueprints and understand the expressed and implied meanings of symbols, conventions, and drawing. Free-hand sketching and basic drafting required of construction supervisors are also included. (2 Lec., 6 Lab.)

**(CMT) 124 Electrical And Mechanical Equipment For Buildings (4)**

The nature and use of materials and equipment in various systems are explained. Included are plumbing, heating, ventilation, air conditioning, electrical, and conveying systems. The design theories and uses of the completed systems are introduced. (3 Lec., 3 Lab.)

**(CMT) 132 The Construction Industry (3)**

This course surveys the growth, magnitude, and economic importance of the construction industry. Emphasis is on understanding the interrelationship between the many trades, professions, and agencies in construction. (3 Lec.)

**(CMT) 136 Surveying and Measurements (4)**

Prerequisites: Mathematics 102 or 196 and Engineering 105 or Construction Management Technology 123. This course focuses on plane surveying. Topics include surveying instruments, basic measuring procedures, vertical and horizontal control, error analysis, and computations. Traverse, triangulation, route alignments, centerlines, profiles, mapping, route surveying and land surveying are included. Field work provides application of theory for students with little or no survey training. Laboratory fee. (3 Lec., 5 Lab.)

**(CMT) 138 Construction Management I (4)**

This course covers the responsibilities of a supervisor. Topics include organization, human relations, grievances, training, rating, promotion, quality and quality control, management-employee relations, scheduling of work, and job and safety instructions. Roles played by labor and management in the development of American industry are studied. Forces affecting labor supply, employment, and industrial relations in a democracy are analyzed. Emphasis is on safety and its value to economic operations and employee morale. (3 Lec., 3 Lab.)

**(CMT) 220 Advanced Surveying and Measurement (4)**

Prerequisites: Mathematics 196 and Construction Management Technology 136 or the equivalent. This course reviews the basic principles of surveying and measurements. It covers advanced principles and theories of physical measurements of spatial quantities, theory of errors and error adjustment techniques, the use of modern instruments and measurement systems, vertical and horizontal control measurements and an introduction to land surveying law, application of polynomial curves and polar equations to the vertical and horizontal alignment of route systems. Field problems put the theory into practice. Laboratory fee. (3 Lec., 5 Lab.)

**(CMT) 230 Quality Control And Cost Control (4)**

Prerequisites: Construction Management Technology 121, 122 and 234, or demonstrated competence approved by the instructor. The different procedures for scheduling construction projects are discussed then applied in lab exercises. Scheduling procedures to be explored include bar charts, precedence and arrow diagrams and the critical path method of scheduling. Methods and techniques for evaluating construction budget estimates, locating and correcting budget overruns are discussed and then implemented in various lab exercises as a means of cost and quality control. Laboratory fee. (3 Lec., 3 Lab.)

**(CMT) 231 Construction Contracts And Specifications (3)**

Prerequisite: Construction Management and Technology 121, 122 and 123 or demonstrated competence approved by the instructor. Written construction communications are the focus of this course. Included is the study of construction contracts and specifications. Their preparation, implementation, modification, administration, and legal pitfalls are covered. Laboratory fee. (2 Lec., 3 Lab.)



### **(CMT) 234 Estimating (4)**

Prerequisite: Credit or concurrent enrollment in Construction Management and Technology 123 and 231 or demonstrated competence approved by the instructor. Construction estimation is presented: Topics include quality surveying and the interpretation and uses of bid documents. Students learn to compute and assemble labor and material costs, unit and lump sum costs, and preliminary and final estimates. Laboratory fee. (2 Lec., 6 Lab.)

### **(CMT) 236 Building Codes And Safety (4)**

This course presents construction methods in relation to zoning and building codes and occupational safety standards and regulations. The interrelationships among federal, state and municipal authorities and construction operations are examined in detail. Emphasis is placed on the development and implementation of effective loss and accident prevention planning. (3 Lec., 3 Lab.)

### **(CMT) 237 Soils, Foundations And Reinforced Concrete (4)**

Prerequisite: Construction Management and Technology 121 and 122; Engineering 289 desirable. Soil characteristics for a good foundation are studied. Topics include soil sampling and testing. Concrete design, placement, and testing are also covered. Some study of asphaltic pavements is included. Laboratory fee. (3 Lec., 3 Lab.)

### **(CMT) 238 Construction Management II (4)**

Prerequisite: Construction Management and Technology 138. This course examines project planning and development. Topics include feasibility studies, financing, planning, programming, design, and construction. Office engineering techniques and problem-solving are covered. (3 Lec., 3 Lab.)

## **COOPERATIVE WORK EXPERIENCE**

### **701, 711, 801, 811 Cooperative Work Experience (1)**

(1 Lec., 5 Lab.)

### **702, 712, 802, 812 Cooperative Work Experience (2)**

(1 Lec., 10 Lab.)

### **703, 713, 803, 813 Cooperative Work Experience (3)**

(1 Lec., 15 Lab.)

### **704, 714, 804, 814 Cooperative Work Experience (4)**

(1 Lec., 20 Lab.)

Prerequisite: Completion of two courses in the student's major or instructor or coordinator approval. These courses consist of seminars and on-the-job experience. Theory and instruction received in the courses of the student's major curricula are applied to the job. Students are placed in work-study positions in their technical occupational fields. Their skills and abilities to function successfully in their respective occupations are tested. These work internship courses are guided by learning objectives composed at the beginning of each semester by the students, their instructors or coordinators, and their supervisors at work. The instructors determine if the learning objectives are valid and give approval for credit.

## **DANCE**

### **(DAN) 116 Rehearsal And Performance (1)**

This course supplements beginning dance technique classes. Basic concepts of approaching work on the concert stage - stage directions, stage areas, and the craft involved in rehearsing and performing are emphasized. This course may be repeated for credit. (4 Lab.)

### **(DAN) 155 Jazz I (1)**

The basic skills of jazz dance are introduced. Emphasis is on technique and development, rhythm awareness, jazz styles, and rhythmic combinations of movement. Laboratory fee. (3 Lab.)

### **(DAN) 156 Jazz II (1)**

Prerequisite: Dance 155 or demonstrated competence approved by the instructor. Work on skills and style in jazz dance is continued. Technical skills, combinations of steps and skills into dance patterns, and exploration of composition in jazz form are emphasized. Laboratory fee. (3 Lab.)

### **(DAN) 161 Beginning Ballet 1 (2)**

This course explores basic ballet techniques. Included are posture, balance, coordination, rhythm, and flow of physical energy through the art form. Theory, terminology, ballet history, and current attitudes and events in ballet are also studied. Barre exercises and centre floor combinations are given. Laboratory fee. (1 Lec., 3 Lab.)

### **(DAN) 163 Beginning Ballet II (2)**

Prerequisite: Dance 161. This course is a continuation of Dance 161. Emphasis is on expansion of combinations at the barre. Connecting steps learned at centre are added. Jumps and pirouettes are introduced. Laboratory fee. (1 Lec., 3 Lab.)

### **(DAN) 165 Beginning Contemporary Dance I (2)**

This course explores basic contemporary techniques. Emphasis is on technique development, and familiarity with contemporary meters and rhythms. An awareness of major influences on concert dance is developed. Laboratory fee. (1 Lec., 3 Lab.)

### **(DAN) 166 Beginning Contemporary Dance II (2)**

Prerequisite: Dance 165. This course continues and further develops an exploration of Dance 165. Laboratory fee. (1 Lec., 3 Lab.)

### **(DAN) 200 Rehearsal And Performance (1)**

Prerequisite: Dance 116 or demonstrated competence approved by the instructor. This course supplements intermediate dance technique classes. It is a continuation of Dance 116 with emphasis on more advanced concepts as they apply to actual rehearsals and performances. This course may be repeated for credit. (4 Lab.)

### **(DAN) 255 Jazz III (1)**

Prerequisite: Dance 156. This course consists of the development of proper performance framing. Complex jazz rhythms, turns, jumps, and intricate elements of choreography are introduced. Laboratory fee. (3 Lab.)

**(DAN) 256 Jazz IV (1)**

Prerequisite: Dance 255. This course is a further exploration of Dance 255. This course may be repeated for credit. Laboratory fee. (3 Lab.)

**(DAN) 258 Intermediate Ballet I (2)**

Prerequisite: Dance 163. The development of ballet techniques is continued. More complicated exercises at the barre and centre floor are included. Emphasis is on long series of movements, adagio and jumps. Precision of movement is stressed. Laboratory fee. (1 Lec., 3 Lab.)

**(DAN) 260 Intermediate Ballet II (2)**

Prerequisite: Dance 258. This course begins pointe work for women. Specialized beats and tour are begun for men. Individual proficiency and technical virtuosity are developed. This course may be repeated for credit. Laboratory fee. (1 Lec., 3 Lab.)

**(DAN) 265 Intermediate Contemporary Dance I (2)**

Prerequisite: Dance 166. This course consists of the development of complex falls, combinations, phrasing, and dramatic emphasis. Laboratory fee. (1 Lec., 3 Lab.)

**(DAN) 266 Intermediate Contemporary Dance II (2)**

Prerequisite: Dance 265. This course is a further exploration of Dance 265. This course may be repeated for credit. Laboratory fee. (1 Lec., 3 Lab.)

## DEVELOPMENTAL COMMUNICATIONS

**(DC) 095 Communication Skills (3)**

This course focuses on strengthening language communications. Topics include grammar, paragraph structure, reading skills, and oral communication. Emphasis is on individual testing and needs. (3 Lec.)

**(DC) 120 Communication Skills (3)**

This course is for students with significant communication problems. It is organized around skill development, and students may enroll at any time (not just at the beginning of a semester) upon the referral of an instructor. Emphasis is on individual needs and personalized programs. Special attention is given to oral language. Contacts are made with other departments to provide other ways of learning for the students. (2 Lec., 2 Lab.)

## DEVELOPMENTAL LEARNING

**(DL) 094 Learning Skills Improvement (1)**

Learning skills are strengthened. Emphasis is on individual needs and personalized programs. This course may be repeated for a maximum of three credits. (2 Lab.)

## DEVELOPMENTAL MATHEMATICS

**(DM) Developmental Mathematics**

Developmental Mathematics courses offer a review of mathematical skills. Developmental Mathematics 093 satisfies prerequisites for Mathematics 101, 111, 115, 116, and 117. Developmental Mathematics 091 satisfies prerequisites for Mathematics 130 and 195.

**(DM) 060 Basic Mathematics I (1)**

This course is designed to give an understanding of fundamental operations. Selected topics include whole numbers, decimals, and ratio and proportions. (1 Lec.)

**(DM) 061 Basic Mathematics II (1)**

This course is designed to give an understanding of fractions. Selected topics include primes, factors, least common multiples, percents, and basic operations with fractions. (1 Lec.)

**(DM) 062 Pre Business (1)**

This course is designed to introduce students to business mathematics. Selected topics include discounts and commissions, interest, metric and English measuring systems, areas, and volumes. (1 Lec.)

**(DM) 070 Elementary Algebra I (1)**

Prerequisites: Developmental Mathematics 090, 063 or equivalent. This course is an introduction to algebra and includes selected topics such as basic principles and operations of sets, counting numbers, and integers. (1 Lec.)

**(DM) 071 Elementary Algebra II (1)**

Prerequisite: Developmental Mathematics 070 or equivalent. This course includes selected topics such as rational numbers, algebraic polynomials, factoring, and algebraic fractions. (1 Lec.)

**(DM) 072 Elementary Algebra III (1)**

Prerequisite: Developmental Mathematics 071 or equivalent. This course includes selected topics such as fractional and quadratic equations, quadratic equations with irrational solutions, and systems of equations involving two variables. (1 Lec.)

**(DM) 090 Pre Algebra Mathematics (3)**

This course is designed to develop an understanding of fundamental operations using whole numbers, fractions, decimals, and percentages and to strengthen basic skills in mathematics. The course is planned primarily for students who need to review basic mathematical processes. This is the first three-hour course in the developmental mathematics sequence. (3 Lec.)

**(DM) 091 Elementary Algebra (3)**

Prerequisite: Developmental Mathematics 090 or an appropriate assessment test score. This is a course in introductory algebra which includes operations on real numbers, polynomials, special products and factoring, rational expressions, and linear equations and inequalities. Also covered are graphs, systems of linear equations, exponents, roots, radicals, and quadratic equations. (3 Lec.)

**(DM) 093 Intermediate Algebra (3)**

Prerequisite: One year of high school algebra and an appropriate assessment test score or Developmental Mathematics 091. This course includes further development of the terminology of sets, operations on sets, properties of real numbers, polynomials, rational expressions, linear equations and inequalities, the straight line, systems of linear equations, exponents, roots, and radicals. Also covered are products and factoring, quadratic equations and inequalities, absolute value equations and inequalities, relations, functions, and graphs. (3 Lec.)

## DEVELOPMENTAL READING

Students can improve their performance in English courses by enrolling in Developmental Reading courses. Developmental Reading 090 and 091 are valuable skill development courses for English 101. Reading 101 is especially helpful in courses that require a considerable amount of college-level reading. See the catalog descriptions in reading for full course content.

### **(DR) 090 Basic Reading Skills (3)**

Development of comprehension and vocabulary skills, based on individual needs, is the focus of this course. Basic study skills are introduced. A score of 12 to 19 on the Descriptive Test of Language Skills Reading Comprehension Test would indicate that a student has the reading skills needed for this course. (3 Lec.)

### **(DR) 091 Preparation for College Reading (3)**

This course emphasizes development of comprehension and vocabulary skills, according to individual needs. Also included are critical reading, rate flexibility, and basic study skills. A score of 20 to 27 on the Descriptive Test of Language Skills Reading Comprehension Test would indicate that a student has the reading skills needed for this course. (3 Lec.)

## DEVELOPMENTAL WRITING

### **(DW) Developmental Writing**

Students can improve their writing skills by taking Developmental Writing. These courses are offered for one to three hours of credit.

### **(DW) 090 Developmental Writing (3)**

This course introduces the writing process. Course topics include practice in getting ideas, writing and rewriting, making improvements, and correcting mistakes. A learning lab is available to provide additional assistance. (3 Lec.)

### **(DW) 091 Developmental Writing (3)**

This course focuses on the writing process. Course topics include inventing, drafting, revising and editing multiparagraph papers. Building reading skills, using resources, developing thinking skills and improving attitudes toward writing comprise other course topics. A learning lab is available to provide additional assistance. (3 Lec.)

### **(DW) 092 Developmental Writing (1)**

This course is a writing workshop designed to support students enrolled in English 101 and other courses requiring writing. (3 Lab.)

## DRAFTING & COMPUTER AIDED DESIGN

### **(DFT) 182 Technician Drafting (2)**

This course focuses on the reading and interpretation of engineering drawings. Topics include multiview drawings, pictorial drawings, dimensioning, measurement with scales, schematic diagrams, and printed circuit boards. Laboratory fee. (1 Lec., 3 Lab.)

### **(DFT) 183 Basic Drafting (4)**

This course is for students who have had little or no previous experience in drafting. Skill in orthographic, axonometric, and oblique sketching and drawing is developed. Topics include lettering, applied geometry, fasteners, sectioning, tolerancing, and auxiliaries. Experience is provided in using handbooks and other resource materials and in developing design skills. U.S.A.S.I., gov-

## ECONOMICS

### **(ECO) 105 Economics Of Contemporary Social Issues (3)**

This course is a study of the economics of current social issues and public policy, including such matters as anti-trust policy, business deregulation, social security, wage and price controls, budget deficits, economic growth, medical care, nuclear power, farm policy, labor unions, foreign trade, and economic stabilization. This course is not intended for economics or business administration majors. (3 Lec.)

### **(ECO) 201 Principles of Economics I (3)**

Sophomore standing is recommended. The principles of macroeconomics are presented. Topics include economic organization, national income determination, money and banking, monetary and fiscal policy, macroeconomic applications of international trade and finance, economic fluctuations, and growth. (This course is offered on campus and may be offered via television.) (3 Lec.)

### **(ECO) 202 Principles of Economics II (3)**

Prerequisite: Economics 201 or demonstrated competence approved by the instructor. The principles of microeconomics are presented. Topics include the theory of demand, supply, and price of factors. Income distribution and theory of the firm are also included. Emphasis is given to microeconomic applications of international trade and finance as well as other contemporary microeconomic problems. (3 Lec.)

## EDUCATIONAL PERSONNEL

### **(EP) 129 Communication Skills For Educational Paraprofessional (3)**

This course surveys methods for developing the language skills of students. Topics include creative writing, story telling, appreciation of literature, tutoring, cursive and manuscript handwriting, and listening skills. (3 Lec.)

### **(EP) 131 Introduction to Educational Processes I (3)**

The role of educational support personnel is defined within the framework of contemporary public school organization. Legal guidelines and procedures of local, state, and federal agencies governing public education are described. Special attention is given to the development of effective interpersonal relationships with emphasis on application to the public school setting. (3 Lec.)

### **(EP) 133 Introduction to Educational Processes II (3)**

This course focuses on developing a wholesome learning environment in the classroom. The facilitation of learning in small groups is emphasized. Factors affecting the growth and development of students in a pluralistic society are covered. The responsibilities of educational personnel are covered. (3 Lec.)

