MIDLAND COLLEGE

GENERAL CATALOG

2005-2006

VOLUME XXXIII

ACCREDITATION

Midland College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4097: Telephone number 404-679-4501) to award a Bachelor of Applied Technology degree and associate degrees and certificates.

Midland College meets all guidelines and standards as set forth by the Texas Higher Education Coordinating Board.

Midland College is accredited by the following:

American Health Information Management Association
American Veterinary Medical Association
Board of Nurse Examiners for the State of Texas
Commission on Accreditation of Allied Health Educational Programs
Committee on Accreditation for Respiratory Care
Federal Aviation Administration
Joint Review Committee on Education in Diagnostic Medical Sonography
Joint Review Committee on Education in Radiologic Technology
National Association for the Education of Young Children
National League for Nursing Accrediting Commission
Texas Certification Board of Alcoholism and Drug Abuse Counselors
Texas Commission on Alcohol and Drug Abuse
Texas Department of Health
Texas Commission on Fire Protection
Texas Cosmetology Commission

Documentation may be viewed in the President's office at:

Address:	**Telephones:**
Midland College	(432) 685-4500
3600 North Garfield	(432) 570-8805
Midland, Texas 79705	(432) 570-8875

www.midland.edu

This institution is in compliance with the Title VII, Civil Rights Act of 1964.

TABLE OF CONTENTS

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EQUAL OPPORTUNITY STATEMENT

No person shall be excluded from participation in, denied the benefits of, or be subject to discrimination under any program or activity sponsored or conducted by Midland College, on any basis prohibited by applicable law, including, but not limited to race, color, age, marital status, national origin, religion, gender, disability or status as a qualified disabled veteran or Vietnam era veteran.

YOUR COLLEGE

ADMINISTRATION

The policy making and supervisory functions of the administration of the college, as provided by state law, are vested in a nine-person Board of Trustees. The Board delegates the professional responsibility to the President of the college, who is assisted by other administrative officers.

BOARD OF TRUSTEES

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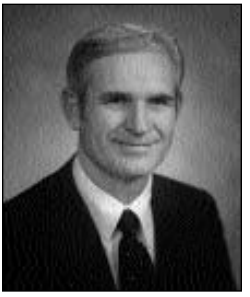

Kenneth A. Peeler
Board Member

OFFICERS OF ADMINISTRATION

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Terry Clemmer . . . . . *Dean of Student Services*

Billy Feeler . . . . . *Dean of Fine Arts and Communications*

Bob Haines . . . . . *Dean of Enrollment Management*

Becky Hammack . . . . . *Dean of Health Sciences*

Gavin Frantz . . . . . *Dean of Business Studies*

William Morris . *Dean of Social and Behavioral Sciences/Education Studies*

Curt Pervier . . . . . *Dean of Technical Studies*

Margaret Wade . . . . . *Dean of Mathematics and Sciences*

Phil Ebensberger . . . . . *Registrar*

A MESSAGE FROM THE PRESIDENT

Welcome to Midland College! All of us who are employed here are united in extending our best efforts on your behalf. We like to think of our college as student-centered. That is, we try diligently to meet your needs whether they relate to academics or the many other facets of student life. If you have questions, all you need to do is ask. We will respond. We want your experience here to be fulfilling, and we want you to meet the goals you have set for yourself.

You will immediately be impressed with the quality and dedication of the Midland College faculty. They are well prepared for their tasks. They believe in the community college philosophy: given the opportunity and motivation, people of all ages and stations in life can achieve their aspirations. Each and every member of the faculty is available to facilitate the learning process through personal contact with our most important product, you the student.

The Midland College campus is alive with a stimulating dynamic environment. You will find dozens of ways to supplement your experience with athletics, journalism, student government, music, interest groups, and a myriad of activities. We desire that you participate in campus life to the fullest extent possible. We recognize that most of you work at least part-time and that family responsibilities often take priority. Whatever your participation, the college family will be enriched by your presence.

This is your college. It exists solely for you, our students. Together we can work miracles and remove those obstacles which hold us back. Opportunity is all about us. Sharing the Midland College experience will heighten our abilities to live productively and happily. We're glad you're here!

David E. Daniel

ADMINISTRATIVE STAFF/ PROFESSIONAL STAFF

(Year indicates beginning of affiliation with Midland College)

Daniel, David E., *President;* B.A., Furman University; M.Div., Colgate Rochester; Ed.D., North Carolina State University (1991)

Alford, Sue, *Student Resource Coordinator***;** B.A., Angelo State University (2004)

Allen, Forrest L., *Sports Information Director/Assistant Athletic Director;* B.B.A., University of Texas of the Permian Basin; M.B.A. Texas Tech University (1995)

Anders, Terrance, *Intramurals Coordinator;* A.G.S., Midland College; B.S., University of Texas of the Permian Basin (1998)

Bascus, Celestina, *Talent Search Academic Advisor;* B.A., University of Texas of the Permian Basin (2004)

Baulch, Byron R., *Director of Institutional Research and Effectiveness;* B.A., M.A., University of Texas of the Permian Basin (2000)

Beikirch, Dale W., *Dean of Distance Learning and Continuing Education;* B.S., M.S., Kent State University (1999)

Bell, Rebecca, *Director of the Advanced Technology Center;* B.B.A., Texas Tech University; M.A., Webster University (1990)

Bender, Richard, *Vice President of Administrative Services;* CPA; B.B.A., M.B.A., New Mexico State University (1992)

Beversdorf, Connie, *Assistant Project Manager, Permian Basin Energy Education Project***;** B.B.A., Eastern New Mexico University (2003)

Blakeney, Mary Lou, *Executive Director of Human Resources/Payroll,* PHR; B.B.A., University of Texas of the Permian Basin (1974)

Buckley, Daniel, *Webmaster;* B.F.A., Washington University; M.F.A., Southern Methodist University (1986)

Burdette-Turland, Cynthia I., *Director of Adult Basic Education;* B.S., Texas A&I; M.A., University of Texas of the Permian Basin (1986)

Campos, Monica, *Distance Learning Coordinator;* B.S. Lubbock Christian University (1982)

Chaparro, Alfredo, *Director of Community Services;* B.B.A., M.S., Texas Tech University (2001)

Chavez, Isidro, *Computer Systems Administrator;* B.B.A., Eastern New Mexico University; M.L.S., Indiana University (1993)

Clemmer, Terry, *Dean of Student Services;* B.A., University of Texas at Austin; M.A., University of Texas Permian Basin (1989)

Collins, Jo Aline, *Librarian;* B.A., Baylor University; M.L.S., University of Texas at Austin (1976)

Coombes, Elise, *Director of Public Relations;* A.G.S., Midland College B.A., M.A., University of Texas of the Permian Basin (1981)

Curnutt, Cindy, *Purchasing Agent* (1998)

Daniel, Sandra, *Assistant to Director of Human Resources/Payroll Coordinator* (1986)

Deats, John W., *Director of Learning Resource Center;* B.S., University of Houston; M.L.S., North Texas State University (1990)

Deering, Dana, *HSI-Title V Curriculum/Technology Specialist;* B.A. University of Texas of the Permian Basin (2001)

DeLaO, Frank V., *Academic Advisor;* B.A., Texas A&M University; M.A., University of Texas Permian Basin (2001)

Diffie, Rita Nell, *Vice President Student Services;* B.S., M.Ed., Texas Tech University (1991)

Dominguez, Sonia, *Student Support Services Academic Advisor,* B.A., University of Texas at Austin (2002)

Ebensberger, Phil, *Registrar;* B.B.A., M.A., Sul Ross State University (2001)

Edwards, Bahola, *Assistant to the President and Secretary to the Board of Trustees;* A.G.S., Midland College; CPS (1982)

Esquibel Diane, *Community Liaison, Cogdell Learning Center* (2000)

Feeler, William G., *Dean of Fine Arts and Communications; A.A., Odessa* College; B.A., North Texas State University; M.A., University of Texas at Austin (1989)

Frederick, Kenda Sipes, *Distance Learning Coordinator;* B.A., University of Texas of the Permian Basin; M.Ed., Texas A & M (2004)

Franklin, Lorraine, *Data Center Manager;* A.A.S., Midland College (1998)

Frantz, Gavin, *Interim Dean, Business Studies Division;* A.A.S., Delta Community College; B.S., Southeastern Oklahoma State University (1998)

Fuller, James, *Assistant Coordinator of Developmental Studies;* A.A., San Angelo Junior College; B.A., University of North Texas; M.A., Texas Tech University (1975)

Gaona, Jaclyn, *Upward Bound Coordinator;* B.A., Angelo State University (2003)

Garza, Christy, *Video Conference Services Coordinator;* A.A.S., Midland College (2000)

Gibbs, Ryan, *Gear Up II Director;* B.A., M.P.A., Texas Tech University (2003)

Gonzalez, Rebecca, *Gear Up I Director;* B.S., Eastern New Mexico University (2000)

Grenvik, Diane, *Assistant Director, Helen L. Greathouse Children's Center;* A.A.S., Midland College (1987)

Grinnan, James S., *Director of Counseling;* B.A., University of Texas at Austin; M.S., Texas A&M University, Licensed Professional Counselor (1996)

Gunn, Charles, *Chief of Police;* B.B.A., Texas Technological College; M.P.A., Southwest Texas State University (1998)

Haines, Robert, *Dean of Enrollment Management;* B.A., Wayland Baptist University; M.Ed., West Texas A&M University (1993)

Hammack, Becky, *Dean of Health Sciences***;** A.D.N., B.S.N., Angelo State University; M.S.N., Abilene Christian University; Ed.D., Baylor University; R.N. (2002)

Hannon, Susan, *Coordinator, Continuing Education***;** B.B.A., M.A.Ed., University of Texas of the Permian Basin (2004)

Harris, Karen K., *Technical Program Coordinator;* A.A.S., Midland College (1998)

Hart, Nancy L., *Director, Bachelor of Applied Technology Admissions;* B.A., University of Texas at Austin; J.D., University of Georgia (1985)

Hayes, David, *Technical Support Manager*; A.S., American Commercial College (1996)
Hieb, Christopher J., *Graphic Artist;* A.A., Midland College; B.A., University of Texas of the Permian Basin (2001)
Horseman, Barry, *Director of Workforce Education; B.*A., University of Texas of the Permian Basin (1998)
Jacobs, Stanley, *Associate Vice President of Instruction;* B.F.A., Washburn University; M.F.A., University of Kansas; Ph.D., Texas Tech University (1971)
Jolly, Richard C., *Executive Vice President and Vice President of Instruction;* B.A., Howard Payne; M.Ed., Ed.D., Texas Tech University (1983)
Jones, Mechelle, *Talent Search Director;* B.A., Texas Tech University (2002)
Jones, Ron, *Athletic Director/Women's Baseball Coach;* B.S., Central State University; M.Ed., University of Central Oklahoma (1994)
Kirkland, Dustin, *Database Programmer;* B.S., Our Lady of the Lake University (2003)
Kirkland, Terry, *Supervisor of Grounds* (2001)
Krause, Janet, *Testing Coordinator;* B.S., University of Denver (2000)
Lawson, Betty, *Gear Up II Academic Advisor***;** B.S., New Mexico University, M.A., Eastern New Mexico University (2003)
Linder, Jeffrey, *Assistant Men's Basketball Coach;* B.B.A., Western State College (2004)
Lopez, Louisa, *Residence Hall Manager;* B.A., St. Mary's University (1999)
Lopez, **Manuel**, *Database Programmer*; A.A.S., Texas State Technical College (2004)
Luft, Willard W., *Technical Supervisor, Breath Alcohol Testing Program;* B.S., Concordia College; M.S., Montana State University (1984)
Makowsky, Michael, *HSI-Title V Basic Skills Specialist;* B.A., Texas Tech University; M.A., University of Texas of the Permian Basin (1999)
Mandujano, Diana, *Gear Up I Community Liaison;* B.B.A., Angelo State University (2004)
Martin, John Paul, *Web Designer;* A.S., Odessa College (2005)
Martinez, Jeremy, *Gear Up Community Liaison;* B.A., University of Texas Permian Basin (2001)
Matthies, Pat, *Student Advisor of Williams Regional Technical Training Center, Fort Stockton;* B.A., Texas A&M at Kingsville (2001)
May, Connie, *Accountant;* A.A.S., Midland College; B.B.A., University of Texas of the Permian Basin (2001)
Mays, Ann, *PC/Network Technician;* A.A.S., Midland College (2000)
McCarver, Chip, *Associate Dean of Public Information and Media;* A.A.S., Midland College, B.A. University of Texas at Austin, (2001)
McGuire, Paul, *Network Assistant;* B.S., Southern Nazarene University (2001)
McIntosh, Dennis, *PC/Network Technician;* A.A.S., Midland College (2000)
McKiddy, Pat, *HSI-Title V Computer Systems Developer;* B.S. University of Texas of the Permian Basin (2001)
Medley, Matt, *Men's Residence Hall Manager;* A.G.S., Midland College (2005)

Merritt, Judy Jordan, *Student Support Services Project Director;* B.A., Angelo State University; M.A., University of Texas of the Permian Basin (1999)

Miranda, Cecilia, *Automation & Technical Services Librarian/Title V Project Director;* B.S., University of Texas at El Paso; M.A.L.S., University of Wisconsin at Madison (1981)

Morris, William G., *Dean of Social and Behavioral Sciences and Education Studies;* B.A., M.A., University of Colorado; Ph.D., University of Texas at Austin (1982)

Mowry-Lee, Brenda K., *Director of Williams Regional Technical Training Center, Fort Stockton;* B.B.A., Hardins Simmons University (1995)

Nelson, Kevin, *Talent Search Academic Advisor,* B.B.A. University of Texas of the Permian Basin (2003)

Parish, Tammy H., *Workforce Education Continuing Education Assistant Coordinator;* B.A., Texas Tech University (1996)

Perez, Sean, *PC/Network Technician;* A.A.S., Midland College (2001)

Pervier, Charles, *Dean of Technical Studies*; B.S., M.S., North Texas State University (1977)

Pervier, Lyndolyn, *Assistant Director-Workforce Education/Program Coordinator;* A.G.S., Midland College (1996)

Pierce-Bratcher, Janie, *Coordinator, Workforce Education Business Training*; B.A., Stephen F. Austin State University (1995)

Piwetz, Eileen, *Vice-President of Institutional Advancement;* B.S.N., Texas Woman's University; M.A., University of Texas of the Permian Basin; Ed.D., Nova University (1981)

Prichard, Beverly B., *Director of Health Sciences Continuing Education;* B.A., University of Texas of the Permian Basin (1994)

Ramos, Yolanda, *Loan Coordinator;* A.G.S., Midland College; B.S., Lubbock Christian University (1991)

Reed, Jan, *Director of Student Activities;* B.S., M.A., Texas Tech University (1991)

Reinke, Brian, *Assistant Men's Baseball Coach;* B.A., Augustana College (2000)

Riley, Oscar "Kenneth", *Director of Physical Plant;* A.S., Mountain View College; B.A., University of Texas of the Permian Basin (1998)

Roark, Mike, *Director of Operations at Chaparral Center;* B.B.A., Eastern New Mexico University (1988)

Roome, Tracy, *Coordinator*, *Child Development Center at Manor Park;* A.A.S., Odessa College (2000)

Savage, Deana M., *Associate Vice President of Instruction;* B.A., University of North Texas State; M.Ed., Texas Woman's University; Ed.D., Texas A & M University, Commerce (1982)

Seanard, Betsy, *Coordinator of Business and Economic Development Center;* B.S., Louisiana State University; M.B.A., University of Texas of the Permian Basin (2003)

Sever, Dennis W., *Vice President of Information Technology and Facilities;* A.A.S., North Harris County College; A.A.S., Midland College; B.B.A., M.B.A., University of Texas of the Permian Basin (1984)

Sharp, Kathy, *Academic Advisor*; B.S., M.L.S., Brigham Young University (2002)

Smith, Cheree L., *Director of Upward Bound***;** B.A., M.A., University of Texas of the Permian Basin (2002)

Smith, W. Hoxie, *Director, Petroleum Professional Development Center***;** B.S., Colorado State University; M.S., University of Texas of the Permian Basin (2003)

Stevens, Mike, *Chaparral Center Director;* B.S., Texas Tech University (1981)

Thomas, Alison, *Database Programmer;* A.A.S., Midland College (1999)

Valeriano, Zaira, *Human Resources Coordinator;* A.A.S., Midland College (1997)

Vasquez, Isaac, *JobTrack Advisor*; A.S., Networking Certificate, Midland College; B.A., University of Texas of the Permian Basin (1999)

Velasquez, Charles, *Network Manager;* B.S., Sul Ross State University (1997)

Vickery, Julia, *Student Life Director;* B.A., M.A., University of Kansas (1997)

Wade, Margaret, *Dean of Mathematics and Science;* B.A., Stephen F. Austin; M.S., Ed.D., Texas Tech University (1990)

Wallace, J. Don, *Director of Media Services*; B.A., University of Texas of the Permian Basin (1997)

Webb, Donna, *Job Placement Coordinator;* B.A., University of Texas of the Permian Basin (2004)

Werntz, Lindsay, *Assistant Women's Basketball Coach;* B.A., Highland Community College; M.S., Marshall University (2004)

West, Deborah, *Electronic Resources Librarian*; B.S., University of Texas at Austin, M.L.S., University of Texas at Austin (2004)

Wetendorf, Becky, *Associate Director of Financial Aid;* B.S., University of Texas of the Permian Basin (1999)

Wetendorf, Trey, *Admissions and Recruitment Coordinator;* B.S., Texas Christian University Ft. Worth; M.Ed., Texas Tech University (2000)

Whilden, Jennifer, *Residence Hall Manager* (2004)

Williams, Dale, *Counselor, Bachelor of Applied Technology,* B.A., M.A., Marshall University (2002)

Williams, Latisha, *Director Financial Aid;* B.S., Texas A&M University, M.B.A., University of Texas of the Permian Basin (1998)

Wood, Peggy, *Coordinator of Developmental Studies*; *HSI-Title V Activity Director;* B.A., University of North Colorado; M.Ed., Colorado State University (1989)

Zenteno, Elizabeth, *Associate Director Cogdell Learning Center*; B.A., University of Notre Dame (2004)

Midland College Board of Trustees and MC President, Dr. David Daniel

FULL-TIME FACULTY

Midland College is extremely fortunate to maintain a faculty of dedicated student centered instructors. The full time faculty listed here have been assembled as of February 2005 because of their professional expertise and their ability to meet individual student's learning needs. This list will vary somewhat from year to year.

(Year indicates beginning of affiliation with Midland College)

Allen, David, *Professor, Drama;* B.F.A., Ithaca College; M.A., University of Connecticut; Ph.D., Texas Tech University (1998)

Allen, Diane, *Instructor, English*: B.A., Brigham Young University; M.A., University of Texas at El Paso (2004)

Allen Katherine, *Instructor, Speech*; B.A., M.A., Texas Tech University (2004)

Almaguer, Fernando*, Professor, Government;* B.S., Abilene Christian University; M.A., Baylor University (1991)

Anderson, John*, Instructor, Chemistry;* B.S., Southeastern Oklahoma State University; M.S., University of North Texas (1999)

Avery, Doug, *Associate Professor, Economics and Welding;* A.G.S., Midland College, B.B.A., M.B.A., University of Texas of the Permian Basin (1999)

Bailey, Carol*, Professor, Art*; B.A., Texas Tech University*;* M.A., Fort Hays State University (1992)

Bartha, Gregory, *Respiratory Care Medical Director;* B.S., Stanford University; M.D., Yale University School of Medicine (1991)

Belazi, Omar, *Professor, Business Administration;* B.C., University of Libya; M.B.A., D.B.A., Texas Tech University (1982)

Bewley, Rabon, *Instructor, Instrumental Music;* B.A., Southeastern Oklahoma State University; M.M., Pittsburgh State University (1999)

Bezinque, Kim, *Instructor, Associate Degree Nursing;* B.S.N., Pittsburgh State University; M.S.N., Texas Tech University; Certified Pediatric Nurse; R.N. (1991)

Bostic, Bert, *Instructor, Music*; B.A., Marshall University (1995)

Brown, Elizabeth, *Professor; Program Director, Diagnostic Medical Sonography*; A.A., Northeastern A&M; B.S.R.T.(N), B.S.R.T.(U), University of Oklahoma Health Sciences Center; M.S.R.S., Midwestern State University; R.D.M.S. (2000)

Brown, Sylvia A., *Associate Professor, Information Technology;* A.A.S., Midland College; B.S. Lubbock Christian University; Microsoft Certified Master Instructor (1993)

Cadena, Angelita, *Associate Professor, Business Administration;* B.S., Texas A & I; M.B.A., University of Denver (2004)

Carrillo, Margie, *Instructor*, *Mathematics;* B.S., College of the Southwest (2001)

Carroll, Quinn B., *Instructor, Program Director; Radiography Technology;* B.S., University of Utah; M.Ed., University of Wyoming; University of Utah Health Sciences; R.T.(R) (1985)

Christensen, Deon, *Instructor, Professional Pilot Program;* M.S., University of Texas at Dallas (2001)

Clarkson, Walter W., *Professor*, *Information Technology/Electronics;* A.S., A.A.S., Midland College; CET (1982)

Coldiron, Juanita, *Instructor; Associate Degree Nursing*; A.D., Morris Harvey College; B.S.N., M.S.N., West Virginia University; R.N. (2003)

Coombs, Kerry, *Professor, Program Director, Veterinary Technology;* A.S., Rick's College; B.S., Brigham Young University; D.V.M., Colorado State University (1994)

Cruz, Yvonne, *Instructor, Associate Degree Nursing;* A.D.N., Miami-Dade Community College; B.A., Texas Tech University; B.S.N., Texas Tech University Health Sciences Center; M.S.W., Barry University; R.N. (2004)

Dixon, Michael*, Instructor, Mathematics;* B.S., M.A., University of Texas of the Permian Basin (1999)

Draper, James, *Professor*; *Program Director, Information Technology;* B.S., University of Texas at Austin; M.S., University of Texas of the Permian Basin; CCAI, CCNA, MCP (1999)

Dummer, Terry, *Assistant Professor, Information Technology/Electronics;* A.A.S., Midland College; B.A., University of Texas of the Permian Basin (1996)

Duran, Torivio, *Instructor, Building Science Program;* A.S.G.S., Midland College (2004)

Durham, L.C., *Instructor, Director, Professional Pilot Program*; A.G.S. Midland College (2002)

Edens, David, *Assistant Professor,* Psychology and Sociology; M.S., B.A., University of Texas of the Permian Basin (1985)

Elder, Erica, *Kinesiology/Physical Education; Women's Volleyball Coach*; B.A., Austin College; M.Ed., Southeastern Oklahoma State University (2002)

Escamilla, Lacye, *Instructor*, *Biology;* B.S., M.S., Sul Ross State University (2001)

Fields, J. Michael, *Instructor, Cosmetology;* A.A.S., El Paso Community College, Texas Cosmetology Operator/Instructor License (2004)

Ford, Sonia, *Instructor, Mathematics***;** B.S., M.A., Eastern New Mexico University (2002)

Franks, Jerry, *Professor, Government and Philosophy;* B.A., University of Alabama at Tuscaloosa; Ph.D., University of Texas at Austin (1981)

Frantz, Gavin, *Professor, Information Technology/Electronics;* A.A.S., Delta Community College; B.S., Southeastern Oklahoma State University (1998)

Garner, Daniel, *Instructor, Automotive Technology;* A.A.S., New Mexico Junior College (1995)

Gilmour, Terry, *Associate Professor, Government;* B.S., M.A. West Texas State University; Ph.D., Texas Tech University (1997)

Givens, Dennis, *Assistant Professor, Director Aviation Maintenance Technology;* A.S., South Plains College, A & P, I.A., W.T.E., Certified Vocational Instructor (1991)

Goodyear, Russell, *Professor, English, Humanities, Latin, and Spanish;* B.A., Henderson State University; M.A., University of Arkansas; Ph.D., University of Arkansas (1993)

Hargrove, Steve, *Instructor, Automotive Technology;* A.A.S., Odessa College (1994)

Heathman, William, *Instructor; Clinical Director, Radiography;* University of Iowa Hospital; B.S., University of Nevada; R.T.(R) (1986)

Hendrickson, Dan J., *Respiratory Care Medical Director;* B.S., Nebraska Wesleyan University; M.D., University of Nebraska Medical Center (1993)

Hernandez, Adrian, *Veterinary Technology***;** A.A.S., Midland College; B.S., Texas A&M University (2002)

Hernandez, Tomas O.*, Instructor, Biology;* B.S., M.S., Sul Ross State University (1995)

Herring, Amy, *Assistant Professor, Business Administration;* B.B.A., M.E., Texas Tech University (2004)

Hinds, Claudia, *Assistant Professor, Biology;* B.S., M.S., Colorado State University (1991)

Hires, Gary J., *Instructor, Workforce Continuing Education*; B.M.E., Texas Christian University (1993)

Hodge, Kay*, Professor, Mathematics*; B.A., M.A., Ed.D., Texas Tech University (1988)

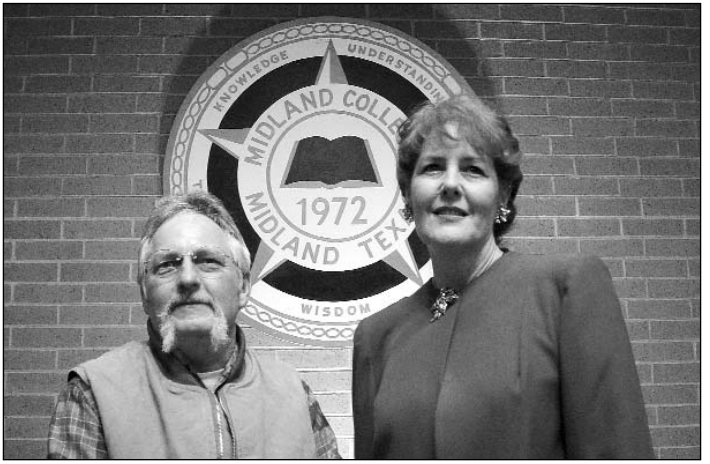
Hooker, Carla, *Coordinator, Vocational Nursing-Fort Stockton;* A.A.S., Howard College (2003)

Houck, Michael L. Todd, *Assistant Professor, History;* B.A., M.A., Ph.D., Texas Tech University (2002)

Howell, Pamela R., *Professor, English;* B.A., Southern Arkansas University; M.A., Ph.D., Texas Christian University (1983)

Hubble, Casey J., *Instructor*, *Government;* B.A., Wichita State University; M.A., Baylor University (2002)

Johnson, Doug, *Associate Professor, Information Technology;* A.A.S., Midland College; B.S., University of Texas at Arlington (1999)



2005 Teaching Excellence Award Winners
Dan Ledbetter and Laura McKenzie

Jolliffe, Teresa, *Instructor, English;* B.A., M.A., Texas Tech University (2000)

Jones, James "Diego", *Professor, Modern Languages;* B.A., M.A., West Texas State University; Ph.D., Texas Tech University (1978)

Jones, Susan, *Professor; Associate Degree Nursing*; B.S.N., West Texas State University; M.S., Corpus Christi State University; R.N. (1996)

Jordan, Linda, *Instructor, Vocational Nursing;* A.A.S., Midland College; R.N. (1999)

Jordan, Michael, *Professor, Music;* B.M.Ed., University of New Mexico; M.M., University of Colorado; D.M.A., University of Michigan (1981)

Keesee, Rebecca Lea, *Assistant Professor, Associate Degree Nursing;* B.A., Texas A&M University; B.S.N., Texas Tech Health Sciences Center; M.S.N, West Texas A&M University; R.N. (2001)

King, Bruce, *Instructor, Aviation Maintenance Technology;* A & P (2000)

Korbach, Debbie, *Assistant Professor; Associate Degree Nursing*; B.S.N., University of Texas; M.S.N., Virginia Commonwealth University; Women's Health Nurse Practitioner; R.N. (2002)

Lacy, Frank, *Instructor, Criminal Justice, Legal Assistant;* B.B.A., National University; J.D., Texas Tech University (2001)

Lawrence, Madylon, *Instructor*, *Vocational Nursing;* A.D.N., Odessa College; B.S.N., University of Texas of the Permian Basin (2001)

Leach, Ann, *Instructor, Program Director, Kinesiology/Physical Education;* B.S., Iowa State University; M.A., Sul Ross State University (1999)

Ledbetter, Dan, *Professor, Welding Technology;* B.S., North Texas State University; M.S., East Texas State University (1999)

Lindsey-Hicks, Glenda, *Professor, English;* B.A., University of Oklahoma; M.A., Ph.D., Oklahoma State University (1981)

Lumpkin, Adriana, *Associate Professor*, *Information Technology;* B.S., Sul Ross State University (1999)

Mangum, Paul D., *Professor*, *Biology;* B.S., M.S., Ph.D., Texas Tech University (1995)

Matthews, Ethel, *Instructor, Biology;* B.A., Our Lady of the Lake University; M.S., University of Texas of the Permian Basin (1993)

McCasland, Grant, *Men's Basketball Coach*; B.S., Baylor University; M.S., Texas Tech University (2003)

McClure, Wayne, *Professor, History;* B.A., Austin College; M.A., Ph.D., Texas Christian University (1976)

McKenzie, Laura, *Assistant Professor, English;* B.A., Eastern New Mexico University; M.A., University of Texas of the Permian Basin (2001)

Middleton, Stan, *Instructor, Clinical Director, Respiratory Care;* A.A.S., Midland College; B.S., University of Texas of the Permian Basin; R.R.T., R.C.P. (1995)

Mielkus, Jim, *Professor*, *Professional Pilot Program;* B.S., Industrial Education, Iowa State College (2001)

Mikeska, Sonya, *Instructor, Athletic Trainer and Kinesiology/Physical Education;* B.S., M.S., Angelo State University (1996)

Mills, Jerry, *Assistant Professor, History and Government;* B.S., M.S., Texas A&I University (1991)

Mock, Lynn, *Associate Professor*, *Vocational Nursing;* A.A.S., Amarillo College; B.S.N., West Texas State University; R.N. (2001)

Morris, Betty, *Professor, Music;* B.M., North Texas State University; M.S., Juilliard School of Music; M.A., Texas Tech University; D.M.A., North Texas State University (1979)

Moss, Barry Kent, *Professor, Photography;* B.F.A., Murray State University; M.F.A., Southern Methodist University (1985)

Newton, Banay, *Instructor, Chemistry;* M.S., Stephen F. Austin State University (2004)

Nicholson, Gena, *Instructor*, *Mathematics;* B.S., University of Texas at Austin (2001)

Nye, Joseph G., *Professor*, *Computer Graphics Technology;* A.A., Eastfield Community College; B.S., M.S., North Texas State University (1982)

O'Hara, Thomas, *Professor, Physics;* B.S., University of Texas at Austin; M.S., Ph.D., Louisiana State University (1978)

Oliver, Marion, *Instructor, Director, Fire Protection;* A.A.S., Midland College (1997)

Pape, Karen, *Associate Professor, English; Director, Writing Lab;* B.A., M.A., University of Texas of the Permian Basin (1996)

Patterson, Craig, *Instructor, Professional Pilot Program*; A.A.S., Kansas State University (1999)

Patterson, Donna, *Associate Professor, Modern Languages; Director, Language Lab*; B.A., M.A., Texas Tech University (2000)

Peetz, Helen, *Instructor, Associate Degree Nursing;* B.S.N., The University of Texas System School of Nursing; M.S.N., Texas Tech University Health Sciences Center School of Nursing; R.N. (1999)

Peetz, Robert, *Professor, Criminal Justice;* A.A., Central Texas College; B.S., M.C.J., American Technological University (1982)

Penz, Ed, *Program Director, Long Term Care;* Diploma, Illinois Masonic Medical Center School of Nursing; B.S.N., M.S., DePaul University; R.N. (1999)

Penny, Linda*, Professor, Mathematics;* B.A., M.S., Texas A&M University (1999)

Pickett, Vickie, *Assistant Professor*, *Information Technology;* A.A.S., Midland College; B.S., M.B.A., Computer Science, University of Texas of the Permian Basin (1998)

Poage, E. Don, *Instructor*, *Program Director, Alcohol and Drug Abuse Counseling;* B.B.A., University of Texas at Austin; M.A., University of Texas of the Permian Basin (1998)

Poss, Delnor, *Kinesiology/Physical Education; Men's Golf Coach;* B.B.A., Hardin-Simmons University; M.Ed., Sul Ross University (1977)

Ramharter, Steve, *Kinesiology/Physical Education; Baseball Coach;* B.A., Rice University; M.Ed., Texas Tech University (2000)

Ramirez, Victor, *Instructor, Permian Basin Energy Education Project***;** B.A., University of Texas of the Permian Basin (2003)

Ramos, Tommy, *Kinesiology/Physical Education; Women's Softball Coach;* A.G.S., Midland College; B.S., University of Texas of the Permian Basin (1989)

Randle, Susan, *Assistant Professor, Art;* B.A., University of Texas of the Permian Basin; B.F.A., University of Texas at Austin; M.A., Fort Hays State University (1997)

Richard, Patricia, *Assistant Professor*, *Associate Degree Nursing*; A.D.N., B.S.N., M.S.N., Angelo State University; R.N. (2003)

Richardson, Glen, *Professor*, *Chemistry;* B.A., Hardin Simmons University; M.A., University of Texas at Austin (1985)

Rosen, Andree, *Professor*, *Legal Assistant;* B.A., University of Texas at Austin; J.D., St. Mary's University School of Law (1998)

Santonino, Michael D. III, *Trobaugh Chair of Free Enterprise and Associate Professor of Technology Management;* A.A.S., Queensborough Community College, B.S.E.E., New York Institute of Technology; M.B.A., D.B.A., Nova Southeastern University (2003)

Schneider, G. Michael, *Instructor, Sociology;* B.A., California State University at Fullerton; M.A., University of Northern Colorado (1991)

Sevcik, Lenora, *Instructor, Associate Degree Nursing;* A.A.S., Delmar College; M.S.N., B.S.N., Texas Tech University Health Sciences Center; R.N. (2001)

Shellenberger, Anita, *Assistant Professor, Information Technology;* A.A.S., Midland College (1999)

Smith, Joe, *Instructor, Welding Technology;* A.G.S., Midland College (1989)

Smith, Travis, *Instructor, Aviation Maintenance*; A & P (2001)

Steiner, Valerie, *Professor, Associate Degree Nursing;* A.A.S., Midland College; A.A., Fullerton Community College; B.A., California State University; M.A. Central Michigan University; M.S.N., University of Texas at El Paso. Certified, Ambulatory Women's Health Care Nurse Practitioner; R.N.C. (1998)

Stotts, Rita, *Program Director, Child Care and Development; Director, Helen L. Greathouse Children's Center and Manor Park Child Care Center, Inc.;* A.G.S., Midland College (1987)

Sumners, Ted, *Professor*, *Automotive Technology;* A.S.G.S., Midland College; B.A.A.S., Texas State University (2001)

Taylor, Warren, *Professor, Art;* B.F.A., Bethany College; M.A., M.F.A., Fort Hays State University (1979)

Teel, Melinda, *Instructor; Program Director*, *Health Information and Technology;* A.A.S., South Plains College; R.H.I.T., C.C.S. (2004)

Templeton, Bob, *Allison Chair of Journalism;* B.S., East Texas State University; M.J., North Texas State University (1986)

Thompson, Donna T., *Professor*, *Psychology;* B.A., Michigan State University; M.A., Ph.D., University of California at Los Angeles (1990)

Tindall, Tyler, *Professor, Speech;* B.S., M.A., West Texas State University; Ed.D., Texas Tech University (1977)

Truitt, David, *Professor*, *Mathematics;* B.S., M.A., Eastern New Mexico University (1979)

Van Husen, Laura, *Instructor, Mathematics;* B.A., University of Texas at Austin (1998)

Vest, Karen, *Instructor, Mathematics;* B.S., Southeastern Louisiana University (2000)

Watson, Rebecca T., *Professor, English;* B.A., M.A., University of Oregon (1975)

Webb, Lynda, *Instructor, Reading/English; Director, Reading*; B.A., Baylor University; M.A., University of Tennessee at Chattanooga (2002)

Weidmann, Robert, *Instructor, Program Director, Respiratory Care;* B.S., Southern Utah State College; R.R.T., R.P.F.T., R.C.P. (1984)

Westfall, Dale, *Professor, Business Administration;* B.B.A, M.B.Ed., West Texas State University (1979)
Wetendorf, Fred H., Jr., *Instructor, Geology;* B.S., M.S., Southern Illinois University (1994)
Williams, Mary, *Instructor, English;* B.A., Texas Tech University; M.A., University of Texas of the Permian Basin; Ph.D., Texas Tech University (2001)
Willis, Joseph, *Assistant Professor, Speech;* B.A., Eastern New Mexico University Speech; M.A., Texas Tech University (2004)
Willis, Kim, *Assistant Professor, Program Director, Emergency Medical Services;* B.S., Eastern New Mexico University; M.S., University of Texas of the Permian Basin; LP (2000)
Wood, Tracie, *Assistant Professor; Coordinator, Vocational Nursing;* A.A.S., Midland College; B.S.N., Texas Tech Health Sciences Center; R.N. (2001)
Wood, Wendy, *High School Health Occupations Instructor*; A.A.S., Odessa College, R.N. (2002)
Young, Wayne, *Professor, Air Conditioning/Refrigeration;* B.S.O.E., Wayland Baptist University (1980)
Zabel, Andrea C., *Professor*, *Psychology;* B.A., Texas Tech University; M.S., Angelo State University; Ed.D., Texas Tech University (1990)

FULL TIME LAB FACULTY

Midland College gratefully acknowledges the following individuals who serve as full time lab faculty as of February 2005. This list may vary in different semesters according to student needs.

Cochran, Cindy, *Instructor, Biology;* B.S., Texas Tech University (1998)
Goll, David, *Aeronautical Technology*; B.S. Kansas State University (2003)
Lanier, Karen, *Journalism;* A.A., Midland College, B.A., University of Texas of the Permian Basin (1994)
Lentner, William, *Information Technology;* A.A.S., Midland College (2000)
McGowen, Roy, *Information Technology;* A.A.S., Midland College; CCNA (2002)
Scharf, Nancy, *Information Technology;* A.A.S., Midland College (1993)
Segovia, Raquel, *Information Technology*; A.A.S., Midland College (2002)
Upchurch, Glenda, *Accounting;* A.A.S., Midland College (1994)
Wellborn, Lee, *Aeronautical Technology;* B.S. Kansas State University (2003)
Welch, Lisa, *Instructor, Biology;* B.S., University of Wyoming, M.S., Texas Tech University (1999)

ADJUNCT FACULTY

Midland College gratefully acknowledges the following individuals who serve as adjunct faculty members as of February 2005. This list may vary in different semesters according to student needs.

ACCOUNTING
- Upchurch Glenda, A.A.S.

AGRICULTURE
- Johnson, Dustie, B.S.

ALLIED HEALTH
- Bartold, Stephen, M.D.
- Dennis, Larry, PA-C, MPAS
- Milhauser, Steven, PA-C
- Roch, James, PA-C
- Runyan, Jack, PA-C, Ph.D.
- Wilson, Larry, M.D.

ALCOHOL AND DRUG ABUSE COUNSELING
- Dorethy, Daniel, B.A., M.Ed.

ANTHROPOLOGY
- Foster, Pamela, M.A.

ART
- Curry, Julie, M.A.
- Holland, Dana, M.A.
- Vickery, Eric, M.F.A.

AUTOMOTIVE
- Avalos, Pete, A.A.S.
- Berry, Jay, A.A.S.
- Campbell, Lance, A.A.S.

AVIATION MAINTENANCE
- Hooker, Ernie, B.S.
- Wallin, Ronald, A & P

BIOLOGY
- Belizaire, Amelia, B.S.N.
- Burdette, Sue, B.S., M.S.
- Coombs, Robin, B.S.
- Elias, Dan, B.S., M.S.
- Humphrey, Denise, B.S.
- Johnson, Dustie, B.S.
- Kelso, Bethany, B.S.
- Larson, Greg, M.S.
- Miller, Jill, B.A.
- Mills, Billy, M.S.
- Webb, Daniel, B.S., M.S.

BUILDING SCIENCE
- Chandler, Thomas, A.S.G.S.

BUSINESS
- Burden, Richard, L.L.M, J.D.

CHEMISTRY
- Firkins, Justin, B.S.

CHILD CARE AND DEVELOPMENT
- Aleman, Estella, M.A.
- Fields, Donna, M.S.
- Johnson, Faye, M.S.
- Munden, Leisha, M.A.
- Nichols, Barbara, B.A.

COMPUTER GRAPHICS TECHNOLOGY
- Baker, Vanessa, A.A.S.
- Culver, Charlotte, A.S.G.S.
- Ruckman, David, A.A.S.
- Pina, Julio, A.A.S.

CONTINUING EDUCATION
- Alexander, Clayton
- Brown, Sylvia
- Brunson, Brandon
- Chandler, Tom
- Cooper, Brian
- Crenshaw, Susan
- Culver, Charlotte
- Cunningham, Chris
- Fillmore, Guinn
- Forrest, Margie
- Foster, Kim
- Gore, Donna
- Hannah, Paul
- Harbold, Doug
- Hartley, Caleb
- Haskell, Ryan
- Herring, Amy
- Holley, Janice
- Houk, Gene
- Johnson, Pete
- Kimberly, Marion
- Klattenhoff, John
- Larson, Charlotte
- Leggett, Danielle
- Lyons, David
- McAdoo, Bruce
- McMurries, Brandon
- Moore, Ashley
- Neilitz, Nathan
- Pausé, Paul
- Price, Phyllis
- Printz, Carol
- Routh, William

CONTINUING EDUCATION (cont.)
- Saunders, Margaret
- Sigler, Missey
- Smith, Todd
- Talley, Jennifer
- Taylor, Eloise
- Underwood, April
- Vasquez, Isaac
- Welch, Ofelia
- Winston, Dee Ann
- Young, Jake

COSMETOLOGY
- Camarillo, Joe James, A.A.S.
- Reeves, Linda
- Sovil, Jerri
- Wilcox, Terisa, B.A.

CRIMINAL JUSTICE
- Bell, Allen, M.S.

DRAMA
- Jebsen, Timothy, M.A.

ECONOMICS
- Franks, Hugh, M.A.

EDUCATION
- Brooks, Paul, M.Ed

EMERGENCY MEDICAL SERVICES
- Barnes, Kevin, RN, EMT-P
- Branch, Charlotte, EMT-P
- Derrick, Bill, EMT-P, RN
- Dickson, Jeff, EMT-P
- Galindo, Augustine, EMT-P
- Gonzalez, Ismael, EMT-P
- Heredia, Jr., Manuel, EMT-P
- Hodges, Steve, EMT-P
- Marshall, Matt, EMT-P
- Martin, Bill, EMT-P
- Moseley, Travis, EMT-P
- Owens, Rick, EMT-P
- Rodriquez, Trey, EMT-P
- Stark, Daniel, EMT-P
- Stites, Stephen, EMT-P
- Valeriano, Gary, EMT-P
- Williams, Jack, LP, RN

ENGLISH
- Brazell, Lois, M.A.
- Carrillo, Aundrea, M.A.
- Cline, Judith, M.A.
- Dougharty, Jerri, M.A.
- Favor, Katherine, M.A.
- Fitts, Claudia, M. Ed.
- Griffin, Horace, B.A., M.A.
- Henegar, Christy, M.A.
- Holland, Dana, M.A.

ENGLISH (cont.)
- Huelster, Dorthea, M.A.
- Jackson, Melissa, M.A.
- Johnson, Lori, B.S.
- Johnson, Michelle, B.S.
- Koesjan, Lily, M.E.
- Knight, Josh, M.A.
- Landrum, Kathy, M.A.T.
- Lorenz, James, M.S.E.
- Maples, Jill, M.A.
- Mendez, Constance, M.A.
- Nunley, Elizabeth, M.A.
- Ogrin, Dee D., M.S.
- Porter, Alison, B.A.
- Sexton, Janet Kaye, M.A.
- Singleton, David, M.A.
- Walker, Geoff, M.A.
- Williams, Leslie, Ph.D.
- Zachry, Katanna, M.A.

FIRE PROTECTION
- Kuhn, Mark, A.A.S.
- Muller, Robert, A.A.S.

GEOLOGY
- Cuffey, Clifford, M.S.
- Erskine, Woody, B.S.
- Gawloski, Joan, B.S., M.S.
- Lawler, Sydney, B.A., M.S.

GOVERNMENT/POLITICAL SCIENCE
- Arnold, John, M.S.S.
- Hammon, Greg, M.A.
- Manning, Sam, Ed.D.
- Meador, William, M.A.

HEALTH INFORMATION TECHNOLOGY
- Bustamante, Ana, R.H.I.T.
- Cosner, Denise, RN; BSN

HEALTH SCIENCES CONTINUING EDUCATION
- Bautista, Tammy, HUC
- Bell, Diana, RN
- Bersosa, Alfred
- Bragg, Johnny L.
- Brown, Elizabeth, MSRS, RDMS
- Corbett, Sherry, RN
- Costilla, Julie
- Dodson, Michael
- Donaldson, Vaughn, EMT-P
- Edwards, Linda, CNA
- Faught, Brenda
- Fields, Donna, MS
- Fitch, John, RRT

HEALTH SCIENCES CONTINUING EDUCATION (cont.)
- Fryar, Thomas, RPH
- Grenvick, Diane
- Heredia, Yalina L.
- Heathman, William, BS, RTR
- Heaton, Donna, CNA
- Inge, Melissa, CNA
- Ingram, Berry, EMT-P
- Johnson, Dusty L., Ph.D.
- Jones, Susan, RN, MS, CS, LPC
- Jordan, Linda, AAS, RN
- Lawrence, Madylon, RN, AAS, BSN
- Lothringer, Joan, RN
- McBurney, Marilyn, A.S.C.P.
- Middleton, Stan, AAS, BS, RRT, RCP
- Mock, Lynn, BSN, RN
- Munden, Leisha L., M.A.
- Oliver, Marion, EMT-P
- Partridge, Jr., Toby, EMT-P
- Penz, Edward, RN, CNA, BC, MS
- Powell, Linda, LVN
- Roome, Tracy D.
- Sevcik, Lenora C., RN, MSN
- Stotts, Rita, AGS
- Torello, Penelope, ABOC
- Waldrop, Terri, AAS, CPS
- Weidmann, Robert, RRT, RPFT, RCP
- Williams, Jack, LP, RN
- Willis, Jack K., BS, EMT-P, LP
- Wood, Tracie J., AAS, BSN, RN
- Wright, Kelli

HISTORY
- Arnold, John, M.S.S.
- Bland, Kenneth, M.A.
- Cooper, Doris, M.A.
- DeLaO, Frank, M.A.
- Henry, Paula, M.A.
- Holguin, Rudy, M.A.
- Hurt, Randy, M.L.S.
- Kennedy, Damon, M.A.
- Linder, Shirley, M.A.
- Little, Terry, M.A.
- Meador, William, M.A.
- Powers, Kristi, M.A.
- Scarbrough, Carey, M.A.
- Synatschk, Debra, M.A.
- Wilson, Susan, M.A.

HUMANITIES
- Cain, Beth, M.A.

INFORMATION TECHNOLOGY
- Casias, Ida, A.A.S.
- Cobb, Frances, A.A.S.
- Dennison, Tammy, M.S.
- Galvan, Jo Lea, A.A.S.
- Scharf, Nancy, A.A.S.
- Segovia, Raquel, A.A.S.

KINESIOLOGY/PHYSICAL EDUCATION
- Armstrong, Lance, Tennis Teaching Professional
- Becker, Steve, Shodan/Black Belt
- Brian, Christopher, Certified Tae Kwon Do Instructor
- Courter, Price, PGA License
- Dulin, Leon, Ed.D
- Garcia, Gilbert, M.Ed.
- McReynolds, Melinda, Certified Aerobics Instructor
- Roberts, Christy, Certified Aerobics Instructor (Step-Kickboxing Trainer)
- Singh, Lupe, Certified Aerobics Instructor
- Smith, Karen, B.A.
- Speight, Becky, Certified Aerobics Instructor
- White, Dana, Certified Yoga-Fit Training Program Level II, taught and owned Dance Studios

LEGAL ASSISTANT
- Byer, Elizabeth, J.D.
- Lacy, Frank, J.D.