**(EP) 134 Introduction To Media (3)**

Basic skills for preparing graphic and projected educational materials are developed. The operation of selected audiovisual equipment is also included. (2 Lec., 2 Lab.)

**(EP) 135 Arts And Crafts For Educational Paraprofessionals (3)**

Creative art materials and methods used in programs for children are presented. Opportunities are provided for the use of these materials. Classroom displays, charts, poster art, and bulletin boards are included, emphasis is on creating an attractive environment in the classroom. (3 Lec.)

**(EP) 140 Child Language Development (3)**

This course will cover information on language development for the bilingual and monolingual student with emphasis on cross-cultural awareness and second language acquisition. The role of oral language development will be studied with regard to its application for both ESL and bilingual methods and techniques. (3 Lec.)

**(EP) 143 Bilingual Education: Philosophy, Techniques and Materials (3)**

This course presents the core techniques in bilingual education. Topics included are: awareness of cultural backgrounds, teaching techniques, material development, historical and philosophical concepts of bilingual/bicultural education, and Spanish technical vocabulary in the content areas. (3 Lec.)

**(EP) 241 Techniques for Teaching English to Non-Native Speakers (3)**

This course is a practical application of second language learning theory as it relates to the non-English speaking student. The process, contents and management of second language teaching will be discussed, demonstrated and practiced. (3 Lec.)

**(EP) 245 Diversified Studies (1)**

This course provides for specialized study by educational personnel. Possible areas for study are special education, bilingualism, child development, educational media, library, physical education, counseling, and health services. Other areas may be approved by the instructor. This course may be repeated for credit, when the topics vary, up to a maximum of three credit hours. (1 Lec.)

**(EP) 246 Diversified Studies (2)**

This course provides for specialized study by educational personnel. Possible areas for study are special education, bilingualism, child development, educational media, library, physical education, counseling, and health services. Other areas may be approved by the instructor. This course may be repeated for credit, when the topics vary, up to a maximum of four credit hours. (2 Lec.)

**(EP) 247 Diversified Studies (3)**

This course provides for specialized study by educational personnel. Possible areas for study are special education, bilingualism, child development, educational media, library, physical education, counseling, and health services. Other areas may be approved by the instructor. This course may be repeated for credit, when the topics vary, up to a maximum of six credit hours. (3 Lec.)

**(EP) 249 The Exceptional Child (3)**

This course is designed as a comprehensive survey of the field of exceptionality with emphasis on the educational, sociological, and psychological effects of handicapping conditions on children. (3 Lec.)

**(EP) 701, 711, 801 Cooperative Work Experience (1)**

(See Cooperative Work Experience). (1 Lec., 5 Lab.)

**(EP) 702, 712, 802, 812 Cooperative Work Experience (2)**

(See Cooperative Work Experience). (1 Lec., 10 Lab.)

**(EP) 703, 713, 803, 813 Cooperative Work Experience (3)**

(See Cooperative Work Experience). (1 Lec., 15 Lab.)

**(EP) 704, 714, 804, 814 Cooperative Work Experience (4)**

(See Cooperative Work Experience). (1 Lec., 20 Lab.)

## ELECTRONICS TECHNOLOGY

**(ET) 190 DC Circuits and Electrical Measurements (4)**

The mathematical theory of direct current circuits is presented in combination with laboratory fundamentals. Emphasis is on elementary principles of magnetism, electric concepts and units, diagrams, and resistance. Electromagnetism, series and parallel circuits, simple meter circuits, conductors, and insulators are also stressed. Laboratory fee. (3 Lec., 3 Lab.)

**(ET) 191 A.C. Circuits (4)**

Prerequisite: Electronics Technology 190 and credit or concurrent enrollment in Mathematics 195 or the equivalent. This course covers the fundamental theories of alternating current. The theories are applied in various circuits. Included are laboratory experiments on power factor, sine wave analysis, resonant circuits, capacitance, inductance, Q of coils, magnetism, and resistance. Laboratory fee. (3 Lec., 3 Lab.)

**(ET) 193 Active Devices (4)**

Prerequisites: Electronics Technology 190 and credit or concurrent enrollment in Electronics Technology 191. Semiconductors (active devices) are the focus of this course. Topics include composition, parameters, linear and non-linear characteristics, in-circuit action, amplifiers, rectifiers, and switching. Laboratory fee. (3 Lec., 3 Lab.)

## ENGINEERING

**(EGR) 101 Engineering Analysis (2)**

Prerequisite: Two years of high school algebra or Developmental Mathematics 093 or demonstrated competence approved by the instructor. A mathematical scheme of analysis appropriate in engineering design is presented. Topics include natural quantities, vectors, Newton's laws, work, energy, first law of thermodynamics, information, dimensional analysis, physical modeling, compatibility, continuity, and interpretation of analytic results. Computer programming is taught and used in processing information for analysis. (2 Lec.)

**(EGR) 105 Engineering Design Graphics (3)**

Graphic fundamentals are presented for engineering communications and engineering design. A rational engineering design procedure is taught and computer aided design is introduced. Graphical topics include geometric construction, geometric modeling, orthographic drawing system, auxiliaries, sections, dimensions and tolerances, graphical analysis, pictorial and working drawings. Laboratory Fee. (2 Lec., 4 Lab.)

**(EGR) 106 Descriptive Geometry (3)**

Prerequisite: Drafting 183 or Engineering 105. This course provides training in the visualization of three dimensional structures. Emphasis is on accurately representing these structures in drawings by analyzing the true relationship between points, lines, and planes. Included are the generation and classification of lines, surfaces, intersections, developments, auxiliaries, and revolutions. Laboratory fee. (2 Lec., 4 Lab.)

**(EGR) 107 Engineering Mechanics I (3)**

Prerequisite: Credit or concurrent enrollment in Mathematics 124. This course is a study of the statics of particles and rigid bodies with vector mathematics in three dimensional space. Topics include the equilibrium of forces and force systems, resultants, free body diagrams, friction, centroids and moments of inertia, virtual works, and potential energy. Distributed forces, centers of gravity, and analysis of structures, beams, and cables are also presented. (3 Lec.)

**(EGR) 108 Computer Methods In Engineering (3)**

Prerequisite: Credit or concurrent enrollment in Mathematics 124. Fundamental methods of numerical analysis with applications by computer programming are presented. Topics include computer programming, recursion formulas, successive approximations, error analysis, non-linear equations, and systems of linear equations and matrix methods. Probabilistic models, interpolation, determination of parameters, numerical integration, and solution of ordinary differential equations are also covered. (3 Lec.)

**(EGR) 186 Manufacturing Processes (2)**

This course introduces the student enrolled in technical programs to the many steps involved in manufacturing a product. This is accomplished by involving the class in producing a device with precision. The student gains practical experience with working drawings, a variety of machine tools and the assembly of components. The student is made aware of the factors involved in selecting materials and economical utilization of materials. Laboratory fee. (1 Lec., 2 Lab.)

**(EGR) 187 Manufacturing Processes (2)**

Prerequisite: Engineering 186. This course is a continuing study of the metal-working processes with emphasis on automation, programming and operation of CNC machines. Laboratory fee. (1 Lec., 2 Lab.)

**(EGR) 201 Engineering Mechanics II (3)**

Prerequisites: Engineering 107 and credit or concurrent enrollment in Mathematics 225. This is a study of dynamics. Particles and rigid bodies are examined as they interact with applied forces. Both constrained and general motions are included. Space, time, mass, velocity, acceleration, work and energy, impulse, and momentum are covered. (3 Lec.)

**(EGR) 202 Engineering Mechanics Of Materials (3)**

Prerequisites: Engineering 107 and credit or concurrent enrollment in Mathematics 225. Simple structural elements are studied. Emphasis is on forces, deformation, and material properties. The concepts of stress, strain, and elastic properties are presented. Analysis of thin walled vessels, members loaded in tension, torsion, bending and shear, combined loadings, and stability conditions are included. Behavioral phenomena such as fracture, fatigue, and creep are introduced. (3 Lec.)

**(EGR) 204 Electrical Systems Analysis (3)**

Prerequisite: Credit or concurrent enrollment in Mathematics 225. Electrical science is introduced. Included are fundamental electrical systems and signals. Basic concepts of electricity and magnetism with mathematical representation and computation are also covered. (3 Lec.)

**(EGR) 205 Plane Surveying (3)**

Prerequisites: Mathematics 102 or 196 and Engineering 105 or Drafting 183. This course focuses on plane surveying. Topics include surveying instruments, basic measuring procedures, vertical and horizontal control, error analysis, and computations. Traverse, triangulation, route alignments, centerlines, profiles, mapping, route surveying, and land surveying are also included. Laboratory fee. (2 Lec., 4 Lab.)

**(EGR) 206 Electrical Engineering Laboratory (1)**

Prerequisite: Credit or concurrent enrollment in Engineering 204. Various instruments are studied and used. These include the cathode ray oscilloscope, ammeters, voltmeters, ohmmeters, power supplies, signal generators, and bridges. Basic network laws, steady state and transient responses, and diode characteristics and applications are demonstrated. Computer simulation is introduced. Laboratory fee. (3 Lab.)

**(EGR) 289 Mechanics of Structures (3)**

Prerequisite: Mathematics 195. This is a basic course in engineering mechanics for technology students. Topics include force systems, equilibrium, moments, centroids, stresses and strains. Methods analysis and design of bolted and welded joints, trusses, beams, and columns are introduced. (3 Lec.)

# ENGINEERING TECHNOLOGY

## **(EGT) 124 Industrial Organizations (2)**

This course presents an overall view of the manufacturing company. Topics include process planning, costs and budgets, contracts, marketing, economics, and personnel. (2 Lec.)

## **(EGT) 141 Basic Hydraulics And Fluid Mechanics (4)**

Principles of hydraulics and fluid mechanics are examined. Hydraulic pumps, motors, cylinders, and valves are studied. Emphasis is on the application of formulas related to the properties of fluids and the laws which govern fluid flow. Various hydraulic components are tested, and basic hydraulic circuits are set up and evaluated. (3 Lec., 3 Lab.)

## **(EGT) 143 Technical Programming (4)**

Prerequisite: Mathematics 195 or demonstrated competence approved by the instructor. This course introduces the engineering technician to the world of technology. Skills are developed in using hand calculators and computers to solve engineering problems. Basic computer programming techniques are introduced in the microcomputer laboratory using high-level languages such as BASIC. Laboratory fee. (3 Lec., 3 Lab.)

## **(EGT) 144 Instrumentation and Testing (4)**

Prerequisite: Credit or concurrent enrollment in Electronics Technology 191. Industrial instrumentation and testing are introduced. The characteristics of various instruments are emphasized. Included are characteristics of basic AC and DC measurement meters, digital meters, impedance bridges, oscilloscopes, and electronic counters. Analog-to-digital and digital-to-analog measuring systems are introduced. Laboratory fee. (3 Lec., 3 Lab.)

## **(EGT) 222 Fundamentals of Pneumatics (3)**

Pneumatic power units, pneumatic controls, and pneumatic cylinders are studied. Both construction and operation are covered. Pneumatic circuits, power operated holding devices, safety circuits, and remote controlled circuits are presented. Manual, mechanical, pilot, and solenoid operated circuits are all included. Laboratory fee. (2 Lec., 2 Lab.)

## **(EGT) 225 Advanced Fluid Power Systems (4)**

This course examines fluid power systems. Included is the design of hydraulic and pneumatic systems. Circuit calculations are made for force, torque, power, speed, fluid pressure, flow rate, and velocity. Emphasis is on the selection of pumps, cylinders, valves, motors, compressors, filters, and other fluid power components. The set-up, operation, and testing of various fluid power circuits are covered. Laboratory fee. (3 Lec., 3 Lab.)

## **(EGT) 228 Amplifier And Analog Control Circuits (4)**

Prerequisite: Electronics Technology 193. This course treats analog circuits including conventional amplifiers and operational amplifiers. The use of these circuits in controls, sensing, and testing is stressed. The laboratory emphasis is on application and characteristics of these circuits as applied to electromechanical controls. Reliance on pre-assembled or commercially available circuits is emphasized, especially semiconductor and integrated circuits. Laboratory fee. (3 Lec. 3 Lab.)

## **(EGT) 230 Digital Machine Control (4)**

Prerequisite: Electronics Technology 191. This course emphasizes electromechanical controls, solid state industrial controls, and programmable controllers. Control components, control and power circuit diagrams, manual and automatic AC and DC machine control, solid state logic elements and programmable controllers are studied. Laboratory fee. (3 Lec., 3 Lab.)

## **(EGT) 232 Applied Mechanics (4)**

Prerequisite: Mathematics 196 or equivalent. The theory and applications of mechanics are presented. Basic static and dynamic concepts are included. Topics include forces, vectors, equilibrium, moments, friction, moment of inertia, rectilinear and angular motion, work, energy and power. The construction, testing and analysis of linkage and drive elements in laboratory supports lecture material on related topics. (3 Lec., 3 Lab.)

## **(EGT) 233 Electrical Machinery (3)**

Prerequisite: Electronics Technology 191 or concurrent enrollment in Electronics Technology 191. The theory and function of power electricity, including AC and DC machines. Electrical and mechanical aspects are stressed. The laboratory provides hands-on experience in operation of machinery, quantitative analysis of performance characteristics, electrical measurements on power circuits and demonstration of principles discussed in class. Safety practices are stressed. Laboratory fee. (2 Lec., 3 Lab.)

## **(EGT) 239 Principles Of Microcomputer Control (4)**

Prerequisite: Electro-Mechanical Technology 242. The control of automated industrial systems with digital elements as subsystems is studied. Included are the functions of the various control elements and their interface with other components. The conversion of control information between analog and binary forms is examined. The use and implementation of logical decision elements are covered. Emphasis is on the operation and function of microcomputers in modern control systems. Laboratory fee. (3 Lec., 3 Lab.)

## **(EGT) 242 Digital Control Circuits (4)**

Prerequisite: Electronics Technology 193 or equivalent. This course covers number systems used in computer systems. Alphanumeric and interchange codes are included. Binary arithmetic, including octal, hexadecimal and BCD, is covered with logic functions and Boolean algebra presented at a conceptual level. Logic gates, flip-flops, registers, encoders, decoders, counters, timing circuits, ALU's and memory units are included. Lecture material is supported by laboratory work. Laboratory fee. (3 Lec., 3 Lab.)

**(EGT) 243 Robotics I (3)**

This course provides an introduction to robot technology. The basic components and systems used in industrial robots are studied. The set-up and operation of robots and associated automatic control systems are emphasized. Laboratory fee. (2 Lec., 3 Lab.)

**(EGT) 247 Robotics II (3)**

Prerequisite: Engineering Technology 243 or demonstrated competence approved by the instructor. This course includes a study of robot and effectors, sensors, programmable controllers, power systems and software. The development of workcells and complete robotic systems is emphasized. Laboratory fee. (2 Lec., 3 Lab.)

**(EGT) 251 Advanced Robotics and Automated Systems (3)**

Prerequisite: Engineering Technology 247 or demonstrated competence approved by the instructor. In this course, the student will interface industrial robots with programmable controllers and other types of equipment used in automated manufacturing. An introduction to Computer Integrated Manufacturing and Artificial Intelligence related to robotics is included. Hands-on laboratory work is emphasized. Laboratory fee. (2 Lec., 3 Lab.)

**(EGT) 268 Microprocessor Interfacing and Troubleshooting (4)**

Prerequisite: Engineering Technology 239. This course is a study of microcomputer hardware interface concepts and necessary input/output software. An overall system approach is used to learn practical troubleshooting techniques that are applicable to any microprocessor system. Actual troubleshooting tools are used. Laboratory fee. (3 Lec., 3 Lab.)

**(EGT) 803, 813 Cooperative Work Experience (3)**

(See Cooperative Work Experience). (1 Lec., 15 Lab.)


**(EGT) 804, 814 Cooperative Work Experience (4)**

(See Cooperative Work Experience). (1 Lec., 20 Lab.)


**ENGLISH****English**

(Also see Developmental Reading and Developmental Writing.) Additional instruction in writing and reading is available through the Learning Skills Center.

**(ENG) 101 Composition I (3)**

Prerequisite: An appropriate assessment test score (ACT, DCCCD test, or SAT). This course focuses on student writing. It emphasizes reading and analytical thinking and introduces research skills. Students practice writing for a variety of audiences and purposes. (This course is offered on campus and may be offered via television.)  (3 Lec.)

**(ENG) 102 Composition II (3)**

Prerequisite: English 101. In this course students refine the writing, research, and reading skills introduced in English 101. A related goal is the development of critical thinking skills. Writing assignments emphasize argumentation and persuasion. Students will also write a formal research paper. (This course is offered on campus and may be offered via television.)  (3 Lec.)

**English In The Sophomore Year**

English 201, 202, 203, 204, 205, 206, 215 and 216 are independent units of three credit hours each, from which any combination of two will be selected to satisfy degree requirements in sophomore English.

**(ENG) 201 British Literature (3)**

Prerequisite: English 102. This course includes significant works of British writers from the Old English Period through the 18th century. (3 Lec.)

**(ENG) 202 British Literature (3)**

Prerequisite: English 102. This course includes significant works of British writers from the Romantic Period to the present. (3 Lec.)

**(ENG) 203 World Literature (3)**

Prerequisite: English 102. This course includes significant works of Continental Europe and may include works from other cultures. It covers the Ancient World through the Renaissance (3 Lec.)

**(ENG) 204 World Literature (3)**

Prerequisite: English 102. This course includes significant works of Continental Europe and may include selected works of other cultures from the Renaissance to the present. (3 Lec.)

**(ENG) 205 American Literature (3)**

Prerequisite: English 102. This course includes significant works of American writers from the Colonial through the Romantic Period. (3 Lec.)

**(ENG) 206 American Literature (3)**

Prerequisite: English 102. This course includes significant works of American writers from the Realistic Period to the present. (3 Lec.)

**(ENG) 209 Creative Writing (3)**

Prerequisite: English 102. The writing of fiction is the focus of this course. Included are the short story, poetry, and short drama. (3 Lec.)

**(ENG) 210 Technical Writing (3)**

Prerequisite: English 101 and English 102. The technical style of writing is introduced. Emphasis is on the writing of technical papers, reports, proposals, progress reports, and descriptions. (3 Lec.)

**(ENG) 215 Studies In Literature (3)**

Prerequisite: English 102. This course includes selections in literature organized by genre, period, or geographical region. Course descriptions are available each semester prior to registration. This course may be repeated for credit. (3 Lec.)

**(ENG) 216 Studies in Literature (3)**

Prerequisite: English 102. This course includes selections in literature organized by theme, interdisciplinary content or major author. Course titles and descriptions are available each semester prior to registration. This course may be repeated for credit. (3 Lec.)



## ENGLISH-AS-A-SECOND LANGUAGE

The English-as-a-Second Language (ESL) credit curriculum is designed to develop students' language proficiency in the areas of listening, speaking, reading, and writing. The plan of study consists of thirteen courses divided into three tracks and four levels (Listening-Conversation, Reading, and Writing). The student enters the program by taking the Michigan Test of English Language Proficiency (MTELP). (The Michigan Test of Aural Comprehension, the MTAC, is used *optionally* on each campus.) The credit ESL curriculum is designed to interface both with Continuing Education ESL programs and with Developmental Studies programs on each campus.

### ESL 031-034 (Listening-Conversation)

These courses prepare students to communicate orally in English. They can (but do not necessarily) precede the Reading (ESL 041-044) and Writing (ESL 051-054, ESL 063) courses.

### ESL 041-044 (Reading)

These courses prepare a student for reading English in daily life and for reading college textbooks. All four ESL-Reading (ESL 041-044) courses precede the Developmental Reading courses in level of difficulty. Therefore, ESL students needing additional academic preparation should enroll for regular Developmental Reading courses upon completion of the ESL-Reading courses.

### ESL 051-054/ESL 063 (Writing-Grammar)

These courses are designed to prepare a student for English 101. The courses involve three courses in syntax (grammar) development (ESL 051, ESL 052, ESL 063) and two courses in principles of composition (ESL 053 and ESL 054). Following these courses, each ESL student will be given the District Assessment Battery to determine readiness for English 101, Developmental Writing, or a combination of both, based on the test scores.

### (ESL) 031 ESL Conversation — Listening (3)

This course is designed to develop academic and social skills needed to speak and understand English more effectively in school, in the market place, and in social situations. (3 Lec.)

### (ESL) 032 ESL Conversation—Listening (3)

This course strengthens competencies initiated in ESL 031. Special emphasis is placed on academic listening and speaking skills. (3 Lec.)

### (ESL) 033 ESL Conversation—Listening (3)

This course is designed to improve formal and informal conversation skills including listening comprehension, note-taking, oral reporting, and class discussion techniques. (3 Lec.)

### (ESL) 034 ESL Conversation—Listening (3)

This course develops academic, professional, and social aural/oral skills. Emphasis is placed on analysis and critical thinking in English. (3 Lec.)

### (ESL) 041 ESL Reading (3)

This course focuses on language development through reading activities. It includes reading comprehension, vocabulary, and word recognition. (3 Lec.)

## INGLES-COMO-SEGUNDO-IDIOMA

El programa de crédito de *Inglés-Como-Segundo-Idioma* (ESL) está diseñado para proporcionar al estudiante la habilidad de ser proficiente en el desarrollo del idioma inglés en las áreas de escuchar, conversar, leer, y escribir. El plan de estudio consiste de trece cursos divididos en tres secciones y cuatro niveles: escuchar-conversar, leer, y escribir. El programa de ESL se entrelaza con los programas de Educación Continua (Continuing Education) y los de Estudios de Preparación (Developmental Studies).

### ESL 031-034 (Escuchar y Conversar)

Estos cursos preparan al estudiante a comunicarse oralmente en inglés. Pueden (pero no necesariamente) preceder la clase de Lectura (ESL 041-044) y Escritura (ESL 051-054, ESL 063).

### ESL 041-044 (Lectura)

Estos cursos preparan al estudiante en la lectura del inglés en la vida diaria y a leer libros de texto al nivel colegial. Los cuatro cursos de Lectura (ESL 041-044) preceden los cursos Preparatorios de Lectura (Developmental Reading) en los diferentes grados de dificultad. Por lo tanto los estudiantes que necesiten preparación académica adicional se les recomienda matricularse en cursos regulares de Preparación de la Lectura (Developmental Reading) cuando terminen los cursos de Lectura de ESL (ESL-Reading).

### ESL 051-054/ESL 063 (Escritura-Gramática)

Estos cursos están diseñados para preparar al estudiante para pasar a la clase de Inglés 101 (English 101). Estas clases tienen tres cursos de desarrollo en la sintaxis (ESL 051, ESL 052, ESL 063) y dos cursos en Principios de la Composición (ESL 053 y ESL 054). Terminando estas clases, el estudiante tomará una evaluación, para determinar si está preparado Para la clase de Inglés 101 (English 101), Desarrollo de la Escritura (Developmental Writing) o una combinación de ambas, basado en los resultados de la evaluación.

### (ESL) 042 ESL Reading (3)

This course is designed for students needing more practice in the skills and information introduced in ESL 041. Topics include reading comprehension, vocabulary development, word recognition, language and culture. (3 Lec.)

### (ESL) 043 ESL Reading (3)

This course covers pre-reading strategy, specific reading comprehension skills, critical reading skills, vocabulary development, idioms, and use of the dictionary and library. (3 Lec.)

### (ESL) 044 ESL Reading (3)

This course is designed for students needing more practice in the skills and information introduced in ESL 043. Topics include pre-reading strategies, specific reading comprehension skills, critical reading skills, vocabulary development, idioms, and use of the dictionary and library. (3 Lec.)

### (ESL) 051 ESL Writing — Grammar (3)

This course emphasizes correct formation of basic sentences with particular attention to specific grammatical points. These basic sentence structures will also be reinforced in writing exercises. (3 Lec.)



**(ESL) 052 ESL Writing—Grammar (3)**

This course strengthens English grammar skills introduced in ESL 051. Students will learn to produce compound and complex sentence structures. (3 Lec.)

**(ESL) 053 ESL Writing—Grammar (3)**

Prerequisite: Concurrent enrollment in ESL 063 is recommended. This course introduces principles of composition and emphasizes the processes of paragraph formation. (3 Lec.)

**(ESL) 054 ESL Writing — Grammar (3)**

This course emphasizes improving skills in expository writing. Particular attention is given to improving unity, coherence, transition, and style as students progress to multi-paragraph compositions. (3 Lec.)

**(ESL) 063 ESL Writing — Grammar (3)**

Prerequisite: Concurrent enrollment in ESL 053 is recommended. This course includes an intensive grammar review of major points covered in ESL 051 and ESL 052 as well as an exploration of the more complex points of English grammar. (3 Lec.)

## FINANCIAL MANAGEMENT

**(FM) 104 Money And Financial Institutions (3)**

Prerequisite: Economics 201. Basic economic principles related to money are presented. Emphasis is on the practical application of the economics of money to the financial institution. Topics are related to the nature and functions of money. Investments, loans, earnings, and capital are also covered. The Federal Reserve System, The Treasury Department, and the changing international monetary system are included. (3 Lec.)

**(FM) 105 Comparative Financial Institutions (3)**

This course is a study of the historical development, organizational structure, internal operation, regulatory agencies, and other distinct characteristics of the banking industry, credit union financial system network, savings and loan industry, and other credit and financial institutions. A comparative analysis is presented of the similarities and differences in the philosophy, target market, and customer services within these financial industries. (3 Lec.)

**(FM) 107 Savings Association Operations (2)**

This course is an overview of the internal operations of a savings association. Topics include the responsibilities to various departments and the interrelationship of all job assignments. (2 Lec.)

**(FM) 115 Credit And Collection Principles (3)**

This course examines credit and collections. Topics include the nature and function of credit, types of credit and bank and commercial credit. Also covered are credit risk, sources of information, analysis of agency reports, interchange services and collection procedures. (3 Lec.)

**(FM) 116 Construction Lending (1)**

Construction lending in commercial banks is presented. Topics include an analysis of applications, permanent financing and loan participations and servicing. Commitment procedures, bonding and developer guarantees, and advances are covered. Inspections, legal work, unsecured construction financing, and land development loans are studied. Bank relationships with mortgage bankers are also included. (1 Lec.)

**(FM) 117 Letters Of Credit (2)**

This course focuses on letters of credit. Shipping documents, mechanics of letters of credit, payment, reimbursement, and document examination are all included. (2 Lec.)

**(FM) 118 Installment Loan Interviews (1)**

This course introduces the techniques of interviewing a loan customer. Topics include Regulation B requirements and the handling of problem customers. (1 Lec.)

**(FM) 119 New Accounts (1)**

Basic problems in working with new bank accounts are surveyed. The function of the new account and its relationship with marketing are described. Various legal questions are explored, and the legal rights of survivorship are examined. (1 Lec.)

**(FM) 120 Selling Bank Services (1)**

The recognition and meeting of customer's needs are the focus of this course. Topics include checking accounts, savings accounts, savings services, loans to individuals, safe deposits, travelers checks and cross-selling. (1 Lec.)

**(FM) 121 Loss Prevention (1)**

This course covers check examination and cashing. Check swindles, identification with and without credentials, hold-ups and security procedures are all included. (1 Lec.)

**(FM) 122 Safe Deposit (1)**

Safe deposit operations are presented. Security concerns, access, insurance, contracts, and powers of attorney are included. Customer relations, recordkeeping and safe-keeping procedures are also covered. (1 Lec.)

**(FM) 123 Loan And Discount (1)**

This course emphasizes promissory notes. Topics include calculating interest and discounting commercial paper. Guarantees and general collateral agreements are also covered. Processing documents are also covered. Processing documents which accompany notes secured by stocks, bonds and savings account passbooks is presented. The concepts of attachment, perfection, priority, default and foreclosure are also included. (1 Lec.)

**(FM) 124 Stocks And Bonds (1)**

The nature and function of stocks and bonds are presented. Topics include the transfer of ownerships and the kinds of stocks, bonds, and government securities. (1 Lec.)

**(FM) 127 Trust Functions And Services (2)**

This course covers the services of institutions engaged in trust business. Topics include the history of trust services and institutions, trust powers and government supervision, and trust department services. Also included are property, wills, estates, personal agencies, different kinds of trusts, and guardianship. Investment of trust funds and management of property and mortgages are also presented. (2 Lec.)

**(FM) 129 Credit Card Banking (2)**

This course examines the operation of a bank charge plan. It briefly examines the marketing of credit cards. (2 Lec.)

**(FM) 130 Teller Training (2)**

The basics of teller operation are presented. The fundamentals of negotiable instruments and the care and handling of money are included. Other topics are deposits, checking and savings transactions, special teller functions, and balancing, cashing, and paying checks. The importance of public relations in the teller's job, security measures, fraud and robbery are also covered. (2 Lec.)

**(FM) 200 Credit Union Management And Administration (3)**

This course covers administration and provision of member services. Topics include loan policies, financial planning and analysis, personnel policies, member relations, delinquency control and collections and risk management. (3 Lec.)

**(FM) 201 Advanced Credit Analysis (3)**

Prerequisites: Accounting 201 and Financial Management 205. The techniques of making decisions about credit are studied. Methods of financial analysis are discussed and applied to the solution of business problems. Risk appraisal is also studied in terms of general economic conditions, the natures of particular businesses and the conditions and trend in various industries. (3 Lec.)

**(FM) 202 Credit Law (3)**

Laws regarding credit are examined. Emphasis is on credit regulation and commercial and consumer laws in Texas. (3 Lec.)

**(FM) 203 Public Relations And Marketing Of Financial Services (3)**

This course describes the importance of public relations to the finance industry. Public relations is considered for the industry as a whole and also for individual institutions, such as commercial banks, savings and loan associations and credit unions. Emphasis is also placed on the promotion and marketing of financial services and the evaluation of different marketing practices. (3 Lec.)

**(FM) 205 Analyzing Financial Statements (3)**

Prerequisite: Accounting 201. This course focuses on the characteristics and analysis of financial statements. The goals, methods, and tools of analysis are covered. Topics for analysis include profit and loss, accounts receivable, inventories, projected statements, cash budgets, and balance sheets. The relationship of balance sheet accounts to sales is also covered. (3 Lec.)

**(FM) 206 Negotiable Instruments And The Payments Mechanism (3)**

This course presents the legal aspects of negotiable instruments. Emphasis is on federal and state banking statutes, court decisions, and administrative regulations. Topics include the legal aspects of deposit, collection, dishonor and return, and payment of checks and cash items. The relationship of various parties within a bank and between depositors is explored. Some legal aspects of other bank operations are also introduced. (3 Lec.)

**(FM) 208 Financial Counseling And Credit Granting (3)**

This course covers credit applicant interview and relations, credit investigation, determining credit worthiness, the credit/loan decision, loan rejections, legal considerations, and disclosure. Family resource management, consumer decision making, member benefits, counseling techniques, and applicant personalities are also presented and discussed. (3 Lec.)

**(FM) 209 Federal Regulations Of Banking (2)**

The federal regulation of banking is covered. Topics include regulatory agencies, bank charters, bank reports and examinations, limitations on operations, and the regulation of expansion. Emphasis is on bank supervision rather than influence through fiscal and monetary policies. (2 Lec.)

**(FM) 713, 803, 813 Cooperative Work Experience (3)**

(See Cooperative Work Experience). (1 Lec., 15 Lab.)

**(FM) 804 Cooperative Work Experience (4)**

(See Cooperative Work Experience). (1 Lec., 20 Lab.)

**FRENCH****(FR) 101 Beginning French (4)**

The essentials of grammar and easy idiomatic prose are studied. Emphasis is on pronunciation, comprehension, and oral expression. Laboratory fee. (3 Lec., 2 Lab.)

**(FR) 102 Beginning French (4)**

Prerequisite: French 101 or the equivalent. This course is a continuation of French 101. Emphasis is on idiomatic language and complicated syntax. Laboratory fee. (3 Lec., 2 Lab.)

**(FR) 201 Intermediate French (3)**

Prerequisite: French 102 or the equivalent. Reading, composition, and intense oral practice are covered in this course. Grammar is reviewed. (3 Lec.)

**(FR) 202 Intermediate French (3)**

Prerequisite: French 201 or the equivalent. This course is a continuation of French 201. Contemporary literature and composition are studied. (3 Lec.)

**GEOGRAPHY****(GPY) 101 Physical Geography (3)**

The physical composition of the earth is surveyed. Topics include weather, climate, topography, plant and animal life, land, and the sea. Emphasis is on the earth in space, use of maps and charts, and place geography. (3 Lec.)

**(GPY) 102 Economic Geography (3)**

The relation of humans to their environment is studied. Included is the use of natural resources. Problems of production, manufacturing, and distributing goods are explored. Primitive subsistence and commercialism are considered. (3 Lec.)

**(GPY) 103 Cultural Geography (3)**

This course focuses on the development of regional variations of culture. Topics include the distribution of races, religions, and languages. Aspects of material culture are also included. Emphasis is on origins and diffusion. (3 Lec.)

**GEOLOGY****(GEO) 101 Physical Geology (4)**

This course is for science and non-science majors. It is a study of earth materials and processes. Included is an introduction to geochemistry, geophysics, the earth's interior, and magnetism. The earth's setting in space, minerals, rocks, structures, and geologic processes are also included. Laboratory fee. (3 Lec., 3 Lab.)

**(GEO) 102 Historical Geology (4)**

This course is for science and non-science majors. It is a study of earth materials and processes within a developmental time perspective. Fossils, geologic maps, and field studies are used to interpret geologic history. Laboratory fee. (3 Lec., 3 Lab.)

**(GEO) 201 Introduction To Rocks And Mineral Identification (4)**

Prerequisites: Geology 101 and 102. This course introduces crystallography, geochemistry, descriptive mineralogy, petrology, and phase equilibria. Crystal models and hand specimens are studied as an aid to rock and mineral identification. This course is not intended for geology majors. Laboratory fee. (3 Lec., 3 Lab.)

**(GEO) 207 Geologic Field Methods (4)**

Prerequisites: Geology 101 and 102. This course covers basic geologic and topographic mapping, observation of geologic structures and examination of petrologic systems in an actual field setting. Students will spend a major portion of the course collecting data for and constructing topographic and geologic maps and geologic cross sections and columns. (3 Lec., 3 Lab.)