MATHEMATICS
- Battle, Jane, B.S.
- Bobo, Sarah, B.S.
- Burgess, Oneita, B.S. M.Ed.
- Cranford, Sara, B.S., M.Ed.
- Cultreri, Susan, B.S.
- Edwards, Phillip, B.A., M.Div.
- Foreman, Francis, B.S., M.E.
- Hankinson, Gail, B.S.
- Hicks, Graydon, B.S.
- Kahlich, Lou Ann. B.S.
- Leonard, Margaret, B.A., M.A.
- Lopez, Louisa, B.A.
- McCarty, Lois, B.A., M.Ed.
- McIlwain, Michael, B.S., M.A.

MATHEMATICS (cont.)
Newton, Janet, B.S.
Nicholson, Karen, B.S., M.Ed.
Puetz, Brad, B.S.
Salas, Pablo, B.S.
Schroeder, Ron, B.S.
Severino, Joseph, B.A., M.S.
Shaffer, Andrew, B.S., M.S.
Skidmore, Scott; BS., M.A.
Tavarez, Rachel, B.S.
Tervooren, Dale, B.A. M.Ed.
Willis, Barbara, B.S.
MODERN LANGUAGES
AMERICAN SIGN LANGUAGE
Brasel, Laural, M.A.
FRENCH
Leshnower, Susan, M.A.
SPANISH
Depew, Betty, M.A.Ed.
Gonzalez, Ilda, M.A.
Heard, Patricia, M.A.
Nelson, Elizabeth G., M.A.
MUSIC
Doherty, Gary, M.E.
Gjevre, Naomi
Griffin, Ruth Ann, B.A.
Moss, Vivian, B.Ed.
Pinell, Javier
Pysh, Greg, M.M.
Santorelli, Michael, M.M.
Santorelli, Shari, M.M.
Vester, Debbie, B.S.
NURSING-ASSOCIATE DEGREE
Harris, Nancy, RN, MSN
Price, Bea, RN, MSN
Reeves, II, Norman, RN, MSN
Roberts, Geneo, RN, BSN
Sullivan, Patricia, RN, MS
NURSING-VOCATIONAL
Corbett, Sherry, RN, BSN
Kelly, Glenda, L.V.N.
Lipps, Vickie, RN, AAS
PETROLEUM GEOTECHNOLOGY
Cochran, Rob
Cure, Mike
Gantz, Kent
Gill, T.E.
Gilkerson, Ernie
Hardwick, Debi
Harris, Jeff
Lea, Ralph
Lufholm, Peter
PETROLEUM GEOTECHNOLOGY (cont.)
Ogden, Becky
Ornelas, James
Pausé, Paul
Payne, Celia
Simpson, Berry
PHILOSOPHY
Whitman, Allen, B.D.
PSYCHOLOGY
Almon, Jeannette, M.A.A.
Jones, Keli, M.A.
Jurek, Paul, Ph.D.
Shelton, Stephanie, M.A.
RADIOGRAPHY
Black, Todd, RT
De La Rosa, Diane, RT
Edge-Tindall, Jodie, RT
Ford, Aaron, RT
Hirt, Steven, RT
Hughes, Marlon, MD
Ives, Kathy, RT
Lopez, Ester, RT
Matthews, Cecelia, RT
McCraney, Karen, RT
Myers, Brandon, RTR
Van Cleave, Jack, RT
Wright, Kelly, RT
READING
Brown, Stacy, B.S.
Daneker, Elizabeth, B. S.
Estrada, Catherine, M.Ed.
Harrison, Wanda, B. A
Jones, Kelie, M.A.
Martinez, Anita, B.S.
McAdoo, Yolanda, M. A.
Quilimaco, Gracie, Lily, B.A.
RESPIRATORY CARE
Gordon, Susan, RRT
SOCIAL WORK
Ellis, Gayle, M.S.W.
SPEECH
Brantley, Carla, B.A.
Ogrin, Dee D., M. S.
VETERINARY TECHNOLOGY
Davis, Teena, B.S.
WELDING TECHNOLOGY
Teagarden, Dean, A.S.G.S.
Gray, Terry, A.S.G.S.

MIDLAND COLLEGE CALENDAR 2005-2006

For your convenience, 2005-2006 reference calendars are on page 24

STUDENT ORIENTATION

June 9	Student Orientation Meetings in the Scharbauer Student Center 9-11 am
August 4 & 17	Student Orientation Meetings in the Scharbauer Student Center 9-11 am
November 9	Student Orientation Meetings in the Scharbauer Student Center 9-11 am
July 21, 26, 28	**JumpStart** Early Registrations Two Sessions Per Day (Register on the WEB at www.midland.edu)
June 1 - July 15	Early Advising & Schedule Development for Fall 2005

2005 FALL SEMESTER

July 25 - Sept. 2	**WEB Registration** for Fall **www.midland.edu**
August 8	**Walk-in Early Registration** for Fall - Open to All Students
August 22 - 26	Faculty & Staff Meetings
Aug. 25 - Sept. 8	Concurrent High School Registration Begins
August 27	**Last Day to Drop** and Obtain 100 percent of Refundable Fees (See Refund Policy)
August 27	Residence Hall move-in after 12:00 pm
August 29	**First Class Day** and **Late Registration Begins** (late fee charged)
August 31	Begin Submission of Intent to Graduate (See Graduation Section of Catalog)
September 2	**Last Day to Late Register**
September 5	Holiday (Labor Day)
September 14	Census Day
November 18	**Last Day to Withdraw** in Registrar's Office with Grade of "W"
November 21	**WEB Registration** for Spring & Winter Interim **www.midland.edu**
November 23	Holiday After 5 pm (Thanksgiving)
November 28	**Walk-in Early Registration** for Spring & Winter Interim
November 28	Class Instruction Resumes
December 12 - 15	**Final Examinations**
December 16	Semester Ends; Holiday after 5 pm (Christmas)
December 16	Residence Hall closes at 12:00 pm

2005-2006 WINTER INTERIM SESSION

Nov. 21 - Dec. 9	**WEB Registration** for Winter Interim **www.midland.edu**
November 28	**Walk-in Early Registration** for Winter Interim
December 19	**Registration** 8-9 am; **First Class Day**
December 20	Census Day
December 23	Holiday (Christmas)
December 30	Holiday (New Year's Eve)
January 3	**Last Day to Withdraw** in Registrar's Office with Grade Of "W"
January 5	**Final Examinations**; Grades Due

2006 SPRING SEMESTER

Nov. 21 - Jan. 20	**WEB Registration** for Spring **www.midland.edu**
November 28	**Walk-in Early Registration** for Spring Begins
January 2	Administrative Offices Open
January 9 - 13	Faculty and Staff Meetings
January 14	Residence Hall Move-in after 12:00 pm
January 16	Holiday (Martin Luther King Day)
January 16	Registration Open (Scharbauer Student Center)
January 16	**Last Day to Drop** and Obtain 100 percent of Refundable Fees (See Refund Policy)
January 17	**First Class Day** and **Late Registration Begins** (late fee charged)
January 17 - 26	**Concurrent High School Registration** Begins
January 23	**Last Day to Late Register**
February 1	Census Day

2006 SPRING SEMESTER (continued)

February 24	**Last Day to Submit Request to Participate in Graduation Ceremony and to Order Cap and Gown** (See Graduation Section of Catalog)
March 6 - 10	Holiday (Spring Break)
March 13	**Class Instruction Resumes**
April 12	**Last Day to Withdraw** in Registrar's Office with Grade of "W"
April 13	Holiday, after 5:00 pm (Easter)
April 18	**Class Instruction Resumes**
April 24	**WEB Registration** for Spring Interim, Summer I & II **www.midland.edu**
April 24	**Walk-in Early Registration** for Spring Interim, Summer I & II
May 8 - 11	**Final Examinations**
May 12	Semester Ends; **Graduation** (Al G. Langford Chaparral Center, 7:00 pm)
May 13	Residence Hall closes at 12:00 pm

2006 SPRING INTERIM SESSION

April 24 - May 12	**WEB Registration** for Spring Interim **www.midland.edu**
April 24 - May 12	**Walk-in Early Registration** for Spring Interim
May 15	**Registration** and **First Day of Class**
May 16	**Last Day to Late Register** and Census Day
May 25	**Last Day to Withdraw** in Registrar's Office with Grade of "W"
May 29	Holiday (Memorial Day)
May 31	**Final Examinations**; Grades Due

2006 SUMMER SESSION I

April 24 - June 1	**WEB Registration** for Summer I **www.midland.edu**
April 24 - June 1	**Walk-in Early Registration** for Summer I
May 31	**Last day to Drop** and Obtain 100 percent of Refundable Fees (See Refund Policy)
June 1	**First Class Day** and **Late Registration Begins** (Late fee charged - Payment due at the time of registration)
June 7	**Last Day to Late Register** and Census Day
June 29	**Last Day to Withdraw** in Registrar's Office with Grade of "W"
July 4	Holiday (Independence Day)
July 11	**Final Examinations**; Session Ends

2006 SUMMER SESSION II

April 24 - July 11	**WEB Registration** for Summer II **www.midland.edu**
April 24 - July 11	**Walk-in Early Registration** for Summer II
July 11	**Last day to Drop** and Obtain 100 percent of Refundable Fees (See Refund Policy)
July 12	**First Class Day** and **Late Registration Begins** (Late fee charged)
July 18	**Last Day to Late Register** and Census Day
August 9	**Last Day to Withdraw** in Registrar's Office with Grade of "W"
August 17	**Final Examinations**; Session Ends

All dates are subject to change at any time prior to or during an academic term due to emergencies or causes beyond the reasonable control of the institution, including severe weather, loss of utility services, or orders by federal or state agencies. Please review dates in respective class schedules.

NOTE: Course selection and registration is only guaranteed if the course(s) have been paid for as stated on the student's Statement of Account or in the semester schedule of classes. Midland College reserves the right to withdraw students from any and all courses at any time. Reasons for withdrawal may include but are not limited to the following: Non-paid accounts, Disciplinary Actions, THEA Requirements, Housing Violations, Prerequisites or Co-requisites.

2005 - 2006 Reference Calendars

2005

JANUARY

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HISTORY OF MIDLAND COLLEGE

Midland College began in September 1969 as the Midland campus of the Permian Junior College system. It was re-created in 1972 with the formation of the Midland College District. Bonds in the amount of $5,100,000 were issued for the construction of a 115 acre campus. Ground breaking at the new campus was held October 23, 1973. In 1975, spring semester classes were held in the new buildings. The Pevehouse Administration Building (which holds the I. A. O'Shaughnessy Presidential Suite and the Orpha Olsen Gibson Board Room), the Abell Hanger Science Faculty Building and the Maintenance Building were the forerunners of the complete campus. The Murray Fasken Learning Resource Center, the Dorothy and Clarence Scharbauer, Jr. Student Center (which houses the Harriet and Harvey Herd Faculty Lounge), the Technology Center and the Physical Education Building were completed for the Fall 1975 semester. With an eye for continued growth, enrollment and programs, the Allison Fine Arts Building, including the McCormick Gallery and the Wagner & Brown Auditorium, an addition to the Technology Center and the Al G. Langford Chaparral Center with a seating capacity of 5,000, were dedicated in 1978.

The addition of a housing facility for athletes was secured from private funds and athletes moved on campus during the Spring term of 1983. The Davidson Family Health Sciences Building, including the Davidson Lecture Hall and the Helen L. Greathouse Children's Center, was completed for the 1985 Fall semester. Landmarks of the Midland College campus are the beautiful Hodge Carillon Tower, the Marian Blakemore Memorial Fountain and the Mr. and Mrs. Carlton Beal Plaza. Fifty-two additional acres were purchased in 1988. A twelve court tennis center is the result of a joint project of the City of Midland and Midland College. Six new courts were added in 1991. In the Fall of 1991, an addition doubling the size of the Scharbauer Student Center was completed. The addition is the new home of facilities for campus and community events. In 1992, the Cogdell Learning Center was established. The Williams Regional Technical Training Center of Fort Stockton opened in 1996 and was dedicated in 2002. The Davidson Distinguished Lecture Series was also established in 1996. Midland College West was added in 1997. Fifty-three acres north of the campus were purchased in 1999, yielding a campus of 220.62 acres. Also in 1999, O'Shaughnessy Hall, a female residence hall, was dedicated, and the Phyllis and Bob Cowan Performing Arts Series was established. The Advanced Technology Center, including the Franz Weis Industrial Technology Center, and a men's residence hall opened in 2000. The Jack E. Brown Dining Hall and the Dorothy and Todd Aaron Medical Science Building, including The Gregory Bartha, M.D. Atrium, were opened in 2001. The Nadine & Tom Craddick Hall was dedicated in 2003 and the Dollye Neal Chapel and Hall's Way, a pedestrian bridge between Midland College and the Midland Community Theatre, were dedicated in 2004. The Petroleum Professional Development Center was also acquired and construction of the Fox Science Building started in 2004.

STATEMENT OF PURPOSE

Mission

Midland College is a comprehensive public college dedicated to educational excellence. The faculty and staff are committed to instruction that sustains a life-long quest for knowledge and provides students with academic, intellectual, occupational, and professional proficiency—including knowledge in and appreciation of the arts and sciences; critical thinking; clear and effective communication; analytical reflection; and technical skills. The College serves the diverse learning communities of its region by providing a range of flexible programs from community enrichment to the baccalaureate degree.

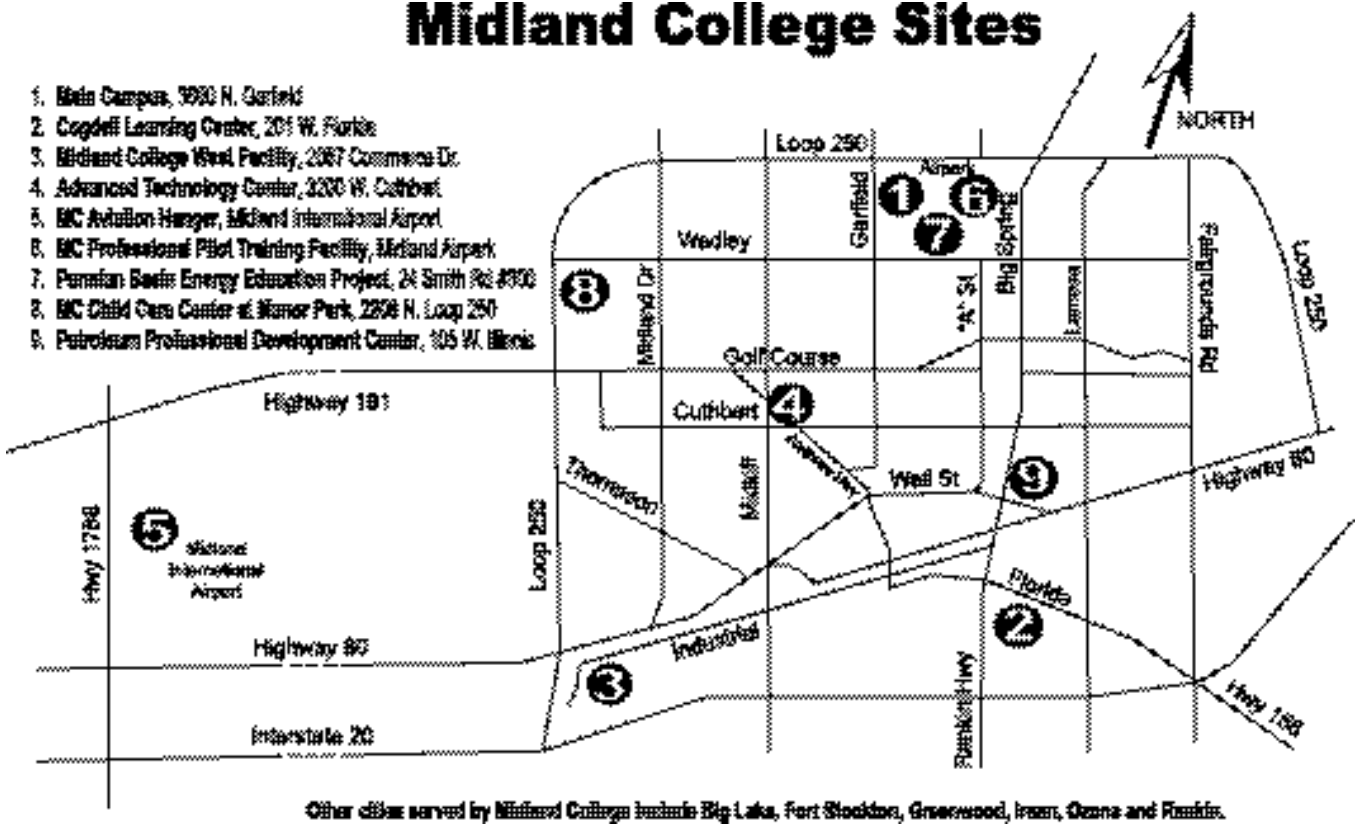
Objectives

Midland College strives to fulfill its mission through effective programs with clear objectives:

1. To provide an academic and occupational focus for business and professional learning environments through the following options:
   - Certificate programs in technical and vocational fields
   - Transfer coursework and Associate of Arts and Associate of Science degrees
   - Associate of Applied Science degrees
   - Bachelor of Applied Technology degrees
2. To provide flexible educational opportunities by combining the best of traditional methods with effective and innovative teaching methods, including interactive distance learning, computer-based instruction, and developmental assessment and response.
3. To respond to community, business, professional, and regional needs by providing credit, non-credit, and continuing education courses; workforce training; and cultural opportunities and activities.
4. To increase student retention and decrease barriers to success through effective advising, career counseling, and financial aid.
5. To cooperate with other institutions and agencies in seeking and creating new avenues for student access to higher education.

Midland College Sites

1. Main Campus, 3600 N. Garfield
2. Cogdell Learning Center, 201 W. Florida
3. Midland College West Facility, 2067 Commerce Dr.
4. Advanced Technology Center, 3200 W. Cuthbert
5. MC Aviation Hangar, Midland International Airport
6. MC Professional Pilot Training Facility, Midland Airpark
7. Permian Basin Energy Education Project, 24 Smith Rd #300
8. MC Child Care Center at Manor Park, 2208 N. Loop 250
9. Petroleum Professional Development Center, 305 W. Illinois



Other cities served by Midland College include Big Lake, Fort Stockton, Greenwood, Iraan, Ozona and Rankin.

MIDLAND COLLEGE SITES

The Midland College main campus is located at 3600 North Garfield, Midland, Texas. The College also has a variety of sites and facilities throughout its service area including the Williams Regional Technical Training Center, an accredited branch campus, located in Ft. Stockton. In addition to the sites described in the following, the College offers limited classes at public school facilities in the communities of Big Lake, Iraan, Ozona and Rankin.

Advanced Technology Center

The Midland College Advanced Technology Center (ATC) is a unique educational venture involving Midland College, the Midland Independent School District, and a number of community partners. The ATC, located at 3200 W. Cuthbert in Midland, delivers workforce education programs that support the development of a skilled technical workforce for Midland and the Permian Basin. The facility contains more than 80,000 square feet of instructional space that features high-tech computer classrooms with Internet access, multimedia video conferencing classrooms, and a tiered lecture hall.

Educational programs and courses taught at the ATC include all aspects of computer information technology; industrial technology emphasizing welding technology, metallurgy, and automotive technology; and entry-level health science technology. State-of-the-art equipment in all instructional areas provides students with "high-tech, high touch" instruction and hands-on application of skills

The ATC also enables Midland-area residents to further enhance their technical skills through industry-recognized certifications and other continuing education opportunities. The Midland College Workforce Training Department, located at the ATC, offers customized short-term courses and training as requested by Permian Basin business and industry. For information regarding the ATC, visit www.midland.edu/atc or telephone (432) 697-5863.

Aviation Maintenance Technology Hangar

The Aviation Maintenance Technology program is located at Midland International Airport, Hangar E, 2405 Windecker. An advanced state of the art training facility, this site offers students training on actual aircraft. The program offers certificates in Airframe Maintenance and Powerplant Maintenance. Upon successful completion of training, students are qualified to take Federal Aviation Administration (FAA) examinations for Airframe or Powerplant licenses. For information regarding the Aviation Maintenance Technology Program, visit www.midland.edu or telephone (432) 685-4799 or (432) 563-8952.

Business and Economic Development Center

The Midland College Business and Economic Development Center (BEDC) is located at the Midland College Cogdell Learning Center at 201 W. Florida. The BEDC promotes economic development in the community by providing comprehensive management, financial, and technical assistance and training to small businesses, entrepreneurial ventures, and non-profit organizations in the form of seminars and free, confidential counseling. The BEDC provides a non-credit certificate program in business survival skills and offers monthly business seminars. The BEDC also conducts business and economic research and offers governmental procurement and international trade guidance to private and non-profit organizations. For more information, visit www.midland.edu/bedc or contact the BEDC at (432) 684-4309.

Child Care Center at Manor Park, Inc.

Manor Park, a continuous care retirement community for persons 62 years of age and older, is the site of a unique child care center operated by Midland College. Housed within the Manor Park main campus at 2208 North Loop 250, this center provides child care for Manor Park employees and community members and instructional support for child devel-

opment, psychology, health science and other related courses. It reflects the Manor Park philosophy which includes the presence of children within the senior adult community. Both Manor Park residents and children benefit from the resulting social and cognitive interactions. A classroom is located adjacent to the child care center. For additional information regarding the Child Care Center at Manor Park, contact the director at (432) 685-4594.

Cogdell Learning Center

Established in 1992 as a presence in South Midland, the Cogdell Learning Center has as its mission the provision of quality learning and life enhancing opportunities through programs that effectively address the unique needs of South and East Midland residents. The Center serves as a gateway to Midland College and other community resources for individuals who wish to further pursue personal, career, and academic goals.

The Cogdell Learning Center is located at 201 W. Florida, and its services include: community outreach; free GED and ESL classes (free child care and parenting classes available to eligible students); adult literacy assistance; federal Talent Search grant services; small business counseling and technical assistance; and assistance with college planning, admissions, and financial aid services including advice on completing the Free Application for Federal Student Aid. The Cogdell Learning Center also administers the Bill Pace Cogdell Scholarship developed specifically to support individuals whose college careers began at this site.

For additional information regarding the Cogdell Learning Center, visit www.midland.edu/cogdell or telephone (432) 684-4100.

Midland College West

Located at 2067 Commerce Drive, Midland College West was opened in 1997. This 4,200 square foot building and two acre adjacent training yard house the Transportation Training Program and other continuing education courses. For information regarding Midland College West or the Transportation Training Program, visit www.midland.edu or telephone (432) 689-4900.

Permian Basin Energy Education Project

The Permian Basin Energy Education Project provides free entry level oilfield training to unemployed or underemployed individuals and recently hired oilfield service workers. Participants are not required to have any previous experience in the oilfield industry. Instruction which includes oilfield safety, well servicing and drilling is provided through both traditional and hands-on approaches. Students are awarded certificates and continuing education credits for the successful completion of each program component. The Permian Basin Energy Education Project is located at 24 Smith Road, TGAAR Tower, Suite 300, and the telephone number is (432) 687-5564.

Petroleum Professional Development Center

The Petroleum Professional Development Center (PPDC) of Midland College was created through the consolidation of the Permian Basin Graduate Center and Midland College's Petroleum Geotechnology Training Center. Housed in the Jack G. Elam Building located at 105 W. Illinois Avenue in downtown Midland, the center is a state-of-the-art educational facility designed specifically for the regional oil and gas industry. The center provides unique programs developed for working geoscientists, petroleum engineers, landmen, accountants, and field operations personnel and offers industry updates to area oil and gas professionals. The PPDC is one of seven mid-career training centers worldwide recognized by the American Association of Petroleum Geologists (AAPG). For additional information regarding the PPDC, visit www.midland.edu/ppdc or telephone (432) 683-2832.

Professional Pilot Preparation Hangar

The flight instruction portion of the Professional Pilot Preparation Program is headquartered in Hangar 10 at Midland Airpark, 901 Airpark Road. In addition to providing shelter for the program's many aircraft, the hangar houses a state of the art flight simulator, offices for flight instructors and an operations and dispatch area. For additional information, visit www.midland.edu or telephone (432) 685-4668.

Williams Regional Technical Training Center

The Midland College Williams Regional Technical Training Center (WRTTC) located at 1309 West I-10 in Fort Stockton was built in 1996 to advance higher education in the region and to enhance workforce development. The WRTTC was approved by the Southern Association of Colleges and Schools as the first branch campus of Midland College in 1998. In 2000, the facility size was doubled as a result of an aggressive community fund raising initiative.

The WRTTC campus serves its students through university parallel and occupational/technical certificate and associate degree programs, a wide variety of continuing education offerings and programs offered in collaboration with the Fort Stockton Independent School District (FSISD). Offerings are supported by advanced instructional technology, and interactive television and computerized distance learning technology link many WRTTC programs to the Midland campus.

In support of the growing aerospace industry in the region, the WRTTC and the Fort Stockton Independent School District provide a dual credit high school Aero-science Program. This innovative program results from collaboration between the WRTTC, FSISD, Fredericksburg Independent School District, Pecos County Spaceport Development Corporation, and Texas Tech University. The two-year program culminates in the launch of a suborbital rocket that carries a research payload into the upper atmosphere.

For additional information regarding the WRTTC, visit www.wrttc.midland.edu or telephone (432) 336-7882.

SPECIAL FACILITIES

In addition to its excellent instructional facilities, Midland College provides its students, community members and employees several special facilities that enrich its environment and provide unique services. These are described in the following.

Al G. Langford Chaparral Center

This 5,000 seat capacity coliseum provides a setting for athletic events, performances, shows and conferences. It is the primary location of the College's Davidson Distinguished Lecture Series and Phyllis & Bob Cowan Performing Arts Series. In addition to removable flooring appropriate for athletic events, the Al G. Langford Chaparral Center is supported by flexible stage, curtain and lighting structures that may be arranged to suit the nature of the event and the size of the audience. For additional information, contact the Al G. Langford Chaparral Center Director at (432) 685-4582.

Dollye Neal Chapel

The Dollye Neal Chapel was created and endowed through the generosity of Dollye Neal Ballenger as “a place apart” on the main Midland College campus for staff, faculty, students, supporters and officials. The Chapel has no religious affiliation and is open weekdays to all providing a proper setting for private meditation and reflection. It also serves as a venue for small events such as weddings and student and faculty meetings suited to the Chapel's special environment. The Dollye Neal Chapel is complemented by Hall's Way, a pedestrian bridge that connects the College campus to the adjacent Midland Community Theatre. For information regarding the Dollye Neal Chapel, telephone (432) 685-4770.

Franz Weis Industrial Technology Center

The Franz Weis Industrial Technology Center and accompanying exhibit are located adjacent to the Automotive Technology laboratory at the Midland College Advanced Technology Center. The exhibit depicts the life and works of Franz Weis, a master engine builder, who resides in Midland. Between 1965 and 2001, Mr. Weis built engines for Indy-type racing cars that won 107 races including cars driven by Jim Hall, Al Unser, Sr., Bobby Rahal, Emerson Fittipaldi, Arie Luyendyke, and Al Unser, Jr. Mr. Weis won the Vandevell Engine Builder of the Year award for 1987, 1988, 1989, and 1990. The Franz Weis Industrial Technology Center is used for special high school and college automotive classes as well as industry training for automotive technology professionals. For additional information regarding the Franz Weis Industrial Technology Center, telephone (432) 697-5863.

McCormick Gallery

Given as a gift by Colonel and Mrs. Walter B. Smith, in memory of her parents, W.F. and Mary McIntyre McCormick, and her brother George D. McCormick, the McCormick Gallery was established in 1978. The gallery is located in the main foyer of the Allison Fine Arts Building and annually hosts multiple exhibits of works in a wide range of media. For additional information regarding the McCormick Gallery, telephone (432) 685-4770.

DISTANCE LEARNING

Distance learning at Midland College is planned learning that normally occurs in a different place from teaching and, as a result, requires special techniques of course design, special instructional techniques, special methods of communication by electronics and other technology, as well as special organizational and administrative arrangements.

Midland College provides a variety of offerings through its Distance Learning Program. MCNet is an interactive television classroom experience in which students from off-site locations become a part of the classroom setting based at either the main campus or one of the off-campus sites. On-line and Web based courses are developed by individual instructors and provide complete course content through use of e-mail or the Internet. The Virtual College of Texas (VCT) allows students to access courses via the Internet that are not offered at Midland College. Students can view the schedule at www.vct.org, and all enrollments must be made through Midland College.

For additional information, please contact the Department of Distance Learning at (432) 685-5537.

The Three Presidents of Midland College

Dr. Jess Parrish and Dr. Al Langford (MC's first President) join current President, Dr. David Daniel, at the Blakemore Fountain in Beal Plaza for this rare photo opportunity.

Bachelor of Applied Technology
TECHNOLOGY MANAGEMENT

Midland College
Business Studies Division
Bachelor of Applied Technology in Technology Management
Contact Dr. Michael Santonino at (432) 685-4611

NEW!
A FOUR-YEAR BACHELOR'S DEGREE

PROGRAM OVERVIEW

The bachelor's degree in technology management is designed to broaden career opportunities for students and better their chances for promotion to supervisory positions. The technology management program provides a career-ladder for students who wish to continue their education at the bachelor's level. Students can design a program of study for the bachelor's degree as early as the freshman year.

Career Opportunities

Students graduating from Midland College's Technology Management program will be prepared to effectively lead and manage business operations within their technical field of interest. Specifically, the business community articulated the need for Midland College to produce individuals with bachelor's level supervisory and managerial skills to enhance the technical preparation provided by their A.A.S. programs.

Technology Management Courses

The upper-division technology management courses provide students with a general but comprehensive understanding of business enterprises and a command of practical management skills. The curriculum builds from the practitioner viewpoint to a thorough understanding of all facets of enterprise management as the student progresses. Electives allow students to choose topics that best fit their career goals or the needs of a particular industry. (see Technology Management degree plan on page 84).

MIDLAND COLLEGE'S UNIVERSITY CENTER

Midland College provides opportunities to earn upper-level degrees without leaving Midland ... or, to have a seamless transfer to a partner university.

For further information regarding the University Center, please contact the Office of the Associate Vice President of Instruction for Academic and Transfer, ***Dr. Stan Jacobs at (432) 685-5545****.*

NEW FOR 2005! BACHELOR PROGRAM NEW FOR 2005!

Midland College
Business Studies Division
Bachelor of Applied Technology in Technology Management
Contact Dr. Michael Santonino at (432) 685-4611

BACHELOR & MASTER PROGRAMS

Lubbock Christian University
Bachelor of Science in Organizational Management
Contact Monica Campos at (432) 685-5538

Sul Ross University
Bachelor of Science in Biology
Bachelor of Science in Natural Resource Management
Bachelor of Science in Earth Science
Contact Dr. Margaret Wade at (432) 685-4615

Texas Tech University Health Science Center
Master of Physician Assistant Studies
Contact Stephanie Cardenas at (432) 620-9905

The University of Texas of the Permian Basin
Bachelor of Arts in Child and Family Studies
Bachelor of Arts in English
Bachelor of Arts in History
Bachelor of Arts in Humanities
Bachelor of Arts in Multidisciplinary Studies
Bachelor of Arts in Spanish
Master of Science in Criminal Justice Administration
Contact Ms. Becky Beard at (432) 552-2635

TRANSFER PROGRAMS

Angelo State University's "Access ASU" Program

Texas Tech University's "Pathways" Program

University of Texas of the Permian Basin's "Direct Connect" Program

For information on these partner programs, contact
Trey Wetendorf at (432) 685-5502

STUDENT ADVISING AND ADMISSIONS

Advising and Counseling

Midland College Counselors and Advisors will provide the following assistance to each individual student:

1. Arrange to take all required testing.
2. Determine which courses will transfer toward a four year degree or determine which courses are needed for a particular two year technological degree.
3. Plan and approve a students class schedule.
4. Assist in career choices or refer to Career Center.
5. Assist in seeking employment or financial aid.
6. Refer to any other needed Midland College service such as veterans coordinator, support service coordinator, disability counselor, all student club and activity opportunities, etc.

Admission

Midland College maintains an open-door policy which insures that all persons who can profit from post-secondary education shall have an opportunity to enroll. Applicants may assume admission acceptance after all requirements are met. All inquiries should be addressed to the Vice President of Student Services. Please remember that being admitted to MC does NOT guarantee admission to certain specific programs of study. Specialized programs usually have additional qualification requirements. Applicants should consult with the Division Dean or a College Counselor for details concerning admission to these programs.

Basis of Admission

Midland College reserves the right to require academic documentation for any applicant. A student's eligibility for re-enrollment at his/her previous institution may be a consideration for admission at Midland College.

High School - Graduates from accredited Texas High Schools or equivalent institutions are eligible for admission. A certification statement of graduation is required for admission. Proof of high school graduation is required and must be documented. Proof of graduation may include an official high school transcript.

Examination - Students may be admitted upon satisfactory completion of the General Education Development (GED) test. A certification statement of satisfactory completion of the GED is required for admission and must be documented with the official GED scores.

Individual Approval - Individuals who are 18 years of age or older and do not have a high school diploma or GED may be admitted without examination at the discretion of Student Services Administrators at Midland College. Transcripts from previous high schools attended, together with tests and other devices, may be used in lieu of high school graduation. Students admitted on individual approval without a GED or high school diploma are not eligible to receive Title IV federal financial assistance.

Individual Approval is an important component of the "open door" admission policy at Midland College. Recognizing the great diversity represented in today's society, the Individual Approval policy ensures that all persons desiring educational opportunities may enroll and progress toward their goal. The flexibility of Individual Approval for admission is a valuable tool for determining the benefit potential of education for all members of our diverse community.

Early Admission Program - Midland College will consider for early admission high school students between the ages of 16 to 18 on the basis of individual merit providing they have permission of the school district and the student's parents/legal guardian.

Concurrent Enrollment - Midland College has entered into agreements with the Midland Independent School District, the Greenwood Independent School District and Trinity School allowing high school students to earn both high school and college credit for selected courses. Students at Midland High School, Robert E. Lee High School, Greenwood High School and Trinity School may participate in this program. For more information, students should contact their high school counselor. Similar programs exist at out-of-district sites.

Home School - Home-schooled high school students seeking admission as regular students are required to:

1. be at least 16 years of age and be classified as a Junior or Senior level student.
2. complete the Midland College Admission Application.
3. provide an Early Admission Permission Form with approval to take college courses signed by the parent.
4. comply with all state Texas Success Initiative testing requirements.
5. provide an official transcript which must meet all TEA standards.

Students may be required to complete additional academic assessment to determine proper placement in courses before enrolling. Students will be required to have a Midland College Counselor/Advisor approve their schedule each time they enroll or change their schedule.

Transfer Students - Transfer students seeking admission are required to provide a transcript from every other institution attended. For enrollment purposes a transfer student must provide a college transcript from the last institution attended by the end of his/her first semester in attendance. For more information on transferring credits see the **Transfer Information** section of the Catalog.

Academic Fresh Start - Residents of Texas who seek admission to a state college or university may do so without consideration of courses undertaken ten or more years prior to enrollment. Students have the option of electing to have course work taken ten or more years prior to enrollment to count as usual or to be ignored for admission purposes. Any student electing to have course work ignored may not receive any course credit for any courses taken ten or more years prior to enrollment. Those hours ignored can be used as a basis for exemption from the Texas Success Initiative.

Right of Appeal - Persons who are denied admission to the college may appeal to the Student Admissions, Advising, and Due Process Committee. Contact the Registrar for information on the appeal process.

Audit - A student may contract with the instructor to enroll in a credit course as an audit (non-credit) student. An audit student may attend class, but will not receive a final grade nor credit for the audited course. The student is required to pay full tuition and additional fees. An audit student must declare before the 12th class day.

International Students - International students are welcome at Midland College. They add cultural diversity which is encouraged here. Once accepted, they are eligible to take courses, participate in student life, become involved in the community and transfer to other colleges. Like other students, they must abide by Midland College rules as stated in the Midland College Catalog and Student Handbook and as international students, they must abide by additional federal and state guidelines.

Admission is contingent upon the evaluation of the following criteria and upon Midland College's ability to serve the individual needs as determined by the college's representatives. Students from other countries should submit:

1. an application for admission,
2. a transcript from the last school or college attended (must be the equivalent of a United States high school graduate); the official transcript must be translated into English and must show each course and the grade earned,
3. satisfaction of the English proficiency standard by meeting one of the following conditions:
    a) a 525 score on the TOEFL or a 195 on the computer based TOEFL. (the TOEFL would be taken prior to admission).

b) one year or two consecutive semesters of English taken with in the past two years with the equivalent grade of “C” or better.
c) having the student live with a host family. The host family would assume responsibility for language training.

4. proof of financial responsibility.

It is also highly suggested that students coming from non-English speaking countries be required to take an ESL course their first semester at Midland College.

Prospective international students must file completed applications with all required forms with a non-refundable application fee. The fee should be in the form of a check or money order payable to Midland College and sent to the attention of the international student advisor. An I-20 form will be issued to the student when the above qualifications have been met. International students must enroll for at least 12 semester hours of course work. Residence Halls are available on campus.

Web Based Opportunities

Midland College offers an on-line service for students called Campus Connect. This service is available via the Internet and the Midland College Website, www.midland.edu. Campus Connect provides students access to their college information including:

1. class schedule
2. grade report that lists semester grades
3. course availability
4. unofficial transcript
5. status of school account
6. degree audit that lists the courses that have been completed and those needed to complete a degree or certificate
7. demographic information on file
8. status of Financial Aid

To log on, you must be in the Midland College Student Data Base. Go to the website at www.midland.edu and select Campus Connect.

Enter your social security number and your pin number and press the access key. Note, your pin number is the first four numbers in your birth date. Examples: July 4 birth date, Pin number is 0704. Students will have the opportunity and are encouraged to change their pin numbers upon entering Campus Connect.

Campus Connect
now at
www.midland.edu

Register online, or check your student information through a **secure** online connection.

Registration Information

Registration for fall and spring semesters occurs in three stages: early registration, regular registration, and late registration. Registration information is available in each semester's Class Schedule or in the Student Services office.

Residence Classifications

Tuition and fees are determined by resident classification established by state law.

In-District Residents are classified as students who:

1. are 18 years or older,
2. have been residents of Texas for 12 months, and
3. have been gainfully employed within the state for a period of 12 months prior to enrollment, including six months as residents in the Midland Community College District.

In the case of students under 18 years, the parents must meet the above criteria.

Out-of-District Residents are classified as students who:

1. are 18 years or older,
2. have not lived within the Midland Community College District six months prior to registration, and
3. have been a resident of Texas 12 months prior to registration.

In the case of students under 18, the parents must meet the above criteria.

Out-of-State Residents are classified as students who:

1. are United States citizens 18 years of age or older, and
2. have not been a resident of Texas 12 months prior to registration.

When the student is under 18 years of age, the student's family residence for the prior 12 months determines residence status.

International Residents are citizens of another country who are in the United States on non-immigrant visas. Persons living in the United States under a visa permitting permanent residence or who have filed with the proper federal authorities a declaration of intention to become a citizen, and aliens who are permitted by Congress to adopt the United States as their domicile while they are in this country, have the same privilege of qualifying for Texas resident status for tuition purposes as do citizens of the United States.

Student Residence Requirements

It is the responsibility of each student attending Midland College to register under the proper residence classification and pay the correct tuition and fees. The Texas Higher Education Coordinating Board, rule 21.38, requires each student to provide substantiating documentation to affirm residence for tuition purposes. It also requires that students sign an Oath of Residency. The Midland College Board recognizes the authority of the Coordinating Board to set residency policy as authorized by the Texas Legislature and Midland College will follow the guidelines as set forth by the Coordinating Board.

Residence Classifications:

TEXAS RESIDENT - An adult Texas resident (18 years of age and older) is defined as one who has resided continuously within the State of Texas for 12 months immediately prior to his/her original registration. A minor Texas resident is defined as one whose parent(s) or legal guardian has claimed the dependent for federal income tax purposes both at the time of enrollment and for the tax year preceding enrollment. This classification is defined by the State Auditor's Office and must be adhered to by the institution.

NON-RESIDENT - A non-resident student is defined as one who does not qualify as a Texas resident (out-of-state, international, etc.). A non-resident student classification is presumed to be correct so long as the student is in the state primarily for the purpose of attending school. To be reclassified as a resident, after one or more years of residency, the student

must show proof of intent to establish Texas as his/her own residency. A student who owns property in Midland College District may be eligible for a waiver of out-of-state tuition. Students who believe they are eligible for such waivers must contact the Admissions Office.

IN-DISTRICT - A Texas resident who physically resides within the geographic boundaries of the Midland College District, excluding student housing or residence halls. To qualify for In-District tuition, a student must have been classified as a Texas resident, and have been a resident of the Midland College District for a period of six months before first enrollment. A student may reclassify from Out-of-District to In-District status, with appropriate documentation, after six month's residency in the Midland College District.

OUT-OF-DISTRICT - A Texas resident who does not physically reside within the geographic boundaries of the Midland College District. Aliens living in the United States under a Visa permitting residence must meet the same requirements for qualifying for resident status for tuition purposes as do U.S. citizens. A permanent resident must meet the same length of residency requirements as a citizen.

WRITTEN DOCUMENTATION: At minimum, Midland College will have on file a copy of one or more of the appropriately dated documents which certify that the student classified as a resident has the legal right to the correct classification as of the official census date of the semester or term for which he or she is enrolling. Documents which may be accepted for this purpose include:

A. Texas high school transcript
B. Texas college or university transcript
C. Employer statement of date of employment
D. Permanent Texas Drivers' license (at least one year old). Generally, the license expiration date minus date of enrollment should not exceed three years
E. Property tax payments
F. Bank statement
G. Utility bill
H. Other third party documentation

Documents submitted will be reviewed before a reclassification is made. The Midland College Admissions Office will provide a Residency Reclassification form that students will complete when applying for reclassification. TUITION FOR STUDENTS RESIDING OUTSIDE OF THE MIDLAND COLLEGE DISTRICT The Midland College Board adopts Section 130.0032, Subchapter A, of the Texas Education Code that permits a person who resides outside of the Midland College District and who owns property subject to ad valorem taxation by the Midland College District, or a dependent of the person, to pay tuition at the rate applicable to a student who resides in the district. To qualify for this benefit, the property owner or dependent must provide the Admissions Office with a copy of a Notice of Appraised Value Statement from the Midland Central Appraisal District in the property owner or dependent's name that shows Midland College as one of the taxing units.

General Information The Texas Higher Education Coordinating Board publishes a Residency Brochure, entitled "Residence Status, Rules and Regulations" pursuant to Title 3 of the Texas Education Code which is distributed to Colleges and Universities in the state of Texas. Copies are also available on the Coordinating Board website: http://www.thecb.state.tx.us. This guide is used as a resource by Midland College to establish a student's correct residency status.

Hall's Way Pedestrian Bridge Dedicated 2004 Linking Midland College & Midland Community Theatre

Student Records

A permanent record is defined as one's accumulated academic record including data confirming a student's eligibility for admission and proof that registration requirements have been met. The procedures for the preparation and maintenance of all records are thorough and in keeping with standard practices. The permanent records are kept in the Office of the Registrar.

The student's permanent records are confidential. Individuals may examine personal records at any time. Personnel within the institution may examine student records when it is in the best interest of the student.

Privacy Rights of Parents and Students
(Public Law 93-380) as it relates to Midland College)
Family Educational Rights and Privacy Act (FERPA)

Review of Records Students having attended Midland College have the right to inspect, review and obtain copies to any and all official records, files, and data directly related to them. Access to the students' records may be obtained in the following manner:

A. Students may make requests in person or in writing of the appropriate records custodian.
B. The appropriate office of the college will make the designated records available within a reasonable period of time, but in no case more than 45 days after the request.
C. Copies of records will be provided at the current prevailing cost at Midland College.

Accuracy of Records Any student having attended Midland College will have an opportunity to challenge and have corrected inaccurate, misleading, and inappropriate data through Midland College existing policies. The custodian of the record will summarize action taken.

Maintenance of Student Records The retention of records for Public Junior Colleges has been established by the Texas State Library and Archives Commission. The schedule establishes mandatory minimum retention periods of student records. Midland College adheres to the schedule as provided. A copy of the Retention Schedule for Records of Public Junior Colleges is available by contacting: http://www.tsl.state.tx.us/slrm/recordspubs/jc.html

General Information This is the information, which may be released to the general public without the written consent of the student. A student may request that all or part of the general information be withheld from the public by contacting the Admissions Office asking for a copy of the Student Privacy Notice and completing the requested information. The following is included as general information:

A. Name
B. Date and place of birth
C. Address
D. Parent's name and address
E. Telephone
F. Major field of study
G. Number of hours enrolled current semester
H. Classification
I. Participation in officially recognized activities and sports
J. Weight and height of athletic teams
K. Dates of attendance
L. Degrees and awards received
M. All previous educational agencies or institutions attended
N. Photographs that may be used in Midland College publications, videos or internet

Authorized Access to Student Records As provided in PL 93-380, the following will be provided access to student's records without consent from the student; and no record thereof will be maintained.

A. Officials, faculty, staff of Midland College who have a legitimate educational interest in the student's record.
B. Officials of other schools in which the student seeks or intends to enroll. The student is entitled to a copy of the record forwarded to the other institutions if she/he so desires.

C. In connection with a student's request for or receipt of financial aid, as necessary to determine eligibility, amount or conditions of the financial aid, or to enforce the terms and conditions of the aid.
D. State or local officials to which educational data must be reported.
E. Legitimate organizations (ACT, CEED, EST) developing, validating, or administering predictive tests or student-aid programs. Such data is not to be released in any identifiable form and will be destroyed by the organization after the research has been completed.
F. Accrediting agencies.
G. To parents or an eligible student who claim the student as dependent for income tax purposes.
H. To comply with a judicial order or a lawfully issued subpoena.
I. Representation of the Comptroller-General of the United States, Secretary of BEW, administrative heads of educational agencies, or state education authorities.
J. Emergency situations where the information is necessary to protect the health or safety of some person.

All other individuals, agencies, or organizations which request or obtain access to a student's record must have prior written consent of the student involved.

Areas Which Maintain Student Records

A. Academic Records
    1. Student Record Office - Registrar
B. Financial Records
    1. Business Office
    2. Student Financial Aid Office

The Vice-President of Student Services is responsible for the supervision of student records and the implementation of this policy.

Complaints concerning alleged failures by Midland College to comply with the requirement of FERPA may be addressed to:

Family Policy of Compliance Office
U.S. Department of Education
600 Independence Avenue, SW
Washington, D.C. 20202-4605

FEE SCHEDULE INFORMATION

Tuition and Fees

Tuition and fees are payable at the time of registration. The most economical method of enrollment is to pay all tuition and fees prior to the beginning of classes.

Tuition and fees are subject to change without notice. Current tuition and fees are charged according to the schedule on the following page.

Dual-College Registration and Fees

Students who enroll both in a community college and a senior college or university should register for the community college courses first. After that has been completed, they should take their receipt to the senior college or university and register. This will result in savings of tuition and fees.

Senior Citizen Exemption

Midland College offers senior citizens an exemption from the payment of general use fees when they enroll in credit classes. To be eligible for the exemption, students must be sixty-five years of age or older, pay tuition cost plus any lab fees necessary for that course. All other Midland College policies apply.

Lost or Damaged Property Charges

Students may be charged for loss or damages to college property for which they are responsible. Non-payment of these obligations may result in the withholding of grades, transcripts, or graduation.

Book Return Policy

New textbooks, in new condition, (i.e. no writing, highlighting or any damage which would prevent resale as a new book) as well as used books, with the receipt, may be returned for a full refund through the 12th day of class of a regular semester, the first three class days of a summer session, or the first two class days of a flex-entry course. New books in new condition and used books purchased after the 12th day of class, after the first three class days of a summer session, or after the first two class days of a flex-entry course, may be returned for a full refund when accompanied by the purchase receipt within three (3) days of the date of purchase.

Tuition and Fee Schedule

The schedule below reflects combined tuition and general use fees required of all courses. In addition to the schedule below, certain courses may require additional fees for labs, health sciences liability insurance, private instruction and testing.

The schedule below and those on the following pages reflect the current tuition and fee rates. **All tuition and fees printed in this catalog are subject to change by the Midland College Board of Trustees.**

NOTE: The tuition and fee schedule for upper level courses in the Bachelor of Applied Technology program have not been determined at the date of this printing. The cost for these courses is expected to be approximately $93 per semester credit hour.