**GERMAN****(GER) 101 Beginning German (4)**

The essentials of grammar and easy idiomatic prose are studied. Emphasis is on pronunciation, comprehension, and oral expression. Laboratory fee. (3 Lec., 2 Lab.)

**(GER) 102 Beginning German (4)**

Prerequisite: German 101 or the equivalent. This course is a continuation of German 101. Emphasis is on idiomatic language and complicated syntax. Laboratory fee. (3 Lec., 2 Lab.)

**(GER) 201 Intermediate German (3)**

Prerequisite: German 102 or the equivalent or demonstrated competence approved by the instructor. Reading, composition, and intense oral practice are covered. Grammar is reviewed. (3 Lec.)

**(GER) 202 Intermediate German (3)**

Prerequisite: German 201 or the equivalent. This course is a continuation of German 201. Contemporary literature and composition are studied. (3 Lec.)

**GOVERNMENT****(GVT) 201 American Government (3)**

Prerequisite: Sophomore standing recommended. This course is an introduction to the study of political science. Topics include the origin and development of constitutional democracy (United States and Texas), federalism and intergovernmental relations, local governmental relations, local government, parties, politics, and political behavior. (This course is offered on campus and may be offered via television.) (3 Lec.)

**(GVT) 202 American Government (3)**

Prerequisite: Sophomore standing recommended. The three branches of the United States and Texas government are studied. Topics include the legislative process, the executive and bureaucratic structure, the judicial process, civil rights and liberties, and domestic policies. Other topics include foreign relations and national defense. (This course is offered on campus and may be offered via television.) (3 Lec.)

**(GVT) 211 Introduction to Comparative Politics (3)**

A comparative examination of governments, politics, problems and policies with illustrative cases drawn from a variety of political systems.

**HISTORY****(HST) 101 History Of The United States (3)**

The history of the United States is presented, beginning with the European background and first discoveries. The pattern of exploration, settlement, and development of institutions is followed throughout the colonial period and the early national experience to 1877. (This course is offered on campus and may be offered via television.) (3 Lec.)

**(HST) 102 History Of The United States (3)**

The history of the United States is surveyed from the Reconstruction era to the present day. The study includes social, economic, and political aspects of American life. The development of the United States as a world power is followed. (This course is offered on campus and may be offered via television.) (3 Lec.)

**(HST) 105 Western Civilization (3)**

The civilization in the West from ancient time through the Enlightenment is surveyed. Topics include the Mediterranean world, including Greece and Rome, the Middle Ages, and the beginnings of modern history. Particular emphasis is on the Renaissance, Reformation, the rise of the national state, the development of parliamentary government, and the influences of European colonization. (3 Lec.)

**(HST) 106 Western Civilization (3)**

This course is a continuation of History 105. It follows the development of civilization from the Enlightenment to current times. Topics include the Age of Revolution, the beginning of industrialism, 19th century, and the social, economic, and political factors of recent world history. (3 Lec.)

**(HST) 110 The Heritage of Mexico (3)**

This course (cross-listed as Anthropology 110) is taught in two parts each semester. The first part of the course deals with the archaeology of Mexico beginning with the first humans to enter the North American continent and culminating with the arrival of the Spanish in 1519 A.D. Emphasis is on archaic cultures, the Maya, the Toltec, and the Aztec empires. The second part of the course deals with Mexican history and modern relations between the United States and Mexico. The student may register for either History 110 or Anthropology 110, but may receive credit for only one of the two. (3 Lec.)

**(HST) 205 Studies In U.S. History (3)**

Prerequisite: Sophomore standing and 6 hours of American history. Selected topics in the history of the United States are presented. The course may be repeated once for credit when different topics are presented. (3 Lec.)

## HORTICULTURE TECHNOLOGY

**(HLN) 131 Horticulture Science (4)**

This course covers the science and practices of ornamental horticulture. Stress is on the culture and growth of plants, landscaping, plant production, and nursery propagation. Laboratory fee. (3 Lec., 3 Lab.)

**(HLN) 132 Landscape Trees (2)**

The identification and classification of landscape trees are studied. Characteristics and landscape uses are included. Laboratory fee. (1 Lec., 3 Lab.)

**(HLN) 133 Landscape Shrubs, Vines, And Ground Cover (2)**

The identification and classification of landscape shrubs, vines, and ground covers are studied. Characteristics and landscape uses are included. Laboratory fee. (1 Lec., 3 Lab.)

**(HLN) 140 Herbaceous And Exotic Plants (3)**

The identification, culture, and use of ornamental herbaceous plants are studied. Plants for homes, gardens, and conservatories are included. Laboratory fee. (2 Lec., 3 Lab.)

**(HLN) 141 Floral Design (4)**

This course presents the principles of floral art, flowers, and other design materials. Special and unusual floral designs are included. Laboratory fee. (2 Lec., 6 Lab.)

**(HLN) 145 Landscape Development I (3)**

Prerequisite: Horticulture Technology 131 or demonstrated competence approved by the instructor. This course covers the planning and scheduling of landscape operations, the application of pesticides, the study of pests and diseases in the landscape, maintenance of landscaping tools and equipment, installation of irrigation systems, contracts

and construction specifications, and related government regulations. Laboratory fee. (1 Lec., 6 Lab.)

**(HLN) 146 Fundamentals Of Landscape Planning (3)**

Concepts and practices used in preparing landscape plans and in constructing and improving landscapes are covered. Laboratory fee. (1 Lec., 6 Lab.)

**(HLN) 147 Landscape Development II (3)**

Prerequisite: Horticulture Technology 131 or demonstrated competence approved by the instructor. This course trains the student in the use and maintenance of landscape plants, tree surgery and repair, pruning and training plants in the landscape, and the installation and maintenance of turf grasses in the landscape. Laboratory fee. (1 Lec., 6 Lab.)

**(HLN) 150 Horticulture Career Preparation (1)**

Prerequisite: Concurrent enrollment in one other horticulture course. This course provides the student with career exploration opportunities. Students are encouraged to examine their potential in fields of ornamental horticulture by following interests and aptitudes in guided horticulture activities. Laboratory fee. (3 Lab.)

**(HLN) 227 Greenhouse Horticulture (4)**

Prerequisites: Horticulture Technology 131 and either Chemistry 115 or Physical Science 118. The construction and operation of ornamental horticulture production structures are studied. Included are greenhouses, plastic houses, lath houses, hotbeds, and coldframes. Emphasis is on installing, operating, and maintaining equipment for environmental control and efficiency in production operations. Laboratory fee. (2 Lec., 6 Lab.)

**(HLN) 231 Landscape Design (4)**

Prerequisite: Horticulture Technology 132, 133, and 146; Mathematics 195 or the equivalent is desirable. This course introduces the basic principles of landscape design for residences. Plant selection is included. Laboratory fee. (2 Lec., 6 Lab.)

**(HLN) 232 Landscape Planning And Management (4)**

Prerequisite: Horticulture Technology 145 and 231. Landscape business operations and landscape principles are studied in depth. Topics include the landscape horticulture industry, management practices, marketing methods, and advanced skills in landscape planning. Laboratory fee. (2 Lec., 6 Lab.)

**(HLN) 233 Nursery Operations (3)**

Prerequisite: Horticulture Technology 131 and either Chemistry 115 or Physical Science 118. In this course emphasis is placed on nursery site selection and layout, plant growth and plant protection, and production in field nurseries and container nurseries. Laboratory fee. (2 Lec., 3 Lab.)

**(HLN) 234 Ornamental Crop Production (3)**

Prerequisites: Horticulture Technology 235; Horticulture Technology 226 or 233. Advanced methods of crop production in the nursery and greenhouse are presented. Topics include container nursery production, turf grass production, cut flower and pot plant production, and the field propagation and production of nursery stock. Laboratory fee. (2 Lec., 3 Lab.)

**(HLN) 235 Propagation Of Woody Ornamental Plants (2)**

Prerequisites: Horticulture Technology 131 and Horticulture Technology 140. This course covers all phases of propagation of woody ornamental plants including cutting and seed propagation and grafting, budding, and layering. It also includes the management of propagation facilities. Laboratory fee. (1 Lec., 3 Lab.)

**(HLN) 236 Florist Management (4)**

Prerequisite: Horticulture Technology 141. Operations and design skills in the retail florist business are studied. Topics include the florist industry, management practices, marketing methods, and advanced techniques in floral art. Laboratory fee. (2 Lec., 6 Lab.)

**(HLN) 238 Landscape Management (3)**

Prerequisite: Horticulture Technology 231. This course provides advanced studies in landscape business operations including landscape contracting and garden center management. It is a study of the landscape horticulture industry, management practices, marketing methods and estimating, bidding and contracting landscape jobs. Laboratory fee. (2 Lec., 3 Lab.)

**(HLN) 245 Problems And Practices In Industry (4)**

The student researches current regional problems and practices in industry, prepares reports and makes presentations. The student visits on-site with specialists, observes operations, studies problems, performs innovative procedures and participates in new production and marketing techniques. Laboratory fee. (2 Lec., 6 Lab.)

**(HLN) 248 Advanced Floral Design (3)**

Prerequisite: Floral Design 141. This course is an advanced study of commercial floral design as used in the retail florist business. Advanced techniques in floral art are practiced in corsage making, wedding design, memorial decoration, religious and fraternal designs and other special occasion designs. Laboratory fee. (2 Lec., 3 Lab.)

**(HLN) 249 Foliage Plants And Interiorscaping (3)**

Prerequisites: Horticulture Technology 131 and 140. This course covers the propagation, culture, and marketing of foliage plants and other tropical and subtropical plants used in interiorscapes. Principles of interiorscaping and care of plants in indoor environments are studied. Laboratory fee. (2 Lec., 3 Lab.)

**(HLN) 250 Advanced Landscape Planning (3)**

Prerequisites: Horticulture Technology 145 and 231. Landscape planning and design principles are studied in depth. Topics include advanced design analysis, architectural elements, space articulation, and engineering land and plant uses. Laboratory fee. (2 Lec., 3 Lab.)

**(HLN) 252 Flower Shop Management (3)**

Prerequisite: Horticulture Technology 141. This course is an advanced study of flower shop operations in the florist industry. Included in this study is the structure of the industry, shop location and organization, marketing methods, and management practices. Laboratory fee. (2 Lec., 3 Lab.)

**(HLN) 804, 814 Cooperative Work Experience (4)**  
(See Cooperative Work Experience). (1 Lec., 20 Lab.)

## **HUMAN DEVELOPMENT**

**(HD) 100 Educational Alternatives (1)**

The learning environment is introduced. Career, personal study skills, educational planning, and skills for living are all included. Emphasis is on exploring career and educational alternatives and learning a systematic approach to decision-making. A wide range of learning alternatives is covered, and opportunity is provided to participate in personal skills seminars. (1 Lec.)

**(HD) 104 Educational And Career Planning (3)**

This course is designed to teach students the on-going process of decision making as it relates to career/life and educational planning. Students identify the unique aspects of themselves (interests, skills, values). They investigate possible work environments and develop a plan for personal satisfaction. Job search and survival skills are also considered. (3 Lec.)

**(HD) 105 Basic Processes of Interpersonal Relationships (3)**

This course is designed to help the student develop a self-awareness that will enable him/her to relate more effectively to others. Students are made aware of their feelings, values, attitudes, verbal and non-verbal behaviors. The course content, which utilizes an experiential model, also focuses on developing communication and problem-solving skills. (3 Lec.)

**(HD) 106 Personal and Social Growth (3)**

This course focuses on the interactions between the individual and the social structures in which he lives. Roles, social influences and personal adjustments to the world around us are explored in readings and classroom discussion. Human behavior, the diversity of lifestyles and the components of a healthy personality are studied in an effort to develop a pattern for growth that demonstrates a responsibility to self and society. (3 Lec.)

**(HD) 107 Developing Leadership Behavior (3)**

The basic purpose of this course is to help the student develop leadership and human relation skills. Topics include individual and group productivity, value systems, appropriate communication skills, and positive attitudes in a group environment. The concepts of leadership are explored through both theory and practice. These leadership activities can be applied to the student's personal, business, and professional interactions. (3 Lec.)

**(HD) 110 Assessment Of Prior Learning (1)**

Prerequisite: Limited to students in Technical/Occupational programs. Demonstrated competence approved by the instructor is required. This course is designed to assist students in documenting prior learning for the purpose of applying for college credit. Students develop a portfolio which includes a statement of educational/career goals, related non-collegiate experiences which have contributed to college-level learning, and documentation of such experiences. This course may be repeated for credit. (1 Lec.)

## HUMANITIES

### (HUM) 101 Introduction to the Humanities (3)

Related examples of humans' creative achievements are examined. Emphasis is on understanding the nature of humans and the values of human life. (This course is offered on campus and may be offered via television.) Laboratory fee required for television course. (3 Lec.) ★

### (HUM) 102 Advanced Humanities (3)

Prerequisite: Humanities 101 or demonstrated competence approved by the instructor. Human value choices are presented through the context of the humanities. Universal concerns are explored, such as a person's relationship to self and to others and the search for meaning. The human as a loving, believing and hating being is also studied. Emphasis is on the human as seen by artists, playwrights, filmmakers, musicians, dancers, philosophers, and theologians. The commonality of human experience across cultures and the premises for value choices are also stressed. (3 Lec.)

## INTERPRETER TRAINING PROGRAM

### (ITP) 140 Introduction to Deafness (3)

The psychology and history of educating the deaf are introduced. Emphasis is on the psychological, social, emotional, and occupational aspects of deafness. (3 Lec., 1 Lab.)

### (ITP) 141 Beginning Sign Language (4)

Sign language and fingerspelling are introduced. Practice and experience in developing expressive and receptive skills are provided. Emphasis is on mastering expressive skills. Laboratory fee. (3 Lec., 2 Lab.)

### (ITP) 143 Intermediate Sign Language (4)

Prerequisite: Interpreter Training 141. Receptive and expressive fingerspelling skills are increased. Basic vocabulary is expanded, and idioms are introduced. Emphasis is on mastering receptive skills. Laboratory fee. (3 Lec., 2 Lab.)

### (ITP) 144 Psychosocial Aspects of Deafness (3)

This course focuses on exploration of the psychosocial aspects of deafness. Vocational problems are also explored and studied. (3 Lec.)

### (ITP) 148 Receptive Fingerspelling (1)

Prerequisites: Interpreter Training 141 or concurrent enrollment in Interpreter Training 141. This course increases the student's ability to read fingerspelling. Video tapes are used to demonstrate finger spelling—starting with two-letter words and progressing to words of several syllables. These words are presented individually as well as in sentences. (2 Lab.)

## JOURNALISM

### (JN) 101 Introduction To Mass Communications (3)

This course surveys the field of mass communications. Emphasis is on the role of mass media in modern society. (3 Lec.)

### (JN) 102 News Gathering And Writing (3)

Prerequisite: Typing ability. This course focuses upon recognizing newsworthy events, gathering information and writing the straight news story. It provides a basis for future study in newspaper and magazine writing, advertising, broadcast journalism and public relations. Students are required to write for the campus newspaper. (2 Lec., 3 Lab.)

### (JN) 103 News Gathering And Writing (3)

Prerequisite: Journalism 102 or professional experience approved by the instructor. This course is a continuation of Journalism 102. Students study and practice writing more complex stories, such as features, profiles, follow-up stories, and sidebars. Students are required to write for the campus newspaper. (2 Lec., 3 Lab.)

### (JN) 104 Student Publications (1)

Prerequisite: Demonstrated competence approved by the instructor. This course may not be taken for credit concurrently with Journalism 102 or 103. Individual staff assignments are made for the student newspaper. Assignments may be made in writing, advertising, photography, cartooning, or editing. Students are required to work at prescribed periods under supervision and must attend staff meetings. (3 Lab.)

### (JN) 105 Student Publications (1)

Prerequisite: Demonstrated competence approved by the instructor. This course may not be taken for credit concurrently with Journalism 102 or 103. This course is a continuation of Journalism 104. (3 Lab.)

### (JN) 106 Student Publications (1)

Prerequisite: Demonstrated competence approved by the instructor. This course may not be taken for credit concurrently with Journalism 102 or 103. The course is a continuation of Journalism 105. (3 Lab.)

### (JN) 202 Principles Of Advertising (3)

Fundamentals of advertising, including advertising appeals, print and broadcast copy writing, and design and selection of media will be covered. Typography as it relates to advertising is stressed. The course will provide students with the concepts they will need to go into the advertising field and into advanced advertising courses. (3 Lec.)

### (JN) 203 Survey Of Broadcasting (3)

This course stresses broadcast organization and operations, and includes the theoretical and historical aspects of broadcasting. It introduces students to the social, political, technical, and economic aspects of the broadcasting industry. (3 Lec.)

## LATIN 102 & LIB. SKILLS 101 (see pg. 100) LATIN

### (LAT) 101 Beginning Latin (4)

Grammar, vocabulary and readings are introduced. Declensions of nouns, adjectives, pronouns and conjugations of verbs are studied. Oral reading of simple sentences and written translations are introduced. Emphasis is placed on the value of Latin as background for the study of English and modern Romance languages. (3 Lec., 2 lab.)

**(MGT) 250 Management Training (4)**

Prerequisite: Concurrent enrollment in Management 254 or demonstrated competence approved by the instructor. This course consists of supervised on-the-job training, giving practical experience to students of business management. The course is designed to develop the student's managerial skills through the completion of job-related projects which will enhance and complement classroom knowledge. (20 Lab.)

**(MGT) 251 Management Training (4)**

Prerequisite: Concurrent enrollment in Management 255 or demonstrated competence approved by the instructor. This course consists of supervised on-the-job training, giving practical experience to students of business management. The course is designed to develop the student's managerial skills through the completion of job-related projects which will enhance and complement classroom knowledge. (20 Lab.)

**(MGT) 254 Management Seminar:Organizational Development (2)**

Prerequisite: Concurrent enrollment in Management 250 or demonstrated competence approved by the instructor. The role of managers in managing human resources, group interaction and team building, motivational dynamics, improving interpersonal communication skills, and dealing with company politics and conflict are explored in this course through an applied approach. (2 Lec.)

**(MGT) 255 Management Seminar:Planning, Strategy, And The Decision Process (2)**

Prerequisite: Concurrent enrollment in Management 251 or demonstrated competence approved by the instructor. This course is designed to develop managerial skills in individual and group decision-making and cause analysis. Rational and creative problem-solving skills are developed. Personal and organizational strategy skills are enhanced. (2 Lec.)

**(MGT) 703 Cooperative Work Experience (3)**

(See Cooperative Work Experience). (1 Lec., 15 Lab.)

**(MGT) 704 Cooperative Work Experience (4)**

(See Cooperative Work Experience). (1 Lec., 20 Lab.)

**MANUFACTURING ENGINEERING TECHNOLOGY****(MET) 231 Engineering Materials (3)**

This course is a study of common engineering materials. Emphasis is on material characteristics and modern industrial applications. (3 Lec.)

**(MET) 234 Production And Inventory Control (3)**

This course is a study of methods used in controlling production and inventory. Areas covered include demand forecasting, order quantities, scheduling and dispatching. Computer applications are introduced. (3 Lec.)

**(MET) 235 Industrial Safety (3)**

This course is a study of accident and loss prevention in modern industry. Inspections, investigations, record keeping, training, laws, codes, workman's compensation, insurance and problem solving are included. (3 Lec.)

**(MET) 238 Principles Of Work Measurement (3)**

This course covers the fundamentals of time and motion study procedures including use of samplings, formulas, charts, diagrams, and equipment. Emphasis is on improving productivity. (3 Lec.)

**MARKETING****(MKT) 137 Principles of Retailing (3)**

The operation of the retail system of distribution is examined. Topics include consumer demand, requirements, computer use, store location and layout, and credit policies. Interrelationships are emphasized. (3 Lec.)

**(MKT) 206 Principles of Marketing (3)**

The scope and structure of marketing are examined. Marketing functions, consumer behavior, market research, sales forecasting, and relevant state and federal laws are analyzed. (3 Lec.)

**(MKT) 230 Salesmanship (3)**

The selling of goods and ideas is the focus of this course. Buying motives, sales psychology, customer approach, and sales techniques are studied. (3 Lec.)

**(MKT) 233 Advertising and Sales Promotion (3)**

This course introduces the principles, practices, and media of persuasive communication. Topics include buyer behavior, use of advertising media, and methods of stimulating sales people and retailers. The management of promotion programs is covered, including goals, strategies, evaluation, and control of promotional activities. (3 Lec.)

**MATHEMATICS****(MTH) Mathematics**

(See also Developmental Mathematics. Supplementary instruction in mathematics is available through the Learning Resources Center.)

**(MTH) 101 College Algebra (3)**

Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 093. This course is a study of functions and relations, absolute values, variation, quadratic equations, complex numbers, functions of two variables, systems of equations and inequalities, elementary aspects of the theory of equations, progressions, the binomial theorem, and algebraic proofs. (3 Lec.)

**(MTH) 102 Plane Trigonometry (3)**

Prerequisite: Mathematics 101 or equivalent. This course is a study of angular measures, functions of angles, identities, solutions of triangles, equations, inverse trigonometric functions, and complex numbers. (3 Lec.)

**(MTH) 111 Mathematics for Business and Economics I (3)**

Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 093. This course includes equations, inequalities, matrices, linear programming; linear, quadratic, polynomial, rational, exponential, and logarithmic functions; and probability. Applications to business and economics problems are emphasized. (3 Lec.)



**(MTH) 112 Mathematics for Business and Economics II (3)**  
Prerequisite: Mathematics 111. This course includes limits, differential calculus, integral calculus, and appropriate applications. (3 Lec.)

**(MTH) 115 College Mathematics I (3)**

Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 093. Designed for liberal arts students, this course includes the study of sets, logic, sets of numbers, and mathematical systems. Additional topics will be selected from mathematics of finance, introduction to computers, introduction to statistics, and introduction to matrices. Recreational and historical aspects of selected topics are also included. (3 Lec.)

**(MTH) 116 College Mathematics II (3)**

Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 093. Designed for liberal arts students, this course includes the study of algebra, linear programming, permutations, combinations, probability, and geometry. Recreational and historical aspects of selected topics are also included. (3 Lec.)

**(MTH) 117 Fundamental Concepts of Mathematics for Elementary Teachers (3)**

Prerequisites: Two years of high school algebra and an appropriate assessment test score or Developmental Mathematics 093. This course includes the structure of the real number system and geometry. Emphasis is on the development of mathematical reasoning needed for elementary teachers. (3 Lec.)

**(MTH) 121 Analytic Geometry (3)**

Prerequisite: Mathematics 102 or equivalent. This course is a study of the real numbers, distance, the straight line, conics, transformation of coordinates, polar coordinates, parametric equations, and three-dimensional space. (3 Lec.)

**(MTH) 124 Calculus I (5)**

Prerequisite: Mathematics 121 or equivalent. This course is a study of limits, continuity, derivatives, and integrals of algebraic and transcendental functions, with applications. (5 Lec.)

**(MTH) 130 Business Mathematics (3)**

Prerequisites: One year of high school algebra and an appropriate assessment test score or Developmental Mathematics 091 or the equivalent. This course is intended primarily for students in specialized occupational programs. It is a study of simple and compound interest, bank discount, payrolls, taxes, insurance, mark up and mark down, corporate securities, depreciation, and purchase discounts. (3 Lec.)

**(MTH) 195 Technical Mathematics I (3)**

Prerequisites: One year of high school algebra and an appropriate assessment test score or Developmental Mathematics 091 or the equivalent. This course is designed for technical students. It covers the basic concepts and fundamental facts of plane and solid geometry, computational techniques and devices, units and dimensions, the terminology and concepts of elementary algebra, functions, coordinate systems, simultaneous equations, and stated problems. (3 Lec.)

**(MTH) 196 Technical Mathematics II (3)**

Prerequisite: Mathematics 195. This course is designed for technical students. It includes a study of topics in algebra, an introduction to logarithms, and an introduction to trigonometry, trigonometric functions and the solution of triangles. (3 Lec.)

**(MTH) 202 Introductory Statistics (3)**

Prerequisite: Two years of high school algebra or demonstrated competence approved by the instructor. This course is a study of collection and tabulation of data, bar charts, graphs, sampling, measures of central tendency and variability, correlation, index numbers, statistical distributions, probability, and application to various fields. (3 Lec.)

**(MTH) 221 Linear Algebra (3)**

Prerequisite: Mathematics 124 or equivalent. This course is a study of matrices, linear equations, dot products, cross products, geometrical vectors, determinants, n-dimensional space, and linear transformations. (3 Lec.)

**(MTH) 225 Calculus II (4)**

Prerequisite: Mathematics 124 or the equivalent. This course is a study of techniques of integration, polar coordinates, parametric equations, topics in vector calculus, sequences, series, indeterminate forms, and partial differentiation with applications. (4 Lec.)

**(MTH) 226 Calculus III (3)**

Prerequisite: Mathematics 225 or the equivalent. This course is a study of topics in vector calculus, functions of several variables, and multiple integrals, with applications. (3 Lec.)

**(MTH) 230 Differential Equations (3)**

Prerequisite: Mathematics 225 or demonstrated competence approved by the instructor. This course is a study of ordinary differential equations, including linear equations, systems of equations, equations with variable coefficients, existence and uniqueness of solutions, series solutions, singular points, transform methods, boundary value problems, and applications. (3 Lec.)

**(MTH) 297 Technical Mathematics III (3)**

Prerequisite: Mathematics 196. This course will introduce the concepts and applications of calculus used in the field of Engineering Technology. Included are basic concepts from analytic geometry, differential calculus, and integral calculus. Practical application of the derivative and of integration in technology will be emphasized. (3 Lec.)

## **MECHANICAL TECHNOLOGY**

**(MT) 198 Mechanical Design Technology (4)**

Prerequisite: Drafting 183. This course provides an introduction to the design process and creative problem solving. There is continuing emphasis on mechanical assemblies, industrial processes, gears, cams, bearings, threads and tolerances. Handbooks, manuals, ANSI and military standards are utilized. Laboratory fee. (2 Lec., 6 Lab.)



**(MT) 248 Computer Aided Drafting (4)**

Prerequisites: Drafting 183 or Engineering 105, and Mechanical Technology 198. This course is an introductory course in computer applications in solving mechanical manufacturing problems. Basic programming, subroutines, plotter and digital tablet applications are included. Laboratory fee. (2 Lec., 6 Lab.)

**(MT) 249 Applications in Computer-Aided Drafting (4)**

Prerequisite: Drafting 183 or Engineering 105, or demonstrated competence approved by the instructor. This course is an applications oriented study in the operation of interactive state-of-the-art, CAD systems. Emphasis will be on producing technical drawings. The use of drawing files, graphic commands, menus, library storage, digitizing, and plotters will be included. Laboratory fee. (2 Lec., 6 Lab.)

**(MT) 252 Machine Design (4)**

Prerequisites: Mechanical Technology 198 and Engineering Technology 232 or demonstrated competence approved by the instructor. This course is an advanced applications course intended to facilitate the transition from student to practical machine designer. Each topic covered provides for extensive problem solving taking advantage of commercially available machine elements as well as uniquely designed parts. Topics include motion control, machine frames, shaft design, gears, cams and miscellaneous machine elements. Laboratory fee. (2 Lec., 6 Lab.)

## MUSIC

**(MUS) 103 Guitar Ensemble (1)**

Music composed and arranged for a guitar ensemble is performed. Works for a guitar and a different instrument or for guitar and a voice are also included. This course may be repeated for credit. (3 Lab.)

**(MUS) 104 Music Appreciation (3)**

The basic elements of music are surveyed and examined in the music literature of western civilization, particularly from the Baroque Period to the present. Cultural influences on the music of each era are observed. (3 Lec.)

**(MUS) 105 Italian Diction (1)**

The phonetic sounds of the Italian language are studied. Included is selected vocabulary. This course is primarily for voice majors. (2 Lab.)

**(MUS) 106 French Diction (1)**

The phonetic sounds of the French language are studied. Included is selected vocabulary. This course is primarily for voice majors. (2 Lab.)

**(MUS) 107 German Diction (1)**

The phonetic sounds of the German language are studied. Included is selected vocabulary. This course is primarily for voice majors. (2 Lab.)

**(MUS) 108 English Diction (1)**

The phonetic sounds of the English language are studied. Included is selected vocabulary. This course is primarily for voice majors. (2 Lab.)

**(MUS) 110 Music Literature (3)**

The music of recognized composers in the major periods of music history is examined. Topics include the characteristics of sound, elements of music, performance media, and musical texture. Emphasis is on the music of the late Gothic, Renaissance and Baroque eras. (3 Lec.)

**(MUS) 111 Music Literature (3)**

Prerequisite: Music 110. This course is a continuation of Music 110. The compositional procedures and forms used by composers are studied. Emphasis is on the Classical, Romantic, and Modern periods. (3 Lec.)

**(MUS) 112 Guitar Literature And Materials (3)**

The body of music for the guitar is surveyed. Emphasis is on the repertoire of instruments in the guitar family, such as the lute. Transcription and arranging are studied as well as the selection of a program for public performance. (3 Lec.)

**(MUS) 113 Foundations Of Music I (3)**

This course focuses on participation and skills for satisfactory performance in singing, playing an instrument, listening, and creating rhythmic responses. The ability to manage notation (music reading) is developed. (3 Lec.)

**(MUS) 114 Foundations In Music II (3)**

Prerequisite: Music 113. This course prepares students with limited music training for Music 145 and increases their general music understanding. Emphasis is on rhythmic and melodic training, chord functions, melody, textures, and basic analysis of music. (3 Lec.)

**(MUS) 115 Jazz Improvisation (2)**

The art of improvisation is introduced. Basic materials, aural training, analysis, and common styles are presented. This course may be repeated for credit. (1 Lec., 2 Lab.)

**(MUS) 117 Piano Class I (1)**

This course is primarily for students with no knowledge of piano skills. It develops basic musicianship and piano skills. This course may be repeated for credit. (2 Lab.)

**(MUS) 118 Piano Class II (1)**

The study of piano is continued. Included are techniques, skills, harmonization, transposition, improvisation, accompanying, sight-reading, and performing various styles of repertoire. This course may be repeated for credit. (2 Lab.)

**(MUS) 119 Guitar Class I (1)**

This course is primarily for students with limited knowledge in reading music or playing the guitar. It develops basic guitar skills. This course may be repeated for credit. (2 Lab.)

**(MUS) 120 Guitar Class II (1)**

Prerequisite: Music 119 or the equivalent. This course is a continuation of Music 119. Emphasis is on classical guitar techniques and music reading skills. This course may be repeated for credit. (2 Lab.)

**(MUS) 121-143 Applied Music-Minor (1)**

This course is open to students enrolled in music theory, ensembles, and other music major and minor courses. It provides private instruction in the student's secondary area and consists of a one-half hour lesson a week. Private music may be repeated for credit. Laboratory fee required. (1 Lec.)

**(MUS) 145 Music Theory I (3)**

This course presents the basic elements of music. Emphasis is on notation, cadences, classification of diatonic triads, scales and modes. (3 Lec.)

**(MUS) 146 Music Theory II (3)**

Prerequisite: Music 145. This course focuses on part-writing and harmonization with triads and their inversions. Also included is a chord vocabulary expanded to include materials from the common practice period as well as later periods. (3 Lec.)

**(MUS) 150 Chorus (1)**

Prerequisite: Demonstrated competence approved by the instructor. A wide variety of music representing the literature of the great eras of music history is studied and performed. This course may be repeated for credit. (3 Lab.)

**(MUS) 151 Voice Class I (1)**

This course is for non-voice majors. It presents the principles of breathing, voice production, tone control, enunciation, and phrasing in two group lessons a week. This course may be repeated for credit. (2 Lab.)

**(MUS) 152 Voice Class II (1)**

This course is a continuation of Music 151. It is open to all non-voice majors. Emphasis is on solo singing, appearance in studio recital, stage deportment, and personality development. Two group lessons are given a week. This course may be repeated for credit. (2 Lab.)

**(MUS) 155 Vocal Ensemble (1)**

A group of mixed voices concentrates on excellence of performance. Membership is open to any student by audition. The director selects those who possess special interest and skill in the performance of advanced choral literature. This course may be repeated for credit. (3 Lab.)

**(MUS) 156 Madrigal Singers (1)**

A group of vocalists read and perform literature for small ensembles. Membership is by audition with the appropriate director. This course may be repeated for credit. (3 Lab.)

**(MUS) 161 Musicianship I (1)**

This course relates to topics in Music 145. Aural skills including sight-singing, ear training, and keyboard are developed. (3 Lab.)

**(MUS) 162 Musicianship II (1)**

Prerequisite: Music 161. This course relates to topics in Music 146. Aural music skills including sight-singing, ear training, and keyboard are further developed. (3 Lab.)

**(MUS) 166 History of Jazz/Rock Music (3)**

The study of social and musical influences on Jazz/Rock music and the influence of Jazz/Rock Music on society and the music industry. (3 Lec.)

**(MUS) 171 Woodwind Ensemble (1)**

A group of woodwind instrumentalists read and perform literature for small ensembles. Membership is by audition with the appropriate director. This course may be repeated for credit. (3 Lab.)

**(MUS) 172 Brass Ensemble (1)**

A group of brass instrumentalists read and perform literature for small ensembles. Membership is by audition with the appropriate director. This course may be repeated for credit. (3 Lab.)

**(MUS) 173 Percussion Ensemble (1)**

A group of percussion instrumentalists read and perform literature for small ensembles. Membership is by audition with the appropriate director. This course may be repeated for credit. (3 Lab.)

**(MUS) 174 Keyboard Ensemble (1)**

A group of keyboard instrumentalists read and perform literature for small ensembles. Membership is by audition with the appropriate director. This course may be repeated for credit. (3 Lab.)

**(MUS) 175 String Ensemble (1)**

A group of string instrumentalists read and perform literature for small ensembles. Membership is by audition with the appropriate director. This course may be repeated for credit. (3 Lab.)

**(MUS) 176 Symphonic Wind Ensemble (1)**

In the symphonic wind ensemble students study and perform stylistic literature of all periods. This course may be repeated for credit. (3 Lab.)

**(MUS) 185 Stage Band (1)**

Prerequisite: The demonstrated competence approved by the instructor. In the Stage Band students study and perform a wide variety of music. Emphasis is on the jazz-oriented, big-band styles of the 1960's. This course may be repeated for credit. (3 Lab.)