HOURS	IN-DISTRICT RESIDENT	OUT-OF-DISTRICT RESIDENT	OUT-OF-STATE RESIDENT/ALIEN
1	93.00	98.00	284.00
2	130.00	140.00	284.00
3	167.00	182.00	284.00
4	204.00	224.00	360.00
5	241.00	266.00	436.00
6	278.00	308.00	512.00
7	315.00	350.00	588.00
8	360.00	400.00	672.00
9	405.00	450.00	756.00
10	450.00	500.00	840.00
11	495.00	550.00	924.00
12	540.00	600.00	1,008.00
13	585.00	650.00	1,092.00
14	630.00	700.00	1,176.00
15	675.00	750.00	1,260.00
16	720.00	800.00	1,344.00
17	765.00	850.00	1,428.00
18	810.00	900.00	1,512.00
19	855.00	950.00	1,596.00
20	900.00	1,000.00	1,680.00
21	945.00	1,050.00	1,764.00
22	990.00	1,100.00	1,848.00
23	1,035.00	1,150.00	1,932.00
24	1,080.00	1,200.00	2,016.00
25	1,125.00	1,250.00	2,100.00
26	1,170.00	1,300.00	2,184.00
27	1,215.00	1,350.00	2,268.00

Additional Costs
Laboratory Fees

1. Accounting, all lab courses 24.00
2. Air Conditioning, Heating, and Refrigeration, all lab courses 48.00
3. Arts 1311, 1312, 1316, 1317, 2311, 2312, 2326, 2327, 2333, 2334 . . . . . 15.00
   Arts 2316, 2317, 2323, 2324, 2366, 2367 . . . . . 12.00
   Arts 2341, 2342, 2346, 2347, 2348, 2349, 2356, 2357 . . . . . 24.00
4. Automotive Technology, all except AUMT 2321, 1280, 1281 and DEMR 30.00
   AUMT 2321 . . . . . 35.00
   DEMR courses 24.00
5. Aviation Maintenance Technology, AERM 1205, 1208, 1210, 1243, 1247, 1315, 1350, 1444, 2231, 2233 . . . . . 24.00
   AERM 1203, 1241, 1251, 1314, 1340, 1349, 2351 . . . . . 30.00
   AERM 1357 . . . . . 35.00
   AERM 1345 . . . . . 36.00
   AERM 1253, 1254, 1303, 1371 . . . . . 40.00
   AERM 1352, 1456, and AVNC 1343 . . . . . 48.00
   AERM 2447 . . . . . 50.00
6. Biology 32.00
7. Building Science Technology, all lab courses **(per hour)** 24.00
8. Chemistry 32.00
9. Child Care and Development, all lab courses 24.00
10. Communication 1129, 1130, 2129, 2130 . . . . . 5.00
    Communication 2301, 2316, 2330 . . . . . 8.00
    Communication 2309, 2310, 2311, 2315, 2327, 1335, 2305, 2332, 2339 . . . . . 12.00
    Communication 1318, 1319 . . . . . 24.00
11. Computer Graphics Technology, all lab courses 24.00
12. Cosmetology 24.00
13. Criminal Justice, all lab courses, except CJLE 2338 . . . . . 16.00
    CJLE 2338 . . . . . 24.00
14. Dance 1147 . . . . . 20.00
15. Diagnostic Medical Sonography, all lab courses 24.00
16. Drama 1120, 1121, 2120, 2121, 2366 . . . . . 12.00
17. Emergency Medical Services, all lab courses 24.00
18. English, all courses 4.00
19. Fire Protection Technology, 1413, 1419, 1423, 1433 . . . . . 48.00
    FIRS 1329, 1401, 1407 . . . . . 24.00
20. French 4.00
21. Geology 24.00
22. German 4.00
23. Health Information Technology, all lab courses 48.00
24. Information Technology, **(one hour courses)** 24.00
    Information Technology, **(two or more hour courses)** 40.00
25. Kinesiology/Physical Education, all activity courses except 2156, 2356 . . . . . 5.00
    KINE 2156, 2356 . . . . . 24.00
26. Latin 4.00
27. Legal Assistant, LGLA 2331 . . . . . 40.00
28. Mathematics (all classes except MATH 0190 and 0191) 10.00
29. Music 1105 through 1184, 1311, 1312, 2159 through 2312 . . . . . 24.00
    MUAP 60.00
    MUEN 24.00

30. Nurse Aid 24.00
31. Nursing, Associate Degree, all lab courses 24.00
Nursing, Vocational, all lab courses 48.00
32. Physics 24.00
33. Professional Pilot, all lab courses
(except AIRP 1315, 1355, 2339, 2350, and 2351) 24.00
34. Radiography, all lab courses **(per hour)** 24.00
35. Reading, all courses 4.00
36. Respiratory Care, all lab courses 24.00
37 Sign Language 4.00
38. Spanish 4.00
39. Speech 1144, 1145, 2144, 2145 . . . . . 3.00
All other Speech courses 4.00
40. Veterinary Technology, all lab courses 32.00
41. Welding Technology, all lab courses 48.00

Special Charges

1. Advanced Standing and CLEP Examination 50.00
2. Associate Degree Nursing Exit Exam Fee 30.00
3. Associate Degree Nursing Midcurricular Fee 35.00
4. Baccalaureate Program Entrance Exam Fee
(CAAP exam required for TMGT 3303) 50.00
5. Baccalaureate Program Exit Exam Fee
(CAAP exam required for TMGT 4320) 50.00
6. Baccalaureate Degree Exit Exam Fee
(ETS Business Field of Study exam required for TMGT 4304) 50.00
7. General use fee is included in the “Tuition and Fee Schedule” on page 42.
8. Identification Card Replacement Fee 1.00
9. Installment Payment Plan 20.00
Installment Payment Plan for Room & Board 30.00
Installment Payment Plan Late Fee 10.00
10. *Liability Insurance 17.00
*Liability Insurance for Emergency Medical Services courses 71.00
11. Late Registration (1st class day through census date) 15.00
Late Registration after census date 50.00
12. Make-up Examination 5.00
13. Music Private Instruction Fee 40.00
14. NET Admission Test (Required for admission into Associate Degree Nursing, Diagnostic Medical Sonography, Emergency Medical Services, Radiography, Respiratory Care and Vocational Nursing) 25.00
15. Net Test Fee for Fire Protection 25.00
16. Parking replacement sticker or additional vehicle 1.00
17. Parking Fines 10.00-50.00
18. Private Flight Instruction Fee 6,500.00-11,200.00
19. Professional Pilot Application Testing Fee 45.00
20. Returned Check 10.00/25.00
21. THEA fee (Required for ENGL 0370; READ 0370; and MATH 0191) 29.00
22. Vocational Nursing Testing Fee (Required for VNSG 1219 and VNSG 1509) . . 90.00

***Student Liability Insurance** is required for students enrolled in Alcohol and Drug Abuse Counseling 2366; Associate Degree Nursing clinical courses; Child Care and Development courses; Cosmotology courses; Diagnostic Medical Sonography clinical courses; Emergency Medical Services clinical courses; Nurse Aide clinical courses; Radiography clinical and practicum courses; Respiratory Care clinical courses; and Vocational Nursing clinical courses. This is subject to change due to insurance rate changes.

Installment Payment Plan (Fall and Spring Semesters Only)

Students may pay tuition and fees on an installment payment agreement. The student must execute the installment agreement in person at the Cashier's Office. A $20 processing fee is charged to set up this plan. At the time the student signs the agreement, 50 percent of all tuition and fees (including the processing fee) are due. The remaining balance is payable in two equal payments prior to the 6th class week and the 11th class week of the semester. If the payments are not paid by the due date, a $10 late fee will be charged. An additional $10.00 fee will be assessed to students' accounts with a balance 10 days after last payment due date on contract. Failure to have the balance completely paid may result in denial of credit for work completed for that semester.

Refund Policy

Please be aware that IN ALL CASES refunds are made according to the date that classes officially begin rather than the date the student enrolls. All tuition and fee refunds made to the student must be initiated by the student coming in person to the Office of Counseling and Advising. The date placed on the drop slip by the counselor shall determine the amount of refund and the date of withdrawal.

Refunds for installment agreements will first be applied to balances owed, including balances not yet due. Refunds will be the applicable percentage of the total tuition and refundable fees due for the semester, less any amount not paid. If a student has paid less than the amount due after applying the applicable refund percentage, the student is required to pay the balance. In accordance with Coordinating Board Rule 9.103, the students who officially drop or withdraw from the institution will have their tuition and refundable fees refunded according to the following schedules:

Refund Schedule for Complete Withdrawal

Regular Semester Length	Summer Sessions	3-Week Flexible Entry
100% - Prior to 1st class day	100% - Prior to 1st class day	100% - prior to 1st class day
70% - 1st Fifteen class days	70% - 1st Five class days	70% - 1st through 3rd class days
25% - 16th through 20th class days	25% - 6th and 7th class days	25% - 4th class day
NONE- After 20th class day	NONE - After 7th class day	
	NONE- After 4th class day	

Students who officially reduce course load will have their tuition and fees refunded according to the following schedules:

Refund Schedule for Reduction in Course Load

Regular Semester Length	Summer Sessions	3-Week Flexible Entry
100% - Prior to 1st class day	100% - Prior to 1st class day	100% - Prior to 1st class day
100% - 1st through 12th class days	100% - 1st through 4th class days	70% - 1st through 3rd class days
70% - 13th through 15th class days	70% - 5th Day	25% - 4th class day
25% - 16th through 20th class days	25% - 6th and 7th class days	
NONE- After 20th class day	NONE After 7th class day	

Pro Rata Refund Policy

In accordance with the Higher Education Amendments, Section 484B, students receiving any Title IV funds (Pell, Supplemental Educational Opportunity Grant, State Student Incentive Grant, FFEL Stafford Subsidized Student Loans, or FFEL Parent Loans for Undergraduate Students), who completely withdraw from school prior to the 60 percent point in the semester may owe a repayment of grant funds received. Part of the repayment may be owed directly to the Department of Education and the remainder to the school. Midland College is required by the Department of Education to evaluate each student who receives Title IV funds to determine if the student has earned all of the money received and calculate if the student owes. Students owing will be notified in writing. The student must then respond by repaying the funds owed or establishing a repayment agreement. Students not responding will no longer be able to receive any Title IV funds at any school until repayment is made.

Amounts repaid will apply to funds in the following order:

FFEL Subsidized Stafford Loan
FFEL Parent Loan for Undergraduate Students
Pell Grant
Supplemental Educational Opportunity Grant
Other Title IV aid

For additional information, contact the Financial Aid Office.

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.

Scholarship Recipients at the Abell-Hanger 50th Anniversary Celebration held at MIdland College on September 15, 2004

SERVICES FOR STUDENTS

Counseling/Advising

Midland College maintains a professionally staffed and equipped counseling center to help students in academic, personal and career counseling, financial aid, international student advising, and a testing service. During each semester, counselors are on duty in the Student Services Office.

A student may find the guidance and counseling services helpful in choosing or changing careers, selecting areas of study, gaining more independence, aiding with various personal problems, or learning to adopt a more mature attitude and conduct.

1. ACADEMIC advisement is provided regarding appropriate major and course selection, study habits, developmental work or transferring to other colleges or universities. Catalogs from other institutions and other information on transfer possibilities are available in the Guidance and Counseling Center.
2. CAREER advising is available to include interest assessment and personality style. Up-to-date information is kept to determine occupational details such as average wage, detailed job descriptions, employment projections, and usual educational/training requirements.
3. PERSONAL/SOCIAL ADJUSTMENT COUNSELING is provided on a confidential basis regarding issues of life adjustments which many college students experience.
4. TESTING center provides the facility and staff to administer GED, THEA, COMPASS, CLEP, ASE, NET and numerous other exams as requested.
5. REFERRAL is provided regarding expert assistance useful in such matters as financial aid, tutoring, job placement, medical emergencies, or personal adjustment problems.

Testing Program

Midland College administers an extensive testing program for interested students and residents of the community. The Testing Center provides the facility for staff to administer ACT, ASE, CAAP, CLEP, ETS Business Field of Study Exam, GED, NET, SAT, SSAT, THEA, 16 PF and FAA Certification.

Texas Success Initiative

The Texas Legislature in June 2003 approved the Texas Success Initiative as a program designed to help students be successful in college. It includes assessment of students before entering a state-supported college or university, advisement and an individual plan designed to prepare students to meet college readiness skills.

Testing Requirement

The Texas Higher Education Assessment (THEA) is a requirement of all state supported colleges and universities to assess the academic skills of each entering undergraduate before enrollment of the student.

Midland College uses the following approved instruments: THEA and COMPASS.

The following standards are established to determine a student's readiness to enroll in freshman-level academic coursework at Midland College.

THEA - Reading 230+; Mathematics 230+ (270 or an appropriate Math placement test score is required for placement in college level Math courses); Writing 220+

COMPASS - Reading 81; Algebra 39 (71 or appropriate Math placement test score is required for placement in college level Math courses); Writing - Essay: 6 or Essay: 5 plus 59 objective

Both THEA and COMPASS are offered at the Midland College Testing Center located in the Scharbauer Student Services Building. Please call (432) 685-4504 or visit our website at www.midland.edu for testing dates. The cost is $29.00 for each testing session.

Exemptions/Exceptions

Students who meet one of the following conditions are exempt from the Texas Success Initiative (TSI) requirements:

1. For a period of five (5) years from the date of testing, a student who is tested and performs at or above the following standards:
   - ACT taken prior to April 2004 with a composite score of 23 with a minimum of 19 on the English and mathematics test shall be exempt. ACT taken April 2004 or later with a composite score of 23 with a minimum of 19 on the English test and/or the mathematics test shall be exempt for those corresponding sections.
   - SAT taken prior to April 2004 with a combined verbal and mathematics score of 1070 with a minimum of 500 on the verbal test and the mathematics test shall be exempt. SAT taken April 2004 or later with a combined verbal and mathematics score of 1070 with a minimum of 500 on the verbal test and/or the mathematics test shall be exempt for those corresponding sections.
2. For a period of three (3) years from the date of testing, a student who tests and performs on the Texas Assessment of Academic Skills (TAAS): a minimum scale score of 1770 on the writing test, a Texas Learning Index (TLI) of 86 on the mathematics test and 89 on the reading test.
3. For a period of three (3) years from the date of testing, a student who tests and performs on the Eleventh grade exit-level Texas Assessment of Knowledge and Skills (TAKS) with a minimum scale score of 2200 on the math section and/or a minimum score of 2200 on the English Language Arts section with a writing subsection score of at least 3 shall be exempt from the assessment required under this title for those corresponding sections.
4. A student who has graduated with an associate or baccalaureate degree from a public institution of higher education in the state of Texas.
5. A student who transfers to Midland College from other accredited institutions of higher education with appropriate college level work in the areas of Writing, Reading and/or Mathematics (Grades of C or higher) may be deemed as College Ready after review by the Registrar's Office. Students not meeting college readiness in Writing, Reading or Mathematics will be required to take the THEA or COMPASS test for that area.
6. A student who enrolls in a certificate program of one year or less (Level One Certificates: 42 or fewer credit hours).
7. A student who is serving on active duty as a member of the armed forces of the United States, the Texas National Guard, or as a member of a reserve component of the armed forces of the United States and has been serving for at least three years preceding enrollment. Written documentation from the appropriate branch of the military is required for the exemption to be granted.
8. A student who on or after August 1, 1990 was honorably discharged, retired, or released from active duty as a member of the armed forces of the United States or the Texas National Guard or service as a member of a reserve component of the armed forces of the United States. Written documentation (DD214) is required before the exemption will be granted.
9. A casual/enrichment student who is taking courses for personal interest only and who is not seeking a degree or certificate will be allowed to defer developmental course work and may enroll under the following conditions: (a) take a maximum of two courses per semester that are not academically restricted courses; (b) may not declare a major; and (c) may not receive financial aid. Consult with a Midland College counselor or adviser for a list of academically restricted courses.

Students planning to enroll in mathematics courses must also take the Midland College Math Placement test before enrolling in your first college level mathematics class. This is required of all Midland College students. The test is given in the Midland College Testing Center in the Scharbauer Student Center. There is no charge for this test.

Students who have not yet tested should contact the Midland College Testing Center (432) 685-4504. Remember test scores must be available before you are permitted to register for classes.

Advisement and Plan for Academic Success

For each student who fails to meet the passing standards as described above, Midland College has established a program to advise the student and determine a plan regarding developmental education necessary to ensure the readiness of that student in performing freshman-level academic coursework.

Each plan for academic success shall be designed on an individual basis to provide the best developmental education opportunity for each student to succeed in or be ready for freshman-level academic coursework.

Placement Tests

If college readiness indicators are not available, Placement Tests are required for Math, English and Reading intensive courses.

Concurrent Student Placement - Midland College staff will work with high school counselors to ensure proper placement for all concurrent students. College and high school counseling staff will use the progression of the student through the appropriate high school course work to identify students' eligibility to take concurrent courses. High school students wishing to enroll in concurrent courses must pass all sections of the exit-level TAAS exam- or have appropriate TAKS score. In addition, many concurrent courses require that students pass one or more portions of the THEA/COMPASS exam. Some courses also require students to take a placement test in addition to portions of the THEA/COMPASS exam. Students should contact high school counselors or Midland College counselors for exam and placement information.

English Placement and Development Sequence

COURSE	THEA	COMPASS	PREREQUISITE
ENGL 0370 / ENGL 0170	204 or less	0 - 43 and writing score of 1 - 5	No prerequisite
ENGL 0371 / ENGL 0171	205 - 219	44 - 58 and writing score of 5	Specified placement score or "C" or greater in ENGL 0370/ ENGL 0371
ENGL 0280			"C" or greater in ENGL 0371/ ENGL 0171
ENGL 1301	220	59+ and writing score of 5 or writing score of 6	Specified placement score or "C" or greater in ENGL 2080

Math Placement

COURSE	THEA	COMPASS	PREREQUISITE
Math 0389	205 or less	Below 61 (Pre-Algebra)	
Math 0390	206	61+ (Pre-Algebra) 1-48 (Algebra)	"C" or greater in Math 0389
Math 0192-0195	206	61+ (Pre-Algebra) 1-48 (Algebra)	"C" or greater in Math 0389
Math 0391	230	49-70 (Algebra)	"C" or greater in Math 0390 and "P" in MATH 0190 or "P" Math 0192-0195
Math 1314	270	71+ (Algebra) 0-49 (College Algebra)	"C" or greater in Math 0391 and "P" in Math 0190 or "P" in Math 0196-0199
Math 1316		50+ (College Algebra) 0-50 (Trignometry)	"C" or greater in Math 1314
Math 1324		50+ (College Algebra) 0-50 (Trignometry)	"C" or greater in Math 1314
Math 1325			"C" or greater in Math 1324
Math 1332	270	71+ (Algebra) 0-49 (College Algebra)	"C" or greater in Math 0391 and "P" in Math 0190
Math 1333	270	71+ (Algebra) 0-49 (College Algebra)	"C" or greater in Math 0391 and "P" in Math 0190
Math 1342	270	71+ (Algebra) 0-49 (College Algebra)	"B" or greater in Math 0391 and "P" in Math 0190
Math 1348		51+ (Trigonometry)	"C" or greater in Math 1316
Math 1350		50+ (College Algebra) 0-50 (Trigonometry)	"C" or greater in Math 1314
Math 1351			"C" or greater in Math 1350
Math 2412		50+ (College Algebra) 0-50 (Trigonometry)	"C" or greater in Math 1314
Math 2413		51+ (Trigonometry)	"C" or greater in Math 1316 or MATH 2412
Math 2414			"C" or greater in Math 2413
Math 2415			"C" or greater in Math 2414
Math 2320			"C" or greater in Math 2415

Reading Development Placement

COURSE	THEA	COMPASS	PREREQUISITE
READ 0370 / READ 0170	200 or less	0 - 63	No prerequisite
READ 0371 / READ 0171	201 - 229	64 - 80	Specified placement score or "C" or greater in READ 0370 / READ 0170
READ 0180			"C" or greater in READ 0371 / READ 0171
Academically Restricted Courses	230+	81+	Specified placement score or "C" or greater in READ 0180

Advanced Standing Examination - Midland College administers College Level Examination Program (CLEP) examinations. Upon approval of the Division Dean and departmental faculty, departmental examinations may be used in cases where approved CLEP tests are not available. Procedures exist for the granting of credit by examination. Please inquire in the Testing Center for additional information.

Credit for Non-traditional Learning - Midland College may grant credit toward a degree or certificate if a student has achieved knowledge and skills from non-traditional sources. This knowledge must be demonstrated by: 1) written examination conducted by nationally recognized services or by a Midland College instructional department; 2) professional certification; or 3) military training/education. The maximum credit that will be awarded for non-traditional learning is 40 semester credit hours. Interested students should contact the Registrar's Office for detailed information. Procedures exist for the granting of credit in each category of nontraditional learning.

Occupational and Career Interest Surveys - The Career Occupational Preference System, Meyers-Briggs personality indicator, Self-Directed Search, Career Assessment Inventory, Texas C.A.R.E.S., and Choices-CT are available to help inventory interest for students in a variety of occupations.

High School Equivalency Examination - Midland College offers the General Educational Development (GED) examination for those who have not completed a formal high school education. The successful completion of this examination secures a certificate of high school equivalency and enables students to enter college and pursue a college degree.

Other Tests - Midland College also administers other tests that may be useful to people of the community. Please contact the Testing Center at (432) 685-4504 or visit our website at www.midland.edu for further details.

Career and Job Placement

The purpose of the Midland College Job Placement Office is to provide our students and graduates with opportunities for full- and part-time employment. The office is designed to prepare, screen, and refer qualified applicants to job openings. These activities include resume preparation, seminars on interviewing skills, job search techniques, and on-site job interviews.

International Student Advising

Midland College has a counselor appointed to assist international students with problems concerning admission, registration, and adjustment to the college and community while attending college and transferring to other institutions. The international student advisor is located in the Student Services Office.

Student Support Services

The Student Support Services (SSS) is a federal TRIO program, funded by the U.S. Department of Education. The office provides opportunities for academic development, assists students with college requirements and serves to motivate students toward the successful completion of their postsecondary education. The goal of SSS is to increase the college retention and graduation rates of participants and facilitate the transition from one level of higher education to the next.

To be selected into SSS, students must first apply and be accepted to Midland College. U.S. citizens or legal residents who are receiving Pell grants are strongly encouraged to apply to the program. Citizens and resident students who are First Generation College (neither parent has a four year degree) or students who are disabled are also eligible to apply. Student Support Services is located in room 104 of the Scharbauer Student Center.

Career Center

The Career Center provides services for students that include tutoring, career guidance, services for students with disabilities, and support for mature returning students and single parents to enable them to succeed at Midland College.

Services for Students with Disabilities

Midland College has a counselor appointed to assist students with disabilities. Services include assistance with the registration process, information on adaptive and assistive equipment, access and accommodation for programs and course work, and referral to other appropriate resources.

The Testing and Tutoring Center

The Testing and Tutoring Center offers a wide array of testing services to support students. In addition to standardized testing, the Center provides make-up testing for Midland College faculty, proctors exams for distance learning and Virtual College of Texas (VCT) courses, as well as administering a number of professional certification tests. The Testing and Tutoring Center also provides free peer tutoring assistance to Midland College students.

The Helen L. Greathouse Children's Center

The Helen L. Greathouse Children's Center is accredited by the National Association for the Education of Young Children. The center exists for two purposes: service and teacher training. The service function is met by providing a high quality child care program for children ages 24 months to five years. The center hours of operation are 7:30 a.m. to 5:30 p.m. This service function is also met by providing a model early childhood education program for the children, families, and early childhood professionals of the Midland community. The Children's Center serves as a training site for students to practice teaching young children. The overall goal of the Children's Center is to help the children develop the competence to function in a changing world. Those interested in enrolling children in the center should contact the Director of the Children's Center for scheduling and fee information.

Bookstore

The college bookstore is operated for the convenience of students and faculty. Textbooks and a variety of classroom supplies are available through the bookstore or you can shop online at www.midlandcollegebookstore.com.

Food Services

Hot and cold food and beverages may be obtained at the snack bar located in the Scharbauer Student Center or the Jack E. Brown Dining Hall. Breakfast and lunch are available to students, faculty, staff and visitors.

Lost and Found

All articles which are found on campus should be turned in to the Midland College Police Department (MCPD) located by the game room in the Student Center. Likewise, those who have lost an article should check with MCPD.

Police Services

Your College Police Department is here to assist in any way possible, including unlocking vehicles when keys are locked inside, and providing jump starts when lights are left on or batteries are dead. The Police Department also provides security escorts as necessary or requested.

Sex Offenders are required by Federal and State law to register with the local police department. Information on sex offenders registered in Texas may be found at http://records.txdps.state.tx.us/soSearch/soSearch.cfm

The purpose of the Department is to provide as safe an environment as is possible for the students and employees of Midland College.

Student Handbook

A student's enrollment indicates acceptance of the standards of conduct that appear in the Student Handbook. Each student also has the responsibility to become familiar with the traffic and parking regulations found in the Handbook. Student Handbooks will be mailed to new Midland College students. Additionally, a copy of the Student Handbook may be obtained from the Office of Student Services or at registration.

Student Identification Cards

Photo ID cards are made in the Student Center. Full-time ID cards are used for library access and free admission to ball games, dances, and other school activities.

Publications

The students of the Communication Department at Midland College publish *The Chaparral*, a magazine reflecting campus life and a newspaper, *El Paisano*, that informs students of current events and developments at Midland College. Communication students also publish *Tableau* which promotes creative writing in the English Department.

Health Services and Emergency Medical Care

Midland College maintains first aid stations for the student body. In the event that medical care beyond that of first aid is needed, doctors at Midland Memorial Hospital are available for emergency service 24 hours per day, seven days per week. Individuals desiring information on insurance coverage may contact the Student Activities Director. For further information refer to the health services pamphlet.

EZ Rider Bus System

The campus is on Midland's EZ Rider public transportation system's Route. The campus bus stop is on Chaparral Circle, just north of the bookstore. Citywide, buses operate from 6:15 a.m. to 6:15 p.m., Monday through Saturday. Buses stop on campus every 30 minutes, first traveling north and then returning south, and connect to other parts of the city. Maps are available in Student Services, and bus passes can be purchased from the cashier.

Murray Fasken Learning Resource Center (LRC)

The LRC is a repository of 59,767 cataloged books, 88,910 microforms, 349 videos and DVDs, and approximately 300 magazine, journal, and newspaper subscriptions which support the Midland College curriculum. In addition, over 10,000 e-books are available online, along with full-text databases in many disciplines. The LRC is a participant in TexShare programs for enhanced access to learning resources. Special subject collections include Health Sciences and Law. The collection is primarily for students, staff, and faculty use. Materials are available for checkout through current Midland College ID cards. Library holdings are described by an online catalog, enabling author, title, subject, and keyword searches. Labs in the LRC provide word processing and related software. The LRC's web site is extensive (http://www.midland.edu/lrc). Included are library tutorials, the online catalog, general information, and links to hundreds of databases and highly recommended web sites for virtually all academic subjects.

Housing

Midland College offers modern Residence Halls and Family Housing providing an atmosphere for academic success, appropriate social activities and a safe living environment for full-time students (enrolled in 12 or more semester credit hours). Students living in MC housing are expected to behave responsibly, to promote respect for the rights of others, follow all rules and regulations, support appropriate study opportunities, and enjoy a positive college experience.

A full-time manager and several student resident assistants live in the residence halls and a part-time units manager lives in family housing providing supervision and direction for students. They are responsible for the daily operation of housing, providing leadership for educational and social programs, and offering individual assistance to students for both academic and personal issues.

Residence Hall Reservations:

- Submit a completed application for housing available from Student Services or online.
- Mail $100 room reservation deposit with completed application to Midland College Student Housing, 3600 N. Garfield, Midland, TX 79705.
- Room assignments are made on a first-come, first-serve basis after the application and deposit are received. Roommates will be assigned by college personnel with consideration given to roommate preferences.
- The room reservation is confirmed and assigned upon receipt of a signed Housing Contract. This contract is legal and binding for the full academic year and expires at the end of the spring semester.
- Room reservation deposits are refunded if written notification is received by July 1, for the fall semester and December 1, for the spring semester.
- After moving in, the reservation deposit becomes the property damage deposit.

Residence Hall Information:

- The Residence Halls will be available for move in at noon on the Saturday before the first day of class each semester. In the fall semester, students must vacate the residence hall within 24 hours of their last final. In the spring, it will close on Saturday at noon following the last day of class. The Residence Hall will be closed during Christmas break.
- Food Service will provide 19 meals per week: weekdays - three meals per day, weekends - two meals per day during posted hours of operation. Meal service will not be available Thanksgiving, Christmas, Spring Break and Easter holidays.
- Housing occupants are subject to the rules and regulation, policies and procedures of the college.

Room and Meal Charges

All students who reside in residence halls are required to pay for both room and meal charges. If full payment is made at registration, a package plan at a price of $1,760 per semester is available. (Applicable sales tax will be charged on the meal charges, current sales tax rate is 8.25 per cent. Current meal charges will be $830 of the $1,760.)

Any student moving into the residence hall after the twelfth class day will be charged for the remaining days in the semester at the following rates:

Room	$9 day	$63 week
Board	$9 day	$63 week

Students desiring to pay room and meal charges by installments may do so by request to and with approval of the business office; however, the cost will be slightly higher. Failure to meet installment obligation can result in late fees. Installments are due on or before the following dates:

- **Fall Semester** — **Residence Hall**
  - September (date of registration) — $880 + applicable tax
  - Second Installment (prior to 6th class week) — $440
  - Third Installment (prior to 11th class week) — $440

- **Spring Semester**
  - January (date of registration) — $880 + applicable tax
  - Second Installment (prior to 6th class week) — $440
  - Third Installment (prior to 11th class week) — $440

- **Meal tickets** for non-dorm students is $830 + state sales tax per semester. An installment can be made with $430 + applicable tax at registration and two installments of $215.

The costs reflected above cover 19 meals per week-three meals per day, Monday through Friday, two meals per day on Saturday and Sunday.

Prices do not reflect sales tax and are subject to change due to fluctuating food costs. Visa or MasterCard will be accepted.

Students living in family housing are expected to pay rental charges due on the 1st of each month. Failure to pay within 30 days will result in eviction.

Withdrawal from Residence Hall

The residence hall contract is an academic year agreement which expires at the end of the spring semester. Students moving out of the residence halls prior to the end of the spring semester will forfeit the room deposit. Room deposits less any damages will be returned to the student at the end of the academic year.

Room and meal charges will be refunded as follows:

Official withdrawal prior to the first official move-in day* 100%

Official withdrawal the first two weeks after official move-in week . . . 75%

Official withdrawal prior to the 6th week after official move-in week . .50%

Official withdrawal prior to the 11th week after official move-in week . 25%

Official withdrawal during or after the 11th class week 0%

A student who is administratively withdrawn shall be refunded room and meal charges on a pro-rata basis.

*Official move-in day occurs when resident completes any move-in paperwork.

STUDENT ACTIVITIES

An important part of Midland College is its varied student activities program including student events, concerts, lectures, educational programs, intramural competition, and clubs. These activities serve as a source of enrichment to the regular classroom experience.

Although events vary from year to year, there are fall mixers to welcome new students, after-game parties, bowling, casino night, dances, and noon-time entertainment. Student activity calendars listing various special and regular events are published each month. Most special events and programs are available at no cost to students. Contact a member of the Student Government Association or the Director of Student Activities for more information. Students are admitted to all athletic events and activities with a Midland College student ID.

Clubs - Student clubs provide activities in such areas as student government, spirit, religion, health sciences, and various majors. These clubs are sponsored by faculty or staff.

Student Government - Midland College's Student Government Association provides numerous leadership opportunities. The Student Government organizes and assists with extracurricular activities including homecoming, speakers, mixers, and fund raising. The MCSGA actively participates in regional and statewide student government association.

Athletics - Midland College is a member of the Western Junior College Athletic Conference (WJCAC) and Region V of the National Junior College Athletic Association. The varsity program at Midland College is highly competitive in men's basketball, women's basketball, volleyball, golf, baseball, and softball.

Intramurals - Intramural sports offer the opportunity for each student to participate in their favorite sports during leisure time or in competitive tournaments. Intramural activity includes flag football, basketball, volleyball, tennis, pool, golf, soccer, disc golf and ping pong. Member schools of the NIRSA annually hold tournaments in intramural sports. These activities afford our intramural athletes the opportunity to compete with other students from around the state. Students interested in intramural sports should contact the Intramural Director.

Cheerleaders - support athletic teams and represent Midland College at MISD school and community program on request. Tryouts are in April of each year. Contact the Cheer Sponsor for information.

Davidson Distinguished Lecture Series - This series presents, twice a year, speakers whose academic accomplishments, civic leadership, and/or public achievements will interest, enrich, and enlighten Midland students and citizens. Departments and other groups also schedule guest lecturers and speakers to promote student interest in current topics.

Phyllis & Bob Cowan Performing Arts Series - This series presents, twice each year, cultural and artistic performances of international interest and scope to stimulate and inspire the Midland arts community which prides itself on a rich tradition of excellence in the performing arts.

AVOCATIONAL CONTINUING EDUCATION

The Avocational Continuing Education Department has a long history of providing learning opportunities in the community. Courses occur throughout the year, vary in duration, and occur on- and off-campus. Courses provided fall under three categories:

Personal Enrichment courses include dance, music, drawing, painting, language, health/fitness, and other special interest courses. In addition, a multitude of online course offerings are available. If interested in on-line courses, visit www.ed2go.com/midlandcollege to review over 250 course offerings.

College Classics offers a series of courses designed especially for local residents who are 50 and older. Volunteer instructors from Midland College and the community present such subjects as History, Economics, Genealogy, Computer Basics, Senior Fitness, and a host of others. The fall semester includes two sessions. The spring semester includes three sessions. A registration fee of $25.00 per semester enrolls students for as many courses as a student wishes to take.

Kids' College is a summer program for students who have completed the first through sixth grades. Students always have fun in arts, performing arts, languages, crafts, computers, science/math, personnel development, and sports classes. Families are able to schedule their child in one, two, or three classes per day. The program runs 16 days each summer divided into two sessions.

For information about any of the above course offerings, call (432) 685-4518.

HEALTH SCIENCES CONTINUING EDUCATION

A multi-faceted program offering educational courses with clinical experiences for entry-level health careers, such as Certified Nurses Assistant and Phlebotomy. In addition to course offerings, this program is approved as a provider by the Texas Department of State Health Services in the areas of: Massage Therapy, Marriage and Family Therapists, Emergency Management (EMS), Texas State Board of Social Worker Examiners, Texas State Board of Professional Counselors, also, the National Athletic Trainers Association Board of Certification, and the Texas Department of Aging and Disability for Nurses Aide and Medication Administration for the Nurse Aide to provide educational activities to those licensed or certified in the State of Texas or nationally. For further information, regarding courses or seminars offered in the Health Sciences Continuing Education department, please call (432) 685-4603 or (432) 685-6486.

WORKFORCE EDUCATION

Business Training

Customized training opportunities are available for entities within the private and/or public sector through the Midland College Workforce Training Department. Diverse training opportunities include, but are not limited to: technical training, software training, supervisory and management training, and vocational training. The adaptable nature of this training program provides local business and industry a great tool to meet their staff development needs. For more information please call Barry Horseman at (432) 697-5863 ext. 3603.

Workforce Continuing Education

Workforce Continuing Education offers certification and mandatory licensure updates and seminars for the professionals. Classes have also been developed for students to enhance their occupational skills or retrain for other career opportunities.

Dual courses are those CREDIT courses that may be taken as NON-CREDIT. Most credit courses, subject to approval and space availability, fit into this category.

Midland College works with individuals, and groups to plan continuing education courses, seminars and forums.

Continuing Education Unit (CEU) Courses - Initial job skills, skills upgrading, instructional classes for career certifications and retraining are the main focus of these courses.

Business Systems Training

Business Systems Training provides entry-level computer and business skills education in an intense “hands-on” and comprehensive 4-week program. Students who successfully complete this 120-hour certificate course will gain basic knowledge of computers and operating systems; gain technical proficiency of office applications such as Word, Excel, PowerPoint, and Access; type 35 words per minute (WPM) or greater; and acquire the critical technical writing and business etiquette skills necessary in today's highly competitive job market. No previous knowledge of computers or software is necessary.

Medical Assisting

The Midland College Medical Assisting program will include the following training and certifications:

1. Nurse Aide and the State of Texas Certified Nurse Aide exam and placed on the Texas Nurse Aide Registry. Completers will be eligible for employment in hospitals, nursing homes, assisted living, hospice, physician offices, home health among a few.
2. Phlebotomy and the American Society of Clinical Pathologist National examination to become a nationally certified as a PBT (Phlebotomy Technician). Completers will be eligible to work in hospitals, laboratories, clinics, physician offices, insurance companies, and many more.
3. Medical Assisting and the American Medical Technologist national examination to be certified as a Registered Medical Assistant (RMA).

For more information about JobTrack please call (432) 699-3016.

TRANSPORTATION TRAINING

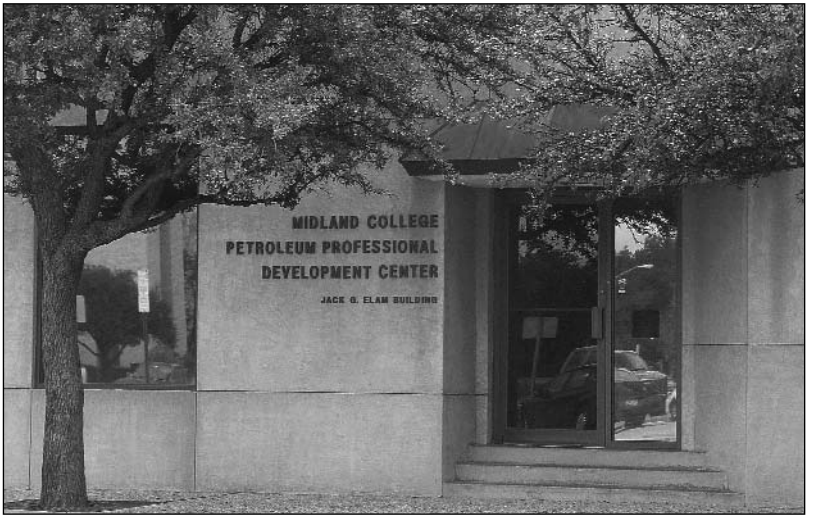
This program provides individuals with the proper training in order to obtain a CDL License to operate a commercial motor vehicle safely within the rules and regulations set out by the Department of Transportation. Job placement assistance is available to qualified students who seek a career in the Transportation Industry. Customized courses in various transportation areas are available. The program is located at 2067 Commerce Drive, (432) 689-4900 or 1-800-474-7164.

PERMIAN BASIN ENERGY EDUCATION PROJECT

The Permian Basin Energy Education Project (PBEEP) was developed to provide ongoing safety and occupational training for entry-level oil field service workers. A combination of classroom and hands-on equipment training is utilized. All courses are free of charge due to Department of Labor funding. Course offerings include Universal Oilfield Safety Training, Well Servicing, Hands on Applications Training, and Drilling. Future course offerings will include Roustabout Training and Transport Driver Training. Individuals who are unemployed, underemployed, or very recently employed in the oil field service industry are eligible to participate. The program is located at the Tgaar Tower, 24 Smith Road, Suite 300. For more information please call (432) 687-5564.

PETROLEUM PROFESSIONAL DEVELOPMENT CENTER

The Petroleum Professional Development Center (PPDC) located at 105 W. Illinois Ave, in downtown Midland, is a unique educational facility designed specifically for the local oil and gas industry. The PPDC offers Continuing Education Unit courses designed to help oil and gas industry professionals stay current in their technical fields. Dynamic interaction between the community, the college, and industry enables the PPDC to provide high quality instruction in meeting the training needs of the community it serves. For more information please call (432) 683-2832.



ADULT BASIC EDUCATION

The Department of Adult Basic Education (ABE) offers a variety of programs to help adults increase their academic and life coping skills and workforce skills. Students are provided with the opportunity to improve their skills in reading, math, science, social studies, language arts, civics, and English. There are no fees for any ABE program. Attendance of registration class is required before students enter the instructional classes. Individuals must be 17 years of age to enroll and provide proof of age. Current offerings are:

General Education Development (GED) - Programs are designed for persons who have not completed high school. Men and women in GED classes study individual materials that are on their own level and progress at their own speed. Students preparing to take the GED tests are given instruction in writing, social studies, science, reading, and math. Some students need minimal preparation, while others may attend a GED class for a year or longer. Students are encouraged to take a section of the test whenever they and the instructor feel the results will be positive. The GED certificate may be necessary for a job qualification, or it also may qualify the student for college or technical school admission.

English as a Second Language (ESL) - Classes provide students with the opportunity to improve their speaking, reading, and writing and listening English language skills. These skills are taught in conjunction with survival like skills to help the student compete and function fully in the community. Multi-levels of instruction are available.

Multi-Use Computer Lab - Multi-level computer instruction assists students with the English language as well as provides instruction in general academics (reading, math, science, social studies, language arts). Instruction is available to better prepare individuals for the workforce.

Citizenship - Resident aliens are prepared for United States citizenship with individualized academic instruction. Level I and Level II classes are offered.

In addition to Midland College, classes are held at the following locations:

Midland College Cogdell Learning Center - 201 W. Florida - (432) 684-4100
Casa de Amigos - 1101 E. Garden Lane - (432) 682-9701
Advanced Technology Center - 3200 W. Cuthbert - (432) 697-5863

Midland College ABE is involved in community partnerships with MISD, Casa de Amigos, Even Start, Head Start and Midland Need to Read programs. Additional class sites and community partnerships can be established as determined by needs and funding.

STUDENT RIGHTS, RESPONSIBILITIES AND DUE PROCESS

I. Students' Rights and Responsibilities

Students, employees and visitors at Midland College, by the nature of their citizenship and residence, have certain individual rights and freedoms established by the Constitution and the laws of the United States, the State of Texas and the respective communities where they live. The possession of the personal rights is neither increased nor diminished by reason of a person's association with Midland College.

A. Midland College recognizes and accepts the following rights and freedoms as being essential to the educational process:
   (a) freedoms of expression in the classroom consistent with commonly accepted standards of decency and respect for others;
   (b) freedom from improper, unfair, or capricious academic evaluation;
   (c) freedom from improper disclosure of personal belief or expression on the basis of classroom activities;
   (d) the right to have one's personal record kept in professional confidence;
   (e) freedom of association;
   (f) freedom of inquiry and expression consistent with commonly accepted rules governing libel, slander and good taste;
   (g) freedom of exercise in the rights and responsibilities of citizenship;
   (h) guarantee of procedural due process in disciplinary proceedings; and
   (i) right to distribute or post printed material in compliance with the college's posted policy.

B. Midland College expects employees, students, visitors and guests of the college to accept the following responsibilities:
   (a) compliance with and support of duly constituted civil authority;
   (b) respect for the rights of others and cooperation to insure that such rights are maintained, whether or not one agrees with the views of those exercising such rights;
   (c) maintenance of ethical and commonly accepted standards of decency and respect for others and stewardship of college resources while using electronic communication devices;
   (d) cooperation to insure that the will of the majority is implemented after due consideration, but not to include the suppression of the minority;
   (e) to exercise disagreement in a responsible manner and within the framework compatible with the orderly resolution of differences;
   (f) knowledge of and active support of college regulations.

C. Students with identified disabilities should report their need for accommodation to the Student Services Office. Students with grievances related to discrimination on the basis of a disability may contact the Student Services Office or follow the directions on the posted notices for grievances.

II. Student Conduct/Misconduct

Midland College has declared that the following actions constitute an interference with the lawful and orderly use of the college premises, facilities and activities to accomplish the objectives of the college. These actions are therefore strictly prohibited on the Midland College campus and other college property and facilities and during all college-sponsored activities wherever occurring:

A. Disrupting or obstructing or attempting to disrupt or obstruct, any lawful activity of the college, or violating H.B. 141, as enacted by the 61st Texas Legislature.
B. Interfering with, or attempting to interfere with, the lawful exercise of freedom of speech, freedom of movement, freedom of peaceable assembly, or other rights of individuals or groups.

C. Illegally possessing, using, selling, or being under the influence of dangerous drugs, narcotics or alcohol.
   - The college prohibits possession and consumption of alcoholic beverages.
   - The college strictly enforces the state law that prohibits the possession and consumption of alcohol by those under the age of 21.
   - The college strictly prohibits attending classes while under the influence of alcohol.
   - The college prohibits possession or use of controlled substances, i.e. drugs, in its residence halls or at any off campus college-sponsored event.
   - The college strictly enforces the local, state, and federal laws which prohibit the sale of controlled substances on its campus.

D. Possessing or using firearms, weapons, or explosives, unless authorized by the college. A person commits an offense if he or she intentionally, knowingly, or recklessly possesses or goes with a firearm, illegal knife, club or prohibited weapon on the physical premises of a school or educational institution, any grounds or building on which activity sponsored by a school or educational institution is being conducted, or a passenger transportation vehicle of a school or educational institutional, whether the school or educational institution is public or private, unless pursuant to written regulations or written authorization of the Midland College Administration (Texas Penal Code 46.03). This prohibition includes, but is not limited to, fireworks of any kind, illegal knives, clubs and razors.

   In addition, Midland College prohibits the same weapons from being brought onto any campus of the college.

   Lockers and vehicles on any campus of Midland College may be inspected by school personnel if there is reasonable cause to believe that they contain weapons, drugs or other contraband items.

   In the event a student possesses a license to carry a concealed handgun under state law, the possession of such weapons on any campus of the college is prohibited.

   Only local, state and federal authorities are authorized to carry firearms on their person when on the campus of Midland College, either as visitor or a student.

E. Sexual Harassment is expressly prohibited and offenders are subject to disciplinary action.

   Sexual Harassment may be defined as either unwelcome sexual advances, requests for sexual favors, and other expressive or physical conduct of a sexual nature, when:
   - submission by a student to such conduct is explicitly or implicitly made a term or condition of status in a course, program, or activity; or
   - submission to or rejection of such conduct is used as the basis for academic decisions affecting the student; or
   - such conduct has the purpose or effect of substantially interfering with a student's academic performance; or
   - such conduct, in intent or effect, creates an intimidating, hostile, or offensive environment for learning.

   Students who perceive that they have been sexually harassed may address their questions or complaints to their appropriate guidance counselor, supervisor, Division Dean, or other administrator. In such cases, the Vice-President of Student Services should be contacted immediately for consultation. Resolution of the complaint will then be handled according to the usual procedures for grievances.

F. Advocating the overthrow by force or violence of any legally constituted governmental body, system, or any local, state, or federal law, or any rule, regulation or policy of the Board of Trustees and administrative officials of the college.

G. Engaging in physical assault, harassment, obscene, profane, reckless, tumultuous, destructive or unlawful course of conduct.
H. Hazing in all forms, as defined and prohibited in the Texas Penal Code Articles 1152, 1153, 1154, and 1155 and any addendum thereto.
I. Academic cheating or plagiarism; willfully submitting false information with the intent to deceive; forgery, alteration, or misuses of college documents or records.
J. Malfeasance in an elective or appointive office of any college endeavor.
K. Refusal to present an appropriate appearance in dress and grooming while participating in or attending a college activity. Students who dress so unconventionally or bizarrely that it causes disturbances, disrupts campus life, or calls undue attention to itself will be asked to conform to a more conventional form of dress. At Midland College, individual members of faculty and staff are given a considerable amount of discretion in determining what is appropriate for the educational activity under their responsibility. Whatever is clearly stated by those responsible as being appropriate or not appropriate will be the prevailing standard in that particular area of activity.
L. Refusing or failing to comply with lawful order of any college or public official acting in the performance of duties in the administration and enforcement of these policies.
M. Theft, vandalism, defacement or destruction of college or student property.
N. Failure to meet financial responsibilities to the institution promptly including, but not limited to, passing a worthless check in payment to the institution.
O. Failure to return, defacement of, or destruction of, college property which has been issued as educational equipment, such as, but not limited to, tools, cameras, recorders, musical instruments, etc.
P. Violation of established safety and health requirements in laboratory, shop or other educational settings.
Q. Violation of campus housing regulations.