**(MUS) 199 Recital**

Students of private lessons perform before an audience one period each week. Credit for this course does not apply to the Associates Degree.

**(MUS) 203 Composition (3)**

Prerequisites: Music 145 and 146 or demonstrated competence approved by the instructor. This course covers composing in small forms for simple media in both traditional styles and styles of the student's choice. The course may be repeated for credit. (3 Lec.)

**(MUS) 217 Piano Class III (1)**

Prerequisite: Music 118 or the equivalent. This course is a continuation of functional keyboard skills, including harmonization, sightreading, accompanying styles, improvisation, and technical exercises. It is designed for the music major preparing for the piano proficiency exam, but is also open to any interested student. It is recommended that music majors also study privately. (2 Lab.)

**(MUS) 218 Piano Class IV (1)**

Prerequisite: Music 217 or the equivalent. This course is a continuation of functional keyboard skills in Music 217 with greater emphasis on advanced harmonization and appropriate technical skills. It is designed as a preparation for the piano proficiency exam for the music major, but is also open to any interested student. It is recommended that music majors also study privately. (2 Lab.)

**(MUS) 221-243 Applied Music-Concentration (2)**

This course is open to students enrolled in music theory, ensembles, and other music major and minor courses. It provides private instruction in the area of the student's concentration and consists of two half-hour lessons a week. Laboratory fee required. Private music may be repeated for credit. (1 Lec.)

**(MUS) 245 Music Theory III (3)**

Prerequisite: Music 146. This course is a continuation of the study of music theory. It includes the materials of modulation, larger forms, and thematic development. (3 Lec.)

**(MUS) 251-270 Applied Music-Major (3)**

This course is primarily for music performance majors and is open to students enrolled in music theory, ensembles, and other music major and minor courses. It provides private instruction in the area of the student's major instrument, and consists of two half-hour lessons a week. Laboratory fee. (1 Lec.)

**(MUS) 271 Musicianship III (1)**

Prerequisite: Music 162. This course relates to topics in Music 245. Aural music skills, including sight-singing, ear training, and keyboard are developed. (3 Lab.)

**(MUS) 272 Musicianship IV (1)**

Prerequisite: Music 271. This course relates to topics in Music 246. Aural music skills, including sight-singing, ear training, and keyboard are developed. (3 Lab.)

## OFFICE CAREERS

**(OFC) 150 Automated Filing Procedures (3)**

This course introduces the basic principles and procedures 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. (2 Lec., 2 Lab.)

**(OFC) 152 Introduction To Records Management (3)**

A survey course in the policies and principles affecting the creation, protection, circulation, retrieval, preservation and control of business and institutional records. The course includes basic classification systems, history and status of records management, retention and disposition of records, maintenance procedures and career ladders. (3 Lec.)

**(OFC) 159 Beginning Shorthand (4)**

Prerequisites: Credit or concurrent enrollment in Office Careers 172 or one year of typing in high school. The principles of Gregg Shorthand are introduced. Included is the development of the ability to read, write, and transcribe shorthand outlines. Knowledge of the mechanics of English is also developed. Laboratory fee. (3 Lec., 2 Lab.)

**(OFC) 160 Office Calculating Machines (3)**

This course focuses on the development of skills in using office machines. Adding machines, printing calculators, and electronic display calculators, and electronic printing calculators are included. Emphasis is on developing the touch system for both speed and accuracy. Office Careers 160 is equivalent to Office Careers 192, 193, and 194. Laboratory fee. (3 Lec.)

**(OFC) 162 Office Procedures (3)**

Prerequisite: Office Careers 173 or concurrent enrollment or demonstrated competence approved by the instructor. This course bridges the gap between the basic skills courses and current office practices. Topics include records management, electronic filing, reprographics, mail, telephone usage, financial transactions, and interpersonal relations. (3 Lec.)

**(OFC) 166 Intermediate Shorthand (4)**

Prerequisites: Office Careers 159 or one year of shorthand in high school, Office Careers 172 or one year of typing in high school. The principles of Gregg Shorthand are studied. Emphasis is on increased speed dictation, accuracy in typing from shorthand notes, and beginning techniques of transcription skills. Also included are oral reading, speed building, and grammar. Office Careers 166 is equivalent to Office Careers 187, 188, and 189. Laboratory fee. (3 Lec., 2 Lab.)

**(OFC) 167 Legal Terminology and Transcription (3)**

Prerequisite: Office Careers 173 and Office Careers 185 or concurrent enrollment or demonstrated competence approved by the instructor. Legal terms are the focus of this course. Included are the spelling and use of legal terms and Latin words and phrases. Intensive practice is provided in building speed and accuracy in the transcription of legal terms. Laboratory fee. (3 Lec.)

**(OFC) 172 Beginning Typing (3)**

This course is for students with no previous training in typing. Fundamental techniques in typing are developed. The skills of typing manuscripts, business letters, and tabulations are introduced. Office Careers 172 is equivalent to Office Careers 176, 177, and 178. Laboratory fee. (2 Lec., 3 Lab.)

**(OFC) 173 Intermediate Typing (3)**

Prerequisites: Office Careers 172 or one year of typing in high school. Typing techniques are developed further. Emphasis is on problem solving. Increasing speed and accuracy in typing business forms, correspondence, and manuscripts are also covered. Laboratory fee. (2 Lec., 3 Lab.)

**(OFC) 176 Keyboarding (1)**

This course is for students with no previous training in typing. The course introduces the typewriter parts. Alphabetic keys, numeric keys, and symbol keys are covered. Fundamental techniques are refined, and speed is developed. Laboratory fee. (1 Lec., 1 Lab.)

**(OFC) 179 Office Information Systems Concepts (2)**

This course introduces information/word processing and describes its effect on traditional office operations. An understanding of basic information word processing principles, concepts, terminology and advantages of word processing environment system is introduced. This course does not include the operation of a dedicated wordprocessor or microcomputer. (2 Lec.)

**(OFC) 182 Introduction to Word Processing Equipment (1)**

Prerequisites: Office Careers 173 and Office Careers 179 or concurrent enrollment. This course introduces the fundamental techniques required in the operation of word processing equipment. Basic concepts of electronic storage and retrieval involved in creating, printing, centering, and revising documents are introduced. May be repeated for credit using different emphasis/equipment. Laboratory fee. (2 Lab.)

**(OFC) 185 Basic Machine Transcription (1)**

Prerequisite: Office Careers 172. This course introduces the basic equipment, techniques, and skills required to transcribe recorded business information into mailable documents. Emphasis is placed on grammar, punctuation, and spelling skills required in word processing operations. Automated equipment and audio transcription machines are used. Laboratory fee. (1 Lec., 1 Lab.)

**(OFC) 190 Principles of Word Processing (4)**

Prerequisite: Office Careers 173 or concurrent enrollment. This course introduces word processing and describes its effect on traditional office operations. An understanding of basic word processing principles and fundamental techniques required in the operation of word processing and transcription equipment are introduced. Emphasis is placed on grammar, punctuation, and spelling skills required in word processing operations. Office Careers 190 is equivalent to Office Careers 179, 182, and 185. Laboratory fee. (3 Lec., 3 Lab.)

**(OFC) 231 Business Communications (3)**

Prerequisites: Office Careers 172 or one year of typing in high school and Communications 131 or English 101. This practical course includes a study of letter forms, the mechanics of writing and the composition of various types of communications. A critical analysis of the appearance and content of representative business correspondence, proposals, and reports is made. (3 Lec.)

**(OFC) 256 Office Management (3)**

This course focuses on the organization, design, and control of office activities. Topics include office practice, office services, and wage payment plans. The selection, training and supervision of employees are covered. Office planning, organizing, and controlling techniques are presented. Responsibilities of the office manager are also included. (3 Lec.)

**(OFC) 266 Advanced Shorthand (4)**

Prerequisites: Office Careers 166 or two years of shorthand in high school and Office Careers 173 or two years of typing in high school. Emphasis is on building dictation speed. Producing mailable, typed transcriptions under timed conditions is also stressed. Vocabulary and extensive production work capabilities are developed. Laboratory fee. (3 Lec., 2 Lab.)

**(OFC) 273 Advanced Typing Applications (2)**

Decision-making and production of all types of business materials under timed conditions are emphasized. A continuation of skill development and a review of typing techniques are also stressed. Accuracy at advanced speeds is demanded. Laboratory fee. (1 Lec., 2 Lab.)

**(OFC) 274 Legal Secretarial Procedures (3)**

Prerequisites: Office Careers 167. This course focuses on procedures of the legal secretary. Topics include reminder and filing systems, telephone usage, dictation and correspondence, the preparation of legal documents, and the court system. Client contacts, use of law library, research techniques, timekeeping, billing, bookkeeping, and ethics are also covered. Ways to obtain a position as a legal secretary are described. (3 Lec.)

**(OFC) 282 Word Processing Applications (1)**

Prerequisites: Office Careers 190 or 182 and completion of or concurrent enrollment in Office Careers 185. This course is designed for students who have a basic knowledge of word processing equipment. Advanced word processing concepts and machine functions are developed on a specific keyboard. Special emphasis is placed on producing mailable documents. May be repeated for credit using different emphasis/equipment. Laboratory fee. (2 Lab.)

**(OFC) 283 Specialized Software (1)**

Prerequisite: Office Careers 282 or demonstrated competence approved by the instructor. Current information/word processing technology is presented. Specialized applications are performed using automated equipment which the student has previously mastered. Applications will include graphics, math functions, spreadsheets, and the use of other software packages. Dedicated word processing equipment or microcomputers will be used in this course. May be repeated for credit using different emphasis/equipment. Laboratory fee. (2 Lab.)

**(OFC) 285 Applied Machine Transcription (1)**

Prerequisites: Office Careers 173 or 190 and Office Careers 185 or demonstrated competence approved by the instructor. This course is designed for students with basic skills in machine transcription. Emphasis is placed on increasing accuracy and speed in the timed transcription of recorded information. Composing and dictating business communications are introduced. (1 Lec., 1 Lab.)

**(OFC) 713, 803, 813 Cooperative Work Experience (3)**

(See Cooperative Work Experience). (1 Lec., 15 Lab.)

**(OFC) 714, 804, 814 Cooperative Work Experience (4)**

(See Cooperative Work Experience). (1 Lec., 20 Lab.)

## PHILOSOPHY

**(PHI) 102 Introduction To Philosophy (3)**

The fundamental problems in philosophy are surveyed. Methods to deal with the problems are discussed. Ancient and modern views are examined as possible solutions. (3 Lec.)

**(PHI) 103 Critical Thinking (3)**

This course is designed to improve students' critical thinking ability. Students will both analyze and construct arguments. Elementary deductive forms, common fallacies, and inductive reasoning are considered. (3 Lec.)

**(PHI) 105 Logic (3)**

The principles of logical thinking are analyzed. The methods and tools of logic are applied to real-life situations. Fallacies, definitions, analogies, syllogisms, Venn diagrams, and other topics are discussed. (3 Lec.)

**(PHI) 202 Introduction To Social And Political Philosophy (3)**

The relationships of philosophical ideas to the community are presented. Emphasis is on concepts of natural rights, justice, education, freedom, and responsibility. (3 Lec.)

**(PHI) 203 Ethics (3)**

The classical and modern theories of the moral nature of the human are surveyed. Alternative views of responsibilities to self and society are posed. Ethical issues and their metaphysical and epistemological bases are vivified. Emphasis is on applying ethical principles in life. (3 Lec.)

**(PHI) 207 History Of Ancient Philosophy (3)**

The history of philosophy from pre-Socratic times to the Renaissance is examined. Connections are made between the pre-Socratics, Plato, and Aristotle; Stoicism, Epicureanism, and Scholasticism are considered. (3 Lec.)

**(PHI) 208 History Of Modern Philosophy (3)**

The history of philosophy from the Renaissance through the 19th century is examined. Emphasis is on continental rationalism, British empiricism, Kantian metaphysics and epistemology, and the Hegelian system as it relates to 20th century philosophies. The historical relationship between these schools of thought is explored. (3 Lec.)

## PHOTOGRAPHY

**(PHO) 110 Introduction To Photography And Photo-Journalism (3)**

Photography and photo-journalism are introduced. Topics include the general mechanics of camera lenses and shutters and the general characteristics of photographic films, papers, and chemicals. Darkroom procedures are presented, including enlarging, processing, contact printing, and exposing films and papers. Artificial lighting is studied. Laboratory fee. (2 Lec., 4 Lab.)

**(PHO) 111 Advanced Photography And Photo-Journalism (3)**

Techniques learned in Photography 110 are refined. Emphasis is on photographic communication. Laboratory fee. (2 Lec., 4 Lab.)

## PHYSICAL EDUCATION

**(PEH) 100 Lifetime Sports Activities (1)**

Beginning level skills in various lifetime sports are presented as well as rules, etiquette, safety, strategy, offensive and defensive elements, and conditioning activities where appropriate. Physical Education 100 may be repeated for credit when students select different activities in subsequent semesters. Laboratory fee. (3 Lab.)

**(PEH) 101 Health for Today (3)**

Emphasis is placed on relating course content to lifestyle to foster a better understanding of the major health issues of

today. Current issues include, but are not limited to: emotional health, chemical use and abuse, human sexuality, major diseases, physical fitness, nutrition, aging, death and dying. (This course is offered on campus and may be offered via television.) (3 Lec.)

**(PEH) 104 Beginning Soccer (1)**

Course content emphasizes the basic playing skills of both indoor and outdoor soccer at the beginner level, as well as rules, strategies, safety, offensive and defensive patterns of play, and competitive activities. Laboratory fee. (3 Lab.)

**(PEH) 110 Community Recreation (3)**

This course is primarily for students majoring or minoring in health, physical education, or recreation. The principles, organization, and function of recreation in American society are covered. (3 Lec.)

**(PEH) 112 Beginning Softball (1)**

Course content includes the basic playing skills of softball at the beginner level, as well as rules, strategies, safety, offensive and defensive elements, and competitive activities. These common elements will be applied to fast pitch, slow pitch, and coed softball. Laboratory fee. (3 Lab.)

**(PEH) 113 Beginning Handball And Racquetball (1)**

Basic handball and racquetball skills, rules and strategies are taught and class tournaments are conducted. 24 class hours are devoted to each activity. Laboratory fee. (3 Lab.)

**(PEH) 115 Physical Fitness (1)**

Students are introduced to fitness related activities for the purposes of gaining the knowledge and skills necessary to evaluate personal fitness level and to develop a personal lifelong fitness program. Activities include, but are not limited to: aerobics, circuit training, flexibility and agility exercises, and weight training. Physical Education 115 may be repeated for credit. Laboratory fee. (3 Lab.)

**(PEH) 116 Intramural Athletics (1)**

Intramural competition in a variety of activities is offered for men and women. A uniform is required. This course may be repeated for credit. Laboratory fee. (3 Lab.)

**(PEH) 117 Beginning Archery (1)**

The beginning level skills of target shooting, bow hunting, clout shooting, and wand and trap shooting are emphasized, as well as history, rules of competition, preparation and care of all archery equipment, and safety. Laboratory fee. (3 Lab.)

**(PEH) 118 Beginning Golf (1)**

Course content emphasizes the basic skills involved in club selection, golf course analysis, shot selection and execution of the golf swing. Rules, scoring, handicapping and etiquette are included. Equipment is furnished. Laboratory fee. (3 Lab.)

**(PEH) 119 Beginning Tennis (1)**

This course emphasizes the acquisition of beginning level skills in the execution of forehand strokes, backhand strokes, the serve, and the volley. Rules, strategies of the singles and doubles games, etiquette, safety, and competitive activities are included. Laboratory fee. (3 Lab.)

**(PEH) 120 Beginning Bowling (1)**

Basic bowling skills at the beginner level are emphasized as well as rules, strategies, safety, scoring, and competitive activities. All classes are conducted at an off-campus bowling lane. Laboratory fee. Lane fee. (3 Lab.)

**(PEH) 121 Folk Dance (1)**

Participation is provided in a variety of folk dances from other lands. The study of cultural backgrounds and costumes is included. Laboratory fee. (3 Lab.)

**(PEH) 123 Beginning Swimming (1)**

This course is designed to teach a non-swimmer or a shallow water swimmer only to become a safe and efficient deep water swimmer. After the development of sufficient skill to perform a modified crawl stroke, the elementary back stroke, survival floating and jumping into deep water, leveling off and changing directions, swimmers will be able to swim in deep water. Laboratory fee. (3 Lab.)

**(PEH) 124 Social Dance (1)**

This course is for students who have limited experience in dance. Ballroom and social dancing are offered. Included are fundamental steps and rhythms of the fox-trot, waltz, tango, and recent dances. "Country" dancing includes the two-step, Cotton-Eyed Joe, square dance, and other dances. Laboratory fee. (3 Lab.)

**(PEH) 125 Conditioning Exercise (1)**

This course focuses on understanding exercise and its effect on the body. Physical fitness is improved through a variety of conditioning activities. A uniform is required. Laboratory fee. (3 Lab.)

**(PEH) 126 Aerobics (1)**

This course emphasizes the development of cardiovascular endurance by utilizing choreographed routines which may combine basic dance patterns with walking, jogging, and jumping, etc. Depending on the physical fitness level of the student, each routine can be performed at different intensities. This course may be repeated for credit. Laboratory fee. (3 Lab.)

**(PEH) 127 Beginning Basketball And Volleyball (1)**

Basic basketball and volleyball rules, skills and strategies are taught and class tournaments are conducted. Sections using men's rules and women's rules may be offered separately. 24 class hours will be devoted to each sport. Laboratory fee. (3 Lab.)

**(PEH) 129 Modern Dance (1)**

This beginning course is designed to emphasize basic dance technique, including body alignment and placement, floor work, locomotor patterns, and creative movements. A uniform is required. Laboratory fee. (3 Lab.)

**(PEH) 131 Weight Training And Conditioning (1)**

Instruction and training in weight training and conditioning techniques are offered. A uniform is required. The course may be repeated for credit. Laboratory fee. (3 Lab.)

**(PEH) 132 Self-Defense (1)**

Various forms of self-defense are introduced. The history and philosophy of the martial arts are explored. The student should progress from no previous experience in self-

defense to an adequate skill level covering basic self-defense situations. Both mental and physical aspects of the arts are stressed. (3 Lab.)

**(PEH) 134 Outdoor Education (1)**

Knowledge and skills in outdoor education and camping are presented. Planned and incidental experiences take place, including a week-end camp-out. Laboratory fee. (3 Lab.)

**(PEH) 144 Introduction To Physical Education (3)**

This course is for students majoring in physical education and is designed for professional orientation in physical education, health, and recreation. The history, philosophy, and modern trends of physical education are surveyed. Topics include teacher qualifications, vocational opportunities, expected competencies, and skill testing. (3 Lec.)

**(PEH) 147 Sports Officiating I (3)**

This course is for students who choose officiating for an avocation and who want to increase their knowledge and appreciation of sports. Sports covered in this course are football, basketball, and other sports as appropriate. Students are expected to officiate intramural games. (2 Lec., 2 Lab.)

**(PEH) 148 Sports Officiating II (3)**

This course is for students who choose officiating for an avocation and who want to increase their knowledge and appreciation of sports. Sports covered in this course are softball, track and field, baseball, and other sports as appropriate. Students are expected to officiate intramural games. (2 Lec., 2 Lab.)

**(PEH) 200 Lifetime Sports Activities II (1)**

This course is a continuation of Physical Education 100. Students participate in selected activities. Instruction is at the intermediate and intermediate/advanced levels. This course may be repeated for credit. Laboratory fee. (3 Lab.)

**(PEH) 218 Intermediate Golf (1)**

Prerequisite: Successful completion of Physical Education 118 or approval of instructor. Skills and techniques presented in Physical Education 118 are refined beyond the beginner level. Analysis and practice of the golf swing, swing theory and methods, strategy, and actual course playing are emphasized. Laboratory fee. Green fees. (3 Lab.)

**(PEH) 219 Intermediate Tennis (1)**

Prerequisite: Successful completion of Physical Education 119 or approval by the instructor. Emphasis is placed on proper execution of the strokes presented in Physical Education 119 as well as on specialty shots such as the lob, overhead, and spins. Competitive activities in singles, doubles and mixed doubles will be available. Laboratory fee. (3 Lab.)

**(PEH) 223 Intermediate Swimming (1)**

Prerequisite: Successful completion of Physical Education 123, Red Cross Beginning Swimmer Certificate or approval of instructor. The correct performance of the crawl, elementary back stroke, side stroke and breast stroke will be emphasized. Some speed and endurance swimming will be required. Laboratory fee. (3 Lab.)

**(PEH) 225 Skin and Scuba Diving (2)**

Prerequisite: Physical Education 223 or demonstrated competence approved by the instructor. This course includes the use of equipment, safety, physiology, and open water diving. All equipment is supplied except mask, fins, and snorkel. The student may rent needed equipment at the time of registration. Students completing course requirements receive certification as basic scuba divers from the Professional Association of Diving Instructors (PADI) or the National Association of Underwater Instructors (NAUI) or the Young Men's Christian Association (YMCA). Laboratory fee. (1 Lec., 2 Lab.)

**(PEH) 226 Advanced Life Saving (1)**

Prerequisite: Physical Education 223 or deep water swimming ability. Successful completion of this course qualifies students for the Red Cross Advanced Life Saving Certificate. Laboratory fee. (3 Lab.)

**(PEH) 231 Intermediate Weight Training (1)**

Prerequisite: Physical Education 131. Skills and instruction in weight training techniques are developed beyond the beginner stage. This course may be repeated for credit. Laboratory fee. (3 Lab.)

**(PEH) 232 Intermediate Self Defense (1)**

Prerequisite: Physical Education 132 or demonstrated competence approved by the instructor. Students will be introduced to intermediate forms of defense and combination of self defense methods. Emphasis is on practical application of self defense movements. Laboratory fee. (3 Lab.)

**(PEH) 233 Jogging For Fitness (1)**

Development and improvement of physical fitness through jogging is emphasized. Fitness concepts and jogging skills will be introduced. Laboratory fee. (3 Lab.)

**(PEH) 234 Water Safety Instructor (2)**

Prerequisite: Current Advanced Life Saving Card. The principles and techniques for instructors in water safety and life saving classes are covered. Completion of the course qualifies the student to test for certification by the Red Cross as a water safety instructor. A uniform is required. Laboratory fee. (1 Lec., 2 Lab.)

**(PEH) 257 Advanced First Aid And Emergency Care (3)**

The Advanced First Aid and Emergency Care course of the American Red Cross is taught, presenting both theory and practice. Various aspects of safety education also are included. (3 Lec.)

## PHYSICAL SCIENCE

**(PSC) 118 Physical Science (4)**

This course is primarily for non-science majors. It is a study of the basic principles and concepts of physics, chemistry, and nuclear science. The three basic sciences are related to the physical world at an introductory level. Laboratory fee. (3 Lec., 3 Lab.)

**(PSC) 119 Physical Science (4)**

This course is for non-science majors. It focuses on the interaction of the earth sciences and the physical world. Geology, astronomy, meteorology, and space science are emphasized. Selected principles and concepts are explored. Laboratory fee. (3 Lec., 3 Lab.)

## PHYSICS

**(PHY) 111 Introductory General Physics (4)**

Prerequisite: Two years of high school algebra, including trigonometry, or the equivalent. This course is for pre-dental, biology, pre-medical, pre-pharmacy, and pre-architecture majors and other students who need a two-semester technical course in physics. Mechanics and heat are studied. Laboratory fee. (3 Lec., 3 Lab.)

**(PHY) 112 Introductory General Physics (4)**

Prerequisite: Physics 111. This course is a continuation of Physics 111. Electricity, magnetism, light, and sound are studied. Laboratory fee. (3 Lec., 3 Lab.)

**(PHY) 117 Concepts In Physics (4)**

This course is for non-science majors. It introduces principles of physics and does not require a mathematical background. Emphasis is on classical mechanics and thermodynamics. Historical developments and their impact on daily life are included. The principle of energy conservation is stressed, and current problems of world-wide energy production are examined. Laboratory fee. (3 Lec., 3 Lab.)

**(PHY) 118 Concepts In Physics (4)**

This is for non-science majors. It introduces principles of physics and does not require a mathematical background. Emphasis is on modern developments in physics. Topics include acoustics, electricity and magnetism, light and the electromagnetic spectrum, atomic physics, and relativity. Laboratory fee. (3 Lec., 3 Lab.)

**(PHY) 131 Applied Physics (4)**

Prerequisite: Mathematics 195 or concurrent enrollment in Mathematics 195. This course is primarily for students in technical programs. The properties of matter, mechanics, and heat are introduced. Emphasis is on uses and problem-solving. Laboratory fee. (3 Lec., 3 Lab.)

**(PHY) 201 General Physics (4)**

Prerequisite: Credit or concurrent enrollment in Mathematics 124. This course is designed primarily for physics, chemistry, mathematics, and engineering majors. The principles and applications of mechanics, wave motion, and sound are studied. Emphasis is on fundamental concepts, problem-solving, notation, and units. The laboratory includes a one-hour problem session. Laboratory fee. (3 Lec., 3 Lab.)

**(PHY) 202 General Physics (4)**

Prerequisites: Physics 201 and credit or concurrent enrollment in Mathematics 225. This course presents the principles and applications of heat, electricity, magnetism, and optics. Emphasis is on fundamental concepts, problem solving, notation and units. The laboratory includes a one-hour problem session. Laboratory fee. (3 Lec., 3 Lab.)



# PSYCHOLOGY

## **(PSY) 101 Introduction to Psychology (3)**

Introduction to Psychology surveys major topics in the study of behavior. Factors which determine and affect behavior are examined. Psychological principles are applied to the human experience. This course is offered on campus and may be offered via television. (3 Lec.)



## **(PSY) 103 Human Sexuality (3)**

Students may register for either Psychology 103 or Sociology 103 but receive credit for only one of the two. Topics include physiological, psychological, and sociological aspects of human sexuality. (3 Lec.)

## **(PSY) 131 Applied Psychology and Human Relations (3)**

Psychological principles are applied to human relations problems in business and industry. Topics include group dynamics and adjustment factors for employment and advancement. (3 Lec.)

## **(PSY) 201 Developmental Psychology (3)**

Prerequisite: Psychology 101. This course is a study of human growth, development, and behavior. Emphasis is on psychological changes during life. Processes of life from prenatal beginnings through adulthood and aging are included. (This course is offered on campus and may be offered via television.) (3 Lec.)



## **(PSY) 202 Applied Psychology (3)**

Prerequisite: Psychology 101. Psychological facts and principles are applied to problems and activities of life. Emphasis is on observing, recording, and modifying human behavior. Some off-campus work may be required. (3 Lec.)

## **(PSY) 205 Psychology of Personality (3)**

Prerequisite: Psychology 101. This course is an introduction to the study of personality. Topics of personality and adjustment will be studied in the context of various personality theories. Emphasis will be on the application of those topics. (3 Lec.)

## **(PSY) 207 Social Psychology (3)**

Prerequisite: Psychology 101 or Sociology 101. Students may register for either Psychology 207 or Sociology 207 but may receive credit for only one. Theories of individual behavior in the social environment are surveyed. Topics include the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. (3 Lec.)

# QUALITY CONTROL TECHNOLOGY

## **(QCT) 121 Introduction To Quality Control (2)**

Prerequisite: Credit or concurrent enrollment in Math 195. This course introduces some of the concepts and techniques currently being used by industry to prevent defective products from reaching the consumer. Included are reliability analysis, control charts, inspection and sampling plans. The language, terminology and organization of typical industry quality control functions are studied. Elementary probability and statistics concepts are presented as background. (2 Lec.)

## **(QCT) 122 Dimensional Measurement (3)**

Prerequisite: Credit or concurrent enrollment in Quality Control Technology 121 or demonstrated competence approved by the instructor. This course provides an opportunity to obtain a practical and theoretical understanding of many types of mechanical and optical measuring devices which are used in dimensional inspection. Laboratory fee. (2 Lec., 2 Lab.)

## **(QCT) 220 Physical And Environmental Testing (3)**

Prerequisite: Quality Control Technology 121. This course introduces tests and evaluations used on raw materials and fabricated parts. Topics include tensile and hardness testing, metallurgical cross-sectioning, temperature-humidity cycling, and corrosion resistance testing. Laboratory fee. (2 Lec., 2 Lab.)

## **(QCT) 227 Non-Destructive Evaluation (3)**

Prerequisite: Quality Control Technology 122. This course provides a basic background in such areas as industrial radiography, magnetic particle and penetrant inspection, eddy current, and ultrasonic testing. Laboratory fee. (2 Lec., 2 Lab.)

## **(QCT) 236 Advanced Quality Control Systems (4)**

Prerequisite: Quality Control Technology 122. A detailed study is made of the control and information systems and decision procedures necessary to effectively operate the quality control function. Topics and problems include reliability process control, failure analysis, and corrective action systems. A problem-prevention and problem-solving approach is emphasized. (3 Lec., 2 Lab.)

# READING

## **(RD) 101 College Reading and Study Skills (3)**

Comprehension techniques for reading college texts are emphasized. Also included are vocabulary development, critical reading, and rate flexibility. Study skills addressed include listening, notetaking, underlining, concentrating, and memory. (3 Lec.)

## **(RD) 102 Speed Reading And Learning (3)**

Reading and learning skills are addressed. Speed reading techniques and comprehension are emphasized. Learning and memory skills are also covered. (3 Lec.)

see pg. 101 for more REAL ESTATE

# REAL ESTATE

## **(RE) 130 Real Estate Principles (3)**

This course provides an overview of licensing for the 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 are also included. Three classroom hours will be devoted to federal, state and local laws governing housing discrimination, housing credit discrimination, and community reinvestment. (3 Lec.)



### **(LAT) 102 Beginning Latin (4)**

Prerequisite: Beginning Latin 101 or the equivalent. This course is a continuation of Latin 101. Introduction to elementary grammatical structures is completed. Vocabulary study is continued. Reading from elementary classics is introduced. Emphasis is placed on the value of Latin as background for the study of English and modern Romance languages. Laboratory fee. (3 Lec., 2 Lab.)

## **LIBRARY SKILLS**

### **(LS) 101 Introduction to Library Research (3)**

In this course the student explores the various types of print and non-print sources of information and learns to document research. Emphasis is on practical skills with a great deal of hands-on experience. The course skills consist of lectures as well as the following learning experiences. (1) examination of the specific materials covered in the lecture, (2) completion of appropriate exercises designed to build basic skills used in research, and (3) conferences with each student to determine rate of progress and to provide guidance on an individual basis. (3 Lec.)

## **MANAGEMENT**

### **(MGT) 136 Principles Of Management (3)**

The process of management is studied. The functions of planning, organizing, leading, and controlling are included. Particular emphasis is on policy formulation, decision-making processes, operating problems, communications theory, and motivation techniques. This course is offered on campus and may be offered via television. (3 Lec.)

### **(MGT) 150 Management Training (4)**

Prerequisite: Concurrent enrollment in Management 154 or demonstrated competence approved by the instructor. This course consists of supervised on-the-job training, giving practical experience to students of business management. The course is designed to develop the student's managerial skills through the completion of job-related projects which will enhance and complement classroom knowledge. (20 Lab.)

### **(MGT) 151 Management Training (4)**

Prerequisite: Concurrent enrollment in Management 155 or demonstrated competence approved by the instructor. This course consists of supervised on-the-job training, giving practical experience to students of business management. The course is designed to develop the student's managerial skills through the completion of job-related projects which will enhance and complement classroom knowledge. (20 Lab.)

### **(MGT) 153 Small Business Management (3)**

The student will study the fundamental approaches to planning, establishing, and operating a small business. The day-to-day operation of the business and reporting procedures will be studied as well as exploring the concepts of general management. (3 Lec.)

### **(MGT) 154 Management Seminar: Role Of Supervision (2)**

Prerequisite: Concurrent enrollment in Management 150 or

demonstrated competence approved by the instructor. This seminar is designed to explore the role of the supervisor from an applied approach. Emphasis is on improving leadership skills, motivational techniques, effective time management, goal-setting, planning and overcoming communication problems. (2 Lec.)

### **(MGT) 155 Management Seminar: Personnel Management (2)**

Prerequisite: Concurrent enrollment in Management 151 or demonstrated competence approved by the instructor. This course is designed to explore the manager's role in attracting, selecting, and retaining qualified employees. Planning for and recruiting employees, selecting high performers, improving interviewing skills, conducting performance appraisals, training, EEO legislation, and labor relations are emphasized through an applied approach. (2 Lec.)

### **(MGT) 157 Small Business Bookkeeping And Accounting (3)**

This course focuses on basic bookkeeping and accounting techniques for the small business. The techniques are applied to the analysis and preparation of basic financial statements. (3 Lec.)

### **(MGT) 171 Introduction To Supervision (3)**

Prerequisite: Enrollment in Technical/Occupational program or demonstrated competence approved by the instructor. This course is a study of today's supervisors and their problems. The practical concepts of modern-day, first-line supervision are described. Emphasis is on the supervisor's major functions, such as facilitating relations with others, motivating, communicating, handling grievances, recruiting, counseling, and cost accounting. (3 Lec.)

### **(MGT) 210 Small Business Capitalization, Acquisition And Finance (3)**

The student studies alternative strategies of financial planning, capitalization, profits, acquisition, ratio analysis, and other related financial operations required of small business owners. The preparation and presentation of a loan proposal are included. (3 Lec.)

### **(MGT) 211 Small Business Operations (3)**

Problems of daily operations of small business are introduced. Topics include compliance with regulations, personnel administration, accounts receivable management, and business insurance. (3 Lec.)

### **(MGT) 212 Special Problems In Business (1)**

Each student will participate in the definition and analysis of current business problems. Special emphasis will be placed upon relevant problems and pragmatic solutions that integrate total knowledge of the business process in American society. This course may be repeated for credit up to a maximum of three hours credit. (1 Lec.)

### **(MGT) 242 Personnel Administration (3)**

This course presents the fundamentals, theories, principles, and practices of people management. Emphasis is on people and their employment. Topics include recruitment, selection, training, job development, interactions with others, labor/management relations, and government regulations. The managerial functions of planning, organizing, staffing, directing, and controlling are also covered. (3 Lec.)