III. Student Discipline

A. Any student violating policies and general rules on student rights, responsibilities, conduct and privacy shall be subject to immediate removal from any college premises, facilities, or activities. Such removal or exclusion shall not prejudice or interfere with subsequent disciplinary action by the college.

There are occasional exceptional situations where a student's physical or psychological condition is such that action needs to be taken to withdraw the student from the college. The action could occur, for instance, if the conditions were such that the student could not benefit from the educational program, was threatening to self and/or others; or was disruptive to others.

B. Complaints regarding student behavior may be originated by students, faculty, staff members, or citizens outside the college community. The Vice-President of Student Services or his or her designee will investigate any complaints and notify the student in writing of all charges, the name of the person lodging the charge, the disciplinary action, and the right to a hearing.

C. Disciplinary action may include:
   (a) admonition and warning
   (b) formal written warning
   (c) fines
   (d) loss of privileges
   (e) formal disciplinary probation
   (f) suspension
   (g) dismissal

College imposed sanctions are additional to any action taken by law enforcement officials.

IV. Student Due Process

Midland College provides due process procedures for its students to assure that specific problems are addressed in a fair, reasonable, and timely manner. Students may seek review of decisions or redress of grievances related to their participation in college programs or activities including:

- disciplinary action
- assignment of a final course grade (see Grade Appeal Policy, page 61)
- denial of admission to, dismissal from, or denial of readmission to a limited access program
- any perceived discriminatory action based on race, color, age, natural origin, sex, handicap, marital status, religion, or any other condition prohibited by law

Students are encouraged to seek informal resolution of problems by discussing issues directly with the college employee involved and/or that individual's supervisor. In the event that informal discussions do not resolve disputed issues, a student may request a formal hearing. During a hearing, the decision in dispute and related circumstances will be reviewed, and the student will have an opportunity to present his or her viewpoint.

A. Hearing Procedures

1. A student seeking a formal hearing of a disputed decision should file a statement of grievance and written request for hearing with the Vice-President of Student Services within fifteen working days of the event in question. Such a request must describe the disputed act, the parties involved and the action requested.
2. The Vice-President of Student Services will assure that appropriate college personnel are informed, and a hearing will be scheduled within fifteen working days of the filing of a grievance. A due process facilitator will be appointed to conduct the hearing and provide information to all parties involved in the hearing process.

3. The hearing panel will consist of a balanced group including a member of the department or division involved, an individual outside the department or division involved, and a representative from the instructional area or the Student Services area, as appropriate. The student may present information and/or arrange, with permission of the facilitator, for others to present information. A campus resource person will be available if the student needs assistance in the hearing procedure. The Midland College employee involved in the dispute may do likewise. All materials to be considered in the hearing must be submitted to the facilitator 48 hours prior to the scheduled hearing. It is the policy of the college that legal counsel will not be involved in dispute resolution before all internal remedies have been exhausted.

4. The hearing panel may uphold, overturn or revise the disputed decision and the facilitator conducting the hearing will provide all involved parties a written statement of the panel's decision.

5. Actions which result from disputed decisions and which affect student status or participation in Midland College programs or activities will be deferred until after formal hearing unless otherwise directed by either the Vice-President of Instruction or the Vice-President of Student Service s.

6. When either the Vice-President of Student Services or the Vice-President of Instruction has been directly involved in disputed action with a student, he or she shall designate a representative to serve in his or her stead during hearings or appeals.

B. Appeals

1. A student may appeal the action taken by the hearing panel. However, only procedural matters will be addressed in subsequent review.

2. A student seeking to appeal the decision of the hearing panel must file a written request with the Vice-President of Student Services within ten days of receipt of the hearing panel's decision. This request must state the grievance and requested action and will be forwarded to the appropriate Vice-President for review.

3. If a need for an appeal hearing is determined, the Vice- President of Student Services and the Vice-President of Instruction shall handle appeals in each other's areas of supervision including selecting balanced panels to hear such appeals and chairing appeal hearings.

4. The student will be given a decision regarding an appeal within ten working days of filing the request for appeal.

5. The President has the right to overturn any decision from a hearing or an appeal.

Grade Appeal Policy

Students are strongly encouraged to first discuss their concerns directly with the involved faculty.

If the disputed issue is not resolved, the next step is an informal meeting with the appropriate academic dean or Midland College administrator. The appropriate dean is the direct supervisor of the involved faculty.

Once a final course grade has been filed with the Registrar, if the issue has not been resolved, the student may request a formal hearing. During the hearing, the student and the faculty member will have an opportunity to present their viewpoints and relevant materials. Actions which result from disputed decisions and which affect student status or participation in Midland College programs will be deferred until after the formal hearing unless otherwise directed by the Vice-President of Instruction.

A student seeking a formal hearing of a disputed action must submit a written notice to the appropriate Associate Vice-President of Instruction within fifteen business days of the beginning of the academic semester following the filing of the grade. The request must describe the disputed act, the parties involved, and the action requested.

The Associate Vice-President of Instruction will inform appropriate college personnel, including the Vice-President of Student Services, the Executive Director of Human Resources, and a campus facilitator, of the need for a hearing. The Vice-President of Student Services or their designee will provide the student with a list of approved campus resource persons to assist the student with the appeal procedure. Facilitators and student resource persons will be selected by the appropriate Associate Vice-President of Instruction and will receive training in grade appeal procedures and standards.

A hearing will be scheduled within fifteen business days of the student's written notice. The facilitator will schedule the hearing, receive information from the parties involved, and assemble a hearing panel and distribute relevant information to the panel members. Panel members will include a member of the division involved, an individual outside the division involved, and a representative from Student Services area.

The hearing panel may uphold or overturn the disputed grade and the facilitator will provide all involved parties a written statement of the panel's decision.

The President has the right to overturn any decision from a hearing or panel.

Typical Estimated Costs for Midland College (IN-DISTRICT)

Based on Full-Time (15 Hours) For Fall & Spring

	Living with Parent	Living in Apartment	Living in Residence Hall
Tuition/Fees	1,388	1,388	1,388
Books/Supplies	862	862	862
Room/Board	2,116	6,287	3,460
Transportation	1,288	1,288	1,288
Personal/Misc.	1,582	1,582	1,582
Total	**$7,236**	**$11,031**	**$8,580**

FINANCIAL AID

Financial Aid at Midland College is intended to help students and their families pay for the costs associated with obtaining a college education. Knowing that there is a limited amount of funds available and an ever increasing need for financial assistance, it is our stance that the primary source for funding an education rests with the students and their families. As students prepare for college they often discover that their own financial resources, including help from their parents, are not enough to meet the costs of the college they wish to attend. This discovery may cause them to postpone or abandon plans to attend college and can be very discouraging. Financial Aid in the form of grants or work study can help with the cost of a college education.

Financial aid programs were developed to give financially needy students more options. With financial assistance from state or federal governments, civic groups and even the colleges themselves, more and more students have found that they can afford to go to college and that they may be able to attend the college of their choice.

One source of financial aid often overlooked is the reduced tuition rate of a local public community or junior college. Due to the state funding and local taxing districts community and junior colleges are able to significantly reduce the costs of a college education. Students should consider the option of attending locally for the first year or two. If students and parents will save the difference in the tuition costs between a community college and a four-year school they may be able to pay for the next two years of tuition at the four-year school.

Eligibility for aid is determined in many ways depending on the type and amount of aid received. Need-based aid includes Federal Pell Grant, Federal Supplemental Educational Opportunity Grant (FSEOG), Texas Public Education Grant (TPEG) Student State Incentive Grant (SSIG), Toward Excellence Access and Success Grant (TEXAS) I and II, and Federal College Work Study (FCWS). The eligibility criteria for these aid programs is demonstrated financial need. This need is determined by completion of the Free Application for Federal Student Aid(FAFSA). The results of the application will produce a dollar amount that the families and students are reasonably expected to contribute toward their educational expenses. This amount is called the “Expected Family Contribution” or EFC. It is subtracted from the estimated cost of education determined by the school resulting in what is called demonstrated NEED. Students may receive aid up to this amount of need but may not exceed it with any and all types of aid. Pell, FSEOG, and TPEG award amounts are prorated according to the number of credit hours in which the student enrolls each semester (12 or more hours = 100 percent; 9-11 hours = 75 percent; 6-8 hours = 50 percent).

To be eligible for federal programs, an applicant:

1. must be a U.S. citizen, permanent resident of the U.S., or citizen of certain former trust territories
2. enrolled as a regular student in an eligible program
3. must be making satisfactory academic progress
4. must sign the following statements: Statement of Educational Purpose, Statement of Updated Information, and Selective Service Registration.

All students receiving federal financial aid at Midland College must have a high school diploma or a GED. In addition, a student cannot receive financial aid from more than one school during the same semester.

Eligibility for various scholarships may be based upon a combination of academic achievement, financial need, and the wishes of the donor.

Students should apply for all types of aid as early as possible. Midland College has preference dates, which means that all needed forms or documents must be received prior to these dates to have aid available for payment of tuition and fees at registration.

Steps for Applying for Need-Based Financial Aid

1. Complete the application for federal aid each year after filling out federal income tax forms. Also, complete the Midland College application process.
2. Apply for all types of aid funded by Midland College by completing the Free Application for Federal Student Aid (FAFSA) and General Scholarship application by the deadlines.
3. Submit all required documents to the Financial Aid Office.
4. Check on the status of your application periodically. This process is a long one and can take several months to complete.

Need-Based Aid Award Procedure - Federal grants and work-study are awarded on a first come, first serve basis. In accordance with federal regulations, preference is given to applications which are submitted prior to the deadlines indicated.

Federal Aid Preference	Priority/Deadline Dates
Fall	June 1
Spring	September 1
Summer	February 15

The financial aid process is lengthy. If the priority deadlines are missed, funds may not be available in time for registration.

Satisfactory Academic Progress for Financial Assistance

Policy:

In order to receive Financial Aid a student must have a High School Diploma or GED, and documentation of such must be provided prior to enrollment. All federal financial aid recipients must maintain their eligibility to receive such assistance from the College by meeting the minimum satisfactory progress criteria. Enrollment status indicates the load level of a student (full-time = 12 or more hours per semester, 3/4 time = 9 to 11 hours per semester, 1/2 time = 6 to 8 hours per semester, and less than 1/2 time = 5 hours or below)

1. **Minimum GPA** - The minimum grade point averages that students must obtain are:
   a. the minimum cumulative grade point average is 2.0 or a "C" average (based on all past semesters)
   b. prior to receiving aid each student will be evaluated for cumulative 2.00 GPA
   c. scholarship and state grant recipients must also meet the individual program requirements if different from college policy.
2. **Minimum Hour Completion** - All federal aid applicants and or recipients must:
   a. complete at least 75 percent of the minimum number in the categories listed above for the hours for which they have been funded per semester for a total for the year
   b. prior to being awarded each student will be evaluated for the 75 percent completion of course work attempted
3. **Maximum Time Frames** - Students are expected to complete their degrees or educational objectives within a reasonable number of semesters.
   a. students may attempt a maximum of 93 hours to complete an associate degree
   b. the time limit applies to all students whether or not financial aid was received
   c. taking extra (non-degree) courses may exhaust financial aid eligibility prior to completion of degree
   d. transfer work that is applied toward the student's program of study and posted to their transcript will be included

The above policies apply retroactively to all students. Exceptions will be made if the degree requires more hours than can be completed in the maximum time frame. Re-enrollment for a course in which a grade of A, B, C, D, or F has been earned is considered to be a repeated course. The student may be funded for a repeated course. If the student does repeat a course the new grade will be used to calculate GPA.

Consequences of not making progress:

Satisfactory Progress is evaluated once each year (at the end of the spring semester) except for the maximum time conditions and students who completely withdraw before 60 percent of the semester is over if they receive financial aid. Those students are placed on financial aid suspension immediately and must follow the "Removal From Suspension Procedures" below to regain eligibility. At the time of evaluation, if a student fails to maintain satisfactory progress, the student will be placed on financial aid **SUSPENSION**.

Students who are on financial aid SUSPENSION will no longer be eligible to receive any form of financial assistance at Midland College.

Procedure to follow for removal of suspension:

1. **STUDENT'S SUCCESSFUL COMPLETION OF COURSES**
   Students on financial aid suspension for reasons other than time may be removed from financial aid suspension if they receive academic advising and complete the appropriate number of hours to bring their progress up to the hours required and achieve a 2.0 grade point average for those hours.
2. **REQUEST A REVIEW BY DIRECTOR**
   Students on suspension who have mitigating circumstances may request a review of their suspension by submitting a letter requesting a review. They must provide the following:

a. the circumstances which caused their suspension
b. their plans to correct the circumstances
c. any intended future enrollment plans
d. a current copy of their academic transcript
e. any other pertinent documentation

Review letters should be addressed to the Director of Financial Aid. No action will be taken until a written request for review has been received.

3. APPEAL TO THE FINANCIAL AID APPEALS COMMITTEE

Those students who are not removed from suspension by the Director after the summary review may make written appeal to the Midland College Financial Aid Appeals Committee. Written procedures are available in the Financial Aid Office. Exceptions to this policy may be made at the discretion of the Director of Financial Aid. Criteria that will influence the Financial Aid Director's decision may include but is not limited to the following:

a. class attendance, completion of assignments, and substantiated academic progress in required courses
b. unusual circumstances, such as extended medical confinement or a death in the family
c. utilization of campus supportive services
d. response to Financial Aid Office contacts

This policy statement supersedes all other policy statements on this subject.

Grants

Federal Pell Grant - Eligibility is determined by completion of the Free Application for Federal Student Aid (FAFSA). The award amount (approx. $4,050 maximum) is determined by need and is set by the U.S. Department of Education.

Federal Supplemental Educational Opportunity Grant (SEOG) - Eligibility is determined by completion of the Free Application for Federal Student Aid (FAFSA). The award amount is determined by need with a minimum of $100 per year and a maximum of $4,000 per year.

Texas Public Education Grant (TPEG) - Eligibility is determined by completion of the Free Application for Federal Student Aid (FAFSA). The award amount is determined by need with a maximum of $1,500 per year.

Student State Incentive Grant (SSIG) - Eligibility is determined by completion of the Free Application for Federal Student Aid (FAFSA). The award amount is determined by need with a minimum of $100 per year and a maximum of $2,500 per year.

Toward Excellence, Access, and Success (TEXAS) Grant Program - Among other criteria, eligibility is determined by completion of the Free Application for Federal Student Aid (FAFSA). To qualify, a student must: be a Texas resident; graduate from a public or accredited private high school in Texas no earlier than fall 1998; apply no later than 16 months after high school graduation; complete the recommended or advanced high school curriculum or its equivalent; have financial need; enroll in at least 9 semester hours in an undergraduate or certificate program; and has a family contribution of no more than $4,000; not be convicted of a felony or a crime involving a controlled substance, the maximum award amount at Midland College is $1,270 per year.

Toward Excellence, Access, and Success (TEXAS) II Grant Program - Among other criteria, eligibility is determined by completion of the Free Application for Federal Student Aid (FAFSA). To qualify, a student must: be a Texas Resident; have financial need; if applying for his/her first award, has a family contribution of no more than $2000; be enrolled at least ½ time in the first 30 hours (or their equivalent) in an associate's degree or certificate program at a public two-year institution of higher education; and has not been convicted of a felony or a crime involving a controlled substance. The maximum award amount at Midland College is $1,270 per year.

Student Employment

Federal College Work Study Program - Eligibility is determined by completion of the Free Application for Federal Student Aid (FAFSA). Students on this program work an average of 15 hours per week and are paid by the federal program and the college. The amount of award is based upon the minimum wage of $5.15 per hour with a maximum of 19 hours of work per week or $1,200 a semester.

Institutional Part-time Student Employment - Students on this program also work on campus an average of 19 hours per week. Funds for this program come from institutional sources.

Loans

Midland College now participates in the Federal Family Education Loan Program (FFELP). We offer the following loans only: Subsidized Stafford Loans and Plus (Parent) Loans

To apply for a student loan, you must meet the following criteria:

1. In addition to having filled out a FAFSA (Free Application for Federal Student Aid), you must have a completed file in the financial aid office. A complete file is defined as all complete and acceptable documents being submitted and fully processed.
2. You must have completed at least 12 semester hours at Midland College within the preceding two long semesters (excluding interim and summer terms) with an overall GPA of 2.0 (this includes transfer students).
3. Transfer students must submit all academic transcripts to the Financial Aid Office from all prior schools attended, and must have completed 75 percent of all hours attempted at all schools.
4. Student cannot have an existing loan balance over $6125.
5. You must be enrolled in a minimum 6 semester hours.
6. You must complete both an Entrance and Exit Counseling session.
7. Your Spring loan (2nd Disbursement) will be cancelled if you drop below 6 semester hours in the Fall of the year.
8. Your loan application process must be complete by the 12th class (Census) day. Any appeals to this policy should be directed to the Loan Coordinator.

To be awarded a student loan, you must meet all eligibility guidelines established by the Department of Education. If you are interested in a student loan, contact the Loan Coordinator, in the Financial Aid Office at 685-4693 to set up an appointment to determine if you are eligible for a student loan. You will then be required to attend an Entrance Counseling session before your application will be processed.

Scholarships

The primary purpose of the scholarship program at Midland College is to provide financial assistance to students who, without aid, would be unable to attend college. In addition, Midland College seeks to:

1. attract and retain students with outstanding intellectual, creative, and leadership abilities;
2. develop a student body with socio-cultural, economic, geographic, and ideological diversity; and
3. develop a student body committed to quality education in the liberal arts tradition.

Consequently, Midland College offers academic and performance scholarships, as well as need based scholarships, both endowed and undesignated, that recognize excellence. Scholarship awards may be based upon merit, interest, need and ability. Generally, only full-time students carrying at least 12 hours are eligible to apply. However, special situations such as scheduling conflicts may allow scholarship recipients to enroll on a part-time basis.

A student must be officially accepted for enrollment at Midland College before a commitment of financial aid will be made.

Normally, scholarships are awarded for one year. Students are eligible to reapply provided that they continue to meet necessary academic standards and adhere to the required

enrollment status. In most cases, one-half of the yearly scholarship is awarded for the fall semester and the remaining half for the spring semester. Scholarships are gifts and do not have to be repaid. Unless specified in the scholarship agreement, no scholarship aid shall be given for audited courses or for workshop participation.

Fasken Top 5 Percent: Applicants must be in the top 5 percent of their graduation class in high schools outside of Midland County. Applications are made through the high school or the Midland College Financial Aid Office after February 1. The award will not exceed tuition, fees, and books to a maximum of $750 per semester.

Legacy Scholarship Program: Applicants must have a high school GPA of 2.75 and be a graduate of a Midland County high school, and complete 40 hours of community service at an approved agency. Applications will be available in the high school counselor's office. The scholarship amount is the amount of tuition with a maximum of $625 for the fall and spring semesters only. Students must be enrolled in at least six semester hours. In order to renew the scholarship, the student must remain in good standing, reapply, and complete 40 more hours of community service.

Abell-Hanger GED: Applicants must have received their GED within the last twelve months through the Midland College Testing Center. Applications must be available at the Midland College Financial Aid Office. The scholarship amount in the amount of tuition with a maximum of $635 for the fall and spring semesters only. Students must be enrolled in at least six semester hours. The scholarship is renewable for three additional semesters, provided that the student remains in good standing.and reapplies for the scholarship for the Sophomore year.

Abell-Hanger ECS: Must be an Abell-Hanger Special, GED or SIP scholarship recipient (in good standing) at Midland College. Student must have 3.0 GPA or higher. Student must provide 25 hours of community service each semester and be a citizen of the State of Texas and the United States. The amount of scholarship is $6,250 per semester and is renewable for two years or four semesters if qualifications are met. Student must be enrolled in at least 12 credit hours per semester and have financial need. Deadline for application is April 1st.

Athletic Scholarships: These scholarships are governed by the conference rules and are awarded by the coaches and based upon athletic ability with the necessary academic criteria in order. Applications are available from the Midland College Athletic Department. The amount of scholarships will vary.

The General Scholarships: Midland College General Scholarships are funded by many sources. The application deadlines are: Fall 2004 - April 1; Spring 2005 - October 1. Generally a grade point average of 2.0 or greater is required; however, some have higher standards. Exceptions may be made on an individual basis at the discretion of the Director of Financial Aid.

Veterans Benefits: Students eligible for Montgomery GI Bill education benefits should contact the Veterans Coordinator in the Midland College Registrar's Office. Hazlewood Act applications are available and processed through the Financial Aid Office.

Other State Aid Programs

Competitive Scholarship Policy: Competitive scholarships pertain to certain students who, when receiving competitive scholarships, will pay out-of-district tuition rates who would normally pay non-resident tuition rates.

A Competitive Scholarship is defined as a "scholarship totaling $1,000.00 or more for the Academic Year, which both residents and non-residents applicants will be in competition to receive." Competitive scholarships may be awarded on the basis of either Academic Potential or Performance which is determined by the nature and scope of the scholarship for which the award will be made. The scholarship committee makeup will depend upon which department has responsibility for the selection of recipients of the particular scholarship. For example, Athletic scholarship selections will be made by the appropriate Athletic Department. Journalism scholarships will be made by the Journalism Department. General scholarship recipients will be selected by the Financial Aid Scholarship Committee and so on. The factors to be used in the selection of recipients will depend upon the individual scholarship requirements. For example, Basketball scholarships may be primarily performance-based while Journalism scholarships may be based primarily upon academic potential.

An Academic Year for purposes of Competitive Scholarships is defined to be the Fall Semester through Summer II Session of each school year. The Fall semester usually begins in late August or early September and the Summer II session usually ends in August of the following year.

Hazlewood Act: Texas veterans who were residents, joined the military in Texas, and are now residents may be eligible for exemption of tuition and fees. The Hazlewood Exemption will cover no more than 150 cumulative semester hours. Applicants must provide a DD214 along with verification of Montgomery GI Bill expiration and must complete a short application. A new application must be completed each academic year. If a student uses their Hazlewood Exemption at a school other than Midland College, a Hazlewood transcript will be requested.

Valedictory Scholarship: The highest ranking graduate from any accredited high school in Texas is eligible for exemption from tuition for the first two long semesters following graduation. Certification from the Texas Education Agency is required.

Early High School Graduation Scholarship Program: The Exemption program provides an exemption from the payment of tuition for students that have completed the requirements of high school graduation (grades 9-12) in no more than 46 continuous months. The student must have attended a public high school in Texas only, and must be a Texas resident. To apply, the student's high school counselor must submit documentation to the Texas Higher Education Coordinating Board. Award amounts vary.

AFDC/TANF Recipient Exemption: The Exemption program provides a tuition and fee exemption for students that have received or been on AFDC/TANF for at least six months of their senior year in high school. The student must be under 22 years old and start using the exemption within 12 months of their high school graduation. Students must apply through the Department of Human Services.

Blind/Deaf Students Exemption: Students that are legally blind or deaf may be exempted from paying tuition and all fees. Students must apply through Texas Rehabilitation Commission.

Foster Care Students Exemption: Students that have been in foster care or other residential care under the conservatorship of the Texas Department of Protective and Regulatory Services on or after the day preceding the student's 18th birthday, the day of the student's 14th birthday, if the student was also eligible for adoption on or after that day; or the day the student graduated from high school or received the equivalent of a high school degree, are eligible to receive a tuition and fee exemption. The student must enroll within 3 years of the earliest of the following dates: the date the student was discharged from foster or other residential care, graduated from high school or received the equivalency degree, or the student's 21st birthday.

Senior Citizens Exemption: Senior Citizens 65 or older may be exempt from paying course-related fees. To receive the exemption the student must present a valid picture id and proof of birth date to the Midland College Financial Aid Office.

Fire Fighter Exemption: Students employed as fire fighters are exempt from the payment of tuition and laboratory fees for courses offered as a part of a fire science curriculum. To apply, students must contact the Midland Fire Protection Department and submit documentation to the Midland College Financial Aid Office.

Texas National Guard Tuition Assistance Program: Certain members of the Texas Army or Air National Guard and Texas State Guard may be eligible to receive a tuition exemption. To apply, students should contact the Education Services Office at Camp Mabry: http//www/agd.state.tex.us/education/.

Educational Aides Exemption: Students that are Certified Educational Aides may be eligible for a tuition and mandatory fee exemption. Eligibility is based on the students current Free Application for Federal Student Aid or the previous years tax return. In addition, student must meet Midland Colleges criteria for satisfactory academic progress. The student must then apply through their employing school district.

STUDENT ACADEMIC INFORMATION

Students are responsible for knowing their course grades and scholastic status. Advisors and counselors are available at all times to help students with academic questions especially those concerned with unsatisfactory work.

Student Classification and Load

Students classification is defined as follows::

Freshman	1-29 Semester Hours
Sophomore	30-59 Semester Hours
Junior	60-89 Semester Hours
Senior	90 Semester Hours or above

The normal student load during a regular semester is 12 to 15 hours with a maximum of 19 hours. Maximum load during the summer session is seven hours for each six-week term. Appeals for an overload should be directed to the Vice President of Instruction or a designee.

The following guide is offered to help evaluate the number of hours a working student should try to complete in one semester.

Hours worked per week	Suggested Semester Hours
40	3 - 6
30	9 - 12
20	12 - 15
15	15 - 17

Scholastic Standards

Student retention is essential to the Midland College mission and every effort is made to promote student success. Each student's scholastic performance is evaluated in relation to the minimum scholastic standard each regular semester. The standard is achievement of a 2.0 grade point average. A student is in good scholastic standing if he/she has no previous academic record at Midland College or has met the minimum scholastic standard.

A student who falls below the minimum scholastic standard will be placed on scholastic probation and will be allowed to enroll for a maximum of twelve semester credit hours in the next regular semester. A student who fails to meet the minimum scholastic standard for the last two regular semesters will be placed on scholastic enrollment restriction and will not be allowed to enroll for more than six semester credit hours in a regular semester. To remove the enrollment restriction, a student must complete six semester credit hours during a regular semester or two consecutive summer sessions with a 2.00 grade point average.

Upon student request, a student's counselor or faculty advisor may grant an exemption to the enrollment limits resulting from scholastic probation or scholastic enrollment restriction. If a student's request for exemption is denied, he/she may appeal this decision in writing to the Vice President of Instruction. Subsequent appeals may be pursued according to student rights and due process procedures.

A student will be notified when placed on scholastic probation or scholastic enrollment restriction.

A student will not be placed on scholastic probation or enrollment restriction as a result of scholastic performance during summer sessions. However, scholastic performance during summer sessions may used be to remove scholastic probation or scholastic enrollment restriction. Only semester credit hours and grade points earned at Midland College are used for calculations of scholastic standing.

Student Progress Standard

Course work completion is essential for student success and progress toward obtaining upgraded skills, a certificate, a degree, or transfer hours. The Student Progress Standard is the completion of at least half of the semester hours attempted each regular semester.

A student who falls below the minimum progress standard will be encouraged to focus on course work completion for the following semester.

A student who fails to meet the progress standard for the last two regular semesters will be placed on course enrollment restriction and will not be allowed to enroll for more than six semester credit hours in a regular semester. Completion of at least half of the hours enrolled will remove the enrollment restriction.

Upon student request, a counselor or faculty advisor may grant an exemption to the enrollment limit resulting from student progress enrollment restriction. If the request is denied, the student may appeal the decision in writing to the Vice President of Instruction. Subsequent appeals may be pursued according to student rights and due process procedures.

A student will be notified when they have not met the minimum student progress standard.

Honors Program

The Midland College Honors Program provides an enhanced, creative, and supportive learning environment and special recognition for talented students. The curriculum includes interdisciplinary Humanities courses, special Honors sections, and independent Honors contracts in regular classes. These opportunities provide a flexible and individualized program designed to develop the special abilities and interests of the participants. Graduation as a “Midland College Scholar” is possible with 12 semester hours of Honors credit. Other students in the program, but with fewer credits, will receive “Honors” designation on their transcripts. For further information and application forms, contact the Honors Program office,141 AFA, (432) 685-4640, or Dr. Donna Thompson or Dr. William Morris.

Concurrent Enrollment

Midland College has entered into agreements with the Midland Independent School District, the Greenwood Independent School District and Trinity School allowing high school students to earn both high school and college credit for selected courses. Students at Midland High School, Robert E. Lee High School, Greenwood High School and Trinity School may participate in this program. For more information, students should contact their high school counselor. Similar programs exist at out-of-district sites.

Class Attendance, Withdrawals, and Incomplete Contracts

Absences: Students cannot be successful without regular class attendance, and it is their responsibility to know the policies and procedures associated with absences:

1. Three consecutive classroom hours of unexcused absences or a total of six classroom hours of unexcused absences as reported by the instructor may result in a student being dropped from the course. Midland College reserves the right to deal at anytime with individual cases of non-attendance.
2. In such cases where each class is longer than one hour in length, a proportionately less number of absences is allowable.
3. In the case of excused absences, it is the obligation of the student to notify the instructor as soon as practical and make up all missed work.

Excused Absences:

1. When a student represents Midland College in an event, it is the student’s responsibility to initiate the making up of missed work prior to making the trip.
2. If severe weather is perceived to cause hazardous driving conditions, the student should initiate the making up of missed work.

3. It is the responsibility of the instructor to determine whether absences for other reasons are excused.

Student Withdrawals:

Completing the withdrawal process for all periods of enrollment is the responsibility of the student. Requests for withdrawal must be made in writing using the colleges accepted drop methods. Students may complete an official drop form in person in the Student Services area of the college, or they may use the on-line WEB version of the drop form. Midland College reserves the right to decline approval of a drop request for any reason it deems appropriate. Such reasons may include, but are not limited to the following: submitting incomplete information on the request, no current contact information for the student, any questions concerning the authenticity of the document, disciplinary actions, outstanding debts, etc.

1. In the event that a student is not dropped from the class for non-attendance and to avoid receiving a grade of "F", it is the responsibility of the student to complete a withdrawal form. The form is available in Student Services in the counseling area or on the Midland College WEB page at www.midland.edu.
2. Withdrawals can also be handled by using the PDF form provided on the Midland College WEB page, or by providing all the required information by mail. Students who receive "Warning" letters may complete the drop request portion of the drop letter and return it to Student Services. In such cases where the student has moved unexpectedly, a letter stating the desire to withdraw may be accepted.
3. Students who withdraw and have outstanding debts in any area of the college such as the Library, Financial Aid Office, Business Office, etc. will not be given clearance to re-enroll until these debts are paid.
4. The last day for withdraw for each registration period is stated in the current general catalog. It will be the 12th week of a long semester, the 4th week of a summer term and the 9th class day of the Winter or Spring Interim sessions. WEB submitted withdrawal requests must be made on or prior to the dates listed in the current general catalog for the term or session.
5. In such cases where the student contracts for an Incomplete "I" rather than a withdrawal "W" he/she must make up the work within the specified period of time on the contract or the grade will be recorded as an "F".

Incomplete Grade:

A student who does satisfactory work in a course but does not finish due to extenuating circumstances, e.g. major illness, family tragedy, etc., may be eligible to receive an Incomplete (“I”). An “I” grade is given after the student has had a conference with the instructor and an Incomplete Contract has been completed and signed. The contract states the conditions that must be fulfilled and the time permitted for the work to be completed which must be no later than the end of the next regular semester. After the work is completed or the time expired, a final grade will be assigned. At this time, the instructor must submit a final grade. If a final grade is not submitted, a grade of F will be assigned.

In exceptional cases, the deadline may be extended. An incomplete may only be extended once. An extension should only be granted after a conference between the student, faculty member, and the dean and must have final approval of the dean. Appeals may be pursued according to student rights and due process procedures.

Grades, Honor Roll, and Graduation

A grade is assigned for each credit course which a student completes, and a passing grade may be earned only if the student is enrolled for the duration of the course. The instructor of record determines all grades for a course. The method of determining a grade is included in the syllabus that is presented to students at the beginning of the course. Grade reports are mailed to students at the close of each semester or term.

Grades or transcript notations and their corresponding rating values are as follows:

Grade	Rating	Transcript or GPA Value
A	Excellent	4 grade points per semester hour
B	Outstanding	3 grade points per semester hour
C	Average	2 grade points per semester hour
D	Passing	1 grade point per semester hour
P	Satisfactory	0 grade points per semester hour
F	Unsatisfactory	0 grade points per semester hour
I	Incomplete	Not used in either the semester or cumulative GPA
W	Withdrew Passing	Not used in either the semester or cumulative GPA
AU	Audit	Not used in either the semester or cumulative GPA
CR	Credit By Exam	Not used in either the semester or cumulative GPA
N	No Grade Reported	Not used in either the semester or cumulative GPA
*	Repeated Course	Grade points assigned by the letter grade - used in semester and cumulative GPA
( )	Course Repeated	Grade points assigned by the letter grade - used in semester GPA only not in the cumulative GPA
[ ]	Remedial Course	Grade points assigned by the letter grade - used in semester GPA only not in the cumulative GPA
@	(After Grade) Articulated Course	Not used in either the semester or cumulative GPA
H	(After Grade) Honors Designation	Honors course - grade points assigned by the letter grade - used in semester and cumulative GPA

The grade of “P” applies to the pass or fail option and is available for designated courses only.

A semester hour is the standard unit of measurement of college work. Semester hours are assigned to courses based on instructional hours per course in lecture, laboratory and/or external learning experience as approved by the Texas Higher Education Coordinating Board.

Grade point averages are computed by dividing the total number of grade points accumulated by the total number of semester hours attempted. Grades of “W” are not included in calculations of grade averages, and incomplete grades are not included until the final grades have been recorded.

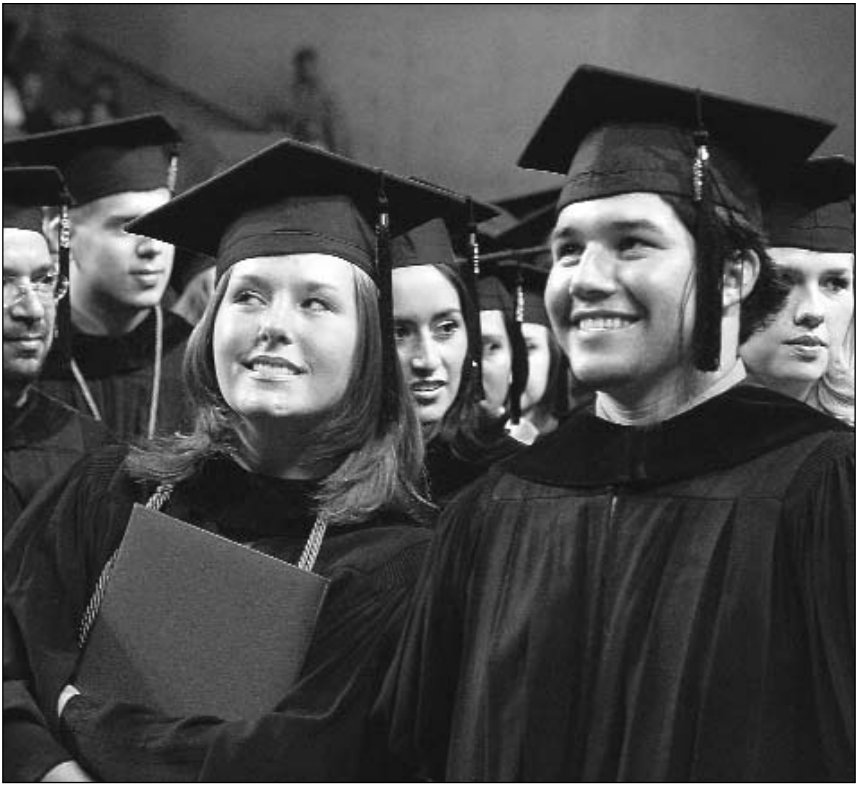
Honor Roll - The honor roll is published after the fall and spring semesters. The purpose of the honor roll is to honor full-time students, that is, those who have enrolled in and completed twelve or more semester hours of college level course work and whose academic achievements are worthy of recognition. Students earning an average of 4.00 will be included in the President’s List; those with an average from 3.50 to 3.99 will be included in the Dean’s List.

Transcript of College Record - The transcript of college work is an official copy of the student’s permanent record in the computer bearing the college seal and the signature of the Registrar. Copies of a student’s transcript are available upon written request from the Office of the Registrar.

Graduation/Degree Posting - Each Spring, Midland College holds a Commencement Program to recognize those students who have completed degree and certificate programs during the course of the year. The deadline for filing for graduation is posted in the Spring Semester schedule of classes and all students planning to receive a certificate or degree should complete an Intent to Graduate available in the Registrar’s Office.

Degrees and certificates are posted to transcripts only after the student has completed all requirements needed for such a degree or certificate. Transcript postings are made at the end of the Spring, Summer II and Fall semesters.

Graduation with Honors or High Honors will be calculated by the Midland College Registrar using the following criteria: The GPA will be determined by using only Midland College courses, and for the printed graduation program, the calculation will be made only on those courses that have been completed through the end of the fall semester prior to spring graduation. For posting to the transcript, all Midland College courses will be used to determine Honors status.



Midland College's Graduation Ceremony
May 2004

TRANSFER INFORMATION

Transfer to Midland College

Midland College accepts college-level courses earned from accredited colleges and universities for degree application provided they are equivalent to the appropriate Midland College courses and a grade of "C" or better was earned in each course. A grade of "D" will be accepted only for non-major courses. Questions regarding the transferability of courses from other institutions into Midland College certificate and associate plans should be taken directly to the dean responsible for the field of study or program. Transfer of credit into the Bachelor of Applied Technology program may be limited. Questions regarding the transferability of courses from other institutions into this program should be taken directly to the Director, Bachelor of Applied Technology Admissions.

Transfer students - Transfer students are required to provide copies of all transcripts from every college or university previously attended. As transcripts from accredited colleges and universities are received, they are evaluated in the Registrar's Office. A copy of that evaluation is sent to the student at the address recorded in the student files.

Students are advised that if transcripts from previous colleges and universities are not received within the student's first semester of attendance, it may jeopardize continued enrollment until the transcripts are received.

Reverse Transfer Degree Program - Graduates from an accredited college or university holding a baccalaureate degree may receive an Associate in Applied Science degree from Midland College upon successful completion of thirty (30) semester hours of courses within a technical specialty area and any leveling courses as determined by the appropriate dean. Students interested in the program should consult with a counselor in Student Services.

Credit for Non-traditional Learning - Midland College may grant credit toward a degree or certificate if a student has achieved knowledge and skills from non-traditional sources. This knowledge must be demonstrated by: 1) written examination conducted by nationally recognized services or by a Midland College instructional department; 2) professional certification; or 3) military training/education. The maximum credit that will be awarded for non-traditional learning is 40 semester credit hours. Interested students should contact the Registrar’s Office for detailed information. Procedures exist for the granting of credit in each category of nontraditional learning.

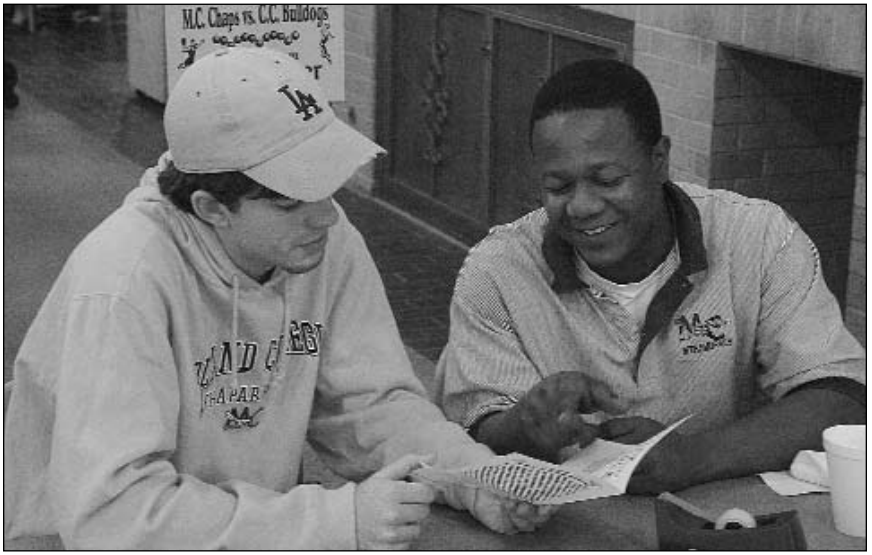
Transfer to Other Colleges

Transfer Procedures - Students planning to transfer to another college after attending Midland College should contact a counselor as soon as possible. The counselor will help prepare a list of courses to be taken at Midland College designed to transfer to that degree and school. Students who have attended Midland College should have no difficulty in transferring credits at full value to a senior college or university if the following steps are completed:

1. Students should select a major field of study and a senior college or university which offers a bachelor’s degree in that field. A Midland College counselor or advisor will help students select Midland College courses corresponding to those they would take at the senior college or university.
2. Students should write to the admissions office of the senior college or university for a copy of its current catalog. Students should check with the senior college or university regarding admission requirements and transfer regulations.
3. Early in their last semester at Midland College, students should apply for admission to a senior college or university and ask the Registrar to send an official transcript.

Transfer Appeal Process - The following presents procedures for the resolution of disputes involving the transfer of courses from Midland College to other public institutions in Texas.

1. If an institution of higher education does not accept course credit earned by a student at another institution of higher education, the receiving institution shall give written notice to the student and to the sending institution that transfer of the course credit is denied. A receiving institution shall also provide written notice of the reasons for denying credit for a particular course or set of courses at the request of the sending institution.
2. A student who receives notice as specified may dispute the denial of credit by contacting a designated official at either the sending or receiving institution.
3. The two institutions and the student shall attempt to resolve the transfer of the course credit in accordance with Texas Higher Education Coordinating Board rules and guidelines.
4. If the transfer dispute is not resolved to the satisfaction of the student or the sending institution within 45 days after the date the student received written notice of denial, the institution that denies the course credit for transfer shall notify the Commissioner of Higher Education of its denial and the reasons for the denial.
5. The Commissioner of Higher Education or the Commissioner's designee shall make the final determination about a dispute concerning the transfer of course credit and give written notice of the determination to the involved student and institutions.
6. The Higher Education Coordinating Board shall collect data on the types of transfer disputes that are reported and the disposition of each case that is considered by the Commissioner's designee.
7. If a receiving institution has cause to believe that a course being presented by a student for transfer from another school is not of an acceptable level of quality, it should first contact the sending institution and attempt to resolve the problem. In the event that the two institutions are unable to come to a satisfactory resolution, the receiving institution may notify the Commissioner of Higher Education, who may investigate the course. If its quality is found to be unacceptable, the Higher Education Coordinating Board may discontinue funding for the course.



DEGREE INFORMATION

The Core Curriculum

The requirements for degrees are based on guidelines established by the Southern Association of Colleges and Schools and the Texas Higher Education Coordinating Board. Degree programs contain a basic core of general education courses reflecting not only courses taken but also learning as a lifetime endeavor. Included are logical thought and critical thinking. Students study mathematics and sciences, the arts and philosophy, and human behavior and social interaction. For some degrees, there are additional requirements in Communications and Physical Activity.

Core Requirements

To determine the degree sought, first consult the Degree Plan and Course Descriptions section beginning on page 84. Core requirements for your specific degree are outlined below.

Core Area	AAS, AAGS and ASGS Degrees	BAT, AA and AS Degrees
Mathematics and Natural Sciences	Minimum of 3 sch*	3 sch* Mathematics
		8 sch* Natural Sciences
Visual and Performing Arts and Humanities	Minimum of 3 sch*	3 sch* Visual and Performing Arts
		3 sch* Humanities
Social and Behavioral Sciences	Minimum of 3 sch*	6 sch* United States History (3 sch* may be History of Texas)
		6 sch* Federal and State Government I, II
		3 sch* other Social Sciences
Communications	Competency in reading, writing and speaking - *see degree plan*	6 sch* ENGL and 3 sch* SPCH
Physical Activity	*see degree plan*	1 sch* Physical Activity
Total Required	Total of 15 sch* selected from Approved Core Courses	42 sch*

* sch = semester credit hours

See APPROVED CORE COURSES on the next page.

Approved Core Courses

Courses are to be selected from the list below.
For the semester credit hours required, refer to the previous page.

MATHEMATICS AND NATURAL SCIENCES

Mathematics: MATH 1314, MATH 1316, MATH 1324, MATH 1332, MATH 1333, MATH 1342, MATH 1348, MATH 2412, MATH 2413, MATH 2414, MATH 2415

Natural Sciences: BIOL 1406, BIOL 1407, BIOL 1408, BIOL 1409, BIOL 1411, BIOL 1413, BIOL 1424, BIOL 2401, BIOL 2402, BIOL 2421, CHEM 1405, CHEM 1411, CHEM 1412, GEOL 1401, GEOL 1402, GEOL 1403, GEOL 1404, GEOL 1405, PHYS 1401, PHYS 1402, PHYS 1415, PHYS 1417, PHYS 2425, PHYS 2426

VISUAL AND PERFORMING ARTS AND HUMANITIES

Visual and Performing Arts: ARTS 1301, ARTS 1303, ARTS 1304, DRAM 1310, DRAM 2361, DRAM 2362, DRAM 2366, MUSI 1306, MUSI 1308, MUSI 1309, MUSI 1310

Humanities: HUMA 1301, HUMA 1302, PHIL 1301, PHIL 2303, PHIL 2306, ENGL 2321, ENGL 2322, ENGL 2323, ENGL 2326, ENGL 2327, ENGL 2328, ENGL 2331, ENGL 2332, ENGL 2333, ENGL 2342, ENGL 2343, FREN 2311, FREN 2312, GERM 2311, GERM 2312, LATI 2311, LATI 2312, SPAN 2311, SPAN 2312

SOCIAL AND BEHAVIORAL SCIENCES

U.S. History: HIST 1301, HIST 1302, HIST 2301

Government/Political Science: GOVT 2301, GOVT 2302

Other Social/Behavioral Sciences: ANTH 2301, ANTH 2302, ANTH 2351, HIST 2321, HIST 2322, ECON 2301, ECON 2302, GEOG 1303, PSYC 2301, SOCI 1301, SOCI 1306

COMMUNICATIONS

ENGL 1301, ENGL 1302, SPCH 1311, SPCH 1315, SPCH 1318, SPCH 1321

PHYSICAL ACTIVITY

KINE 1100, KINE 1101, KINE 1102, KINE 1103, KINE 1104, KINE 1105, KINE 1106, KINE 1107 KINE 1108, KINE 1109, KINE 1110, KINE 1113

COMPETENCY REQUIREMENTS

In addition to the Core Curriculum, the College also requires its students to be competent in the following areas:

- Reading, writing, and fundamental mathematics; these areas are assessed through THEA testing and, if needed, remediation.
- Oral communication; this competency is addressed in either an approved course**, departmental testing, or in specific classes required for your degree.
- Basic use of computers; this will be assessed through departmental testing, or evaluation of your high school course work.

** Non-Core courses approved to meet the Oral communication competency requirement are BMGT 1305, RNSG 1513, LGLA 2305, RADR 1309, RSPT 1360.

Degrees Offered

Midland College offers six degrees: Bachelor of Applied Technology, Associate of Arts, Associate of Science, Associate of Arts in General Studies, Associate of Science in General Studies, and Associate of Applied Science. The Bachelor of Applied Technology degree provides an advance course of study in Technology Management. The Associate of Arts or the Associate of Science is chosen from a regular course of study as listed in the catalog. These degrees are primarily for the first two years of a four year degree. The Associate of Arts in General Studies or the Associate of Science in General Studies is selected when an individualized plan is needed. These degrees can also be used for the undecided major. The Associate of Applied Science is selected for a major in an occupational/technical field of study.

Degree Majors - The following presents the major fields of study available at Midland College. Information about specific courses in each of these areas is presented in the section of this catalog entitled Degree Plans and Course Descriptions.

BACHELOR OF APPLIED TECHNOLOGY

Technology Management

ASSOCIATE OF ARTS

Art
Communication
Drama
Education
English
Government/Political Science
History
Kinesiology
Modern Languages
Music
Psychology/Social Work
Sociology/Anthropology
Speech

ASSOCIATE OF SCIENCE

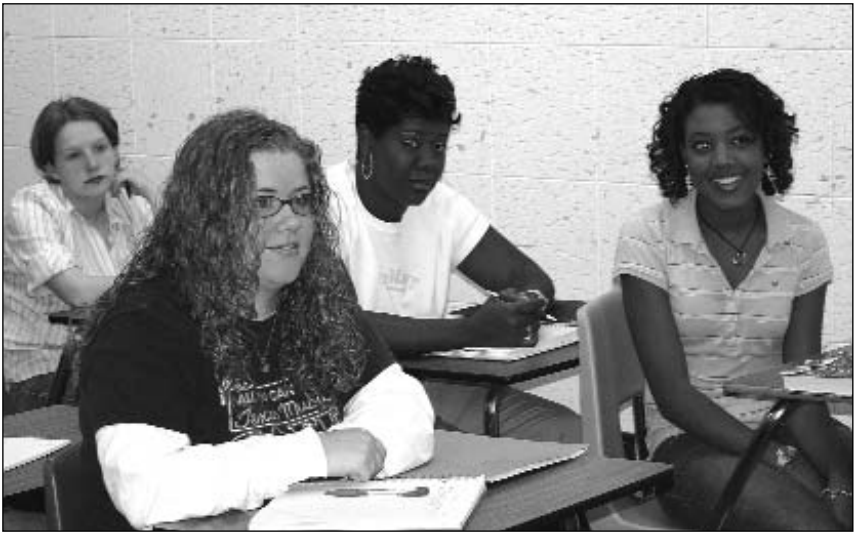
Biology
Business Administration
Chemistry
Communication
Criminal Justice
Drama
Education
English
Geology
Government/Political Science
Health Careers
History
Kinesiology
Mathematics
Physics
Psychology/Social Work
Sociology/Anthropology

ASSOCIATE OF APPLIED SCIENCE

Air Conditioning, Heating, and Refrigeration Technology
Alcohol and Drug Abuse Counseling
Automotive Technology
Business Administration
Child Care and Development
Computer Graphics Technology
Cosmetology
Diagnostic Medical Sonography
Emergency Medical Services
Fire Protection Technology
Health Information Technology
Information Technology—
Business Computer Applications
Computer Maintenance/Electronics
Data Management
Networking
Programming
Law Enforcement
Legal Assistant
Nursing
Professional Pilot
Radiography
Respiratory Care
Veterinary Technology
Welding Technology

CERTIFICATES

Accounting
Air Conditioning, Heating, and Refrigeration Technology
Alcohol and Drug Abuse Counseling
Automotive Technology
Aviation Maintenance Technology-
Aerospace Manufacturing
Airframe
Powerplant
Construction Engineering Technology
Business Administration
Child Care and Development
Computer Graphics Technology
Computer Maintenance
Cosmetology
Instructor
Manicurist
Operator
Diagnostic Medical Sonography
Emergency Medical Services-
Emergency Medical Technician Intermediate
Paramedic
Fire Protection Technology
Fire Fighter
Fire Administrator
Fire Investigator
Fire Inspector
Health Information Technology-
Coding
Medical Transcription
Information Technology-
Business Computer Applications-Administrative Assistant
Business Computer Applications-Administrative Clerk
Computer Maintenance
Electronics (Basic/Advanced)
Data Management
Networking
Programming
Law Enforcement
Legal Assistant
Long Term Care
Nursing-Vocational
Professional Pilot
Private Pilot
Professional Airline (PAC)
Radiography-
Computed Tomography
Magnetic Resonance Imaging
Transfer Studies
Welding Technology



Specific Degree Requirements

As a general requirement for graduation, for all degrees, each student must complete 15 semester hours of general education courses, and meet competency levels in written communication, mathematics, oral communication, and computer skills.

Bachelor Degree. To receive a Bachelor of Applied Technology (BAT) degree, a student must:

1. Successfully complete all upper and lower level courses required in the degree program (minimum of 127 semester credit hours).
2. Complete one of the career option degree plans as listed in the catalog and approved by the appropriate dean.
3. Complete at least 49 credits of upper-level coursework in the major (3000 or 4000 level courses with the TMGT prefix)
4. Complete a minimum of 42 general education semester credit hours according to the approved core courses established by Midland College for its associate of arts, associate of science and bachelor degrees (see pages 75-76)
5. Have maintained an overall minimum GPA of 2.0 (on a 4.0 scale) for all course work attempted for the bachelor program.
6. Complete at least 42 program credits in residence at Midland College (as approved by program dean).
7. Satisfy the requirements of the Texas Higher Education Assessment.
8. File an intent to graduate with the Registrar.
9. Clear all financial obligations to Midland College.
10. Meet all other college policies for graduation.

Associate of Arts and Associate of Science Degrees. To receive an Associate of Arts (AA) or Science (AS) degree, a student must:

1. Complete one of the regular degree plans as listed in the catalog and approved by the appropriate dean.
2. Complete a minimum of 62 semester credit hours 25 percent of which must be from Midland College. A maximum of forty semester credit hours may be achieved through post secondary level non-traditional credit, including written examination, professional certification, previous course work at an institutionally accredited vocational school or program, and military service training/education. Non-traditional credit must apply to specific courses.
3. Have overall minimum GPA of 2.0.
4. Satisfy the requirements of the Texas Higher Education Assessment.
5. File an intent to graduate with the Registrar.
6. Clear all financial obligations to Midland College.

Associate of Applied Science Degree. To receive an Associate of Applied Science degree (AAS), a student must:

1. Complete one of the regular degree plans as listed in the catalog and approved by the appropriate dean.
2. Satisfy the general education core course and competency requirements.
3. Complete a minimum of 62 semester credit hours, 25 percent of which must be of Midland College course work. A maximum of forty semester credit hours may be achieved through post secondary level non-traditional credit, including written examination, professional certification, previous course work at an institutionally accredited vocational school or program, and military service training/education. Non-traditional credit must apply to specific courses.
4. Have overall minimum GPA of 2.0.
5. Satisfy the requirements of the Texas Higher Education Assessment.
6. File an intent to graduate with the Registrar.
7. Clear all financial obligations to Midland College.

Associate of Arts or Sciences in General Studies. Students not wishing to receive an associate degree in a specific major may be granted an Associate of Arts or Sciences in General Studies (AAGS or ASGS - A student may receive only one General Studies degree). These students must:

1. Complete a minimum of 62 semester credit hours 25 percent of which must be

from Midland College. A maximum of forty semester credit hours may be achieved through post secondary level non-traditional credit, including written examination, professional certification, previous course work at an institutionally accredited vocational school or program, and military service training/education. Non-traditional credit must apply to specific courses.

2. Satisfy the Core and Competencies with the following differences for each degree.

	AAGS	ASGS
Mathematics and Natural Sciences	3 hours	3-9 hours
Social and Behavioral Sciences	3 hours	3-9 hours
Visual and Performing Arts and Humanities	9 hours	3 hours

3. Take 2 semester credit hours of Kinesiology/Physical Education activity; some exceptions may be granted.
4. Have overall minimum GPA of 2.0.
5. Satisfy requirements of the Texas Higher Education Assessment.
6. File an intent to graduate with the Registrar.
7. Clear all financial obligations to Midland College.

Additional Associate Degrees. To receive an additional associate degree, a student must:

1) complete the course of study for that degree;
2) have an overall minimum G.P.A. of 2.0;
3) satisfy requirements of the Texas Higher Education Assessment unless exempted;
4) file an intent to graduate with the Registrar; and
5) clear all financial obligations to Midland College.

In addition, at least 25 percent of the semester credit hours for the degree must be taken at Midland College and must not apply toward any previous degree.

Guarantee Policy

Midland College guarantees to those who graduate with an Associate of Arts (AA) or an Associate of Science (AS) degree, or who have met the requirements of a 62 semester credit hour transfer plan, that their credits will transfer to those Texas colleges and universities who cooperate in the development of the course selection guides. If the transfer of any such courses is rejected, the student may take, tuition free, any alternative course at Midland College that is acceptable to the receiving institution. Certain special conditions apply.

Midland College also guarantees that its Associate of Applied Science (AAS) graduates and certificate completers have mastered exit competencies in certain technical job skills. If the employer of any such graduate judges those skills to be lacking, Midland College will provide the graduate with up to nine semester hours of additional training tuition free. Certain conditions apply.

An MC Intramural Football Team

DEGREE PLANS AND COURSE DESCRIPTIONS

BACHELOR OF APPLIED TECHNOLOGY

TECHNOLOGY MANAGEMENT

Dean:	Gavin Frantz	142T	685-4657
Faculty:	Michael D. Santonino III	153T	685-4611
Division Secretary:	Leslie Montez	142T	685-6447

PROGRAM OVERVIEW

The bachelor's degree in technology management is designed to broaden career opportunities for students and better their chances for promotion to supervisory positions. The program provides a career-ladder for students who have already completed coursework requirements in the programs technical support area(s) and who wish to continue their education at the bachelor's level. The technical support areas are limited to four subject-matter areas: a business-related career option that includes paralegal and business systems courses of study and a public service career option designed for law enforcement officers and emergency medical personnel. Students interested in technical support areas may design a program of study for the bachelor degree as early as the freshman year. Upper-division technology management coursework expand student's perspectives of business operations, decision-making and requires an understanding of different facets of an enterprise operation. In addition to the common body of knowledge in management, students will be introduced to information technology in enterprise management, organizational design and management, leadership, fiscal and ethical aspects of management, human resource management and the emerging technologies required to manage in a competitive business environment.

The final two semesters require students to synthesize and apply what they have learned to risk management and organizational issues in particular industries through a senior capstone seminar. Elective courses are available in public administration, banking, electronic commerce, entrepreneurship, international business and natural resources.

ADMISSION REQUIREMENTS

Admission to this specific program is limited to students who have demonstrated their ability to succeed in technical coursework, to read critically, to express ideas in written and oral form and to perform mathematical computations that form the foundation of managerial science. Requirements for admission to the Bachelor of Applied Technology program are:

Admission to the BAT Program:

1. General admission to Midland College;
2. Comply with Texas Success Initiative requirements;
3. Successful completion of 30 semester credit hours, including 15 hours from the general education core. These 15 hours must include one course from the Mathematics/Natural Sciences area, one course from the Social/Behavioral Sciences area, and one course from the Visual and Performing Arts/Humanities area;
4. Achieve an overall grade point average of 2.5 on a 4.0 scale.

Admission to Upper-Division Courses:

1. Complete 60 semester credit hours of coursework that applied towards the Bachelor of Applied Technology degree. A grade of "D" will not be accepted for credit towards the degree;
2. Completion of English 1301;
3. Completion of 20 semester credit hours of technical support courses in one of the four career options (Law Enforcement, Emergency Medical Services, Legal Assistant or Business Systems).

Completion Requirements for Bachelors Degree Program

Semester Credit Hours (SCH) Requirements
Upon completion of course requirements described in the following, students will have acquired a minimum of 127 semester credit hours.

Lower-level course requirements

Technical Support Courses — **36 Semester Credit Hours**

Four career options are available:

1. Legal Assistant
2. Law Enforcement
3. Emergency Medical Service
4. Business Systems

General Education Courses — **42 Semester Credit Hours**

(See Core Requirements, page 80)

MINIMUM SEMESTER CREDIT HOURS = 78

Upper-level course requirements

Technology Management Courses — **37 Semester Credit Hours**

Technology Management Electives — **12 Semester Credit Hours**

MINIMUM SEMESTER CREDIT HOURS = 49

PROGRAM TOTAL = 127

LOWER LEVEL COURSE REQUIREMENTS

TECHNICAL SUPPORT COURSES — **LEGAL ASSISTANT**

36 semester credit hours are drawn from the following courses:		**Credit Hours**
Eight required courses are:		
BUSI 2301	Business Law I	3
LGLA 1301	Legal Research and Writing	3
LGLA 1311	Introduction to Law	3
LGLA 1313	Introduction to Paralegal Studies	3
LGLA 1345	Introduction to Civil Litigation	3
LGLA 2305	Interviewing and Investigation	3
LGLA 2331	Advanced Legal Research & Writing	3
LGLA 2335	Advanced Civil Litigation	3
		24
Four elective courses are drawn from the following:		
BUSI 2302	Business Law	3
LGLA 1343	Bankruptcy	3
LGLA 1349	Constitutional Law	3
LGLA 1353	Wills, Trusts, and Probate	3
LGLA 1355	Family Law	3
LGLA 1391	Special Topics	3
LGLA 2303	Torts and Personal Injury	3
LGLA 2309	Real Property	3
LGLA 2315	Oil and Gas Law	3
		12
	Total Technical Support Courses	**36**

TECHNICAL SUPPORT COURSES — **BUSINESS SYSTEMS**

36 semester credit hours are drawn from the following courses:		**Credit Hours**
Nine required courses are:		
ACNT 1403	Introduction to Accounting I	4
BCIS 1405	Business Computer Applications	4
BUSI 1301	Business Principles	3
BUSI 2301	Business Law I	3
ITSW 1404	Introduction to Spreadsheets	4
ITSW 1407	Introduction to Database	4
ITSW 2434	Advanced Spreadsheets	4
POFT 2312	Business Communications II	3
POFT 2431	Administrative Systems	4
		33
One elective drawn from the following courses:		
BMGT 1301	Introduction to Supervision	3
HRPO 1311	Human Relations	3
ACNT 1413	Computerized Accounting Applications	4
ACNT 1331	Income Tax Accounting	3
ACNT 1329	Business and Payroll Accounting	3
	Total Technical Support Courses	**36**

LOWER LEVEL COURSE REQUIREMENTS

TECHNICAL SUPPORT COURSES — **LAW ENFORCEMENT**

36 semester credit hours are drawn from the following courses:		**Credit Hours**
Nine required courses are:		
CRIJ 1301	Introduction to Criminal Justice	3
CRIJ 1306	Court Systems and Practices	3
CRIJ 1307	Crime in America	3
CRIJ 1310	Fundamentals of Criminal Law	3
CRIJ 2313	Correctional Sys. and Practices	3
CRIJ 2314	Criminal Investigation	3
CRIJ 2323	Legal Aspects of Law Enforcement	3
CRIJ 2328	Police Systems and Practices	3
CJSA 2323	Criminalistics	3
		27

Three Electives drawn from the following courses:		**Credit Hours**
CJSA 1393	Special Topics	3
CRIJ 1313	Juvenile Justice Systems	3
CRIJ 2301	Community Resources in Corrections	3
LGLA 1301	Legal Research and Writing	3
LGLA 1345	Civil Litigation	3
LGLA 1349	Constitutional Law	3
LGLA 2305	Legal Interviewing and Investigating	3
		9
	Total Technical Support Courses	**36**

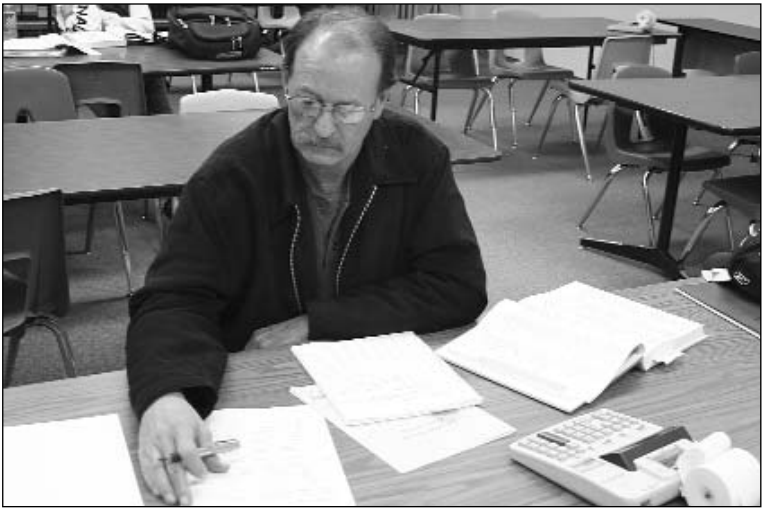
TECHNICAL SUPPORT COURSES — **EMERGENCY MEDICAL SERVICES**

36 semester credit hours are drawn from the following courses:		
Ten required courses are:		
EMSP 1356	Patient Assessment and Airway Management	3
EMSP 1438	Introduction to Advanced Practice	4
EMSP 1455	Trauma Management	4
EMSP 1501	Emergency Medical Technician-Basic	5
EMSP 2135	Advanced Cardiac Life Support	1
EMSP 2243	Assessment Based Management	2
EMSP 2248	Emergency Pharmacology	2
EMSP 2261	Paramedic Clinical IV	2
EMSP 2430	Special Populations	4
EMSP 2434	Medical Emergencies	4
EMSP 2544	Cardiology	5
	Total Technical Support Courses	**36**

UPPER LEVEL COURSE REQUIREMENTS

TECHNICAL SUPPORT COURSES | **TECHNOLOGY MANAGEMENT**

49 semester credit hours are drawn from the following courses:		**Credit Hours**
<u>Twelve</u> required courses are drawn from the following courses:		
TMGT 3303	Communication for Technical Managers	3
TMGT 3347	Ethics and Corporate Social Responsibility	3
TMGT 3310	Decision Making	3
TMGT 3411	Information Technology in Enterprise Management	4
TMGT 3312	Resource Management	3
TMGT 3336	Legal Issues for Managers	3
TMGT 3305	Organizational Theory and Practice	3
TMGT 4304	Risk Management	3
TMGT 3337	Economics for Technical Managers	3
TMGT 3338	Accounting for Technical Managers	3
TMGT 3339	Business and Economic Statistics	3
TMGT 4320	Organizational Design and Management Seminar	3
		37
<u>Four</u> elective courses are drawn from the following courses:		
TMGT 3355	Mediation and Negotiation	3
TMGT 3351	Electronic Commerce	3
TMGT 3352	Entrepreneurship	3
TMGT 3353	International Business	3
TMGT 3354	Leadership	3
TMGT 3356	Natural Resources Industry	3
TMGT 3357	Introduction to Public Administration	3
TMGT 3358	Network Security Management	3
TMGT 3359	Bank Operations	3
TMGT 3360	Credit Administration	3
TMGT 3361	Principles of Banking	3
TMGT 3362	Government Regulation of Banking	3
		12
	Total Technology Management Courses	**<u>49</u>**



Upper Division Course Descriptions

TMGT 3303 (3-0)
Communications for Technical Managers **3 Hours**
A study of the skills necessary to communicate effectively in the workplace. Topics include selection of the proper channel and medium for information delivery, team building, business etiquette, and professionalism. Students will analyze and prepare correspondence, proposals, and reports. Students are required to deliver industry-related oral presentations of each student's choosing. Prerequisite: ENGL 1301. Special Charges: CAAP exam.

TMGT 3305 (3-0)
Organizational Theory and Practice **3 Hours**
A comprehensive analysis of individual and group behavior in organizations. Its purpose is to provide an understanding of how organizations can be managed more effectively and at the same time enhance the quality of employee work life. Topics include motivation, goal setting and rewards, job design, group dynamics, work stress, power and politics, international aspects of organizations, organizational structure, communication and organizational change and development.

TMGT 3310 (3-0)
Decision Making **3 Hours**
Analytic and systematic approach to the study of decision making through management science processes and techniques. Topics include quantitative analysis and decision-making relationships, simulation and risk analysis, and decision analysis using various criteria. Prerequisite: MATH 1342 or MATH elective.

TMGT 3312 (3-0)
Resource Management **3 Hours**
An examination of the tools and methods used to manage the physical and personnel assets of an enterprise. Topics include inventory techniques, asset allocation, human resources, and financial management

TMGT 3336 (3-0)
Legal Issues for Managers **3 Hours**
This course explores the State and federal laws that affect management behavior and organizational practices including contracts, business organizations, employment law, products liability, safety issues, and environmental regulation.

TMGT 3337 (3-0)
Economics for Technical Managers **3 Hours**
A study of economics and its role in managerial decision making. The course is focused on modern economic thinking and its relevance to business and management. Topics include market structure, production and cost, and public policy towards business.

TMGT 3338 (3-0)
Accounting for Technical Managers **3 Hours**
The use of accounting information by non-financial managers. Emphasis is placed on the interpretation, rather than the construction, of accounting information. The course will examine the technical managerial skills required to sustain and enhance the organizations performance through the accounting and finance processes of reporting, compliance, research, analysis, interpretation and application. Topics such as activity-based costing, cost accounting, break-even and decision analysis, and budgeting and control are covered.

TMGT 3339 (3-0)
Business and Economic Statistics **3 Hours**
An introduction to descriptive statistics and statistical inference for technical managers. Topics include sampling techniques, estimation, hypothesis testing, and simple regression.

TMGT 3347 (3-0)
Ethics and Corporate Social Responsibility **3 Hours**
This course will examine the role of ethics and social responsibility in the management of public and private sector organizations. An emphasis will be on contemporary trends in corporate responsibilities with respect to ethical, legal, economic and regulatory conditions in the global marketplace.

TMGT 3351 (3-0)
Electronic Commerce **3 Hours**
This course addresses issues including the digital economy, electronic commerce (EC) marketing, EC models and applications, and building and implementing EC systems. The course will cover the underlying technologies used in the implementation of electronic commerce systems. It identifies the practical skills needed and tools to design and develop effective systems and interfaces. Architectures and interdependence of systems and software that support EC and the state of the art in successful EC systems will also be discussed.

TMGT 3352 (3-0)
Entrepreneurship **3 Hours**
This course presents a comprehensive study of the various factors of production in meeting the needs of consumers in creative and profitable ways. Topics include market segment research, starting a new enterprise, forming an entrepreneurial team, venture capital sources, and formulation of a business plan.

TMGT 3353 (3-0)
International Business **3 Hours**
This course provides an overview of the international business environment and conditions affecting firms conducting business overseas. Special emphasis will be placed on managerial functions and elements of the management process in a firm operating under foreign economic, technological and political, social, and cultural environments.

TMGT 3354 (3-0)
Leadership **3 Hours**
This course examines the nature and scope of leadership as it relates to applied technology and workforce training environments; the techniques for leadership, empowerment and team building are emphasized.

TMGT 3355 (3-0)
Mediation and Negotiation **3 Hours**
This course examines the nature of conflict and the methods to resolve conflict with an emphasis on collaborative problem solving and mediation. The theory and practice of negotiations are also studied, and students are given the opportunity to practice negotiation and mediation techniques through case study. Ethical decision making throughout these processes is addressed.

TMGT 3356 (3-0)
Natural Resources Industry **3 Hours**
This course introduces the student to the development of multiple-use resource management strategies and the role of public policy in energy resource management. Topics include legal, regulatory, and operational requirements of energy production, refining, and transportation enterprises.

TMGT 3357 (3-0)
Introduction to Public Administration **3 Hours**
This course examines the origin and development of public administration as a discipline and profession. The purpose of this course is to provide students with a broad introduction to the field of Public Administration by providing introductory knowledge of the public sector, its practices, and its tools. Students will learn some of the concepts, issues, and challenges facing public administrators in federal, state, and local governments.

TMGT 3358 (3-0)
Network Security Management **3 Hours**
This course provides a strategic overview of network security management, including a review of the types of network security problems, best practices, cost analysis of different types of network security and network security policies.

TMGT 3359 (3-0)
Bank Operations **3 Hours**

This course introduces the system of bank accounting. Topics include the deposit operations of banks in the context of their regulatory environment; bank payment systems, with emphasis on check clearing operations and electronic funds transfer systems; audit and internal control systems in computerized banking operations; bank examination processes; and operational planning.

TMGT 3360 (3-0)
Principles of Banking **3 Hours**

This course presents principles, practices, and theories used in commercial banking. credit unions, savings and loans, finance companies, and other financial intermediaries will be compared to domestic bank operations. Various financial regulatory institutions will also be studied.

TMGT 3361 (3-0)
Credit Administration **3 Hours**

This course examines the decision process of issuing credit as well as collection techniques in dealing with delinquent accounts will be studied. Principles of credit evaluation, open-end credit, marketing bank services, collection policies and procedures, legal aspects, financial statements analysis, direct and indirect installment lending, leasing and other special situations, installment credit department management, insurance, and rate structure and yields are discussed.

TMGT 3362 (3-0)
Banking Regulations/Compliance **3 Hours**

This course examines federal and state laws and regulations pertaining to banking with emphasis on deposit, lending, information reporting, operations, and establishing a compliance program.

TMGT 3411 (3-3)
Information Technology in Enterprise Management **4 Hours**

The use of information technology in commercial and industrial enterprises. Topics include the use of computers and software in communication, accounting, inventory management, production, automation, sales, and financial forecasting.

TMGT 4304 (3-0)
Risk Management **3 Hours**

A study of risk assessment and management techniques, methods, and models used in industry to minimize and control risks in a high technology industrial environment. Instructional topics include project management risks, program schedule, and cost risks. Prerequisite(s): Senior classification or approval of program director. Special Charges: ETS Business Field of Study exam fee.

TMGT 4320 (3-0)
Organizational Design and Management Seminar **3 Hours**

Students work in teams on instructor-approved industry-specific projects; teams will formulate an implementation plan using technology management skills to identify problems and formulate solutions. Each team will make a formal presentation for peer review. Prerequisite(s): Senior classification or approval of program director. Special Charges: CAAP exam fee.

DEGREE PLANS AND COURSE DESCRIPTIONS

ASSOCIATE DEGREE & CERTIFICATE PLANS

ACCOUNTING

Dean:	Gavin Frantz	142 T	685-4657
Faculty:	Dale Westfall	158 T	685-4658
Lab Instructor:	Glenda Upchurch	170 T	686-4208
Division Secretary:	Leslie Montez	142 T	685-4656

For program information please call (432) 685-4657.

The accounting curriculum has been established to provide for the needs of individuals wishing to enter the workforce in the field of accounting and business. The Accounting Technician Certificate Program is designed to prepare a student for a career as an entry-level accounting assistant in business, industry, and government. Emphasis is placed on accounting theory, practice, and other related business administration activities.

The certificate in this field offered by Midland College and the courses needed to achieve this credential are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Accounting Technician Certificate

Specialty Courses **A minimum of 22 Semester Credit Hours**

*ACNT 1403, *ACNT 1411, * ACNT 2382, *ACCT 2401, * ACCT 2402, *ACNT elective

Related Courses **A minimum of 19 Semester Credit Hours**

BUSI 1301, BUSI 2301, *ITSW 1404, POFT 1302 or ENGL 1301, POFT 1325, SPCH elective

MINIMUM SEMESTER CREDIT HOURS = 41

Accounting Technician Certificate

First Semester

ACNT 1403	4 Hours
POFT 1325	3 Hours
BUSI 2301	3 Hours
BUSI 1301	3 Hours
ITSW 1404	4 Hours
First Semester Total	**17 Hours**

Second Semester	
ACCT 2401	4 Hours
POFT 1301 / ENGL 1301	3 Hours
SPCH Elec	3 Hours
ACNT 1411	4 Hours
ACNT 2382	3 Hours
Second Semester Total	**17 Hours**
Third Semester	
ACCT 2402 *	4 Hours
ACNT Elec *	3 Hours
Third Semester Total	**7 Hours**

ACCT 2401
Principles of Accounting I (3-3) **4 Hours**

This course is designed to present a general knowledge of accounting principles and procedures for the sole proprietorship and partnership form of business organization. Topics and problems include the complete accounting cycle, accounting systems and special purpose journals, internal controls and merchandising transactions, and the preparation of financial statements in accordance with generally accepted accounting principles. The student will study short-term liquid assets, including uncollectible accounts and notes receivable; several methods of inventory valuation and their effect upon operations; current liabilities and payroll accounting, including employer payroll taxes; the acquisition, depreciation (several methods), and disposal of plant property and equipment; intangible assets; and natural resources. Also studied are the accrual and cash bases of accounting and the effects of inflation and price-level changes.

ACCT 2402
Principles of Accounting II (3-3) **4 Hours**

A continuation of ACCT 2401, this course includes the study of corporate financial accounting data for cost control and management decision making. The student is required to learn accounting methodology used by corporations to account for stocks, bonds, treasury stock, and investments. The student will learn how to prepare all the corporate financial statements. The student will use financial statement analysis to determine a firm's liquidity, profitability, and solvency, and to track trends. The student will learn the basics of manufacturing cost accounting and product costing, as well as basic planning and control tools such as break-even and marginal analysis. The course of study will include the planning and budgeting function, including cash budgeting and the use of standard costs for cost control. The student will learn the variable costing method, incremental cost analysis, and the use of present value and other techniques to analyze alternatives such as capital expenditures, make-or-buy, sales mix and other managerial accounting decision making techniques. Prerequisite: ACCT 2401.

ACNT 1329
Business and Payroll Accounting (3-0) **3 Hours**

A study of payroll procedures, taxing entities, and reporting requirements of local, state, and federal taxing authorities in a manual and computerized environment. Students will learn to process payroll and maintain personnel information required by current laws. The course will also include accounting for franchise taxes, sales tax, and an overview of taxes relating to partnerships and corporations.

ACNT 1331
Individual Income Tax Accounting (3-0) **3 Hours**

Basic instruction in the tax laws as currently implemented by the Internal Revenue Service providing a working knowledge of preparing taxes for the individual. Prerequisite: ACCT 2401 or consent of instructor.

ACNT 1392
Special Topics in Accounting Technician (3-0) **3 Hours**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Special topics include: Governmental & Not-for-Profit Accounting, Auditing, and Intermediate Accounting. Prerequisite: ACCT 2402.

ACNT 1403
Introduction to Accounting I (3-3) **4 Hours**
A study of analyzing, classifying, and recording business transactions in a manual and computerized environment. Emphasis on understanding the complete accounting cycle and preparing financial statements, bank reconciliation, and payroll. Co-requisite: ITSW 1404 or proficiency in spreadsheets.

ACNT 1411
Introduction to Computerized Accounting (3-3) **4 Hours**
This course presents an introduction to utilizing the computer in maintaining accounting records, making management decisions, and processing common business applications with primary emphasis on a general ledger package. Prerequisite: ACNT 1403 or ACCT 2401.

ACNT 1413
Computerized Accounting Applications (3-3) **4 Hours**
A study of utilizing the computer to develop and maintain accounting record keeping systems, make management decisions, and process common business applications with emphasis on utilizing a spreadsheet and/or data base package/program. The student will utilize software (i.e. general ledger, spreadsheet, database) for accounting and business applications; select appropriate software to complete a task; complete a comprehensive project that entails the major course competencies and outcomes; and analyze a relevant topic with a written and oral presentation. Prerequisite: ACNT 1403 or ACCT 2401

ACNT 2370
Petroleum Accounting (3-0) **3 Hours**
The student will acquire a basic understanding of the accounting for successful efforts and full-cost companies. Focus of the course will be in the areas of pre-drilling operations, undeveloped properties, drilling and development activities, oil and gas revenues, depreciation and amortization, tax, and joint operations. Prerequisite: ACCT 2401.

ACNT 2382, 2383
Cooperative Education-Accounting Technician (1-0-20) **3 Hours**
Career-related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and the student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the work experience. This course may be repeated if topics and learning outcomes vary. Prerequisite: ACCT 2401.

AGRICULTURE

Dean:	Margaret Wade	125 SF	685-4615
Division Secretary:	Norma Duran	124 SF	685-4612

AGRI 1407
Agronomy (3-3) **4 Hours**
Principles and practices in the development, production, and management of field crops including plant breeding, plant diseases, soils, insect control, and weed control. Course fee. (01.1102.5101)

AGRI 1419
Introductory to Animal Science (3-3) **4 Hours**
Scientific animal agriculture. Importance of livestock and meat industries. Selection, reproduction, nutrition, management, and marketing of beef cattle, swine, sheep, goats, and horses. Course fee. (01.0901.5101)

AIR CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY

Dean:	Curt Pervier	143 T	685-4677
Faculty:	Wayne Young	191 T	685-4687
Division Secretary:	Sidney Wristen	143 T	685-4676

The Air Conditioning, Heating and Refrigeration curriculum has been established on the advice and with the cooperation of employers and technicians in our community who are engaged in some phase of the air conditioning, refrigeration, or heating industry. The primary objective of this program is to train students to install and service air conditioning, refrigeration and heating equipment.

The degrees and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: ENGL 1301

Specialty Courses **32 Semester Credit Hours**

HART 1401, HART 1407, *HART 1441, *HART 1445, *HART 2434, *HART 2442, *HART 2445, *HART 2449

Related Courses **17 Semester Credit Hours**

BMGT 1305, DFTG 1309, MCHN 1320, two approved related courses, two KINE activity courses

MINIMUM SEMESTER CREDIT HOURS = 64

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirement.

Oral Communication: BMGT 1305

Basic Use of Computers: DFTG 1309

Air Conditioning Service Technician Certificate

Specialty Courses **16 Semester Credit Hours**

HART 1401, HART 1407, *HART 1441, *HART 2449

MINIMUM SEMESTER CREDIT HOURS = 16

Air Conditioning and Heating Service Technician Certificate

Specialty Courses **20 Semester Credit Hours**

HART 1401, HART 1407, *HART 1441, *HART 1445, *HART 2449

MINIMUM SEMESTER CREDIT HOURS = 20

Refrigeration Service Technician Certificate

Specialty Courses **20 Semester Credit Hours**

HART 1401, HART 1407, *HART 1441, *HART 2434, *HART 2442

MINIMUM SEMESTER CREDIT HOURS = 20

Air Conditioning, Heating, and Refrigeration Service Technician Certificate

Specialty Courses **32 Semester Credit Hours**

HART 1401, HART 1407, *HART 1441, *HART 1445, *HART 2434, *HART 2442, *HART 2445, *HART 2449

MINIMUM SEMESTER CREDIT HOURS = 32

HART 1380,2380
Cooperative Education (1-0-20) **3 Hours**

Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary. The student is required to work for wages at least 20 hours per week in air conditioning, refrigeration or a related field.

HART 1391
Special Topics in Heating, Air Conditioning, and Refrigeration Technologies/Technicians (2-2) **3 Hours**

Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

HART 1401
Basic Electricity for HVAC (3-3) **4 Hours**

Principles of electricity as required by HVAC, including proper use of test equipment, electrical circuits, and component theory and operation. The class will begin with basic electricity and progress through the study of transformers, power distribution, electric motors, motor controls and circuitry. The student will be introduced to the proper operation of various electrical meters and test instruments. **This course, and HART 1407 must be taken first as the prerequisite to all the HART classes.**

HART 1407
Refrigeration Principles (3-3) **4 Hours**

An introduction to the refrigeration cycle, heat transfer theory, temperature/pressure relationship, refrigerant handling, refrigeration components and safety. The student will learn proper soldering and brazing techniques using oxy-acetylene and air-acetylene. The student will also be introduced to the proper use of hand tools and test instruments required in both service and installation. **This course, and HART 1401 must be taken first as the prerequisite for all the other HART courses.**

HART 1441
Residential Air Conditioning (3-3) **4 Hours**

A study of components, applications, and installation of mechanical air conditioning systems including operating conditions, troubleshooting, repair, and charging of air conditioning systems. This course covers proper recovery, recycle, and reclaim procedures. The student will also study the chemical make-up of refrigerants and how they affect the atmosphere. Replacement refrigerants and the problems they pose will also be covered. The student will gain a working knowledge of the various components used in air conditioning and refrigeration systems. The student will study various refrigerant oils and the type refrigerants they are designed for. Prerequisite: HART 1401 and HART 1407.

HART 1445
Gas and Electric Heating (3-3) **4 Hours**

A study of the procedures and principles used in servicing heating systems including gas fired and electric furnaces. The student will be introduced to proper testing and troubleshooting techniques. The class will cover proper wiring, gas controls, thermostats, spark ignition and venting procedures. Prerequisite: HART 1401.

HART 2434
Advanced A/C Controls (3-3) **4 Hours**

Theory and application of electrical control devices, electromechanical controls and/or pneumatic controls. This course covers the proper methods for troubleshooting electrical control devices and control circuits. The student will study the correct wiring for components such as lock out relays, oil failure controls, and thermostats. The student will be introduced to solid state controls and their functions. Prerequisite: HART 1401.

HART 2436
Air Conditioning Troubleshooting (3-3) **4 Hours**

An advanced course in application of troubleshooting principles and use of test instruments to diagnose air conditioning and refrigeration components and system problems including conducting performance tests. The student will use knowledge gained from previous classes or industry experience in order to improve their skill in determining system problems. Prerequisite: HART 1441 and HART 2442.

HART 2442
Commercial Refrigeration (3-3) **4 Hours**

Theory of and practical application in the maintenance of commercial refrigeration; medium, and low temperature applications and ice machines. The student will be introduced to various controls and components used in these applications. This course covers piping procedures, wiring, operation, and troubleshooting. The student will also study air cooled, water cooled, and evaporative condensers and their applications. Prerequisite: HART 1401 and HART 1407.

HART 2445
Air Conditioning Systems Design (4-0) **4 Hours**

A study of the properties of air and results of cooling, heating, humidifying or dehumidifying; heat gain and heat loss calculations including equipment selection and balancing the air system. This course covers psychrometrics and design procedures developed to select proper equipment for air conditioning systems. The student will be introduced to Manual J for heating and cooling loads. The student will also study proper duct sizing and design techniques. Prerequisite: HART 1401 or Instructor Approval. Capstone course.

HART 2449
Heat Pumps (3-3) **4 Hours**

A study of heat pumps, heat pump control circuits, defrost controls, auxiliary heat, air flow, and other topics related to heat pump systems. This course covers specialized refrigeration systems such as heat pumps, cascade systems, chill water systems, and gas absorption systems. The student will learn the distinctive type controls and equipment necessary for these systems. Prerequisite: HART 1401 and HART 1407.

ALCOHOL AND DRUG ABUSE COUNSELING

Dean:	Margaret Wade	125 SF	685-4615
Program Director:	Don Poage	A30 AMS	685-5577
Division Secretary:	Brenda Smith	124 SF	685-6413

Midland College offers an Alcohol and Drug Abuse Counseling (ADAC) Program of study covering the 12 core functions of Alcohol and Drug Abuse Counseling. The certification program offers courses necessary to qualify as Counselor Intern with the Texas Certification Board of Alcoholism and Drug Abuse. The Associate of Applied Science Degree program offers a course of study in ADAC along with basic courses that would be applicable to a career in alcohol and drug abuse counseling. Refer to Department of Health website for licensure requirements www.dshs.state.tx.us.

The function of the alcohol and drug abuse counselor includes assisting the client in recognizing substance abuse, in providing insight and motivation, providing positive reinforcement, professional guidance, and assistance and support in order to develop and/or maintain a responsible and functional lifestyle.

The degree and certificate in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Program Director or Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*). Exceptions to prerequisites require approval of Program Director. *To enroll in DAAC 2366, no more than six semester credit hours of DAAC classes may be taken from a college other than Midland College without permission of the Alcohol and Drug Abuse Counseling Program Director.

Associate of Applied Science

Core Requirements **16 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: ENGL 1302, PSYC 2301, SOCI 1306

Specialty Courses **30 Semester Credit Hours**

*DAAC 1304, *DAAC 1307, *DAAC 1309, *DAAC 1311, *DAAC 1314, *DAAC 1317, DAAC 1319, *DAAC 1341, DAAC 1371 or DAAC 1372, *DAAC 2366

Related Courses **16 Semester Credit Hours**

ENGL 1301, PSYC elective, SPCH elective, (except 2341), 7 hours of electives as approved by Program Director

MINIMUM SEMESTER CREDIT HOURS = 62

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills:THEA requirements.

Oral Communication: SPCH elective

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

Certificate Option

Specialty Courses **30 Semester Credit Hours**

*DAAC 1304, *DAAC 1307, *DAAC 1309, *DAAC 1311, *DAAC 1314, *DAAC 1317, DAAC 1319, *DAAC 1341, DAAC 1371 or DAAC 1372, *DAAC 2366

MINIMUM SEMESTER CREDIT HOURS = 30

DAAC 1304
Pharmacology of Addiction (3-0) **3 Hours**
Psychological, physiological, and sociological effects of mood altering substances and behaviors and their implications for the addiction process are discussed. Emphasis is placed on pharmacological effects of tolerance, dependence/ withdrawal, cross addiction, and drug interaction. Prerequisite or Corequisite: DAAC 1319.

DAAC 1307
Addicted Family Intervention (3-0) **3 Hours**
An introduction to the family as a dynamic system focusing on the effects of addiction pertaining to family roles, rules, and behavior patterns. Discuss the impact of mood altering substances and behaviors and therapeutic alternatives as they relate to the family from a multicultural and transgenerational perspective. Prerequisite or Corequisite: DAAC 1319.

DAAC 1309
Assessment Skill of Alcohol and Other Drug Addictions (3-0) **3 Hours**
Examines procedures by which a counselor/program identifies and evaluates an individual's strengths, weaknesses, problems, and needs which will be used in the development of a treatment plan. Prepares the student to appropriately explain assessment results and individual rights to clients. Prerequisite or Corequisite: DAAC 1319.

DAAC 1311
Counseling Theories (3-0) **3 Hours**
An introduction to major theories of various treatment modalities including Reality therapy, Psycho-dynamic, grief therapy, Client-centered therapy, Rational-Emotive Therapy, cognitive-behavioral approaches such as life skills training, behavior modification, and the introduction to experiential therapies as they relate to detoxification, residential, outpatient, and extended treatment. Prerequisite or Corequisite: DAAC 1319.

DAAC 1314
Dynamics of Group Counseling (3-0) **3 Hours**
An introduction to the patterns and dynamics of group interactions across the life span. Focus includes group therapy, structure, types, stages, development, leadership, therapeutic factors, the impact of groups on the individual, group growth, and behavior. Effective group facilitation skills and techniques used to address special population issues and needs are covered. Effective case management and record keeping are addressed. Prerequisite: DAAC 1341.

DAAC 1317
Basic Counseling Skills (3-0) **3 Hours**
This course is designed to facilitate development of the basic communication skills necessary to develop an effective helping relationship with clients. Includes the utilization of special skills to assist individuals, families, or groups in achieving objectives through exploration of a problem and its ramifications; examination of attitudes and feelings; consideration of alternative solutions; and decision making. Prerequisite or Corequisite: DAAC 1319.

DAAC 1319
Introduction to Alcohol and Other Drug Addictions (3-0) **3 Hours**
Causes and consequences of addiction as they related to the individual, family, community, and society are discussed. Response alternatives regarding intervention, treatment, education, and prevention are reviewed. Competencies and requirements for licensure in Texas are explained. Addiction issues related to diverse populations are presented.

DAAC 1341
Counseling Alcohol and Other Drug Addictions (3-0) **3 Hours**
This course will focus on special skills and techniques in the application of counseling skills for the Alcohol and Other Drug (AOD) client. Design and utilization of treatment planning using a treatment team approach will be introduced. Confidentiality and ethical issues will be reviewed and practiced. Prerequisite: DAAC 1317.

DAAC 1371
Cultural Awareness and Sensitivity (3-0) **3 Hours**

Cross-cultural competency skills and cultural diversity training for specific use with persons of a different race or ethnicity than the counselor. Courses and class activities will be focused on specific race-ethnicity based cultures and subcultures, reducing or ameliorating the effects of racism, and development of specific cross- cultural competencies.

DAAC 1372
Parenting for Prevention (3-0) **3 Hours**

In this course the student will focus on the development of life management skills. This orientation will enable the student to work with parents and their children regarding common issues of chemical dependency.

DAAC 2366
Practicum (1-20) **3 Hours**

Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. Student liability insurance purchased through Midland College is required for students enrolled in DAAC 2366. Prerequisite: Successful completion of 18 semester hours of DAAC specialty courses, passing with an average of at least a 3.0 in all DAAC courses.

ANTHROPOLOGY:

(See Sociology and/or Anthropology)

ARTS

Dean:	William G. Feeler	141b AFA	685-4626
Faculty:	Carol Bailey	189 AFA	685-4652
	Kent Moss	195 AFA	685-4654
	Susan Randle	191 AFA	685-4653
	Warren Taylor	187 AFA	685-4651
Division Secretary:	Lula Lee	141 AFA	685-4624

The purpose of the Arts Department is to meet the individual needs of those students pursuing professional art degrees and careers and of those students in the community who wish to explore their interests and talents for their own enjoyment and fulfillment. Students who intend to earn an advanced degree are encouraged to plan their program carefully to meet the requirements of the senior college or university to which they intend to transfer.

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80
Required Core Course(s) for this degree: ARTS 1303, ARTS 1304, one English Literature course (Humanities)

Suggested Courses for Field of Study **21 Semester Credit Hours**

ARTS 1304 and 18 semester credit hours of other ARTS courses including at least one course in Design, Drawing, Painting, and Sculpture or Ceramics.

MINIMUM SEMESTER CREDIT HOURS = 63

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

ARTS 1301
Art Appreciation (3-0) **3 Hours**

A general education course open to all students. This course includes design principles from the layman's point of view and critical evaluation of selected works of painting, sculpture, architecture, and industrial design related to everyday life. (5007035130)

ARTS 1303
Art History I (3-0) **3 Hours**

The student surveys painting, sculpture, architecture, and the decorative arts from prehistoric times to the 14th century. This class requires extensive ability in reading and writing. (5007035230)

ARTS 1304
Art History II (3-0) **3 Hours**

The student surveys painting, sculpture, architecture, and the decorative arts from the 14th century to the present. This class requires extensive ability in reading and writing. (5007035230)

ARTS 1311
Design I (2-4) **3 Hours**

Emphasis is upon two-dimensional design; student experiences include the fundamentals of line, color, form, texture, shape, space, and arrangement. (5004015330)

ARTS 1312
Design II (2-4) **3 Hours**

Continuation of Arts 1311 with emphasis placed on student study of the three-dimensional concepts. Prerequisite: ARTS 1311. (5004015330)

ARTS 1316
Drawing I (2-4) **3 Hours**

A beginning course in which the student investigates a variety of media, techniques, and subjects. Students explore perceptual and descriptive possibilities with consideration of drawing as a developmental process and as an end in itself.