**(RE) 131 Real Estate Finance (3)**

Prerequisite: Real Estate 130 or concurrent enrollment in Real Estate 130 or equivalent. This course covers monetary systems, primary and secondary money markets, sources of mortgage loans, federal government programs and loan applications, processes, and procedures. Closing costs, alternative financial instruments, equal credit opportunity acts, community reinvestment act, and state housing agency are also included. (3 Lec.)

**(RE) 133 Real Estate Marketing (3)**

Prerequisite: Real Estate 130 or concurrent enrollment in Real Estate 130 or equivalent. The emphasis of this course is on real estate professionalism and ethics and the satisfaction of all parties. Topics covered include 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, Section 17.01 et seq, Business and Commerce Code. (3 Lec.)

**(RE) 135 Real Estate Appraisal (3)**

Prerequisites: Real Estate 130 and 131 or the equivalent. This course focuses on principles and methods of appraising. Topics include central purposes and functions of an appraisal, social and economic determinants of value, appraisal case studies, cost, market data and income approaches to value estimates, final correlations, and reporting. (3 Lec.)

**(RE) 136 Real Estate Law (3)**

Prerequisite: Real Estate 130 or concurrent enrollment in Real Estate 130 or the equivalent. This course examines the legal concepts of real estate land description, real property rights and estates in land, contracts, conveyances, encumbrances, foreclosures, recording procedures, and evidence of titles. (3 Lec.)

**(RE) 138 Real Estate Law: Contracts (3)**

Prerequisite: Real Estate 130 or concurrent enrollment in Real Estate 130 or equivalent. Concepts of general contract law are reviewed as required by the Real Estate License Act. Emphasis is on detailed instructions and hands-on exercises in preparation of all promulgated contract forms. The Real Estate License Act and the working process of the Broker-Lawyer Committee are included. (3 Lec.)

**(RE) 230 Real Estate Office Management/Brokerage (3)**

Prerequisites: Real Estate 130, 131, 133, 135, and 136 or demonstrated competence approved by the instructor. This course focuses on knowledge and skills required to manage a real estate office. Topics include law of agency, planning and organization, operational policies and procedures, recruiting, selection and training of personnel, records and control, and real estate firm analysis and expansion criteria. (3 Lec.)

**(RE) 233 Commercial and Investment Real Estate (3)**

Prerequisites: Real Estate 130, 131, 135 or demonstrated competence approved by the instructor. Topics include real estate investment characteristics, techniques of investment analysis, time-value of money, discounted and non-discounted investment criteria, leverage, tax shelters depreciation, and applications to property tax. (3 Lec.)

**(RE) 235 Property Management (3)**

Prerequisites: Real Estate 130, 131, and 136 or demonstrated competence approved by the instructor. This course focuses on the various aspects of managing property. The role of the property manager, landlord policies, operational guidelines, leases, lease negotiations, tenant relations, maintenance, reports, habitability laws, and the Fair Housing Act are included. (3 Lec.)

**(RE) 240 Special Problems In Real Estate (1)**

This is a special problems study course for organized class instruction in real estate. Examples of topics might include: market analysis and feasibility studies, land economics, international real estate, urban planning and development, tax shelter regulations, international money market, environmental impact and energy conservation. This course may be repeated for credit up to a maximum of 3 hours of credit. (1 Lec.)

**(RE) 241 Special Problems In Real Estate (3)**

This is a special problems study course for organized class instruction in real estate. Examples of topics might include: market analysis and feasibility studies, land economics, international real estate, urban planning and development, tax shelter regulations, international money market, environmental impact and energy conservation. This course may be repeated for credit up to a maximum of 6 hours of credit. (3 Lec.)

**(RE) 250 Real Estate Internship I (4)**

Prerequisites: Real Estate 130, 131, and 133 and concurrent enrollment in Real Estate 254. Students must submit an application to the instructor, be interviewed, and be approved prior to registration. This course provides practical work experience in the field of real estate. Principles and skills learned in other courses are applied. The employer/sponsor and a member of the real estate faculty provide supervision. job-related studies and independent research are emphasized. (20 Lab.)

**(RE) 251 Real Estate Internship II (4)**

Prerequisites: Real Estate 130, 131, and 133 and concurrent enrollment in Real Estate 255. Also, the student must submit an application to the instructor, be interviewed, and be approved prior to registration. This course is a continuation of Real Estate 250. (20 Lab.)

**(RE) 254 Real Estate Seminar I (2)**

Prerequisites: Real Estate 130, 131, and 133 and concurrent enrollment in Real Estate 250. Preliminary interview by real estate faculty is required. This course is for students majoring in real estate. A particular area or problem beyond the scope of regularly offered courses is studied. Problems are analyzed, and projects are developed. (2 Lec.)

**(RE) 255 Real Estate Seminar II (2)**

Prerequisites: Real Estate 130, 131, and 133 and concurrent enrollment in Real Estate 251. Preliminary interview by real estate faculty is required. Business strategy and the decision-making process are applied to trends in the real estate profession. Emphasis is on the use of the intern's course knowledge and work experience. (2 Lec.)

## RELIGION

### **(REL) 101 Religion In American Culture (3)**

This course examines the nature of religion in America. It covers important influences from the past and characteristic of current religious groups and movements. Emphasis is on understanding the role of religion in American life. (3 Lec.)

### **(REL) 102 Contemporary Religious Problems (3)**

Both classic and recent issues are explored. Such topics as the nature of religion, the existence of God, world religions, mysticism, sexuality and religion, and the interpretation of death are included. This course may be offered with emphasis on a specific topic, such as death and dying. (3 Lec.)

### **(REL) 201 Major World Religions (3)**

This course surveys the major world religions. Hinduism, Buddhism, Judaism, Islam, and Christianity are included. The history of religions is covered, but the major emphasis is on current beliefs. Other topics may also be included, such as the nature of religion, tribal religion, and alternatives to religion. (3 Lec.)

## SOCIOLOGY

### **(SOC) 101 Introduction to Sociology (3)**

This course is a study of the nature of society and the sources of group life and social conflict. Topics include institutions, social change, processes, and problems. (This course is offered on campus and may be offered via television.) (3 Lec.)



### **(SOC) 102 Social Problems (3)**

This course is a study of social problems which typically include: crime, poverty, minorities, deviance, population, and health care. Specific topics may vary from semester to semester to address contemporary concerns. (3 Lec.)

### **(SOC) 103 Human Sexuality (3)**

Students may register for either Psychology 103 or Sociology 103 but receive credit for only one of the two. Topics include physiological, psychological, and sociological aspects of human sexuality. (3 Lec.)

### **(SOC) 203 Marriage And Family (3)**

Prerequisite: Sociology 101 recommended. Courtship patterns and marriage are analyzed. Family forms, relationships, and functions are included. Sociocultural differences in family behavior are also included. (3 Lec.)

### **(SOC) 207 Social Psychology (3)**

Prerequisite: Psychology 101 or Sociology 101. Students may register for either Psychology 207 or Sociology 207 but may receive credit for only one. Theories of individual behavior in the social environment are surveyed. Topics include the socio-psychological process, attitude formation and change, interpersonal relations, and group processes. (3 Lec.)

## SPANISH

### **(SPA) 101 Beginning Spanish (4)**

The essentials of grammar and easy idiomatic prose are studied. Emphasis is on pronunciation, comprehension, and oral expression. Laboratory fee. (3 Lec., 2 Lab.)

### **(SPA) 102 Beginning Spanish (4)**

Prerequisite: Spanish 101 or the equivalent or demonstrated competence approved by the instructor. This course is a continuation of Spanish 101. Emphasis is on idiomatic language and complicated syntax. Laboratory fee. (3 Lec., 2 Lab.)

### **(SPA) 201 Intermediate Spanish (3)**

Prerequisite: Spanish 102 or the equivalent or demonstrated competence approved by the instructor. Reading, composition, and intense oral practice are covered. Grammar is reviewed. (3 Lec.)

### **(SPA) 202 Intermediate Spanish (3)**

Prerequisite: Spanish 201 or the equivalent or demonstrated competence approved by the instructor. This course is a continuation of Spanish 201. Contemporary literature and composition are studied. (3 Lec.)

## SPEECH COMMUNICATION

### **(SC) 101 Introduction to Speech Communication (3)**

Theory and practice of speech communication behavior in one-to-one, small group and public communication situations are introduced. Students learn more about themselves, improve skills in communicating with others, and make formal oral presentations. This course requires college-level skills in reading and writing. (3 Lec.)

### **(SC) 105 Fundamentals Of Public Speaking (3)**

Public speaking is introduced. Topics include the principles of reasoning, audience analysis, collection of materials, and outlining. Emphasis is on giving well prepared speeches. (3 Lec.)

### **(SC) 109 Voice and Articulation (3)**

Students may register for either Speech Communication 109 or Theatre 109 but may receive credit for only one of the two. The mechanics of speech are studied. Emphasis is on improving voice and pronunciation. (3 Lec.)

## THEATRE

### **(THE) 101 Introduction to the Theatre (3)**

The various aspects of theatre are surveyed. Topics include plays, playwrights, directing, acting, theatres, artists, and technicians. (3 Lec.)

### **(THE) 102 Contemporary Theatre (3)**

This course is a study of the modern theatre. The historical background and traditions of each style are included. Emphasis is on understanding the social, culture, and aesthetic significance of each style. A number of modern plays are read and selected video tapes are viewed. (3 Lec.)

**(THE) 103 Stagecraft I (3)**

The technical aspects of play production are studied. Topics include shop procedures, the planning and fabrication of scenic elements, and backstage operations. (2 Lec., 3 Lab.)

**(THE) 104 Stagecraft II (3)**

Prerequisite: Theatre 103 or demonstrated competence approved by the instructor. Emphasis is placed on the design process and individual projects. (2 Lec., 3 Lab.)

**(THE) 105 Make-Up for the Stage (3)**

The craft of make-up is explored. Both theory and practice are included. Laboratory fee. (3 Lec.)

**(THE) 106 Acting I (3)**

The theory of acting and various exercises are presented. Body control, voice, interpretation, characterization, and stage movement are included. Both individual and group activities are used. Specific roles are analyzed and studied. (2 Lec., 3 Lab.)

**(THE) 107 Acting II (3)**

Prerequisite: Theatre 106 or demonstrated competence approved by the instructor. This course is a continuation of Theatre 106. Emphasis is on characterization and ensemble acting. (2 Lec., 3 Lab.)

**(THE) 108 Movement for the Stage (3)**

Movement is studied as both a pure form and as it is used in all theatrical styles, and in the development of characterization. This course may be repeated for credit. (2 Lec., 3 Lab.)

**(THE) 109 Voice and Articulation (3)**

Students may register for either Speech 109 or Theatre 109 but may receive credit for only one of the two. Emphasis is on improving voice and pronunciation. (3 Lec.)

**(THE) 110 History of Theatre I (3)**

Theatre is surveyed from its beginning through the 16th century. The theatre is studied in each period as a part of the total culture of the period. (3 Lec.)

**(THE) 111 History of Theatre II (3)**

Theatre is surveyed from the 17th century through the 20th century. The theatre is studied in each period as a part of the total culture of the period. (3 Lec.)

**(THE) 112 Beginning Dance Technique in Theatre (3)**

Basic movements of the dance are explored. Emphasis is on swing movements, circular motion, fall and recovery, contraction and release, and contrast of literal and abstract movements. Body balance, manipulation of trunk and limbs, and the rhythmic flow of physical energy are developed. (2 Lec., 3 Lab.)

**(THE) 113 Intermediate Dance (3)**

Prerequisite: Theatre 112 or demonstrated competence approved by the instructor. Various aspects of dance are surveyed. Topics include the role of dance in total theatre, the evolution of dance styles, and the jazz style. Emphasis is on the flow of movement, body placement, dynamic intensity, level, focus, and direction. (2 Lec., 3 Lab.)

**(THE) 114 Rehearsal and Performance I (1)**

Participation in the class may include any phase of rehearsal and performance of the current theatrical presentation. This course may be repeated for credit. (3 Lab.)

**(THE) 199 Demonstration Lab (1)**

Scenes studied in various theatre classes are demonstrated to show contrast and different styles. This course may be repeated for credit. (1 Lab.)

**(THE) 201 Television Production I (3)**

Station organization, studio operation, and the use of studio equipment are introduced. Topics include continuity, camera, sound, lights, and videotape recording. (2 Lec., 3 Lab.)

**(THE) 202 Television Production II (3)**

Prerequisite: Theatre 201. This course is a continuation of Theatre 201. Emphasis is on the concept and technique of production in practical situations. (2 Lec., 3 Lab.)

**(THE) 205 Scene Study I (3)**

Prerequisites: Theatre 106 and 107. This is a continuation of Theatre 107. Emphasis is on developing dramatic action through detailed study of the script. Students deal with stylistic problems presented by the staging of period plays and the development of realism. Rehearsals are used to prepare for scene work. (2 Lec., 3 Lab.)

**(THE) 207 Scene Study II (3)**

Prerequisite: Theatre 205. This course is a continuation of Theatre 205. Emphasis is on individual needs of the performer and the various styles of production. (2 Lec., 3 Lab.)

**(THE) 208 Introduction To Technical Drawing (3)**

Basic techniques of drafting are studied. Isometrics, orthographic projections, and other standard procedures are included. The emphasis is on theatrical drafting, including groundplans, vertical sections, construction elevations, and spider perspective. (2 Lec., 3 Lab.)

**(THE) 209 Lighting Design (3)**

The design and techniques of lighting are covered. Topics include instrumentation, electricity, control and practical experience. (2 Lec., 3 Lab.)

**(THE) 210 Rehearsal and Performance II (2)**

Participation in the class may include any phase of rehearsal and performance of the current theatrical presentation. This course may be repeated for credit. (6 Lab.)

**(THE) 211 Broadcasting Communications I (3)**

Basic techniques of television and video performance are introduced. (3 Lec.)

**(THE) 212 Broadcasting Communications II (3)**

Prerequisite: Theatre 211 or demonstrated competence approved by the instructor. This course is a continuation of Theatre 203. Emphasis is on radio and television as mass media and practical applications in both radio and television. (3 Lec.)

**(THE) 236 Theatre Workshop (3)**

A course in theatre with emphasis on performance techniques in musical and repertory theatre with practical performance experience. This course may be repeated for credit. (2 Lec., 3 Lab.)

# Index

Academic Information.....	21-25
Academic Load Recommended.....	22
Academic Progress Requirement.....	34-35
Address Change.....	21
Administrators, District.....	3
Administrators, College.....	4
Admissions Information.....	17-21
Admissions Policy & Requirements.....	17
Advisment Procedures.....	20
Application & Admissions Procedures.....	17-20
Assessment Procedures.....	20
Associate Degrees.....	23-24
Athletics.....	31
Attendance of Class.....	22
Auditing.....	20
Board of Trustees.....	3
Bureau of Indian Affairs.....	34
Calendar.....	2
Certificate Programs.....	24-25
Chancellor.....	3
Classics Program.....	12
Classification of Students.....	22
Continuing Education Programs.....	29
Continuing Education Units (CEU's).....	29
Consumer Information.....	15
Cooperative Work Experience.....	27
Course Descriptions.....	68-104
Credit by Examination.....	26
Degree Requirements.....	23
Dropping a Course or Withdrawing.....	23
Educational & Special Opportunities.....	25-30
Equal Educational & Employment Opportunity Policy.....	15
Evening & Weekend College.....	29
Faculty.....	5-7
Filing Degree & Certificate Plans.....	24-25
Financial Aid.....	31-35
Flexible Entry Courses.....	27
Grade Reports.....	23
Guaranteed Student Loans.....	32
Guidance Counseling.....	30
Hazelwood Act.....	34
Handicapped Services.....	31
Health Centers.....	30
Hinson Hazelwood Loan Program.....	33
History of District.....	14
Honors.....	11
Housing.....	31
Instructors (see also Faculty).....	5-7
International Students.....	17
International Studies.....	27-28
Intramurals.....	31
Job Placement.....	31
Learning Resource Center.....	29
Non Credit Student (Audit).....	20
Non-traditional Learning.....	26-27
Organizations.....	31
Pell Grant.....	32

Pell Grant.....	32
Probation & Suspension.....	23
Reciprocal Tuition Agreement (TCJC).....	40
Refund Policy.....	19-20
Residency Requirements.....	19
Responsibilities of District.....	14
Returned Checks.....	20
SEOG Grants.....	32
Schedule Changes.....	20
Scholastic Standards.....	21
Short Term Loans.....	33
Social Security Administration.....	34
Standards of Conduct.....	15
Student Codes & Expectations.....	36-40
Student Development.....	30-31
Student Employment.....	33
Student Programs & Resources.....	30
TPEG Grants.....	32
TPEG-SSIG Grants.....	32
Technical/Occupational Programs.....	41-66
Telecourses.....	27
Testing & Evaluation Centers.....	30
Transcripts.....	23
Transfer of Credits.....	21
Transfer Program.....	25-26
Transfer Students.....	25-26
Tuition & Fees.....	18
Tutoring.....	30
Veteran's Benefits.....	34
Vocational Rehabilitation.....	34
Waiving Scholastic Deficiency.....	25

Richland College  
12800 Abrams Road  
Dallas, Texas 75243-2199