ARTS 1317
Drawing II (2-4) **3 Hours**

Expansion of Arts 1316 that allows the student to stress the expressive and conceptual aspects of drawing including the human figure within a spatial environment. Prerequisite: ARTS 1316. (5007055230)

ARTS 2311
Design III (2-4) **3 Hours**

An advanced investigation in which students explore the problems of two-dimensional form with emphasis on individual expression. (5004015330)

ARTS 2316
Painting I (2-4) **3 Hours**

The student explores the potentials of painting media with emphasis on color and composition. (5007085230)

ARTS 2317
Painting II (2-4) **3 Hours**

Continuation of Arts 2316 with emphasis on individual student's expression. Prerequisite: ARTS 2316. (5007085230)

ARTS 2323
Drawing III (2-4) **3 Hours**
A life drawing course in which the student learns the structure and action of the human figure. (5007055330)

ARTS 2324
Drawing IV (2-4) **3 Hours**
A continuation of Art 2323 with emphasis on the student's individual expression. Prerequisite: ARTS 2323. (5007055330)

ARTS 2326
Sculpture I (2-4) **3 Hours**
An exploration of various sculptural approaches in which the student works in a variety of media including additive and subtractive techniques. (5007095130)

ARTS 2327
Sculpture II (2-4) **3 Hours**
A continuation of Arts 2326 with emphasis on student's individual expression. Prerequisite: ARTS 2326. (5007095130)

ARTS 2333
Printmaking I (2-4) **3 Hours**
An introduction for the student into the basic printmaking processes including etching, monotype, and relief. (5007105130)

ARTS 2334
Printmaking II (2-4) **3 Hours**
Opportunities for specialization and experimentation by the student in printmaking processes. Prerequisite: ARTS 2333. (5007105130)

ARTS 2341
Art Metals I (2-4) **3 Hours**
Basic techniques for the student working with nonferrous metals. (5007135130)

ARTS 2342
Art Metals II (2-4) **3 Hours**
Further investigation by the student of advanced techniques and processes. Prerequisite: ARTS 2341. (5007135130)

ARTS 2346
Ceramics I (2-4) **3 Hours**
An introduction for the student to basic ceramic processes. (5007115130)

ARTS 2347
Ceramics II (2-4) **3 Hours**
Opportunities for specialization by the student in ceramic processes. Prerequisite: ARTS 2346. (5007115130)

ARTS 2348
Digital Arts I (2-4) **3 Hours**
An introduction to graphic design principles and typography with emphasis upon digital imaging. The course enables students to explore the creation and manipulation of images with a computer. Course content includes use of digital camera, flatbed and film scanners, Adobe Photoshop software, and printer. (50.0710.51 26)

ARTS 2349
Digital Arts II(2-4) **3 Hours**
Advanced graphic design principles and techniques with emphasis upon digital imaging. The course enables students to explore more expressive and interpretive use of imagery and to practice commercial application as well. Course increases students' exposure to software programs beyond Adobe Photoshop. Prerequisite: ARTS 2331. (50.0710.51 26)

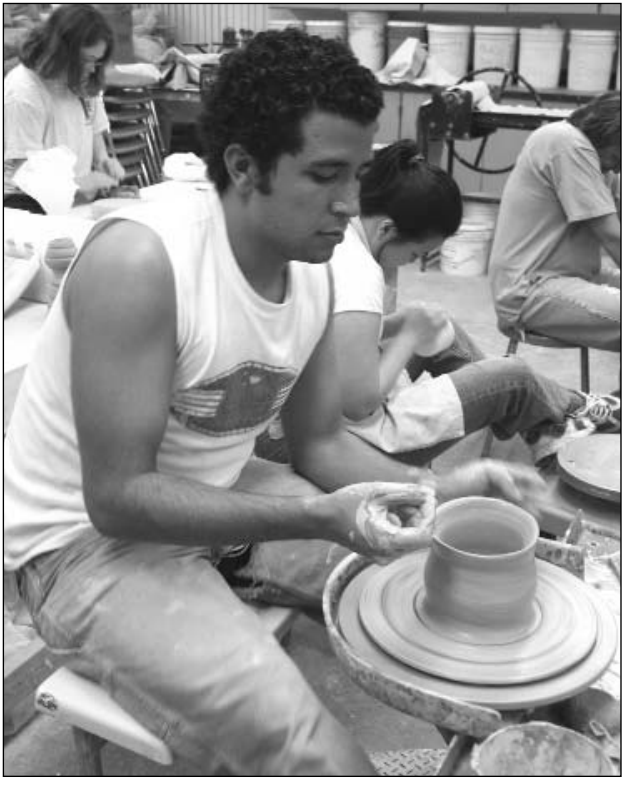
ARTS 2356 (ALSO COMM 1318)
Photography I (2-4) **3 Hours**
An introductory course for beginners in black and white photography. Students learn basic techniques of camera functions, film development, print processing and design fundamentals. (5006055130)

ARTS 2357 (ALSO COMM 1319)
Photography II (2-4) **3 Hours**
A continuation of ARTS 2356 with emphasis on photography applied to publications. Students work with more complex subjects and techniques in order to communicate their ideas through photographic images. Prerequisite: COMM 1318 or ARTS 2356. (0904015526)

ARTS 2366
Watercolor I (2-4) **3 Hours**
Exploration of the potentials of water based media by the student with emphasis on color and composition. (5007085330)

ARTS 2367
Watercolor II (2-4) **3 Hours**
This course is an extension of Art 2366 and subject to all the conditions of that course. Prerequisite: Arts 2366. (5007085330)

ASTRONOMY
(See Physics)



AUTOMOTIVE TECHNOLOGY

Dean:	Curt Pervier	143 T	685-4677
Faculty:	Ted Sumners	ATC	697-5863 ext. 3644
	Steve Hargrove	ATC	697-5863 ext. 3649
	Daniel Garner	ATC	697-5863 ext. 3653
Division Secretary:	Sidney Wristen	143 T	685-4676

Midland College is an NATEF (ASE) Certified Master Automobile Technician Training Certification Program. The Automotive Technology Program offers a two year Associate in Applied Science Degree or Certificate programs designed to prepare students for successful completion of the ASE examinations. Technical subjects taught will include the following ASE certification areas: Electrical Systems, Electronic Controls, Brake Systems, Suspension and Steering, Heating and Air Conditioning, Engine Performance, Engine Repair, Manual Drive Trains and Axles, and Automatic Transmissions/Transaxles. Additional courses in Advanced Electronics, Advanced Engine Performance, and Shop Management will be taught to supplement the ASE certification courses.

The objective of this program is to provide a general business related education core and specific technical training that will prepare the student for successful completion of the ASE certification examinations and to position the student at the forefront of the job market in the automotive industry. High paying careers exist at all levels in the automotive industry for ASE Certified Technicians, including: dealerships, independent repair shops, chain and specialty stores, and fleet operations.

The degree and certificate in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: ENGL 1301

Specialty Courses **40 Semester Credit Hours**

AUMT 1380, AUMT 1305, *AUMT 1307, *AUMT 1310, *AUMT 1316, *AUMT 1319, *AUMT 1345, *AUMT 2313, *AUMT 2317, *AUMT 2321, *AUMT 2325, *AUMT 2334, *AUMT 2437

Related Courses **12 Semester Credit Hours**

BMGT 1305, ITSC 1409, two KINE activity courses, MCHN 1320

MINIMUM SEMESTER CREDIT HOURS = 67

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirement.

Oral Communication: BMGT 1305

Basic Use of Computers: ITSC 1409

Basic Automotive Certificate

Specialty Courses **18 Semester Credit Hours**

AUMT 1305, *AUMT 1307, *AUMT 1310, *AUMT 1316, *AUMT 1345, *AUMT 2317

Related Courses **3 Semester Credit Hours**

MCHN 1320

MINIMUM SEMESTER CREDIT HOURS = 21

To receive the Automotive Advanced Certificate or the Automotive Management Certificate, students must first complete the Basic Automotive Certificate (21 hours).

Advanced Automotive Certificate

Specialty Courses **19 Semester Credit Hours**
*AUMT 1306, *AUMT 2313, *AUMT 2321, *AUMT 2325, *AUMT 2334, *AUMT 2437

MINIMUM SEMESTER CREDIT HOURS = 19

Automotive Management Certificate

Specialty Courses **20 Semester Credit Hours**
AUMT 2428, AUMT 2301, SPCH 1318, VHPA 1341, BMGT 1305, ITSC 1409

TOTAL SEMESTER CREDIT HOURS = 20

Diesel Certificate

Specialty Courses **22 Semester Credit Hours**
AUMT 1307, AUMT 1310, DEMR 1406, DEMR 1410, DEMR 1411, DEMR 2434

MINIMUM SEMESTER CREDIT HOURS = 22

AUMT 1380
Cooperative Education - Auto/Automotive Mechanic/Technician (1-0-20) **3 Hours**
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary. Two units required. Enrollment must be approved by the instructor. Capstone course.

AUMT 1305
Introduction and Theory of Automotive Technology (2-4) **3 Hours**
An introduction to the automotive industry including automotive history, safety practices, shop equipment and tools, vehicle subsystems, service publications, fasteners, professional responsibilities, automobile maintenance, and light repair.

AUMT 1306
Automotive Engine Removal and Installation (2-4) **3 Hours**
Fundamentals of engine inspection, removal and installation procedures. May be taught manufacturer specific. Prerequisite: AUMT 1305 or instructor approval.

AUMT 1307
Automotive Electrical Systems (2-4) **3 Hours**
An overview of automotive electrical systems including topics in operational theory, testing, diagnosis, charging and starting systems, and electrical accessories. Emphasis on electrical schematic diagrams and service manuals. May be taught manufacturer specific. Prerequisite: AUMT 1305 or instructor approval.

AUMT 1310
Automotive Brake Systems (2-4) **3 Hours**
Operation and repair of drum/disc type brake systems. Emphasis on safe use of modern equipment. Topics include brake theory, diagnosis, and repair of power, manual, anti-lock brake systems, and parking brakes. May be taught manufacturer specific. Prerequisite: AUMT 1305 or instructor approval.

AUMT 1316
Suspension and Steering (2-4) **3 Hours**
Theory and operation of automotive suspension and steering systems including tire and wheel problem diagnosis, component repair, and alignment procedures. May be taught manufacturer specific. Prerequisite: AUMT 1305 or instructor approval.

AUMT 1319
Automotive Engine Repair (2-4) 3 Hours
Fundamentals of engine operation, diagnosis and repair including lubrication systems and cooling systems. Emphasis on overhaul of selected engines, identification and inspection, measurements, and disassembly, repair, and reassembly of the engine. May be taught manufacturer specific. Prerequisite: AUMT 1305 or instructor approval.

AUMT 1345
Automotive Heating and Air Conditioning (2-4) 3 Hours
Theory of automotive air conditioning and heating systems. Emphasis on the basic refrigeration cycle and diagnosis and repair of system malfunctions. Covers EPA guidelines for refrigerant handling and new refrigerant replacements. May be taught manufacturer specific. Prerequisite: AUMT 1305 or instructor approval.

AUMT 2301
Automotive Management (3-1) 3 Hours
Instruction in human relations, customer relations, and customer satisfaction. Emphasis on management techniques and building relationships between the service department and the customer.

AUMT 2313
Manual Drive Train and Axle (2-4) 3 Hours
A study of automotive clutches, clutch operation devices, standard transmissions, transaxles and rear axles, and differentials with emphasis on the diagnosis and repair of transmissions and drive lines. May be taught manufacturer specific. Prerequisite: AUMT 1305 or instructor approval.

AUMT 2317
Engine Performance Analysis I (2-4) 3 Hours
Theory, operation, diagnosis, and repair of basic engine dynamics, ignition systems, and fuel delivery systems. Use of basic engine performance diagnostic equipment. May be taught manufacturer specific. Prerequisite: AUMT 1307 or instructor approval.

AUMT 2321
Automotive Electrical Lighting and Accessories (2-4) 3 Hours
Repair of automotive electrical subsystems, lighting, instrumentation, and accessories. Emphasis on accurate diagnosis and proper repair methods using various troubleshooting skills and techniques. May be taught manufacturer specific. Prerequisite: AUMT 1307 or instructor approval.

AUMT 2325
Automatic Transmission and Transaxle (2-4) 3 Hours
A study of the operation, hydraulic principles, and related circuits of modern automatic transmission and automatic transaxles. Diagnosis, disassembly, and assembly procedures with emphasis on the use of special tools and proper repair techniques. May be taught manufacturer specific. Prerequisite: AUMT 1307 or instructor approval.

AUMT 2428
Automotive Service (2-4) 4 Hours
Mastery of automotive vehicle service and component systems repair. Emphasis on mastering current automotive competencies covered in related theory courses. Maybe taught manufacturer specific.

AUMT 2334
Engine Performance Analysis II (2-4) 3 Hours
Diagnosis and repair of emission systems, computerized engine performance systems, and advanced ignition and fuel systems; and proper use of advanced engine performance diagnostic equipment. May be taught manufacturer specific. Prerequisite: AUMT 2317 or instructor approval.

AUMT 2437
Automotive Electronics (3-4) **4 Hours**
Topics address electrical principles, semiconductor and integrated circuits, digital fundamentals, microcomputer systems, and electrical test equipment as applied to automotive technology. May be taught manufacturer specific. Prerequisite: AUMT 1307 or instructor approval.

AUMT 2455
Automotive Engine Machining (2-4) **4 Hours**
An in-depth study of precision engine rebuilding, cylinder reconditioning, and crack repair. Instruction in machines and equipment necessary to complete an engine repair. Maybe taught manufacturer specific.

DEMR 1406
Diesel Engine (2-4) **4 Hours**
An introduction to the basic principles of diesel engines and systems.

DEMR 1410
Diesel Engines Testing and Repair (2-4) **4 Hours**
An introduction to testing and repairing diesel engines including related systems specialized tools.

DEMR 1411
Diesel Engines Testing and Repair II (2-4) **4 Hours**
Coverage of testing and repairing diesel engines including related systems specialized tools.

DEMR 2434
Advanced Diesel Tune-Up and Troubleshooting (2-4) **4 Hours**
Advanced concepts and skills required for tune-up and troubleshooting procedures of diesel engines. Emphasis on the science of diagnostics with a common sense approach.

VHPA 1341
Auto Parts Counter Sales (3-0) **3 Hours**
Skill development in communications, sales, and merchandising of auto parts to vehicle owners and repair technicians with an emphasis on customer relations, communication, sales, and merchandising skills.

AVIATION MAINTENANCE TECHNOLOGY

Dean:	Curt Pervier	143 T	685-4677
Director:	Dennis Givens	Airport “E”	563-8952
Faculty:	Bruce King	Airport “E”	563-8952
	Travis Smith	Airport “E”	563-8952
Program Coordinator:	Karen Harris	140 T	685-4799

The Aviation Maintenance Technology program will reflect the continuing efforts of Midland College in its mission to prepare students for employment, in business and industry, occupational advancement, retraining, and/or pursuit of higher degrees or certification. The Aviation Maintenance Technology program offers two certificate options. The student may elect to complete a certificate in Airframe Maintenance Technology or a certificate in Powerplant Maintenance. You must have a high school diploma or equivalent to be admitted to the certificate programs. Upon successful completion of the Aviation Maintenance Technology program, the certificate(s) earned qualifies the student to take the Federal Aviation Administration (FAA) examination for the Airframe and/or Powerplant licenses. Students must furnish their own hand tools.

The Aviation Maintenance Technology program also offers an Aerospace Manufacturing Certificate in an alliance with Bell Helicopter Textron. This is a two-semester program, which will prepare the student for an interview and possible employment with Bell Helicopter Textron upon completion. The program will instruct a student to become an aerospace assembler with potential of advancement with further training and experience.

The certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note: Courses that require prerequisites are denoted by an asterisk (*).

Aerospace Certificate

Specialty Courses **24 Semester Credit Hours**

AERM 1254, AERM 1303, AERM 1391, DFTG 2442, EPCT 1307, AVNC 1343, QCTC 1341,TECM 1303

MINIMUM SEMESTER CREDIT HOURS = 24

Airframe Certificate

Specialty Courses **40 Semester Credit Hours**

AERM 1315, AERM 1208, AERM 1205, AERM 1210, AERM 1203, AERM 1314, AERM 1253, AERM 1241, AERM 1350, AERM 1247, AERM 1345, AERM 1243, AERM 1352, AERM 1349, AERM 2233, AERM 1254, AERM 2231

MINIMUM SEMESTER CREDIT HOURS = 40

Powerplant Certificate

Specialty Courses **40 Semester Credit Hours**

AERM 1203, AERM 1205, AERM 1208, AERM 1210, AERM 1251, AERM 1314, AERM 1315, AERM 1340, AERM 1357, AERM 1444, AERM 1456, AERM 2351, AERM 2352, AERM 2447

MINIMUM SEMESTER CREDIT HOURS = 40

AERM 1203
Shop Practices (1-4) **2 Hours**
An introduction to the correct use of hand tools and equipment, precision measurement, identification of aircraft hardware, and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures.

AERM 1205
Weight and Balance (1-2) **2 Hours**
A study of the Federal Aviation Administration (FAA) required subjects relating to the weighing of aircraft, the performance of weight and balance calculations, and appropriate maintenance record entries.

AERM 1208
Federal Aviation Regulations (1-2) **2 Hours**
A course in the use and understanding of the Federal Aviation Administration and aircraft manufacturer's publications, forms, and records; and the exercise of mechanic privileges within prescribed limitations.

AERM 1210
Ground Operations (1-4) **2 Hours**
An introductory course in fuels, servicing methods and procedures, aircraft movement, securing and operations of aircraft, external power equipment, aircraft cleaning, and corrosion control.

AERM 1241
Wood, Fabric, and Finishes (1-2) **2 Hours**
A course in the use and care of various covering materials, finishes, and wood structures including approved methods and procedures.

AERM 1243
Instruments and Navigation/Communication (1-2) **2 Hours**
A study of aircraft instruments and electronic flight instrument systems including testing and installing instruments; inspecting, checking, and troubleshooting navigation and communication systems; and inspecting and repairing antennas and electronic equipment installations.

AERM 1247
Airframe Auxiliary Systems (1-3) **2 Hours**
Topics address airframe auxiliary systems including the operation and repair of position and warning systems, cabin atmospheric control systems, ice and rain control systems for aircraft and engines, and fire detection and protection systems.

AERM 1251
Aircraft Turbine Engine Theory (1-4) **2 Hours**
Theory, history, and servicing of turbine engines to include lubrication, instrumentation, auxiliary power units, and exhaust systems.

AERM 1253
Aircraft Welding (1-2) **2 Hours**
Topics address repair procedures for steel, magnesium, brass, and aluminum materials used in aircraft assembly and selection and application of appropriate methods of welding, brazing, and soldering steel, magnesium, brass, and aluminum.

AERM 1254
Aircraft Composites (1-3) **2 Hours**
A study of the inspection and repair of composite, fiberglass, honeycomb, and laminated structural materials including doors, windows, bonded structures, and interior furnishings.

AERM 1303
Shop Practices (1-3) **2 Hours**
An introduction to shop safety, the correct use of hand tools, equipment and precision measurements, identification of aircraft hardware, and the fabrication of fluid lines and tubing. Emphasis on procedures for testing, heat treating, and inspection of aircraft structures.

AERM 1317
Fasteners (2-2) **3 Hours**
Designed to develop the knowledge and skill necessary to install fasteners required for the installation of composite panels used in Aerospace Manufacturing.

AERM 1314
Basic Electricity (2-3) **3 Hours**
A study of aircraft electrical systems and their requirements including the use of the ammeter, voltmeter, and ohmmeter; series and parallel circuits; inductance and capacitance; magnetism; converting alternating current (AC) to direct current (DC); controlling devices; maintenance and servicing of aircraft batteries; and reading and interpreting aircraft electrical diagrams to include solid state devices and logic functions.

AERM 1315
Aviation Science (2-2) **3 Hours**
Fundamentals of mathematics, physics, and drawing as they apply to aircraft principles and operations as required by the federal Aviation Administration for airframe and powerplant mechanics.

AERM 1340
Aircraft Propellers (3-3) **3 Hours**
Fundamentals of construction of propellers. Skill development in inspection, servicing, and repair of fixed-pitch, constant-speed, and feathering propellers and governing systems. Instruction in removal, balancing, and installation of propellers.

AERM 1345
Airframe Electrical Systems (2-3) **3 Hours**
A study of airframe electrical systems including installation, removal, disassembly, and repair of electrical components and related wiring.

AERM 1349
Hydraulic, Pneumatic, and Fuel Systems (2-4) **3 Hours**
Skill development in inspecting, servicing, and maintaining aircraft fluid systems including hydraulics, pneumatics, and fuel. Application of basic concepts through detailed maintenance procedures.

AERM 1350
Landing Gear Systems (2-3) **3 Hours**
Inspection, servicing, overhaul, and repair of fixed and retractable landing gear systems. In-depth coverage of systems, components, and operation.

AERM 1352
Aircraft Sheet Metal (1-8) **3 Hours**
A course in inspection and repair of sheet metal structures including forming, layout, and bending of sheet metal and identification, selection, and installation of rivets and fasteners.

AERM 1357
Fuel Metering and Induction Systems (2-4) **3 Hours**
A study of fuel metering and induction systems used on reciprocating and turbine engines including fuel metering systems, carburetors, induction systems, heat exchangers, and cooling systems.

AERM 1444
Aircraft Reciprocation Engines (3-2) **4 Hours**
A study of reciprocating engines and their development, operating principles, and theory. Instruction in engine instruments, lubricating, and exhaust systems.

AERM 1456
Aircraft Powerplant Electrical (3-4) **4 Hours**
Theory, operation, and maintenance of powerplants including electrical, ignition, starting, and fire protection systems.

AERM 2231
Airframe Inspection (1-2) **2 Hours**
A study of the materials and procedures for completing a One Hundred Hour Inspection as per Federal Aviation Regulations and manufacturers' service information. Capstone course.

AERM 2233
Assembly and Rigging (1-2) **2 Hours**
An advanced course in assembly and rigging of fixed and rotary-wing aircraft.

AERM 2351
Aircraft Turbine Engine Overhaul (2-4) **3 Hours**
Topics address inspection, disassembly, reassembly, and replacement of gas turbine engines, sections, and components and operational troubleshooting and analysis.

AERM 2352
Aircraft Powerplant Inspection (3-0) **3 Hours**
In-depth coverage of methods and procedures for completing airworthiness and conformity inspections on aircraft powerplants. Capstone course.

AERM 2447
Aircraft Reciprocating Engine Overhaul (2-8) **4 Hours**
A study of reciprocating engine overhaul including measurement and inspection procedures. Instruction in removal and installation, checks, servicing, and repair of engines.

AVNC 1343
Aviation Electrical and Electronic Systems Installation (2-2) **3 Hours**
A comprehensive study of, and practical experience in the installation of avionic systems in aircraft, mounting electronic equipment, construction and installation of electrical wiring and cables, proper use of tools, selection of materials, and safety.

DFTG 2442
Aeronautical Drafting (4-0) **4 Hours**
A study of aeronautical drawings required in the aircraft and aerospace industries.

EPCT 1307
Introduction to Environmental Safety and Health (3-0) **3 Hours**
A historical overview of environmental safety and health. Emphasis is on the use of occupational safety and health codes.

QCTC 1341
Statistical Process Control (3-0) **3 Hours**
Components of statistics including techniques of collection, presentation, analysis, and interpretation of numerical data as applied to statistical control. Stresses application of mathematical models, and programming.

TEMC 1303
Technical Mathematics (3-0) **3 Hours**
A review of mathematical functions including fractions, decimals, proportions, perimeters, areas, volumes of geometric figures, and certain algebraic/ trigonometric functions required by specific business and industries for successful on-the-job performance.

BIOLOGY

Dean:	Margaret Wade	125 SF	685-4615
Faculty:	Lacye Escamilla	147 SF	685-5580
	Tomas Hernandez	105 SF	685-6466
	Claudia Hinds	108 SF	685-4618
	Paul Mangum	128 SF	685-4729
	Ethel Matthews	147 SF	685-4635
Lab Instructors:	Cindy Cochran	157 SF	685-4753
	Lisa Welch	150 SF	685-4728
Division Secretary:	Norma Duran	124 SF	685-4612

Courses in the Department of Biology are designed to meet the needs of undergraduate students who are preparing to enter the fields of professional biology and biological research, to teach biology, or those who wish to prepare for admission to dental and medical schools, and for training in medical technology and nursing. Courses in the department offer other students an appreciation and understanding of the concepts of biology.

The student who expects to enter a profession in dentistry, medicine, optometry, pharmacy, veterinary medicine, or some related profession which requires graduation from a specialized college should check carefully the entrance requirements for the college to which he expects to transfer after two years at Midland College.

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: CHEM 1411, CHEM 1412, MATH 1314 or higher

Suggested Courses for Field of Study **12 Semester Credit Hours**

BIOL 1406, BIOL 1407* or BIOL 2421

Related Courses **12 Semester Credit Hours**

PHYS 1401 and PHYS 1402* or BIOL 2401 and BIOL 2402 and BIOL 2416 or CHEM 2423* and CHEM 2425* or 8 hours foreign language courses

MINIMUM SEMESTER CREDIT HOURS = 66

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Division Dean.

BIOL 1406
General Biology I (3-3) **4 Hours**
This general biology course (first semester) is devoted to principles shared by all organisms. These principles are cell biology, energy, genetics, evolution, and ecology. (26.0101.51 03)

BIOL 1407
General Biology II (3-3) **4 Hours**
This general biology course (second semester) is devoted to particular organisms. Much of the emphasis is on vertebrate biology. The principles studied are diversity, plant biology, animal biology, and behavior. Dissection required. Prerequisite: BIOL 1406. (26.0101.51 03)

BIOL 1408
General Biology I for Non Majors (3-3) **4 Hours**
This general biology course (first semester) is devoted to principles shared by all organisms. These principles are cell biology, energy, genetics, evolution, and ecology. This course is suitable as a required lab science for non-biology majors and may not be substituted for BIOL 1406. (26.0101.51 03)

BIOL 1409
General Biology II for Non-Majors (3-3) **4 Hours**
This general biology course (second semester) is devoted to particular organisms. Much emphasis is on vertebrate biology. The principles studied are diversity, plant biology, animal biology, and behavior. Prerequisite: BIOL 1408. This course is suitable as a required lab science for non-biology majors and may not be substituted for BIOL 1407. (26.0101.51 03)

BIOL 1424
Systematic Botany (3-3) **4 Hours**
Introduction to the identification, classification, and evolutionary relationships of vascular plants with emphasis on flowering plants. Includes the importance of herbaria, collection techniques, and the construction and use of taxonomic keys. (26.0301.5203)

BIOL 2401
Anatomy and Physiology I (3-4) **4 Hours**
This course is designed to produce student proficiency in body organization, the skeletal system, the muscular system, and the nervous system. Laboratory work will include dissection of a mammal. Dissection required. Biology 1406 highly recommended. (26.0707.5103)

BIOL 2402
Anatomy and Physiology II (3-4) **4 Hours**
This course is designed to enable students to become proficient in the following biological systems: the circulatory system with special emphasis on the blood and heart, the respiratory system, the digestive system, and the reproductive system. Laboratory work will include dissection of a mammal. Dissection required. Prerequisite: BIOL 2401. (26.0707.5103)

BIOL 2416
Introductory Genetics (3-4) **4 Hours**
This course is designed to enable students to become familiar with the following topics in genetics: the physical basis and the chemical basis of heredity, the laws of heredity and variation, mitotic and meiotic cell division, and the study of human diseases that are caused by genetic defects. (26.0804.5103)

BIOL 2421
Microbiology (3-4) **4 Hours**
The study of the morphology, physiology, and taxonomy of representative groups of pathogenic and nonpathogenic microorganisms. Pure cultures of microorganisms grown on selected media are used in learning laboratory techniques. Includes a brief preview of food microbes, public health, and immunology. Prerequisite: BIOL 1406 or BIOL 2401 or CHEM 1405 or CHEM 1411 or permission of instructor. (26.0503.5103)

BUILDING SCIENCE TECHNOLOGY

Dean:	Curt Pervier	143 T	685-4677
Faculty:	Torivio Duran	181 T	685-6496
Division Secretary:	Sidney Wristen	143 T	685-4676

The Building Science Technology program, located in a new metal building at 109 West Florida St., adjacent to the Cogdell Learning Center, is designed to train students for entry-level jobs in the building and construction industry. Specific areas of training include on-site experience in carpentry, concrete forming, plumbing, roofing, and exterior and interior finishing. A home is constructed from start to finish. Further instruction includes blueprint reading, study of building codes and specifications, and cabinet making.

The degrees and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Basic Certificate

Specialty Courses **19 Semester Credit Hours**

CNBT 1416, CNBT 1450, CNBT 1453, CNBT or WDWK elective, MCHN 1320

MINIMUM SEMESTER CREDIT HOURS = 19

Advanced Certificate

Specialty Courses **24 Semester Credit Hours**

CNBT 1305, CNBT 1342, CNBT 1346, CNBT 2381, three CNBT or WDWK electives

MINIMUM SEMESTER CREDIT HOURS = 24

CNBT 1305
Residential and Light Commercial Blueprint Reading (3-0) **3 Hours**

Blueprint reading covering the theory of projection, architectural and engineering symbols, relationship of views, and measuring with emphasis on residential and light commercial construction.

CNBT 1342
Building Codes and Inspections (3-0) **3 Hours**

An examination of the building codes and standards applicable to building construction and inspection processes.

CNBT 1346
Construction Estimating (3-0) **3 Hours**

Fundamentals of estimating materials and labor costs in construction; blueprint; construction methods and materials.

CNBT 1402
Mechanical, Plumbing, and Electrical Systems in Construction (2-4) **4 Hours**

A presentation of the basic mechanical, plumbing, and electrical components in construction and their relationship to the overall building.

CNBT 1413
Concrete - Residential (2-6) **4 Hours**

A study of the various techniques for concrete utilization in residential and light construction.

CNBT 1416
Construction Technology I (2-6) **4 Hours**

A comprehensive course in site preparation, foundation, form work, and framing. Topics include safety; tools and equipment; basic site preparation; basic foundations and form work; and basic floor, wall, and framing methods and systems.

CNBT 1450
Construction Technology II (2-6) **4 Hours**
An intermediate course in site preparation, foundation, form work, and framing in residential and light construction. Topics include safety; tools and equipment; site preparation and layout; concrete; foundations and related form work; and floor, wall, ceiling, and roof framing methods and systems.

CNBT 1453
Construction Technology III (2-6) **4 Hours**
An intermediate course in foundation and form work, exterior trim and finish, and interior finish for residential and commercial construction. Topics include safety; tools and equipment; concrete; foundations and related form work; exterior building finish; and interior floors, walls, and ceiling finish. Capstone course.

CNBT 2381
Cooperative Education (1-0-20) **3 Hours**
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary.

CNBT 2439
Construction Technology IV (2-6) **4 Hours**
An advanced course in site preparation, framing, and interior finish for residential, light, and commercial construction. Topics include safety, tools and equipment, finish site work and equipment, alternate framing systems and methods, interior doors and windows, walls, and floors.

WDWK 1413
Cabinet Making (2-6) **4 Hours**
Includes the design and construction of base cabinets, wall cabinets for kitchens and bathrooms and furniture making. Emphasis on the safe use of portable and stationary power tools. Finishing techniques include proper sanding, sealing, staining, and finishing techniques.

WDWK 1491
Special Topics (2-4) **4 Hours**
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

WDWK 2431
Cabinet Making III (2-6) **4 Hours**
Continuation of Cabinet Making II including the refined techniques of furniture making. The student will learn to identify different types of furniture construction, construction techniques, joints, and name each part of a furniture piece. Demonstrate safe use of portable and stationary construct doors and drawers.

WDWK 2451
Cabinet Making II (2-6) **4 Hours**
Advanced skills in machine woodworking and hand craftsmanship. Emphasizes advanced design and door and drawer construction, laminate laying, and customer and co-worker relations.

BUSINESS ADMINISTRATION

Dean:	Gavin Frantz	142 T	685-4657
Faculty:	Doug Avery	197 T	685-4689
	Omar Belazi	154 T	685-4659
	Sylvia Brown	124 T	685-4717
	Angelita Cadena	122 T	685-4832
	Amy Herring	103 T	685-5516
	Doug Johnson	119 T	685-4665
	Adriana Lumpkin	109 T	685-4743
	Vickie Pickett	107 T	686-4204
	Andree Rosen	115a T	685-4572
	Michael Santonino	153 T	685-4611
Division Secretary:	Leslie Montez	142 T	685-4656

BUSINESS ADMINISTRATION: plays an important role in the lives of all citizens. Midland College offers courses in the field of business administration to meet the needs and interests of the people of Midland. The objectives of the Business Administration Department are to make available to students courses at the freshman and sophomore levels which will transfer to the senior college of their choice; to provide training for those students who wish to develop a marketable skill for immediate employment; to provide for the needs of individuals wishing to upgrade their present skills and positions; and to provide all students with a background of business and career information for further study, further training, and citizenship. It is our aim to meet the needs of local industry by providing initial training and skill improvement courses to meet personnel needs of present industries and those industries which will locate in the Midland area in the future. There is a constant and growing demand for clerical, secretarial, and accounting personnel.

Graduates from an accredited college or university holding a baccalaureate degree may receive an associate of applied science degree upon successful completion of approximately thirty (30) semester hours of Business Administration courses and any appropriate leveling courses as determined by the Division Dean.

The degrees and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Business Administration
Suggested Degree Plan for Associate in Science

Students transferring to another institution should follow this degree plan.

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

FRESHMAN YEAR

	First Semester	
Prefix Number	**Course Name**	**Credit Hours**
BUSI 1301	Business Principles	3
ENGL 1301	Composition and Rhetoric	3
HIST 1301	United States History to 1877	3
MATH 1324	Math for Business and Social Sciences I	3
	Science Elec	4
	KINE Elec	1
	First Semester Total	**17**
	Second Semester	
ENGL 1302 *	Composition and Literature	3
	Visual and Performing Arts Elective	3
HIST 1302	United States History Since 1877	3
MATH 1325	Math for Business and Social Sciences I	3
	Science Elec	4
	Second Semester Total	**16**

SOPHOMORE YEAR

Prefix Number	First Semester Course Name	Credit Hours
ACCT 2401	Principles of Accounting I	4
BUSI 2301	Business Law I	3
ENGL LIT	(SOPH)	3
GOVT 2301	Federal and State Government I	3
ECON 2301	Principles of Economics I	3
	First Semester Total	**16**
	Second Semester	
ACCT 2402 *	Principles of Accounting II	4
SPCH 1321	Business and Professional Speaking	3
GOVT 2302	Federal and State Government II	3
ECON 2302	Principles of Economics II	3
	First Semester Total	**13**

MINIMUM SEMESTER CREDIT HOURS = 62

Associate of Science

Students transferring to another institution should follow this degree plan.

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: MATH 1324 (requires placement test or grade of "C" in Math 1314), SPCH 1321

Suggested Courses for Field of Study **17 Semester Credit Hours**

BUSI 1301, BUSI 2301, ACCT 2401, *ACCT 2402, ECON 2302

Related Courses **3 Semester Credit Hours**

MATH 1325

MINIMUM SEMESTER CREDIT HOURS = 62

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH 1321

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

Business Administration
Suggested Degree Plan for Associate in Applied Science

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

FRESHMAN YEAR

Prefix Number	First Semester Course Name	Credit Hours
BUSI 1301	Business Principles	3
ACNT 1403	Introduction to Accounting I or	
ITSC 1409	Integrated Software Applications	4
BCIS 1405	Business Computer Applications	4
POFT 1325	Business Mathematics and Machine Applications	3
POFT 2312	Business Correspondence & Communication	3
	First Semester Total	**17**

Prefix Number	Second Semester Course Name	Credit Hours
ACCT 2401	Principles of Accounting I	4
BUSI 2301	Business Law I	3
ITSW 1404	Introduction to Spreadsheets	4
BMGT 1303	Principles of Management	3
	Core Course Elective	
	Second Semester Total	**17**

SOPHOMORE YEAR

Prefix Number	First Semester Course Name	Credit Hours
BUSG 2380	Coop Education	3
BUSG 1345	Principles of Finance	3
ECON 2301	Principles of Economics I	3
MRKG 1311	Principles of Marketing	3
BUSI 2302	Business Law II	3
	KINE Elective	1
	First Semester Total	**16**
	Second Semester	
ECON 2302	Principles of Economics II	3
SPCH 1321	Business and Professional Speaking	3
ACCT 2402	Principles of Accounting II	4
	Core Course Elective (MNS)	3
	Core Course Elective (HFA)	3
	Business Specialty Elective	3
	Second Semester Total	**19**

MINIMUM SEMESTER CREDIT HOURS = 69

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: ECON 2301, ECON 2302

Business Administration Courses **18 Semester Credit Hours**

BUSI 1301, BUSI 2301, BUSG 2380, BUSG 1345, BUSA 1313, BUSI 2302

Related Courses **A Minimum of 36 Semester Credit Hours**

*ITSC 1409 or *BCIS 1405, *ACNT 1403, *POFT 2312, ACCT 2401, *ITSW 1404, BMGT 1303, MRKG 1311 or ACCT 2402, SPCH 1321, one specialty elective and one KINE activity course.

MINIMUM SEMESTER CREDIT HOURS = 69

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH 1321

Basic Use of Computers: ITSC 1409 or BCIS 1405

Certificate Program
Certificate in Business Administration

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Prefix Number	First Semester Course Name	Credit Hours
BUSI 1301	Business Principles *or*	
ITSC 1409	Integrated Software Applications	3
BCIS 1405	Business Computer Applications	4
ACNT 1403	Introduction to Accounting I	4
POFT 2312	Business Correspondence and Communication	3
POFT 1325	Business Mathematics and Machine Applications	3
	First Semester Total	**17**
	Second Semester	
BUSI 2301	Business Law II	3
ACCT 2401	Principles of Accounting I	4
ITSW 1404	Introduction to Spreadsheets	4
BMGT 1301	Supervision	3
	Second Semester Total	**14**
	Third Semester	
BUSG 2380	Coop-Education	3
BUSG 1304	Personal Finance	3
	Third Semester Total	**6**

MINIMUM SEMESTER CREDIT HOURS = 37

General Business Certificate

Specialty Courses **12 Semester Credit Hours**

BUSI 1301, BUSI 2301, BUSG 2380, BUSG 1304

Related Courses **25 Semester Credit Hours**

*ITSC 1409 or *BCIS 1405, *ACNT 1403, *POFT 2312, POFT 1325, ACCT 2401, *ITSW 1404, BMGT 1301.

MINIMUM SEMESTER CREDIT HOURS = 37

BUSINESS SYSTEMS: Prepares students for a career in a business office environment. The program provides knowledge in office practice and principles and use of the most popular office application software on the market today including Microsoft Office Suite and WordPerfect. This field of study provides the student the opportunity to take courses that will prepare the student to take the Microsoft Office Specialist certification exams.

Business Systems Associate of Applied Science

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

First Year

	First Semester	
Prefix Number	**Course Name**	**Credit Hours**
CPMT 1303	Introduction to Computer Technology	3
POFT 1429	Keyboarding and Document Formatting	4
POFT 1309	Administrative Office Procedure I	3
POFT 1301	Business Communications I	3
POFT 1325	Business Machine Applications	3
	First Semester Total	**16**
	Second Semester	
ITSW 1407	Introduction to Database *or*	
ITSW 1410	Presentation Media Software	4
ITSW 1404	Introduction to Spreadsheets	4
ITSW 1401	Introduction to Word Processing	4
	Core Course Elective	3
	Core Course Elective	3
	Second Semester Total	**18**

Second Year

	Third Semester	
Prefix Number	**Course Name**	**Credit Hours**
ACNT 1403	Introduction to Accounting I	4
POFT 2312	Business Communications II	3
	Core Course Elective	3
	Core Course Elective	3
ITSW 2431	Advanced Word Processing or	
POFI 2401	Word Processing *or*	
	Specialty Elective	4
	Third Semester Total	**17**
	Fourth Semester	
POFT 2431	Administrative Systems	4
	Core Course Elective	3
	Specialty Elective	3
	Specialty Elective	3
	Specialty Elective	3
	Fourth Semester Total	**16**
	Program Total	**67**

Business Systems AAS

General Education Core Courses **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Specialty Courses **48 Semester Credit Hours**

CPMT 1303, POFT 1429, POFT 1309, POFT 1301, POFT 1325, *ITSW 1407 or *ITSW 1410, *ITSW 1404, *ITSW 1401, *POFT 2312, *ITSW 2431 or *POFI 2401, *POFT 2431, three specialty electives

Related Courses **4 Semester Credit Hours**

*ACNT 1403

MINIMUM SEMESTER CREDIT HOURS = 67

Specialty Electives

POFT 1429, ITSC 1409, ITSW 2431, POFM 1302, POFI 2401, POFT 2401, POFI 2431, ITSW 1410, ITSE 2313, POFT 2333, POFT 2401, ACNT 1403, POFMI 2431, IMED 1291, POFM 1302, ITSW 1404, BCIS 1405, ITSW 1407, ITSW 2434, POFT 2380, HPRS 1106, LGLA 1345, LGLA 1317

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: BMGT 1305 or a SPCH course from the Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Specialty Courses

Business Systems Certificate

The Business Systems Certificate Program offers a 1-year (12 months) or three semester program leading to a certificate. Students will complete a minimum of 31 hours in courses designed to prepare individuals for office careers in administrative, computer assistant, medical, or legal areas. Satisfactory completion of the program qualifies the individual to obtain employment in an office environment. The curriculum provides individuals with necessary knowledge in office practices and principles and with current microcomputer and other automated equipment in performing office tasks.

Business Systems Certificate

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Prefix Number	First Semester Course Name	Credit Hours
CPMT 1303	Introduction to Computer Technology	3
POFT 1301	Business Communications I	3
POFT 1309	Administrative Office Procedure I	3
POFT 1325	Business Machine Applications	3
	First Semester Total	**13**
	Second Semester	
ITSW 1401	Introduction to Word Processing	4
	Specialty Elective	3/4
	Specialty Elective	3/4
	IT/ACNT Elective	3/4
	Second Semester Total	**12/15**

Prefix Number	Third Semester Course Name	Credit Hours
	Desktop Emphasis	
POFI 2431	Desktop Publishing for the Office	4
IMED 1215	Web Design I	2
or		
	Medical Emphasis	
POFM 1302	Computers in Health Care	3
HPRS 1106	Medical Terminology	1
or		
	Legal Emphasis	
LGLA 1345	Civil Litigation	3
LGLA 1317	Law Office Technology	3
	Third Semester Total	**4/6**
	Program Total	**29/32**

Business Systems Certificate

Specialty Courses **11/13 Semester Credit Hours**

ITSW 1401, POFT 1309, (POFI 2431 and IMED 1291) or (POFM 1302 and HPRS 1106) or (LGLA 1345 and LGLA 1317)

Related Courses **9 Semester Credit Hours**

CPMT 1303, POFT 1301, POFT 1325

Specialty Electives **9/12 Semester Credit Hours**

(3 classes one of which may be ACNT 1403)
POFT 1429, ITSC 1409, ITSW 2431, POFM 1302, POFI 2401, POFT 2401, POFI 2431, ITSW 1410, ITSE 2313, POFT 2333, POFT 2401, ACNT 1403, POFMI 2431, IMED 1291, POFM 1302, ITSW 1404, BCIS 1405, ITSW 1407, ITSW 2434, POFT 2380, HPRS 1106, LGLA 1345, LGLA 1317

Business Administration Courses

BMGT 1301
Supervision (3-0) **3 Hours**

A study of the role of the supervisor. Managerial functions as applied to leadership, counseling, motivation, and human skills are examined. The student will explain the role, characteristics, and skills of a supervisor and the principles of planning, leading, controlling, staffing, and organizing at the supervisory level. The student will identify and discuss the human skills necessary for supervision; explain motivational techniques and give examples of how they can be utilized by a supervisor; and structure a working environment which will provide a variety of ways for employees to be motivated.

BMGT 1303
Principles of Management (3-0) **3 Hours**

Concepts, terminology, principles, theory, and issues that are the substances of the practice of management. The student will explain the various theories and processes of management including its function; identify roles of leadership in business; and recognize elements of the communication process and the guidelines for organizational design. The student will interpret interpersonal roles related to work groups and demonstrate knowledge of the basic language of management.

BMGT 1305
Communications in Management (3-0) **3 Hours**

A course in the basic theory and process of communication skills necessary for the management of an organization's workforce. Upon successful completion of this course, the student will be able to explain the communication process; identify communication channels and their relationship to semantics and perception; compare and contrast the relationship of communication and management; and demonstrate competencies in verbal and written presentations.

BUSA 1313
Investments (3-0) **3 Hours**

The student will define terms related to investments; apply basic concepts and calculations to planning and control of investments; and identify analytical models used for financial decision-making. The student will develop an understanding of the time value of money, break-even analysis, cash flow, capital budgeting, sources and uses of funds, and investment decisions.

BUSG 1191
Special Topics in Business (1-0) **1 Hour**

The student will gain exposure to a variety of topics that pertain to current issues and problems in the business administration field. This course may be repeated for additional credit using a different topic.

BUSG 1291
Special Topics in Business (2-0) **2 Hours**

The student will gain exposure to a variety of topics that pertain to current issues and problems in the business administration field. This course may be repeated for additional credit using a different topic.

BUSG 1304
Personal Finance (3-0) **3 Hours**

A study of the financial problems which people ordinarily encounter in managing their family financial affairs. Topics include financial security for the family, budgeting, use of credit, home ownership, financial tangles, and savings and investment planning. The student will identify the concepts associated with the time value of money; identify the concepts associated with personal budgeting; and recognize the differences among various savings and investment programs and classes of securities. The student will identify the options for personal insurance; describe retirement and estate planning techniques; explain the benefits of owning versus renting real property; and discuss consumer protection legislation.

BUSG 1345
Principles of Finance (3-0) **3 Hours**
The student will identify the process and structures of monetary policy; relate the sources of capital to business, consumers, and government; define the time value of money and its relationship to credit; and describe the characteristics of financial intermediaries and related markets.

BUSG 1391
Special Topics in Business (3-0) **3 Hours**
The student will gain exposure to a variety of topics that pertain to current issues and problems in the business administration field. Prerequisite: 12 hours of business-related courses or permission of instructor. This course may be repeated for additional credit using a different topic.

BUSG 2309
Small Business Management (3-0) **3 Hours**
A course on how to start and operate a small business. Topics include facts about a small business, essential management skills, how to prepare a business plan, financial needs, marketing strategies, and legal issues. The student will describe important issues about small business; identify essential management skills required of a successful entrepreneur; and prepare a business plan.

BUSG 2380, 2381
Cooperative Education - Business, General (1-0-20) **3 Hours**
Career-related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through work experience. This course may be repeated if topics and learning outcomes vary.

BUSI 1301
Business Principles (3-0) **3 Hours**
Students will learn business operations, will develop a business vocabulary, and will direct their thinking to the field of business best suited to their interests and talents. Students will analyze the specialized fields within the business organization, such as management, accounting, personnel, marketing, and finance. Students will also explore the role of business in modern society.

BUSI 2301
Business Law I (3-0) **3 Hours**
The student will develop an understanding of the legal framework of business and will develop an awareness of legal responsibilities and rights when dealing with persons and institutions in the business world. The student will understand the basic principles of law of torts, contracts, bailments and personal property. Special emphasis will be placed on sales contracts.

BUSI 2302
Business Law II (3-0) **3 Hours**
In this course, a continuation of BUSI 2301, the student will study commercial papers, credit, suretyship, secured transactions, bankruptcy, and reorganization. The student will develop an understanding of the agency relationship, partnerships, corporations, securities regulation, and investor protection laws.

HRPO 1311
Human Relations (3-0) **3 Hours**
Practical application of the principles and concepts of the behavioral sciences to interpersonal relationships in the business and industrial environment.

IMED 1215
Web Page Design I (2-0) **2 Hours**
Instruction in web page design and related graphic design issues including mark-up languages, web sites and browsers.

IMED 2309
Internet Commerce (3-0) **3 Hours**
An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Topics include database technology, creating web sites in order to collect information, performing on-line transactions, and generating dynamic content. Prerequisites: BUSG 1391-Special Topics: Fundamentals of Electronic Business and ITSE 2313-Web Authoring

Business Systems Courses

ITSW 1401
Introduction to Word Processing (3-3) **4 Hours**
An overview of the production of documents, tables, and graphics. The student will identify word processing terminology and concepts; create technical documents; format and edit documents; use simple tools and utilities; and print documents. Prerequisite: CPMT 1303 and POFT 1429 or keyboarding skills

ITSW 1404
Introduction to Spreadsheets (3-3) **4 Hours**
Instruction in the concepts, procedures, and importance of electronic spreadsheets. The student will identify spreadsheet terminology and concepts; create formulas and functions; use formatting features; and generate charts, graphs, and reports/or keyboarding skills and POFT 1325.

ITSW 1407
Introduction to Database (3-3) **4 Hours**
Introduction to database theory and the practical applications of a database. The student will identify database terminology and concepts; plan, define, and design a database; design and generate tables, forms, and reports; and devise and process queries. Prerequisite: CPMT 1303 or knowledge of software file management and keyboarding skills.

ITSW 1410
Presentation Media Software (3-3) **4 Hours**
Instruction in the utilization of presentation software to produce multimedia presentations. Graphics, text, sound, animation and/or video may be used in presentation development. The student will identify presentation media terminology and concepts; create presentations using text, visual and/or sound elements; use effective compositions and style; prepare presentations for distribution on computers or other media; and modify sequence and slide-master. Prerequisite: CPMT 1303 or knowledge of software file management and keyboarding skills.

ITSW 2431
Advanced Word Processing (3-3) **4 Hours**
Continuation of the study of word processing including advanced applications in merging, macros, graphics, desktop publishing, and extensive formatting for technical documents. The student will design and create macros; use advanced formatting features; import data; and use graphic and special functions to enhance documents. Prerequisite: ITSW 1401

ITSW 2434
Advanced Spreadsheets (3-3) **4 Hours**
This course is designed to provide an understanding of advanced functionality of electronic spreadsheets. The student will learn to create and design macros; use database and data analysis features; and devise solutions using linked worksheets. Prerequisite: ITSW 1404.

MRKG 1311
Principles of Marketing (3-0) **3 Hours**
Introduction to the basic marketing functions; identification of consumer and organizational needs; explanation of economics, psychology, sociological, and global issues; and description and analysis of the importance of marketing research.

POFI 2401
Word Processing (3-3) **4 Hours**
Instruction in the various aspects of a word processing software package. Emphasis on the use of text editing features to produce business documents. The student will explain and discuss the concepts of word processing including operating systems and equipment; and operate a personal computer utilizing word processing functions to produce business documents. Prerequisite: POFT 1429 or keyboarding skills.

POFI 2431
Desktop Publishing for the Office (3-3) **4 Hours**
In-depth coverage of desktop publishing terminology, text editing, and use of design principles to create publishing material using word processing desktop publishing features. Emphasis on layout techniques, graphics, and multiple page displays. The student will define desktop publishing terminology; manipulate text and graphics to create a balanced and focused layout; and create fliers, brochures, and multiple-page documents according to specified procedures.

POFM 1302
Computers in Health Care (3-0) **3 Hours**
Introduction to a computerized method for the management and operation of health care information systems for various types of medical facilities. The student will describe the purpose and value of medical software; complete computerized task performance assignments; and perform required back-ups.

POFT 1301
Business English (3-0) **3 Hours**
Introduction to a practical application of basic language usage skills with emphasis on fundamentals of writing and editing for business. The student will apply the basic rules of grammar, spelling, capitalization, number usage, and punctuation; utilize terminology applicable to technical and business writing; develop proofreading and editing skills, and write effective sentences and paragraphs for business applications.

POFT 1309
Administrative Office Procedure I (3-0) **3 Hours**
Study of current office procedures including telephone skills, time management, travel and meeting arrangements, mail processing, and other duties and responsibilities in an office environment. The student will develop time management techniques; manage incoming and outgoing mail; demonstrate appropriate telephone techniques; coordinate travel and meeting arrangements; and identify the basic skills of an office professional.

POFT 1325
Business Mathematics and Machine Applications (3-1) **3 Hours**
Skill development in the use of electronic calculators and business mathematical functions. Emphasis on business problem-solving skills using spreadsheet software and/or electronic calculator/keyboard. The student will utilize basic math skills; apply basic math skills to solve business application problems using an electronic calculator/keyboard; and develop speed and accuracy using spreadsheet software and/or electronic calculator/keyboard.

POFT 1429
Keyboarding and Document Formatting (3-3) **4 Hours**
Skill development in the operation of the keyboard by touch applying proper keyboarding techniques. Emphasis on development of acceptable speed and accuracy levels and formatting basic documents. The student will demonstrate proper keyboarding techniques including touch technique; demonstrate an acceptable level of keyboarding skills with a minimum speed of 30 word per minute(wpm) with minimum proficiency; apply proofreading and editing skills; and create basic business documents.

POFT 2312
Business Correspondence and Communications (3-0) **3 Hours**
Skill development in practical applications which emphasize the improvements of writing.skills necessary for effective business communications. The student will compose and produce effective business communications appropriate to industry needs; apply critical evaluation techniques to business communications; and recognize the importance of coherent, ethical communication principles in business and industry. Prerequisite: POFT 1301 or permission of instructor.

POFT 2333
Advanced Document Formatting and Skill Building (2-4) 3 Hours
Study of advanced concepts in a variety of office-simulated correspondence activities with emphasis on organization, prioritizing, decision making, composition, placement, accuracy and speed development. The student will apply mailability standards according to a specified procedure manual; use proofreading and editing skills; and implement decision-making skills. Prerequisite: POFT 1429 and POFT 2401.

POFT 2380
Cooperative Education-Administrative/Secretarial Science, General (1-0-20) 3 Hours
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through work experience. This course may be repeated if topics and learning outcomes vary. As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable technical language of the occupation and the business or industry. Prerequisite: Two Business Applications courses.

POFT 2401
Document Formatting and Skill Building (3-3) 4 Hours
A continuation of keyboarding skills in document formatting, speed, and accuracy. Emphasis on proofreading, editing, and following instructions, and key documents from various copy. The student will apply mailability standards to document production; use proofreading and editing skills; and format and produce a variety of business documents using word processing software. Prerequisite: POFT 1429, ITSW 1401, or equivalent.

POFT 2431
Administrative Systems (3-3) 4 Hours
Experience in project management and office procedures utilizing integration of previously learned skills. The student will select appropriate materials, procedures, and equipment for assigned tasks; and manage business projects using current technology, critical thinking, and problem-solving skills. Prerequisite: (ITSC 1409 and ITSC 2421) or (ITSW 1404, ITSW 1401 ITSW 1407 ITSW 1410).

CHEMISTRY

Dean:	Margaret Wade	125 SF	685-4615
Faculty:	John Anderson	127 SF	685-4620
	Banay Newton	136 SF	685-4568
	Glen Richardson	139 SF	685-4636
Division Secretary:	Norma Duran	124 SF	685-4612

Courses in this program are designed to fulfill the requirements for a major in chemistry. Any student who intends to transfer to another college or university is advised to consult the college catalog and the transfer requirements of that school. Different schools and different departments may have special conditions that might affect the choice of courses.

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: MATH 1316 or MATH 2412 or higher, PHYS 1401 and PHYS 1402 or PHYS 2425 and PHYS 2426

Suggested Courses for Field of Study **16 Semester Credit Hours**

CHEM 1411, CHEM 1412*, CHEM 2423*, CHEM 2425*

Related Courses **8 Semester Credit Hours**

MATH 2413*, MATH 2414*, MATH 2415*

MINIMUM SEMESTER CREDIT HOURS = 66

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

CHEM 1405
Introductory Chemistry (3-4) **4 Hours**

This survey course for non-science majors will enable these students to comprehend the fundamental concepts of chemistry and will fulfill four credit hours of the lab science requirement. (CHEM 1409) (40.0501.5103)

CHEM 1411
General Inorganic Chemistry I (3-4) **4 Hours**

This course will enable students to become proficient in stoichiometry, chemical equations, atomic structure, chemical bonding, reactions, gas laws, liquids and solids, and solutions. A knowledge of algebra is needed. (CHEM 1401) (40.0501.5203)

CHEM 1412
General Inorganic Chemistry II (3-4) **4 Hours**

This course will enable students to become proficient in acid-base theory, oxidation-reduction reactions, chemical kinetics, aqueous equilibria, electrochemistry, and organic chemistry. Prerequisite: CHEM 1411. (CHEM 1402) (40.0501.5203)

CHEM 2423
Organic Chemistry I (3-4) **4 Hours**

This course will enable students to become proficient in the reactions and mechanisms of aliphatic and aromatic hydrocarbons, and their derivatives. Prerequisite: CHEM 1412. (CHEM 2401) (40.0504.5203)

CHEM 2425
Organic Chemistry II (3-4) **4 Hours**

This course will enable students to become proficient in the reactions and mechanisms of alcohols, phenols, ethers, aldehydes and ketones, carboxylic acids, and amines. Prerequisite: CHEM 2423. (CHEM 2402) (40.0504.5203)

CHILD CARE AND DEVELOPMENT

Dean:	Becky Hammack	209a DFH	685-4600
Director:	Rita Stotts	HGC	685-4574
Division Secretary:	Kay Floyd	209b DFH	685-4600

The Child Care and Development Program offers students an in-depth study of children. The curriculum is designed to develop basic skills, attitudes, and competencies necessary for working effectively with children in group settings. Students learn by observing and participating in the on going activities of the Midland College Helen L. Greathouse Children's Center and Manor Park Child Care Center. The Helen L. Greathouse Children's Center is accredited by the National Association for the Education of Young Children. The Centers provide the necessary lab experiences which are required for all child development courses.

The Early Childhood Education field of study curriculum consists of TECA 1303, The Family and the Community; TECA 1311, Introduction to Early Childhood; TECA 1318, Nutrition, Health and Safety; and TECA 1354, Child Growth and Development. This set of courses can be taken by a student at Midland College and must be accepted in transfer to satisfy the lower division requirements for Early Childhood Education majors at any Texas public institution of higher learning. In addition to the TECA courses, a student may complete the required core requirements in order to receive an academic transfer certificate. These courses partially fulfill the requirements for a baccalaureate degree in Early Childhood Education from Texas public universities.

The degree and certificate in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate in Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: ENGL 1301, GOVT 2301 or GOVT 2302, PSYC 2301

Specialty Courses **44 Semester Credit Hours**

CDEC 1223, CDEC 1313, CDEC 1319, CDEC 1321, CDEC 1356, CDEC 1358, CDEC 1359, CDEC 2307, CDEC 2315, CDEC 2341, *CDEC 2366, TECA 1303, TECA 1311, TECA 1318, TECA 1354

Related Courses **7 Semester Credit Hours**

SPCH 1318, ITSC 1191, PSYC 2308

MINIMUM SEMESTER CREDIT HOURS = 66

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfy THEA or alternative THEA requirements.

Oral Communication: SPCH 1318

Basic Use of Computers: ITSC 1191

Basic Skills Certificate

Specialty Courses **23 Semester Credit Hours**

CDEC 1223, CDEC 1313, CDEC 1319, CDEC 2315, TECA 1303, TECA 1311, TECA 1318, TECA 1354

Related Courses **6 Semester Credit Hours**

PSYC 2301, *PSYC 2308

MINIMUM SEMESTER CREDIT HOURS = 29

Enhanced Skills Certificate

Specialty Courses **9 Semester Credit Hours**
CDEC 2326, *CDEC 2328, CDEC 2336

MINIMUM SEMESTER CREDIT HOURS = 9

Academic Transfer Certificate

Core Requirements **42 Semester Hours**
See Core Requirements, page 80

Suggested Courses for Field of Study **12 Semester Credit Hours**
TECA 1303, TECA 1311, TECA 1318, TECA 1354

MINIMUM SEMESTER CREDIT HOURS = 54

CDEC 1223
Observation and Assessment (1-2-0) **2 Hours**
This course is a study of observation skills, assessment techniques, and documentation of children's development.

CDEC 1313
Curriculum Resources for Early Childhood Programs (2-2-0) **3 Hours**
This course is a study of the fundamentals of curriculum design and implementation in developmentally appropriate programs for children.

CDEC 1319
Child Guidance (2-2-0) **3 Hours**
This course is an exploration of guidance strategies for promoting prosocial behaviors with individual and groups of children. An emphasis on positive guidance principles and techniques, family involvement and cultural influences is also covered. Practical application is gained through direct participation with children

CDEC 1321
The Infant and Toddler (2-2-0) **3 Hours**
This course is a study of appropriate infant and toddler programs, (birth to 3 years) including an overview of development, quality routines, appropriate environments, materials and activities and teaching/guidance techniques.

CDEC 1356
Emergent Literacy for Early Childhood (2-2-0) **3 Hours**
This course is an exploration of principles, methods, and materials for teaching young children language and literacy through a play-based, integrated curriculum.

CDEC 1358
Creative Arts for Early Childhood (2-2-0) **3 Hours**
This course is an exploration of principles, methods, and materials for teaching children music, movement, visual arts, and dramatic play through process-oriented experiences to support divergent thinking.

CDEC1359
Children with Special Needs (2-2-0) **3 Hours**
This course is a survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, intervention strategies, available resources, referral processes, the advocacy role and legislative issues.

CDEC 2307
Math and Science for Early Childhood (2-2-0) **3 Hours**
This course is an exploration of principles, methods, and materials for teaching children math and science concepts and process skills through discovery and play.

CDEC 2315
Diverse Cultural/Multilingual Education (2-2-0) **3 Hours**
This course is an overview of multicultural education to include relationship with the family and community to develop awareness and sensitivity to diversity related to individual needs of children.

CDEC 2326
Administration of Programs for Children I (2-4-0) **3 Hours**
This course is a practical application of management procedures for early care and education programs, including a study of planning, operating, supervising, and evaluating programs. Topics on philosophy, types of programs, policies, fiscal management, regulations, staffing, evaluation, and communication.

CDEC 2328
Administration of Programs for Children II (2-4-0) **3 Hours**
This course is an in-depth study of the skills and techniques in managing early care and education programs, including legal and ethical issues, personnel management, team building, leadership, conflict resolution, stress management advocacy, professionalism, fiscal analysis and planning parent education/partnerships, and technical applications in programs. Prerequisite: CDEC 2326.

CDEC 2336
Administration of Programs for Children III (2-4-0) **3 Hours**
This course is an advanced study of the skills and techniques in managing early child care education programs.

CDEC 2341
The School Age Child (2-2-0) **3 Hours**
This course is a study of appropriate programs for the school age child (5 to 13 years) including an overview of development, appropriate environments, materials, activities and teaching/guidance techniques.

CDEC 2366
Practicum in Child Development and Early Childhood (0-0-21) **3 Hours**
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student.

TECA 1303
Families, School and Community (3-0-0) **3 Hours**
This course is a study of the child, family, community, and schools, including parent education and involvement, family and community lifestyles, child abuse, and current family life issues. The course content must be aligned as applicable with State Board for Education Certification Pedagogy and Professional Responsibilities standards which requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with a varied and diverse populations and includes a minimum of 15 hours of field experience.

TECA 1311
Educating Young Children (3-0-0) **3 Hours**
This course is an introduction to the education of the young child, including developmentally appropriate practices and programs, theoretical and historical perspectives, ethical and professional responsibilities, and current issues. The course content must be aligned as applicable with State Board for Education Certification Pedagogy and Professional Responsibilities standards which requires students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations and includes a minimum of 15 hours of field experience.

TECA 1318
Wellnes of the Young Child (3-0-0) **3 Hours**

This course is a study of the factors that impact the well-being of the young child including healthy behavior, food, nutrition, fitness and safety practices. The focus is on local and national standards and legal implications of relevant policies and regulations. The course content must be aligned as applicable with State Board for Education Certification Pedagogy and Professional Responsibilities standards which require students to participate in field experiences with children from infancy through age 12 in a variety of settings with varied and diverse populations and includes a minimum of 15 hours of field experience.

TECA 1354
Child Growth and Development (3-0-0) **3 Hours**

This course is a study of the physical, emotional, social, and cognitive factors impacting growth and development of children through adolescence.

COMMUNICATION

Dean:	William G. Feeler	141b AFA	685-4626
Faculty:	Kent Moss	195 AFA	685-4654
	Bob Templeton	183 AFA	685-4655
Lab Instructor:	Karen Lanier	185 AFA	685-4768
Division Secretary:	Lula Lee	141 AFA	685-4624

Communication courses give a practical foundation in basic communication skills necessary for admittance to a senior college major program in journalism or mass communications. A variety of courses is offered including mass communications, reporting, editing, feature and editorial writing, photography, public relations, and advertising. The program also includes the active production of school publications.

As electives for non-communication majors, these courses serve as outlets for creative talent and school service and enable students to become more discerning consumers of the mass media.

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts or Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: One English literature course (Humanities)

Suggested Courses for Field of Study **14 Semester Credit Hours**

Two hours of COMM lab courses, COMM 1307, COMM 2311, COMM 2315, and one course from the following: COMM 1318, COMM 2301, COMM 2305, COMM 2316, COMM 2327, COMM 2330, COMM 2332 and COMM 2339

Related Courses **6-11 Semester Credit Hours**

For an Associate of Arts, add 6-8 semester credit hours of Modern Language courses and an English literature course. For an Associate of Science, add 6 semester credit hours of electives.

MINIMUM SEMESTER CREDIT HOURS = 62-67

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

COMM 1129, 1130, 2129, 2130
Publications (0-4) **1 Hour**

Working experience in publications. Students are required to be on the staff of at least one of the official college publications and to work under supervision a minimum of four hours weekly. (0904015406)

COMM 1307
Introduction to Mass Communications (3-0) **3 Hours**

A survey of American mass communication functions with emphasis on development and current trends of print media, broadcasting, advertising, and public relations. Students are encouraged to become critical media consumers as well as to explore career possibilities in mass communications. (0904035106)

COMM 1318 (ALSO ARTS 2356)
Photography I (2-4) **3 Hours**

An introductory course for beginners in black and white photography. Students learn basic techniques of camera functions, film development, print processing and design fundamentals. (5006055126)

COMM 1319 (ALSO ARTS 2357)
Photography II (2-4) **3 Hours**
A continuation of Communication 1318 with emphasis on photography applied to publications. Students work 0 with more complex subjects and techniques in order to communicate their ideas through photographic images. Prerequisite: COMM 1318. (5006055226)

COMM 1335
Survey of Radio/Television (3-0) **3 Hours**
Study of the development, regulation, economics, social impact, and industry practices in broadcasting and cable communication. Includes non-broadcast television, new technologies, and other communication systems. (0904035206)

COMM 2301
Introduction to Technology and Human Communication (3-0) **3 Hours**
A survey of emerging interactive communication technologies and their Influence on human communication, including interpersonal, group decision-making, and public and private communication contexts. (09.0101 5106)

COMM 2305
News Editing (3-3) **3 Hours**
A course in which copy editing, rewriting, proofreading, headline writing, and layout are emphasized. Lab work on newspaper and/or magazine required. Prerequisite: COMM 2309. (0904015306)

COMM 2311
News Gathering and Writing (3-3) **3 Hours**
A study of fundamental news gathering and writing in which the students learn the evaluation of news, news gathering problems, and techniques, writing leads, organizing stories, and overcoming grammatical and structural problems. Lab work on newspaper staff required. (0904015306)

COMM 2315
News Gathering and Writing II (3-0) **3 Hours**
A course in which the student learns to write newspaper and magazine feature and editorial material with emphasis on marketing of articles and research methods for article writing. Students study philosophy of news selection, ethics of communication, and responsibility in reporting. Work on the student newspaper or magazine is required. Prerequisite: COMM 2311 or consent of instructor. (0904015806)

COMM 2316
Interviewing (3-0) **3 Hours**
A course designed to enable the student to apply communication concepts in selected interview settings with emphasis on dyadic communication, questioning techniques, interview structure, and persuasion. (09.0101 5206)

COMM 2327
Principles of Advertising (3-0) **3 Hours**
An overview of the broad field of advertising. This course acquaints students with the role of advertising in the American economy and society. Students study TV, radio, print advertising functions, and support advertising forms such as direct mail, transit, and outdoor media. Students create ads as part of an advertising campaign project. (0902015126)

COMM 2330
Introduction to Public Relations (3-0) **3 Hours**
A course exploring the history and development of public relations and presenting the theory and process of public relations-including the planning, implementation, and evaluation of PR campaigns. (09.0902 5106)

COMM 2332
Radio/Television News (3-0) **3 Hours**
Preparation and analysis of news styles for the electronic media. (0904025206)

COMM 2339
Writing for Radio, Television, & Film (3-0) **3 Hours**
Introduction to basic script formats, terminology, and writing techniques, including the writing of commercials, public service announcements, promotions, news, documentary, and fictional materials. (0904025106)

COMPUTER GRAPHICS TECHNOLOGY (DRAFTING)

Dean:	Curt Pervier	143 T	685-4677
Faculty:	Joseph Nye	ATC	697-5863 ext. 3614
Division Secretary:	Sidney Wristen	143 T	685-4676

The Computer Graphics program is designed to teach students the schematic symbols and codes common to the universal language of graphics. The student will develop graphic skills applicable to practical problems in design, estimating, inspection, and illustration of complex assemblies of electrical, mechanical and scientific equipment. The program will provide students with organized learning experiences, including theory, use of computer graphic equipment, laboratory and shop work as each relates to the production of working drawings.

A graduate of the Computer Graphics program will find excellent opportunities for employment in the field of process piping, structural, architectural, machine, mapping and desktop publishing. The state of the art experience provided by the computer graphics curriculum will give the graduate the extra edge needed for placement and/or advancement.

The degrees and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80
Required Core Course(s) for this degree: ENGL 1301

Specialty Courses **36 Semester Credit Hours**

*DFTG 1302, DFTG 1305 , *DFTG 1309, *DFTG 2340, eight specialty electives

Related Courses **14 Semester Credit Hours**

BMGT 1305, MCHN 1320, two KINE activity courses, and six hours of approved related electives.

MINIMUM SEMESTER CREDIT HOURS = 65

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirement.
Oral Communication: BMGT 1305
Basic Use of Computers: Specialty courses.

Computer Graphics Certificate

Specialty Courses **21 Semester Credit Hours**

*DFTG 1302, DFTG 1305, *DFTG 1309, DFTG 2338, *DFTG 2340, and two specialty electives

MINIMUM SEMESTER CREDIT HOURS = 21

Computer Integrated Manufacturing Certificate

Specialty Courses **21 Semester Credit Hours**

*DFTG 1309, MCHN 1308, MCHN 1319, MCHN 1320, RBTC 2235, RBTC 2447, RBTC 2345

MINIMUM SEMESTER CREDIT HOURS = 21

ARTC 1313
Digital Publishing I (2-4) **3 Hours**
The fundamentals of using digital layout as a primary publishing tool and the basic concepts and terminology associated with typography and page layout.

ARTC 1341
3-D Animation I (2-4) **3 Hours**
Instruction in 3 Dimensional modeling and rendering techniques including lighting, staging, camera, and special effects. Emphasis on 3-D modeling and building blocks using primitives to create simple or complex objects. Pre-requisite: DFTG 2340

ARTC 2341
3-D Animation II (2-4) **3 Hours**
Skill development in three dimensional modeling and rendering techniques using lighting, staging, and special effects for digital output. Emphasis on the production of the three dimensional animation as final digital outputting using modeling, rendering and animation software. Pre-requisite: ARTC 1341

DFTG 1302
Introduction to Technical Animation and Rendering (2-4) **3 Hours**
This course introduces the basic terminology and concepts associated with the development of computer modules used in technical computer animation. Topics include basic animation principles, model creation, light sources, camera positioning, rendering as well as importing and modification of external files. Course projects reflect current practices in the architectural, engineering, or construction disciplines. Prerequisite: DFTG 2340 Software: 3D Studio, MAX, AUTODESK, VIZ

DFTG 1305
Technical Drafting (2-4) **3 Hours**
Introduction to the principles of drafting to include terminology and fundamentals, projection methods, geometric construction, sections, auxiliary views, and reproduction processes.

DFTG 1309
Basic Computer-Aided Drafting (2-4) **3 Hours**
An introduction to basic computer-aided drafting. Emphasis is placed on drawing setup; creating and modifying geometry; storing and retrieving predefined shapes; placing, rotating, and scaling objects, adding text and dimensions, using layers, coordinating systems; as well as input and output devices. Corequisite: DFTG 1305. Software: AUTOCAD 2005

DFTG 1317
Architectural Drafting - Residential (2-4) **3 Hours**
Architectural drafting procedures, practices, and symbols, including preparation of detailed working drawings for residential structure with emphasis on light frame construction methods. Prerequisite: DFTG 1309. Software: AUTOCAD 2005, Architectural Desktop 2005

DFTG 1341
Intermediate Technical Animation and Rendering (2-4) **3 Hours**
Procedures in the manipulation and control of lights, cameras, materials, texturing and rendering techniques used in technical animation; topics include introductory keyframing and lens effects principles. Prerequisite: DFTG 1302, Software: 3D STUDIO, VIZ, AUTODESK VIZ, 3D STUDIO MAX.

DFTG 1391
Special Topics in Drafting (2-4) **3 Hours**
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

DFTG 2302
Machine Drafting (2-4) **3 Hours**
Production of detail and assembly drawings of machines, threads, gears, cams, tolerances and limit dimensioning, surface finishes, and precision drawings. Prerequisite: DFTG 1309. Software: AUTOCAD 2005

DFTG 2306
Machine Design (2-4) **3 Hours**
Theory and practice of design. Projects in problem-solving, including press fit, bolted and welded joints, and transmission components. Prerequisite: DFTG 2302 Software: AUTOCAD 2005, Inventor

DFTG 2321
Topographical Drafting (2-4) **3 Hours**
Plotting of surveyors field notes, plotting elevations, contour drawings, plan and profiles, and laying out traverses. Develop map data using specific software. Prerequisite: DFTG 1309 Software: AUTOCAD 2005

DFTG 2323
Pipe Drafting (2-4) **3 Hours**
A study of pipe fittings, symbols, specifications and their applications to a piping process system. This application will be demonstrated through the creation of symbols and their usage in flow diagrams, plans, elevations, and isometrics. Prerequisite: DFTG 1309 Software: AUTOCAD 2005

DFTG 2330
Civil Drafting (2-4) **3 Hours**
An in-depth study of drafting methods and principles used in public works civil engineering. Prerequisite: DFTG 2321 Software: AUTOCAD 2005, Civil Series/GIS

DFTG 2331
Advanced Technology In Architectural Design & Drafting (2-4) **3 Hours**
Use of Architectural specific software to execute the elements required in designing standard architecture exhibits utilizing custom features to create walls, windows and specific design requirements for construction in residential and light commercial architecture. Prerequisite: DFTG 1371 Software: Architectural Desktop

DFTG 2338
Final Project-Advanced Drafting (1-4) **3 Hours**
A comprehensive project course in which the student will develop a project from conception to conclusion. Prerequisite: DFTG 1302 or consent of instructor. Capstone course.

DFTG 2340
Solid Modeling/Design (2-4) **3 Hours**
A computer-aided modeling course. Development of three-dimensional drawings and models from engineering sketches and orthographic drawings and utilization of three-dimensional models in design work .Prerequisite: DFTG 1309 Software: AUTOCAD 2005

DFTG 2345
Advanced Pipe Drafting (2-4) **3 Hours**
A continuation of pipe drafting concepts building on the basic principles acquired in pipe drafting, process flow diagrams; solve design implementation problems; apply appropriate codes and standards. Prerequisite DFTG 2323 Software: AUTOCAD 2005, CADWORX and P&ID

DFTG 2371
Exploration Graphics (2-4) **3 Hours**
An advanced course dealing with the techniques involved in plotting surveyor's notes, traverses, profiles, isometric sections, advanced projections, cross sections, and subsurface contours. The student will have the skill and knowledge to properly reproduce and display exploration data on a map while using a CAD system. Prerequisite: DFTG 1309 and 2321. Software: AUTOCAD 2005, Survey, Map and Civil Design

DFTG 2380 & 2381
Cooperative Work Experience, I, II (1-0-20) **3 Hours**
This course is a study of the basic career-related activities encountered in the area of Drafting. The individual is required to work for wages in a Drafting trade area for at least 20 hours per week under the supervision of the college and employer. Seminar meets one hour per week. Prerequisites: Approval of Dean and concurrent enrollment in a Drafting-related course.

GRPH 1359
Object Oriented Computer Graphics (2-4) **3 Hours**
Mastery of the tools and transformation options of an industry standard draw program to create complex illustrations and follow them through to the color output stage. Mastery in the use of basic elements of good layout and design principles and use of the capabilities specific to vector (object oriented) drawing software to manipulate both text and graphics with emphasis on the use of bezier curves. Acquisition of images via scanning and the creative use of clip art is included.

MCHN 1308
Basic Lathe (2-4) **3 Hours**
An introduction to the common types of lathes. Emphasis on basic parts, nomenclature, lathe operations, safety, machine mathematics, blueprint reading, and theory.

MCHN 1319
Manufacturing Materials and Processes (2-4) **3 Hours**
A basic study of various materials used in the metals industry and the chemical, physical, and mechanical properties of various metals. Emphasis on manufacturing processes, including casting, forming, machining, and molding.

MCHN 1320
Precision Tools and Measurement (3-0) **3 Hours**
An introduction to the modern science of dimensional metrology. Emphasis on the identification, selection, and application of various types of precision instruments associated with the machining trade. Practice of basic layout and piece part measurements while using standard measuring tools.

RBTC 2235
NC/CNC Programming (1-4) **2 Hours**
A study of the principles and concepts of numerical control through computer applications, specifically in the area of programming for the control of machine tools in CIM.

RBTC 2345
Robot Application, Set-up, and Testing (2-4) **3 Hours**
A capstone course that provides the student with laboratory experience in the installation, set-up, and testing of robotic cells. Topics include maintenance.

RBTC 2447
Computer Integrated Manufacturing (2-6) **4 Hours**
The principles of computer integrated manufacturing, including case studies and implementation of process control techniques. CAD/CAM, operations, software, and networking for CIM systems.

COSMETOLOGY

Dean:	Becky Hammack	209a DFH	685-4600
Program Director:	Beverly B. Prichard	228a DFH	685-6440
Faculty:	J. Michael Fields	161 T	685-6723
Division Secretary:	Kay Floyd	209b DFH	685-4600

Midland College offers a two-year cosmetology program leading to the degree of Associate in Applied Science, and Manicurist, Operator, and Instructor's certificate options. Satisfactory completion of the program prepares the graduate to take the Texas Cosmetology Commission examination.

A class is admitted each Fall and Spring. The degree and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the division office to obtain additional information and/or acquire a degree or certificate plan.

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Specialty Courses **42 Semester Credit Hours**

CSME 1443, CSME 1505, CSME 1553, CSME 2302, CSME 1447, CSME 1410, CSME 2410, CSME 2401, CSME 1254, CSME 2441, CSME 2343

Related Courses **12 Semester Credit Hours**

POFT 1232, BUSI 1301, BUSI 2301, ITSC 1409

MINIMUM SEMESTER CREDIT HOURS = 69

Graduates of this AAS program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfy THEA or alternative THEA requirements.

Oral Communication: one Communications Core course

Basic Use of Computers: ITSC 1409.

Cosmetology Operator Certificate

Specialty Courses **42 Semester Credit Hours**

CSME 1443, CSME 1505, CSME 1553, CSME 2302, CSME 1447, CSME 1410, CSME 2410, CSME 2401, CSME 1254, CSME 2441, CSME 2343

Cosmetology Instructor Certificate

Specialty Courses **32 Semester Credit Hours**

CSME 1535, CSME 1534, CSME 2514, CSME 2515, CSME 2544, CSME 2445, CSME 2337

Cosmetology Manicuring Specialty Certificate

Specialty Courses **16 Semester Credit Hours**

CSME 1430, CSME 1431, CSME 1441, CSME 2430

Suggested Course Progression for AAS Degree

The following is the suggested sequence of cosmetology courses in the Cosmetology program.

First Year, Fall Semester
CSME 1443, CSME 1505, CSME 1553, CSME 2302
First Year, Spring Semester
CSME 1447, CSME 1410, CSME 2410, CSME 2401
First Year, Summer Semester
CSME 1254, CSME 2441, CSME 2343

ADMISSION REQUIREMENTS

The Midland College Cosmetology program has a limited enrollment based on specific admission criteria. For information regarding the admission criteria call the Health Sciences Division office.

For the Cosmetology Instructors Certificate the student must have a valid operator license, high school diploma or GED, and be at least 18 years of age. A physical examination and current immunizations are required after admission but prior to beginning cosmetology courses. Health insurance is required.

CSME 1254
Artistry of Hair Design I (0-7-0) **2 Hours**
Introduction to hair design. Topics include the theory and applications of wet styling, thermal hair styling, and finishing techniques.

CSME 1410
Introduction to Hair Care and Related Theory (2-8-0) **4 Hours**
This is an introductory course to the theory and practice of hair cutting. Topics will include terminology, implements, sectioning and finishing techniques.

CSME 1430
Orientation of Nail Technology (2-8-0) **4 Hours**
This course offers an overview of the fundamental skills and knowledge necessary for the field of nail technology.

CSME 1431
Principles of Nail Technology I (2-8-0) **4 Hours**
This is a course in the principles of nail technology. Topics will include anatomy, physiology, theory, and skills related to nail technology.

CSME 1441
Principles of Nail Technology II (2-8-0) **4 Hours**
This course is an exploration of salon development. Topics will include professional ethics and goals, salon operation, and record keeping.

CSME 1443
Manicuring and Related Theory (2-5-0) **4 Hours**
This course is a presentation of the theory and practice of nail technology. Topics will include terminology, application, and workplace competencies related to nail technology.

CSME 1447
Principles of Skin Care/Facials and Related Theory (2-5-0) **4 Hours**
This course will include in-depth coverage of the theory and practice of skin care, facials, and cosmetics.

CSME 1505
Fundamentals of Cosmetology (3-8-0) **5 Hours**
This is a course in the basic fundamentals of cosmetology. Topics will include service preparation, manicure, facial, chemical services, shampoo, haircut, wet styling, and comb out.

CSME 1534
Cosmetology Instructor I (3-8-0) **5 Hours**
This course covers the fundamentals of instructing cosmetology students.

CSME 1535
Orientation to the Instruction of Cosmetology (3-8-0) **5 Hours**
This is an overview of the skills and knowledge necessary for the instruction of cosmetology students.

CSME 1553
Chemical Reformation and Related Theory (3-8-0) **5 Hours**
This course is a presentation of the theory and practice of chemical reformation including terminology, application, and workplace competencies.

CSME 2302
Introduction to Application of Hair Color (3-4-0) **3 Hours**
This course covers an introduction of various basic hair color applications including all safety and sanitation procedures.

CSME 2337
Advanced Cosmetology Techniques (1-8-0) **3 Hours**
This course covers a mastery of advanced cosmetology techniques including hair designs, professional cosmetology services, and workplace competencies.

CSME 2343
Salon Development (2-3-0) **3 Hours**
This course is an exploration of salon development. Topics will include professional ethics and goals, salon operation, and record keeping.

CSME 2401
Principles of Hair Color & Related Theory (2-8-0) **4 Hours**
The course is a presentation of the theory, practice, and chemistry of hair color. Topics will include terminology, application, and workplace competencies related to hair color.

CSME 2410
Advanced Hair Cutting and Related Theory (2-8-0) **4 Hours**
This course covers advanced concepts and practice of haircutting. Topics will include haircuts utilizing scissors, razor, and/or clippers.

CSME 2430
Nail Enhancement (2-8-0) **3 Hours**
This course covers the theory, application, and related technology of artificial nails.

CSME 2441
Preparation for Texas Cosmetology Commission Exam (2-5-0) **4 Hours**
This course will prepare the student to take the Texas Cosmetology Commission Operator Examination.

CSME 2445
Instructional Theory and Clinic Operations (2-8-0) **4 Hours**
This course is an overview of the objectives required by the Texas Cosmetology Commission Instructor Examination.

CSME 2514
Cosmetology Instructor II (3-8-0) **5 Hours**
This course is a continuation of the fundamentals of instructing cosmetology students.

CSME 2515
Cosmetology Instructor III (3-8-0) **5 Hours**
This course covers presentation of lesson plan assignments and evaluation techniques.

CSME 2544
Cosmetology Instructor IV (3-8-0) **5 Hours**
This course covers advanced concepts of instruction in a cosmetology program. Topics will include demonstration, development, and implementation of advanced evaluation and assessment techniques.

CRIMINAL JUSTICE

Dean:	Gavin Frantz	142 T	685-4657
Faculty:	Robert Peetz	174 T	685-4685
	rpeetz@midland.edu		
Division Secretary:	Leslie Montez	142 T	685-6447

For program information please call (432) 685-4685.

Policing a community is one of the most complex responsibilities any governmental agency faces. Today's police officers, and those of the future, must be intelligent, articulate, mature, and knowledgeable about social and political conditions. They must understand legal issues, human nature, social problems and attitudes that differ from their own. Becoming a police officer is best accomplished through a combination of education and training. During training, individuals learn specific job-related skills. The goal of a college program, on the other hand, is to provide an intensive educational experience that develops ideas and promotes creative scholarship. Higher education has two important roles in police work: to carry education beyond the classroom in ways that encourage reform; and encourage a more humanistic approach to police work. To accomplish this goal and fulfill these roles, Midland College offers structured degree options designed to challenge students, facilitate learning, promote critical thinking and problem solving skills, and provide an impetus for life-long learning.

The Associate of Science (AS) degree is designed for students pursuing a baccalaureate degree with a major or minor in criminal justice or a related field. Students may elect to focus on law enforcement or corrections. The Associate of Applied Science (AAS) degree is intended as a non-transfer two-year degree. The AAS degree has a greater concentration of criminal justice courses and fewer academic course requirements than the AS degree. Earning the AAS degree may qualify the graduate for admission into a Bachelor of Applied Technology or Bachelor of Applied Science program at certain colleges or universities. A Law Enforcement Certificate is also offered for individuals who need to document certain course work but do need or desire a degree.

This is a Tech-Prep program that provides students with opportunities to gain advanced technical skills. Students may receive college credit for approved courses taken during high school. High school students should discuss this option with their counselor. Others may contact the program coordinator at Midland College for information.

The courses listed below are suggested for students who wish to earn an Associate of Science degree at Midland College. An official degree plan must be filed before graduation. For additional information on degree plans, contact the program coordinator or Dean listed above.

The Texas Higher Education Coordinating Board has designated five courses in the Criminal Justice Field of Study (CJ FOS). These courses, identified below, comprise a core of courses that are guaranteed to transfer to upper-level institutions and apply towards a baccalaureate degree in criminal justice. The transferability of other courses is within the discretion of the upper-level institution. Implementation of the CJ FOS does not affect the number of courses or credit hours required for completing a degree or certificate at Midland College.

Associate of Science

Students transferring to another institution should follow this degree plan.

Core Requirements **43 Semester Credit Hours**

See Core Requirements on page 80. Specific course requirements for this degree include: MATH 1314; PSYC 2301 or SOCI 1301; SPCH 1311; two KINE activity courses.

Criminal Justice Field of Study **21 Semester Credit Hours**

Required: CRIJ 1301; CRIJ 1306; CRIJ 1310; CRIJ 2313; CRIJ 2328*; and any two of the following: CRIJ 1307; CRIJ 1313; CRIJ 2301; CRIJ 2314; CRIJ 2323.

MINIMUM SEMESTER CREDIT HOURS = 64

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.
Oral Communication: SPCH 1311
Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

LAW ENFORCEMENT

The Associate of Applied Science - Law Enforcement (AAS) degree option gives students greater flexibility in course work, having more electives, a greater number of criminal justice courses and fewer academic courses than the Associate of Science Degree. Graduates from an accredited college or university holding a baccalaureate degree may receive an AAS degree in Law Enforcement upon successful completion of thirty (30) semester hours of criminal justice courses and by completing appropriate leveling courses as determined by the Dean or program coordinator.

The degrees and certificate in this field offered by Midland College and the courses needed to achieve these credentials are included in the following sections. Please note that courses which require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **29 Semester Credit Hours**

See Core Requirements on page 80. Specific course requirements for this degree include: ENGL 1301; ENGL 1302; SPCH 1311; GOVT 2301; GOVT 2302; SOCI 1301; PSYC 2301; two KINE activity courses.

Specialty Courses **36 Semester Credit Hours**

Required: CRIJ 1301; CRIJ 1306; CRIJ 1307; CRIJ 1310; CRIJ 2313; CRIJ 2314; CRIJ 2323; CRIJ 2328*; CJSA 2323; and three specialty course electives from the following: any CRIJ/CJSA/CJCR/CJLE course; LGLA 1301; LGLA 1345; LGLA 1349; LGLA 2305; LGLA 2331.

MINIMUM SEMESTER CREDIT HOURS = 65

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.
Oral Communication: SPCH 1311
*Basic Use of Computers: The student must demonstrate the ability to use computers. The requirements can be met by ITSC 1409 or testing, college or high school course. All course work must be approved by the Dean.

Law Enforcement Certificate

Specialty Courses **21 Semester Credit Hours**

Required: CRIJ 1301; CRIJ 1306; CRIJ 1310; CRIJ 2313; CRIJ 2328*; plus any two CRIJ/CJSA/CJCR/CJLE courses.

Related Courses **5 Semester Credit Hours**

GOVT 2301; two KINE activity courses

MINIMUM SEMESTER CREDIT HOURS = 26

CJLE 1327
Interviewing and Report Writing for Criminal Justice Professions (3-0) 3 Hours
Instruction and skill development in interviewing, note-taking, and report writing in the criminal justice context. Topics include development of skills to conduct investigations by properly interviewing witnesses, victims and suspects and organizing information regarding incidents into effective written reports.

CJLE 1333
Traffic Law and Investigation (3-0) 3 Hours
Instruction in the basic principles of traffic control, traffic law enforcement, court procedures, traffic law and the police role in accident investigation and traffic supervision, with an emphasis on the need for a professional approach in dealing with traffic law violators. Texas statutes will be used as illustrations.

CJSA 1382, 2382
Cooperative Education - Criminal Justice Studies (1-0-20) 3 Hours
Career-related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and employer, the student combines classroom learning with work experience. Specific learning objectives directly related to a technical discipline guide the student through the paid work experience.

CJSA 2323
Criminalistics (3-0) 3 Hours
A study of the theory and practice of crime scene investigations. Topics include report writing; blood and other body fluids; document examination; etchings; casts and molds; glass fractures; use of microscope; use of the Metric system and firearms identification.

CRIJ 1301
Introduction to Criminal Justice (3-0) 3 Hours
Introduction to the criminal justice system. Topics include the history, philosophy and ethical considerations of criminal justice; definitions of crime and development of appropriate vocabulary; the nature and impact of crime; components of the criminal justice system and an introduction to law and legal concepts. (4301045124)

CRIJ 1306
Court Systems and Practices (3-0) 3 Hours
A study of the role of the judiciary in the criminal justice system. Topics include the structure of the Texas court system; prosecution of offenders; the right to counsel; pretrial release; grand jury processes; the adjudication of crimes; rules of evidence and sentencing using Texas statutes as illustrations. (2201015424)

CRIJ 1307
Crime in America (3-0) 3 Hours
The study of crime problems and theories in historical perspective. Topics include social and other factors affecting crime; the impact of crime on society; crime trends; social characteristics of specific crimes; crime prevention and the crime victim. (4504015225)

CRIJ 1310
Fundamentals of Criminal Law (3-0) 3 Hours
A study of the nature of criminal law. Topics include the philosophical and historical development of law; major definitions and concepts; classifications of laws and penalties and criminal responsibility using Texas statutes as illustrations. (2201015324)

CRIJ 1313
Juvenile Justice Systems (3-0) 3 Hours
A study of the juvenile court process. Topics include specialized juvenile law; the roles of the juvenile court, police agencies and correctional agencies; theories concerning causes and treatment of delinquency using Texas statutes as illustrations. (4301045224)

CRIJ 2301
Community Resources in Corrections (3-0) **3 Hours**
An overview of diversionary practices and treatment programs utilized in the local setting. Topics include correctional theories and practices; selected models of corrections and future trends in community corrections using Texas statutes as illustrations. (4301045324)

CRIJ 2313
Correctional Systems and Practices (3-0) **3 Hours**
A study of the role of corrections in the criminal justice system. Topics include the history of corrections; organization and theory of correctional systems; institutional operations; alternatives to institutionalization; treatments and rehabilitation and current and future trends in correction. (4301045424)

CRIJ 2314
Criminal Investigation (3-0) **3 Hours**
A study of the theory of criminal investigations. Topics include the historical development of investigative techniques; the collection and preservation of evidence; sources and techniques of gathering information; the use of forensic science in criminal investigations; methods of conducting investigations and preparing cases for trial. (4301045524)

CRIJ 2323
Legal Aspects of Law Enforcement (3-0) **3 Hours**
A study of the legal authority of the police. Topics include responsibilities of and restraints upon the police; constitutional aspects of police work; laws of arrest, search and seizure and police liability using Texas statutes and cases as illustrations. (4301045624)

CRIJ 2328
Police Systems and Practices (3-0) **3 Hours**
An examination of police work as a profession. Topics include the organization of law enforcement systems; police discretion; ethics; police-community relations and current and future issues facing law enforcement professionals. This course is the capstone course for Associate of Applied Science - Law Enforcement degrees. (4301045724)

DEVELOPMENTAL STUDIES

Coordinator:	Peggy Wood	112 SF	685-4667
Assistant Coordinator:	James E. Fuller	114 SF	685-4625
Developmental ESL:	Mike Makowsky	136 T	685-5593

DVLP 0190
Strategic Studies (1-0) **1 Hour**

DVLP 0290
Strategic Studies (2-0) **2 Hours**

DVLP 0390
Strategic Studies (3-0) **3 Hours**

The Strategic Studies courses are especially recommended for students who have been out of school for several years, for students who have failed one or more sections of THEA/COMPASS, or for those students who have been placed on scholastic probation or scholastic enrollment restriction.

Strategic Studies is a course designed to teach students how to enhance their prospects of being successful in college. The techniques that are taught include general-purpose learning strategies such as note taking, organization, time management, identifying and learning methods of avoiding procrastination, reading/comprehension, attention/listening, problem solving and critical thinking, encoding and retrieval, test taking, test preparation, tests/test anxiety, group and cooperative learning, memory, motivation, writing and proofing. In addition, content specific strategies include English, general science, chemistry, business, philosophy, political science, history, and psychology. Computer related activities and instruction complement traditional methods of instruction. The course may be taken in one credit hour or two credit hour modules on a flexible entry basis. (3201015235)

DVLP 0393
Developmental ESL: Speaking and Listening (3-3) **3 Hours**
This course is designed to develop basic English conversational skills in American cultural, employment, academic, and day-to-day situations for the beginning ESL student. Pronunciation, vocabulary, and simple sentence patterns will be emphasized. Lab assignments will be individualized. (3201085512)

DVLP 0394
Developmental ESL: Reading and Vocabulary (3-3) **3 Hours**
This course is designed to develop basic reading comprehension, vocabulary, and study skills for non-native speakers of English and to prepare them for success in college. Lab assignments will be individualized. (3201085612)

DVLP 0395
Developmental ESL: Grammar and Writing (3-3) **3 Hours**
This course is designed to develop basic writing skills, including Standard English usage, and the application of grammar for non-native speakers of English in preparation for both academic and every-day writing. Lab assignments will be individualized. (3201085712)

DVLP 0396
Developmental ESL: Composition (3-3) **3 Hours**
This course is designed to develop skills in expository writing and to prepare the advanced ESL student for college level composition. Vocabulary building, writing, literature, diction, and logical thinking will be emphasized. Lab assignments will be individualized. (3201085412)

For additional developmental courses, see:

English (ENGL 0370 and ENGL 0170, ENGL 0371 and ENGL 0171, ENGL 0280, ENGL 0181, ENGL 0182)

Mathematics (Math 0190, MATH 0191, MATH 0389, MATH 0390, MATH 0391)

Reading (READ 0370 and READ 0170, READ 0371 and READ 0171, READ 0180, READ 0181, READ 0182)

DIAGNOSTIC MEDICAL SONOGRAPHY

Dean:	Becky Hammack	209a DFH	685-4600
Program Director:	Elizabeth Brown	A35 AMS	685-5572
Division Secretary:	Kay Floyd	209b DFH	685-4600

Diagnostic Medical Sonography is an allied health specialty utilizing high frequency sound waves to aid in the diagnosis of disease. Sonographers are important members of the diagnostic imaging team. The sonographer works independently to obtain appropriate images of anatomy and pathology and conveys this information to physicians to assist in the care and treatment of patients.

The Diagnostic Medical Sonography program is designed to provide the necessary education through academic instruction and professional training to develop advanced medical imaging skills and prepare the graduate for employment in the field of sonography. Applicants with prior associate in applied science degrees in radiography, respiratory care, nuclear medicine and/or nursing are eligible for an advanced technical certificate.

A class is admitted each fall. Applicants are encouraged but not required to complete as many non-sonography courses as possible prior to entering the program. Accepted students must take all sonography courses in sequential order and must pass all required courses with a minimum grade of "C".

The degree and certificate in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 20 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: BIOL 2401, BIOL 2402, MATH 1314, PSYC 2301, SPCH 1318

Specialty Courses **41 Semester Credit Hours**

DMSO 1302, DMSO 1360, * DMSO 1361, DMSO 1405, *DMSO 1442, *DMSO 2345, DMSO 2351, *DMSO 2353, *DMSO 2354, *DMSO 2405, *DMSO 2460, *DMSO 2461

Related Courses **8 Semester Credit Hours**

PHYS 1401, ENGL 1301 or POFT 1301, ITSC 1191

MINIMUM SEMESTER CREDIT HOURS = 69

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfy THEA or alternative THEA requirements

Oral Communication: SPCH 1318

Basic Use of Computers: ITSC 1191

Diagnostic Medical Sonography Certificate

Specialty Courses **41 Semester Credit Hours**

DMSO 1302, DMSO 1360, *DMSO 1361, DMSO 1405, *DMSO 1442, *DMSO 2345, DMSO 2351, *DMSO 2353, *DMSO 2354, *DMSO 2405, *DMSO 2460, *DMSO 2461

Related Courses **7 Semester Credit Hours**

PHYS 1401, MATH 1314

MINIMUM SEMESTER CREDIT HOURS = 48

Course Progression

The following is the **required** sequence of sonography courses in the Diagnostic Medical Sonography program.

First Year, Spring Semester
DMSO 1302, DMSO 1405, DMSO 1360
First Year, Summer Semester
DMSO 1361, DMSO 2405
Second Year, Fall Semester
DMSO 1442, DMSO 2353, DMSO 2460
Second Year, Spring Semester
DMSO 2345, DMSO 2351, DMSO 2354, DMSO 2461

ADMISSION REQUIREMENTS

The Midland College Diagnostic Medical Sonography program has a limited enrollment based on specific admission criteria. For information regarding the admission criteria call the Health Sciences Division office. Each prospective student will be counseled by sonography program faculty as scheduled through the Health Sciences office.

A physical examination and current immunizations are required after admission but prior to beginning sonography courses. Health insurance is required. Students must be certified in cardiopulmonary resuscitation (CPR).

DMSO 1302
Basic Ultrasound Physics (3-0-0) **3 Hours**
This course covers basic acoustical physics and acoustical waves in human tissue with an emphasis on ultrasound transmission in soft tissues, attenuation of sound energy, parameters affecting sound transmission, and resolution of sound beams.

DMSO 1360
Clinical I (0-0-15) **3 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

DMSO 1361
Clinical II (0-0-18) **3 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: DMSO 1360.

DMSO 1405
Sonography of Abdominopelvic Cavity (3-2-0) **4 Hours**
This course is a detailed study of normal and pathological abdominal and pelvic structures as related to scanning techniques, patient history, and laboratory data, transducer selection, and scanning protocols.

DMSO 1442
Intermediate Ultrasound Physics (3-3-0) **4 Hours**
This course is a continuation of the study of acoustical physics. Topics include interaction of ultrasound with tissues, the mechanics of ultrasound production and display, various transducer designs and construction, quality assurance, bioeffects and image artifacts. Methods of Doppler flow analysis may be introduced. Prerequisite: DMSO 1302.

DMSO 2345
Advanced Sonography Practices (3-0-0) **3 Hours**
This course covers advanced sonographic procedures and special topics. A review of previously covered material is included. Vascular methodology, case studies, and film critique are also discussed.

DMSO 2351
Doppler Physics (3-0-0) **3 Hours**
This course emphasizes Doppler and hemodynamic principles relating to arterial and venous imaging and testing.

DMSO 2353
Sonography of Superficial Structures (3-0-0) **3 Hours**
This course is a detailed study of normal and pathological superficial structures as related to scanning techniques, patient history, and laboratory data, transducer selection, and scanning protocols. Prerequisite: DMSO 2405

DMSO 2354
Neurosonology (3-0-0) **3 Hours**
This course is a detailed study of normal and pathological neonatal head structure. Vascular methodology will be discussed. Prerequisite: DMSO 2353.

DMSO 2405
Sonography of Obstetrics/Gynecology (4-1-0) **4 Hours**
This course is a detailed study of the pelvis and obstetrics/gynecology as related to scanning techniques, patient history and laboratory data, transducer selection, and scanning protocols. Prerequisite: DMSO 1405.

DMSO 2460
Clinical III (0-0-23) **4 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: DMSO 1361.

DMSO 2461
Clinical IV (0-0-22) **4 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: DMSO 2450.

DRAFTING

(See Computer Graphics Technology)

DRAMA

Dean:	William G. Feeler	141b AFA	685-4626
Faculty:	David Allen	130 AFA	686-4205
Division Secretary:	Lula Lee	141 AFA	685-4624

The Midland College student in theatre has an opportunity to study, work, and perform with a staff of professionals. All aspects of both the academic and the production aspects of theatre are studied in depth, and students are given the opportunity to practically apply their studies by participating in Midland College and Midland Community Theatre productions. All phases of theatre production are explored in a healthy, supportive, and artistic environment. The course of study enables the student to be properly prepared for more advanced study.

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: DRAM 2361 or DRAM 2362, one English Literature course (Humanities)

Suggested Courses for Field of Study **13 Semester Credit Hours**

DRAM 1330, DRAM 1351, DRAM 1120, DRAM, 1121, DRAM 2120, DRAM 2121 and a choice of DRAM 1310, DRAM 1352*, DRAM 2336 and DRAM 2366

Related Courses **9-11 Semester Credit Hours**

For Associate of Arts, ENGL 2307 (Play writing) and 6-8 semester credit hours of Modern Language courses.

For Associate of Science, ENGL 2307 (Play writing), three additional hours of Drama, and three hours of electives.

MINIMUM SEMESTER CREDIT HOURS = 64-66

Graduates of this program must demonstrate general education competencies as follows:

Reading Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

DRAM 1120, 1121, 2120, 2121
Rehearsal and Performance I, II, III, IV (0-3) **1 Hour**

This is a practicum course that is designed to provide students with hands-on practical experience in theatre. Students will be assigned to specific duties as either a cast or crew member for productions at Midland College and Midland Community Theatre. Work hours can be tailored to an individual's particular schedule. Students may repeat this course for up to four hours' credit. (500501230)

DRAM 1310
Theatre Appreciation (3-0) **3 Hours**

This course is an introduction to theatre, designed to give students an understanding and appreciation for theatre as an art form and career choice. Students will study theatre practice and dramatic literature from various genres and periods and view at least one live performance. (5005015130)

DRAM 1330
Introduction to Technical Theatre (3-0) **3 Hours**

This course covers all basic areas of the art of stagecraft, including elementary drafting, scenic construction, carpentry, lighting, material selection and application, properties, costumes, sound, and elementary design. (5005025130)

DRAM 1351
Acting I (3-0) **3 Hours**

Students are introduced to the basic skills and techniques of acting that are developed with individual work in the use of mind, body, and voice. Exercises in improvisation, relaxation, and open scenes illustrate and stress the importance of the working process. (5005035130)

DRAM 1352
Acting II (3-0) **3 Hours**

This course is a continuation of Acting I with further development of mind, body, and voice. Students will also learn the process of character analysis through the preparation and performance of scenes from plays. Prerequisite: DRAM 1351 or permission of the instructor. (5005035130)

DRAM 2336
Voice and Movement (3-0) **3 Hours**

This course focuses on understanding the application of the performer's use of the voice and body as effective creative instruments of effective communication. It encourages an awareness of the need for vocal proficiency and teaches techniques to improve speaking and mobility on stage. (5005035230)

DRAM 2361
History of the Theatre I (3-0) **3 Hours**

This course covers the history of the theatre from the earliest times through the Renaissance, examining different aspects of the theatre such as historical staging and techniques, styles of acting, social and cultural context of drama, and themes and genres of plays produced. (5005055130)

DRAM 2362
History of the Theatre II (3-0) **3 Hours**

This course is a continuation of History of the Theatre I, covering the time period from the Renaissance to the present. (5005055130)

DRAM 2366
Introduction to Film (3-1) **3 Hours**

This course is an introduction to cinema, designed to give students an understanding and appreciation for cinema as an art form. Students will study the visual, aural, dramatic narrative, sociological, and historical elements of cinema. Students will study the terminology and techniques of filmmaking and will study various genres by viewing films. (5006025130)

ECONOMICS

Dean:	Gavin Frantz	142 T	685-4657
Faculty:	Doug Avery	197 T	685-4689
	Omar Belazi	154 T	685-4656
Division Secretary:	Leslie Montez	142 T	685-6447

For program information please call (432) 685-4657.

ECON 2301
Principles of Economics I (3-0) **3 Hours**

The student will study macroeconomic concepts as they relate to the aggregate economy. Topics will include the public sector, GDP measurements, the Federal Reserve System, inflation and unemployment, and the different approaches to public policy. (ECON 2301)

ECON 2302
Principles of Economics II (3-0) **3 Hours**

The students will study microeconomic theory and the operation of individual firms and industries. Topics will include supply and demand, opportunity costs, the concept of utility, cost curves and revenue curves, and the various forms of business organizations. (ECON 2302)

EDUCATION

Dean:	William Morris	141a AFA	685-4640
Division Secretary:	Monica Sosa	141 AFA	685-4640

Public institutions in the state of Texas do not offer baccalaureate degrees in Education. Elementary and secondary teachers must have a “major” in an academic field combined with course work in professional education courses.

Midland College offers two courses of study, for students that want to become teachers, the Associate of Science or Associate of Arts and the new Associate of Arts in Teaching (AAT). These courses of study are are suggested for students who wish to receive an associate degree at Midland College and either transfer to a four-year college or to qualify for employment as a para ,professional. An official degree check should be completed the semester before graduation.

Associate of Science or Associate of Arts

Please note that courses that require prerequisites are denoted by an asterisk (*).

Core Requirements

Required Core Courses: MATH 1314; SPCH 1315 or 1321.

Suggested Courses for Field of Study **9 Semester Credit Hours**

PSYC 2308, EDUC 1301, EDUC 2301

Related Courses **11-12 Semester Credit Hours**

For an Associate of Science add 11 semester credit hours of “field of study” electives; for Associate of Arts add 6-8 semester credit hours of Modern Language courses and an English literature course, and 3-6 semester credit hours of “field of study” electives.

MINIMUM SEMESTER CREDIT HOURS = 62-63

Associate of Arts in Teaching

Required Field of Study Courses

1. MATH 1350 and MATH 1351.
2. Two additional science courses. Students wishing to teach Mathematics and Sciences in grades 8-12 should take science courses designed for majors: stu dents wishing to teach pre 8th grade and in other fields may take science cours-es designed for non-majors.
3. EDUC 1301 and EDUC 2301.

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

Computer Literacy:
Students must be able to meet State Board for Educator Certification Pedagogy and Professional Responsibilities standards. For those standards see the Education Adviser. “Field of study” electives will depend on the grade level of certification sought.

Suggested:
Additional hours in Mathematics, Beginning or Intermediate Spanish, Physical Science, Principles of Geography.

EDUC 1301
Introduction to the Teaching Professions (2-2) 3 Hours

An enriched integrated pre-service course designed to provide active recruitment and institutional support for students interested in a teaching career Early Childhood (EC) - 12. Meets State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Includes 30 contact hours of field experience. (13.0101.51 09)

EDUC 2301
Introduction to Special Populations (2-2) 3 Hours

An enriched integrated pre-service course that provides an overview of schooling and classrooms from the perspectives of language, gender, socioeconomic status, ethnic and academic diversity and equity with an emphasis on factors that facilitate learning. Content is aligned with State Board for Educator Certification Pedagogy and Professional Responsibilities standards. Includes 30 contact hours of field experience. (13.1001.51 09)

ELECTRONICS TECHNOLOGY

(See Information Technology)

EMERGENCY MEDICAL SERVICES

Dean:	Becky Hammack	209a DFH	685-4600
Program Director:	Kim Willis	A32 AMS	685-5571
Division Secretary:	Kay Floyd	209b DFH	685-4600

Emergency Medical Services is a Health Science profession recognized by the American Medical Association. A competent member of this profession will recognize, assess, and manage medical emergencies under the direction of a physician and primarily provide pre-hospital emergency care to acutely ill patients by ambulance service and secondarily in other appropriate settings (such as hospitals). Midland College offers an associate degree (2 years) or individualized courses preparing students to write the Texas Department of Health examination for Basic Emergency Medical Technician (EMT) after the first seven (7) semester hours and the Texas Department of Health exam for EMT-Paramedic after completion of EMT training and an additional 36 semester hours (12 months) of course work.

The degree and certificate in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 17 Semester Credit Hours**

See Core Requirements, page 80
Required Core Course(s) for this degree: BIOL 2401, BIOL 2402, ENGL 1301, PSYC 2301

Specialty Courses **43 Semester Credit Hours**

EMSP 1260, EMSP 1261, *EMSP 1262, EMSP 1356, EMSP 1438, *EMSP 1455, EMSP 1501, EMSP 2135, *EMSP 2160, EMSP 2243, EMSP 2248, *EMSP 2261, EMSP 2430, EMSP 2434, *EMSP 2544

Related Courses **5 Semester Credit Hours**

HPRS 1106, ITSC 1191, SPCH 1318

MINIMUM SEMESTER CREDIT HOURS = 65

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfy THEA or alternative THEA requirements.
Oral Communication: SPCH 1318
Basic Use of Computers: ITSC 1191

Emergency Medical Technician Certificate

Specialty Courses **7 Semester Credit Hours**

EMSP 1260, EMSP 1501

Related Courses **9 Semester Credit Hours**

BIOL 2401, *BIOL 2402, HPRS 1106

MINIMUM SEMESTER CREDIT HOURS = 16

Intermediate Certificate

Specialty Courses **19 Semester Credit Hours**

EMSP 1261, *EMSP 1262, EMSP 1356, EMSP 1438, *EMSP 1455, EMSP 2434

MINIMUM SEMESTER CREDIT HOURS = 19

Paramedic Certificate

Specialty Courses **43 Semester Credit Hours**

EMSP 1260, EMSP 1261, *EMSP 1262, EMSP 1356, EMSP 1438, *EMSP 1455, EMSP 1501, EMSP 2135, *EMSP 2160, EMSP 2243, EMSP 2248, EMSP 2261, EMSP 2430, EMSP 2434,* EMSP 2544

MINIMUM SEMESTER CREDIT HOURS = 43

Course Progression

The following is the **required** sequence of paramedic courses in the Emergency Medical Services program.

First Semester
EMSP 1261, EMSP 1356, EMSP 1438, EMSP 1455
Second Semester
EMSP 1262, EMSP 2135, EMSP 2434, EMSP 2544
Third Semester
EMSP 2248
Fourth Semester
EMSP 2160, EMSP 2243, EMSP 2261, EMSP 2430

ADMISSION REQUIREMENTS

The Emergency Medical Services Program has a limited enrollment based on specific admission criteria. For information regarding the admission criteria, see the program brochure or the Emergency Medical Services Program Director.

EMSP 1260
EMT Clinical (0-0-9) **2 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical experience is an unpaid learning experience. Corequisite: EMSP 1501.

EMSP 1261
Paramedic Clinical I (0-0-6) **2 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical experience is an unpaid learning experience. Corequisite: EMSP 1356 and 1438.

EMSP 1262
Paramedic Clinical II (0-0-6) **2 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical experience is an unpaid learning experience. Prerequisite: EMSP 1261. Corequisite: EMSP 2135, 2434 and 2544.

EMSP 1356
Patient Assessment and Airway Management (2-2-0) **3 Hours**
This course is a detailed study of the knowledge and skills required to perform patient assessment and airway management. Corequisites: EMSP 1261, 1438 and 1455.

EMSP 1438
Introduction to Advanced Practice (3-1-0) **4 Hours**
This course is an exploration of the foundations necessary for mastery of the advanced topics of clinical practice out of the hospital. Corequisites: EMSP 1261, 1356 and 1455.

EMSP 1455
Trauma Management (2-2-0) **4 Hours**
This course is a detailed study of the knowledge and skills in the assessment and management of patients with traumatic injuries. Corequisites: EMSP 1261, 1356 and 1438.

EMSP 1501
Emergency Medical Technician - Basic (4-4-0) **5 Hours**
This course is an introduction to the level of Emergency Medical Technician (EMT) - Basic. It includes all the skills necessary to provide emergency medical care at a basic life support level with an ambulance service or other specialized services. Corequisite: EMSP 1260.

EMSP 2135
Advanced Cardiac Life Support (0-2-0) **1 Hour**
This skill development course is for professional personnel practicing in critical care units, emergency departments, and paramedic ambulances. This course establishes a system of protocols for management of the patient experiencing cardiac difficulties. Corequisites: EMSP 1262, 2434 and 2544.

EMSP 2160
Paramedic Clinical III (0-0-5) **1 Hour**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical experience is an unpaid learning experience. Prerequisite: EMSP 1262. Corequisite: EMSP 2135, 2243, 2261 and 2430.

EMSP 2243
Assessment Based Management (2-0-0) **2 Hours**
The capstone course of the Emergency Medical Services Program is designed to provide for teaching and evaluating comprehensive, assessment-based patient care management. Corequisites: EMSP 2160, 2261 and 2430.

EMSP 2248
Emergency Pharmacology (2-0-0) **2 Hours**
A comprehensive course covering all aspects of the utilization of medications in treating emergency situations. The course is designed to compliment Cardiology, Special Populations, and Medical Emergency courses.

EMSP 2261
Paramedic Clinical IV (0-0-6) **2 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical experience is an unpaid learning experience. Corequisite: EMSP 2160, 2135, 2243, and 2430.

EMSP 2430
Special Populations (4-0-0) **4 Hours**
This course is a detailed study of the knowledge and skills necessary to reach competence in the assessment and management of ill or injured patients in nontraditional populations. Corequisites: EMSP 2160, 2243, and 2261.

EMSP 2434
Medical Emergencies (3-2-0) **4 Hours**
This course is a detailed study of the knowledge and skills in the assessment and management of patients with medical emergencies. Corequisites: EMSP 1262, 2135 and 2544.

EMSP 2544
Cardiology (3-2-0) **5 Hours**
This course is a detailed study of the knowledge and skills in the assessment and management of patients with cardiac emergencies. Corequisites: EMSP 1262, 2135 and 2434.

HPRS 1106
Medical Terminology (1-0-0) **1 Hour**
This course is a study of common medical terminology, word origin, structure, and application.

ENGINEERING

(See Physics)

ENGLISH

Dean:	William G. Feeler	141b AFA	685-4626
Faculty:	Diane Allen	131 AFA	685-6458
	Russell Goodyear	118 SF	685-4605
	Pamela Howell	119 SF	685-4628
	Terry Jolliffe	197 AFA	686-5568
	Glenda Lindsey-Hicks	107 SF	685-4627
	Karen Pape	232 LRC	685-4561
	Rebecca Watson	108 SF	685-4632
	Lynda Webb	134 T	685-4639
	Mary Williams	144 AFA	685-4631
Division Secretary:	Lula Lee	141 AFA	685-4624

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts or Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: one English Literature course (Humanities)

Required Courses for Field of Study **6 Semester Credit Hours**

Two (2) English literature courses.

Related Courses **14-17 Semester Credit Hours**

For an Associate of Arts, one elective and 14 semester credit hours of Modern Language courses. For an Associate of Science 14 semester credit hours of electives.

MINIMUM SEMESTER CREDIT HOURS = 62-65

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

ENGL 0170
Developmental Writing Lab I (0-1) **1 Hour**

A lab course conducted through varied instructional techniques (audio/visual programs, workbook, handouts, computer instruction, and tutorial help) and designed to identify writing deficiencies and improve skills necessary to college academic work and to provide enrichment opportunities. To be taken in conjunction with ENGL 0370 (3201085312)

ENGL 0171
Developmental Writing Lab II (0-1) **1 Hour**

A lab course conducted through varied instructional techniques (audio/visual programs, workbook, handouts, computer instruction, and tutorial help) and designed to identify writing deficiencies and improve skills necessary to college academic work and to provide enrichment opportunities. To be taken in conjunction with ENGL 0371 (3201085312)

ENGL 0181
Intermediate Writing II (0-1) **1 Hour**

Required for student taking ENGL 1301 under the "C" or better option. Student must make a "C" in this course and a "C" in ENGL 1301 to fulfill college writing readiness requirement.

ENGL 0280
Intermediate Writing I (0-2) **2 Hours**
A writing-intensive lab course designed to prepare the student for college writing readiness. Prerequisite is ENGL 0371/0371 (3201085312)

ENGL 0370
Developmental Writing I (3-0) **3 Hours**
A course designed to assist students to become more proficient in grammar, mechanics, expository writing, vocabulary, and critical reading. ENGL 0170 Developmental Writing Lab I is required with this course. (3201085312)

ENGL 0371
Developmental Writing II (3-0) **3 Hours**
A course designed to offer more advanced assistance to students needing to become more proficient in grammar, mechanics, expository writing, vocabulary, and critical reading. ENGL 0171 Developmental Writing Lab II is required with this course. (3201085312)

ENGL 1301
Composition and Rhetoric (3-0) **3 Hours**
A course designed to help students develop reading and writing skills by studying diction, syntax, paragraph development, grammar, vocabulary and essay organization and by writing expository paragraphs and essays. Course assignments will include a minimum of 6000 words of writing. Prerequisite: 220+ THEA score, 70+/6 Compass score, or successful completion of developmental education sequence. Corequisite: ENGL 0181, when taken as culmination of developmental education sequence. (2304015112)

ENGL 1302
Composition and Literature (3-0) **3 Hours**
A course designed to enable students to further their composition skills by writing multiparagraph essays, including a research paper; to write logically; and to read, research, analyze, and discuss the literary genres of poetry, short fiction, and drama. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301 (2304015112) (ENGL 1302)

ENGL 1312
Workplace Composition (3-0) **3 Hours**
A course in which students will develop writing skills and learn the literature of the workplace. The course will have three components: writing letters, writing reports, and reading technical literature. In each component, students will study rhetoric and grammar, develop editing skills, and practice research techniques. Course assignments will include a minimum of 6000 words of writing. (2311015112)

ENGL 2307
Creative Writing (3-0) **3 Hours**
A course designed to enable students to investigate and discuss the creative process, to study and practice techniques of creative writing; and to read, analyze, discuss, and write two or more of the following: narrative essays, poems, short stories, and researched reviews/abstracts. Course assignments will include a minimum of 6000 words of writing. Credit will be given only once for ENGL 2307. Prerequisite: ENGL 1301 (2305015112)

ENGL 2308
Advanced Studies in Creative Writing (3-0) **3 Hours**
An advanced course designed to enable students to investigate and discuss the creative Process; to study and practice techniques of creative writing; and to read, analyze, discuss, and write one or more of the following: narrative essays, poems, short stories, and plays. Credit will be given only once for ENGL 2307. Prerequisite: ENGL 1301 (2303015312)

ENGL 2311
Technical Writing (3-0) **3 Hours**
A course designed to enable students to organize and prepare basic technical materials in the following areas: abstracts; proposals, technical descriptions, instructional processes, informational processes, technical definitions, progress reports; formal technical reports, graphics, and business correspondence. Course is designed also to enable students to analyze audience and present oral reports. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301 (2311015112)

ENGL 2314
Technical & Business Writing I (3-0) **3 Hours**
First semester of a study designed to enable students to organize and prepare materials for college-level scientific, technical, or business writing. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1301 (2311015112)

ENGL 2315
Technical & Business Writing II (3-0) **3 Hours**
Second semester of a study designed to enable students to organize and prepare materials for college-level scientific, technical, or business writing. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 2314 (2311015112)

ENGL 2321
Masterworks of British Literature (3-0) **3 Hours**
The study of longer significant works of British literature, including study of movements, schools, or periods. Prerequisite: ENGL 1302. Course assignments will include a minimum of 6000 words of writing (2308015112)

ENGL 2322
British Literature Anglo-Saxon Period through Neo-Classical (3-0) **3 Hours**
A course designed to enable students to develop a historical perspective on the development of ideas and literary techniques by studying major authors, works, and trends in English literature from the Anglo-Saxon Period through the Neo-classical Age. Students will develop their critical thinking, research, and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2308015112)

ENGL 2323
British Literature:Romantic Period through Contemporary (3-0) **3 Hours**
A course designed to enable students to attain a historical perspective on the development of ideas and literary techniques by studying major authors, works, and trends in English literature from the late 18th century through the 20th century. Students will develop critical thinking, research, and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2308015112)

ENGL 2326
Masterworks of American Literature (3-0) **3 Hours**
A course designed to permit intensive study of six to ten masterpieces of American literature from the nineteenth and twentieth centuries. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2307015112)

ENGL 2327
Survey of American Literature to 1860 (3-0) **3 Hours**
A course designed to acquaint the student with the varied works of American literature from the Colonial Period through 1860 within the historical and multicultural influences that shaped those works. Students will discuss, research, and write about literature from the period. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2307015112)

ENGL 2328
Survey of American Literature: 1860 through Contemporary (3-0) **3 Hours**
A course designed to acquaint the student with the varied works of American literature from 1860 to the present within the historical and multicultural influences that shaped those works. Students will discuss, research, and write about literature from the period. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2307015112)

ENGL 2331
World Literature (3-0) **3 Hours**
A course designed to enable students through reading assignments, class discussion, and written analyses to develop critical skills and to research writers and developments in English translations of literatures other than those of the United States and Western Europe. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2303015212)

ENGL 2332
Masterpieces of the Western World to 1600 (3-0) 3 Hours
A course designed to enable students to read, view, listen to, analyze, and discuss significant works from the ancient world through the Renaissance and further their research and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2303015212)

ENGL 2333
Masterpieces of the Western World: 1600 through Contemporary (3-0) 3 Hours
A course designed to enable students to read, view, listen to, analyze, and discuss significant works in the major periods of the Western literary tradition since 1600. Neo-classicism, Romanticism, Realism/Naturalism, Modern/Contemporary and further their research and writing skills. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2303015212)

ENGL 2342
Forms of Literature I (3-0) 3 Hours
The study of one or more literary genres including, but not limited to, poetry and fiction. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2303015112)

ENGL 2343
Forms of Literature II (3-0) 3 Hours
The study of one or more literary genres including, but not limited to, drama and film. Course assignments will include a minimum of 6000 words of writing. Prerequisite: ENGL 1302 (2303015112)

FIRE PROTECTION TECHNOLOGY

Dean:	Curt Pervier	143 T	685-4677
Director:	Marion “Ollie” Oliver	156 T	685-4663
Division Secretary:	Sidney Wristen	143 T	685-4676

The constant changes and growing complexities of modern living and environment have created a demand for college training in the fire service field. Excellent opportunities for qualified graduates exist with municipal fire departments, insurance inspection agencies, industrial safety, the U.S. Forest Service and the U.S. Department of Defense.

Midland College offers a degree in Applied Science in Fire Protection Technology by successful completion of a two-year program. This program of study is designed to meet the needs of personnel currently employed in fire service positions and those desiring preparation for employment.

The degrees and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Fire Science Firefighter
Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: ENGL 1301

Specialty Courses **33 Semester Credit Hours**

FIRS 1329, FIRS 1401, FIRS 1407, FIRS 1413, FIRS 1419, FIRS 1423, FIRS 1433, and 6 hours specialty electives

Related Courses **20 Semester Credit Hours**

BMGT 1301, ITSC 1409, BMGT 1305, EMSP 1260, EMSP 1501, and one related course elective

MINIMUM SEMESTER CREDIT HOURS = 68

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirement.

Oral Communication: BMGT 1305

Basic Use of Computers: ITSC 1409

Fire Science Fire Administrator
Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Specialty Courses **33 Semester Credit Hours**

FIRT 1309, FIRT 1335, FIRT 1331, FIRT 1353, 3 specialty electives, FIRT 1349, FIRT 2331, FIRT 2351, FIRT 2380

Related Courses **17 Semester Credit Hours**

ENGL 1301, ITSC 1409, BMGT 1305, EMSP 1260, EMSP 1501

MINIMUM SEMESTER CREDIT HOURS = 65

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirement.

Oral Communication: BMGT 1305

Basic Use of Computers: ITSC 1409

Firefighter Certificate

Specialty Courses **27 Semester Credit Hours**
FIRS 1401, FIRS 1407, FIRS 1413, FIRS 1419, FIRS 1423, FIRS 1329, FIRS 1433

MINIMUM SEMESTER CREDIT HOURS = 27

Fire Administrator Certificate

Specialty Courses **12 Semester Credit Hours**
FIRT 1309, FIRT 1349, FIRT 1353, FIRT 2351

Related Courses **10 Semester Credit Hours**
BMGT 1301, EMSP 1260, EMSP 1501

MINIMUM SEMESTER CREDIT HOURS = 22

Fire Investigator Certificate

Specialty Courses **15 Semester Credit Hours**
FIRT 1301, FIRT 1307, FIRT 1329, FIRT 1338, FIRT 1315

Related Courses **3 Semester Credit Hours**
SPCH 1315

MINIMUM SEMESTER CREDIT HOURS = 18

Fire Inspector Certificate

Specialty Courses **15 Semester Credit Hours**
FIRT 1303, FIRT 1315, FIRT 1329, FIRT 1338

MINIMUM SEMESTER CREDIT HOURS = 15

The courses labeled “FIRS”, also known as the Fire Academy, are seven classes that have limited enrollment based on special admission requirements criteria. For more information regarding this criteria please consult brochure or the Director of Fire Protection Technology.

FIRS 1329
Firefighter Certification VI (3-0) **3 Hours**
Fire Inspection techniques and practices. Emphasis on firecause determination. Includes fire protection systems, wild land fire, and pre-incident planning. Preparation for certification as a basic firefighter. This Course may be offered only by institutions licensed as a fire academy by the Texas Commission on Fire Protection.

FIRS 1401
Firefighter Certification I (3-3) **4 Hours**
An introduction to firefighter safety and development. Topics include Texas Commission on Fire Protection Rules and Regulations, firefighter safety, fire science, personal protective equipment, self contained breathing apparatus, and fire reports and records. Lab required. *****This course may be offered only by institutions licensed as a Fire Academy by the Texas Commission on Fire Protection.*****

FIRS 1407
Firefighter Certification II (2-4) **4 Hours**
The study of basic principles and skill development in handling fire service hose and ladders. Topics include the distribution system of water supply, basic building construction, and emergency service communication, procedures, and equipment. Lab required. Prerequisite: FIRS 1401 *****This course may be offered only by institutions licensed as a Fire Academy by the Texas Commission on Fire Protection.*****

FIRS 1413
Fire Certification III (2-4) **3 Hours**
Fire streams and pump operations as they relate to fundamental development of basic firefighter skills. ***This Course may be offered only by institutions licensed as a fire academy by the Texas Commission on Fire Protection**

FIRS 1419
Firefighter Certification IV (2-4) **4 Hours**
A study of equipment, tactics, and procedures used in forcible entry, ventilation, salvage, and overhaul. Preparation for certification as a basic firefighter. Lab required. Prerequisite: FIRS 1413. ***This course may be offered only by institutions licensed as a Fire Academy by the Texas Commission on Fire Protection.***

FIRS 1423
Firefighter Certification V (2-4) **4 Hours**
The study of ropes and knots, rescue procedures and techniques, and hazardous materials. Preparation for certification as a basic firefighter. Lab required. Prerequisite: FIRS 1419. ***This course may be offered only by institutions licensed as a Fire Academy by the Texas Commission on Fire Protection.***

FIRS 1433
Firefighter Certification VII (2-4) **4 Hours**
An in-depth study and practice of simulated emergency operations and hands-on five fire training exercises, incident command procedures, and combined operations using proper extinguishing methods. Emphasis on safety. Lab required. Prerequisite: FIRS 1329. ***This course may be offered only by institutions licensed as a Fire Academy by the Texas Commission on Fire Protection.***

FIRT 1301
Fundamentals of Fire Protection (3-0) **3 Hours**
Study of the philosophy, history and fundamentals of public and private fire protection. Topics include statistics of fire and property loss, agencies involved in public and private protection, legislative development, departmental organization, training, and staffing. Required by the TCFP for Investigator.

FIRT 1303
Fire and Arson Investigation I (3-0) **3 Hours**
In-depth study of basic fire and arson investigation practices. Emphasis on fire behavior principles related to fire cause and origin determination. Required by the TCFP for Inspector.

FIRT 1307
Fire Prevention Codes and Inspections (3-0) **3 Hours**
Study of local building and fire prevention codes. Emphasis on fire prevention inspections, practices, and procedures. Required by the TCFP for Investigator.

FIRT 1309
Fire Administration I (3-0) **3 Hours**
Introduction to the organization and management of a fire department and the relationship of government agencies to the fire service. Emphasis on fire service leadership from the perspective of the company officer.

FIRT 1315
Hazardous Materials I (3-0) **3 Hours**
Study for the chemical characteristics and behavior of various materials. Topics include storage, transportation, handling hazardous emergency situations, and the most effective methods of hazard mitigation. Required by the TCFP for Inspector and investigator.

FIRT 1323
Building Codes (3-0) **3 Hours**
Survey of model codes used nationally to develop understanding of the interrelationships of building construction, occupancy, and related safety issues. Topics include Underwriters Laboratory (UL) listings and Factory Mutual (F.M.) Approvals.

FIRT 1329
Building Codes and Construction (3-0) **3 Hours**
Examination of building codes and requirements, construction types, and building materials. Topics include walls, floorings, foundations, and various roof types and the associated dangers of each. Required by the TCFP for Inspector and investigator.

FIRT 1331
Firefighting Strategies and Tactics I (3-0) **3 Hours**
Analysis of the nature of fire problems and selection of initial strategies and tactics including an in-depth study of efficient and effective use of manpower and equipment to mitigate the emergency.

FIRT 1335
Introduction to Industrial Fire Protection (3-0) **3 Hours**
Specific concerns and safeguards related to business and industrial organization and development, plan/layout, fire prevention programs, extinguishing factors and techniques, hazardous situations, and prevention methods.

FIRT 1338
Fire Protection Systems (3-0) **3 Hours**
Study of fire detection, alarm, and extinguishing systems. Required by the TCFP for Inspector and investigator.

FIRT 1342
Fire Officer I (3-0) **3 Hours**
Focus on the requirements necessary for Fire Officer I certification as established by the Texas Commission on Fire Protection. Perform preliminary fire investigations, deploy assigned resources, and integrate a safety plan to ensure a safe work environment for firefighters.

FIRT 1343
Fire Officer II (3-0) **3 Hours**
Focus on the requirements necessary for Fire Officer II certification as established by the Texas Commission on Fire Protection. Conduct fire inspections at a company level, determine origin, and preliminary cause.

FIRT 1345
Hazardous Materials II (3-0) **3 Hours**
In-depth study of mitigation practices and techniques to effectively control hazardous material spills and leaks.

FIRT 1347
Industrial Fire Protection (3-0) **3 Hours**
Study of industrial emergency response teams and specific concerns related to business and industrial facilities.

FIRT 1349
Fire Administration II (3-0) **3 Hours**
In-depth study of fire service management as pertaining to budgetary requirements, administration, organization of divisions within the fire service, and relationships between the fire service and outside agencies.

FIRT 1353
Legal Aspects of Fire Protection (3-0) **3 Hours**
Study of the rights, duties liability concerns, and responsibilities of public fire protection agencies while performing assigned duties. For Inspector Elective.

FIRT 2331
Firefighting Strategies and Tactics II (3-0) **3 Hours**
Continuation of Firefighting Strategies and Tactics I. Emphasis on use of incident command in large scale command problems and other specialized fire problems. Prerequisite: Firefighting Strategies and Tactics I.

FIRT 2333
Fire and Arson Investigation II (3-0) **3 Hours**
Continuation of Fire and Arson Investigation I. Topics include reports, court room demeanor, and expert witnesses. Prerequisite: Fire and Arson Investigation I

FIRT 2345
Hazardous Materials III (3-0) **3 Hours**
Continuation of Hazardous Materials II. Topics include radioactive materials and radiation; poisons and toxicology; cryogenics; oxidizers; corrosives; flammable solids; hazards of Class A fuels, plastics, and organic and inorganic peroxides and water reactivity; and polymerization and polymerizing substances. Prerequisite: Hazardous Material I and II.

FIRT 2351
Company Fire Officer (3-0) **3 Hours**
A capstone course covering fire ground operations and supervisory practices. Includes performance evaluation of incident commander, safety officer, public information officer, and shift supervisor duties.

FIRT 2380
Cooperative Education-Fire Protection and Safety Technology/Technician (1-20) **3 Hours**
Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary. Prerequisite: Assigned by college. Capstone course.

GEOGRAPHY

Dean:	William Morris	141a AFA	685-4640
Division Secretary:	Monica Sosa	141 AFA	685-4640

GEOG 1303:
World Regional Geography (3-0) **3 Hours**
The study of major world geographical regions with emphasis on prevailing social and environmental conditions and developments. Included are emerging conditions and trends and the awareness of diversity. Course content may include one or more regions. (45.701.53 25)

GEOLOGY

Dean:	Margaret Wade	125 SF	685-4615
Faculty:	Fred Wetendorf	193 T	685-4686
Division Secretary:	Norma Duran	124 SF	685-4612

An associate degree in geology is designed to acquaint the student with the processes, applications, and techniques of earth science. The degree is suitable for someone who intends to complete a bachelor's degree in geology or a related field like oceanography, meteorology, geophysics, or environmental science. Students who seek a degree in science education at either the elementary or secondary level may wish to emphasize geology in their degree plans.

For non-majors, geology courses offer a greater understanding of the world that enhances one's appreciation of surface features, environmental concerns, resource utilization, and the grandeur of immense changes through time.

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: CHEM 1411 and CHEM 1412 or PHYS 1401 and PHYS 1402 and MATH 1314 or higher

Suggested Courses for Field of Study **16 Semester Credit Hours**

GEOL 1403, GEOL 1404*, GEOL 2407, GEOL 2409*

Related Courses **7 Semester Credit Hours**

MATH 1316* or MATH 2412, MATH 2413*, MATH 2414*

MINIMUM SEMESTER CREDIT HOURS = 65

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

GEOL 1403
Physical Geology (3-3) **4 Hours**

This course is designed to enable students to become familiar with the geologic features and processes of the earth. This is a foundation course for geology majors, and may also be taken by non-majors for lab science requirement. (40.0601.5103)

GEOL 1404
Historical Geology (3-3) **4 Hours**

This course is designed to enable students to become familiar with the geologic history of the earth. This is a foundation course for geology majors and may be taken by non-majors for lab science requirement. Prerequisite: GEOL 1403 or consent of instructor. (40.0601.5103)

GEOL 1405
Environmental Science (3-3) **4 Hours**

The study of environmental science is interdisciplinary. During the semester, the student will be presented with scientific information concerning the environment and the historical, social, political, and economic ramifications of environmental conflict. The course is suitable as an elective course in a science curriculum or as a required lab science for someone who is not majoring in science. (03.0103.5301)

GEOL 2407
Field Methods in Geology (2-4) **4 Hours**
Collection of field data, interpretation and construction of geological and topographic maps, and examination of petrologic systems in a field (exposed) or subsurface setting. Prerequisite: GEOL 1403 or consent of instructor. (40.0601.5503)

GEOL 2409
Mineralogy and Petrology (3-3) **4 Hours**
This course is designed to enable students to learn the properties of crystal systems, to identify and classify selected minerals in hand specimens, and to learn the rock association, mode of occurrence, and industrial uses of material. Prerequisites: GEOL 1403 and 1404. (40.0601.5203)

GOVERNMENT/POLITICAL SCIENCE

Dean:	William Morris	141a AFA	685-4640
Faculty:	Fernando Almaguer	181 AFA	685-4739
	Jerry Franks	125 SF	685-4607
	Terry Gilmour	116 SF	685-4608
	Casey Hubble	115 SF	685-4606
Division Secretary:	Monica Sosa	141 AFA	685-4640

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts or Associate of Science

Core Requirements **42 Semester Credit Hours**
See Core Requirements, page 80
Required Core Course(s) for this degree: ECON 2301 or PSYC 2301 or SOCI 1301

Suggested Courses for Field of Study **12 Semester Credit Hours**
GOVT 2304, HIST 2321, HIST 2322, PHIL 2306

Related Courses **8-11 Semester Credit Hours**
For an Associate of Science add 8 semester credit hours of electives; for Associate of Arts add 6-8 semester credit hours of Modern Language courses and an English literature course.

MINIMUM SEMESTER CREDIT HOURS = 62

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.
Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81
Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

GOVT 2301
Federal and State Government I (3-0) **3 Hours**
This course is a comparative investigation of state and federal government. It covers the foundation and development of the constitutions of the United States and Texas (federalism), local governments, political parties, and interest groups. (4510025142)

GOVT 2302
Federal and State Government II (3-0) **3 Hours**
In this class students will study the legislative, executive (including the bureaucracy), and judicial systems of the U.S. and Texas, and selected problems of public policy. (4510025142)

GOVT 2304
Introduction to Political Science (3-0) **3 Hours**
This course is the introduction to the study of political science as a discipline-political philosophy, the theory and organization of the modern state, comparative political systems, and international relations. (4510015242)

GOVT 2320
Minority Issues (3-0) **3 Hours**
"Minority Issues" examines current minority group issues and problems associated with the policies and programs of public and private agencies that impact the family, education, religion, politics and the economy. (4511015342) Also SOCI 2320.

GOVT 2389
Local Government Internship (3-4) **3 Hours**
This course is designed to integrate on-campus study with practical hands-on experience in local government. In conjunction with class seminars, the individual student will set specific goals and objectives in the study of local government.

HEALTH INFORMATION TECHNOLOGY

Dean:	Becky Hammack	209a DFH	685-4600
Program Director:	Melinda Teel	A33 AMS	685-5573
Division Secretary:	Kay Floyd	209b DFH	685-4600

This program is designed to prepare students to work with health information in hospitals, insurance companies, law firms, physicians' offices, long-term care agencies, rehabilitation centers and psychiatric and other health care facilities. The graduate will maintain, organize, analyze and generate health information for patient treatment, reimbursement, planning, quality assessment and research to ensure quality health care through quality information.

New classes begin each summer and courses must be taken sequentially for progression in the program. Applicants are encouraged (but not required), to complete support courses, such as Anatomy and Physiology, prior to entering the program.Current immunizations are **required** after admission but prior to beginning field experience classes. To be eligible for graduation from the Health Information Technology program, the student must complete the prescribed courses with a minimum grade of "C", have a cumulative grade point average of 2.0, pass a written final exit exam, satisfy all college financial obligations, and return all school property. Requirements to write the credentialing exam include written application, payment of fees, certification by the program director, and graduation from the program.

Upon successful completion of the requirements, the student will be awarded an Associate of Applied Science degree in Health Information Technology. This program is fully accredited by the Commission on Accreditation of Allied Health Educational Programs (CAAHEP) in cooperation with the American Health Information Management Association (AHIMA). Students completing this competency-based two year program will be eligible to apply to write the national qualifying examination for certification as a Registered Health Information Technician (RHIT). Certificate options are available in Coding and Medical Transcription.

The degree and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Speciality courses must be taken in sequence. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 17 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: BIOL 2401, BIOL 2402, ENGL 1301, PSYC 2301

Specialty Courses **36 Semester Credit Hours**

*HITT 1166, HITT 1253, HITT 1255, HITT 1305, *HITT 1345, HITT 1401, HITT 1441, HITT 2149, *HITT 2166, *HITT 2239, HITT 2343, *HITT 2435, *HPRS 2301, *MRMT 1311

Related Courses **13 Semester Credit Hours**

ITSC 1409, POFM 1302, SPCH 1318, ENGL 1302

MINIMUM SEMESTER CREDIT HOURS = 66

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfy THEA or alternative THEA requirements.

Oral Communication: SPCH 1318

Basic Use of Computers: ITSC 1409

Coding Certificate

Specialty Courses **26 Semester Credit Hours**

HITT 1167, HITT 1253, HITT 1305, HITT 1345, HITT 1401, HITT 1441, *HITT 2435, *HPRS 2301

Related Courses **15 Semester Credit Hours**

BIOL 2401, *BIOL 2402, ITSC 1409, POFM 1302

MINIMUM SEMESTER CREDIT HOURS =39

Medical Transcription Certificate

Specialty Courses **16 Semester Credit Hours**

HITT 1253, HITT 1305, *HPRS 2301, *MRMT 1407, *MRMT 2433

Related Courses **14 Semester Credit Hours**

BIOL 2401, *BIOL 2402, ENGL 1301, *ENGL 1302

MINIMUM SEMESTER CREDIT HOURS = 30

Course Progression

The following is the **required** sequence of health information technology courses in the Associate of Applied Science degree plan.

First Year, Summer Semester
HITT 1305
First Year, Fall Semester
HITT 1401
First Year, Spring Semester
HITT 1166, HITT 1255, HITT 1345, HPRS 2301
Second Year, Fall Semester
HITT 1253, HITT 1441, MRMT 1311
Second Year, Spring Semester
HITT 2149, HITT 2166, HITT 2239, HITT 2343, HITT 2435

HITT 1166
Field Experience I (0-0-10) **1 Hour**
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: HITT 1305, HITT 1401. Corequisite: HITT 1345 and HPRS 2301.

HITT 1167
Field Experience - Coding (0-0-7) **1 Hour**
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: HITT 1305, HITT 1401 and HITT 1441. Corequisite: HITT 1345 and HITT 2435.

HITT 1253
Legal and Ethical Aspects of Health Information (2-0-0) **2 Hours**
This course covers the concepts of confidentiality, ethics, health care legislation, and regulations relating to the maintenance and use of health information.

HITT 1255
Health Care Statistics (2-0-0) **2 Hours**
This course will cover general principles of health care statistics with emphasis in hospital statistics. Skill development in computation and calculation of health data will also be covered. Prerequisite: HITT 1401.

HITT 1305
Medical Terminology (3-0-0) **3 Hours**
In this course, students will identify, pronounce, and spell medical terms; use terms in context; build and analyze medical terms; and use medical references as resource tools.

HITT 1345
Health Care Delivery Systems (3-0-0) **3 Hours**
This course is an introduction to organization, financing, and delivery of health care services, accreditation, licensure, and regulatory agencies. Prerequisite: HITT 1401.

HITT 1401
Health Data Content and Structure (4-0-0) **4 Hours**
This course is an introduction to systems and processes for collecting, maintaining, and disseminating primary and secondary health related information. The course will cover instruction in delivery and organizational structure to include content of health record, documentation requirements, registries, indices, licensing, regulatory agencies, forms, and screens.

HITT 1441
Coding and Classification Systems (3-3-0) **4 Hours**
This course covers the application of basic coding rules, principles, guidelines, conventions and the assigning of appropriate ICD-9CM codes will be covered in this course. Prerequisite: HITT 1305 and BIOL 2401.

HITT 2149
RHIT Competency Review (0-2-0) **1 Hour**
This capstone course reviews health information technology competencies, skills, and knowledge base pertinent to the technology and relevant to the professional development of the student.

HITT 2166
Field Experience II (0-0-10) **1 Hour**
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: HITT 1166.

HITT 2239
Health Information Organization and Supervision (2-0-0) **2 Hours**
This course covers the principles of organization and supervision of human, fiscal, and capital resources.

HITT 2343
Quality Assessment and Performance Improvement (2-3-0) 3 Hours
This course is a study of the many facets of quality standards and methodologies in the health information management environment. Topics will include licensing, accreditation, compilation and presentation of data in statistical formats, quality improvement functions, quality tools, utilization management, risk management, and medical staff data quality issues. Prerequisite: HITT 1401.

HITT 2435
Coding and Reimbursement Methodologies (3-3-0) 4 Hours
This course covers the development of advanced CPT and ICD-9CM coding techniques with emphasis on case studies, health records, and federal regulations regarding perspective payment systems and methods of reimbursement. Prerequisite: HITT 1441.

HPRS 2301
Pathophysiology (3-0-0) 3 Hours
This course is a study of the pathology and general health management of disease and injuries across the life span. Topics will include etiology, symptoms, pharmacology and the physical and psychological reactions to diseases and injuries. Prerequisite: BIOL 2401, BIOL 2402, and HITT 1305.

MRMT 1311
Computers in Health Care (2-2-0) 3 Hours
This course is an introduction to the concepts of computer technology related to health care and the tools and techniques for collecting, storing, and retrieving health care data. Prerequisite: ITSC 1409.

MRMT 1407
Medical Transcription Fundamentals (2-6-0) 4 Hours
This course covers the fundamentals of medical transcription with hands-on experience in transcribing physician dictation including basic reports such as history and physicals, discharge summaries, consultations, operative reports, and other medical reports. Students utilize transcribing and information processing equipment compatible with industry standards. The course is designed to develop speed and accuracy. Prerequisite: 50 wpm typing speed; HITT 1305, BIOL 2401.

MRMT 2433
Advanced Medical Transcription (2-6-0) 4 Hours
This course covers the production of advanced reports of physician dictation with increasing speed and accuracy including history and physicals, consultations, discharge summaries, operative reports, and other medical reports. Prerequisite: MRMT 1407.

HEALTH CAREERS FIELD OF STUDY

Dean:	Becky Hammack	209a DFH	685-4600
Division Secretary:	Kay Floyd	209b DFH	685-4600

Midland College has programs in numerous health career fields. Further, courses that prepare students for entry into these programs as well as into programs offered by the Texas Tech University Health Sciences Center (TTUHSC) are available. Several of these courses meet requirements of multiple programs allowing students to maintain several options while seeking program acceptance. The common course requirements for Midland College Programs as well as for TTUHSC programs are listed below.

Health career programs have limited enrollment based on specific admission criteria. Students seeking acceptance into any of these programs should seek advice from the the Health Sciences Division and Veterinary Technology Program. Completion of admission requirements and common program requirements maximizes opportunities for program acceptance. Texas Tech is responsible for accepting students into the TTUHSC Programs.

All Health careers programs with the exception of Veterinary Technology require the following courses: BIOL 2401 and BIOL 2402.

In addition to the above, the following table denotes courses which are required in several of the health careers programs.

Program	English 1301	Visual and Performing Arts/ Humanities Elective	Biology 2421	Speech 1318
Health Careers Field of Study	X	X	X	
Associate Degree Nursing	X	X	X	
Diagnostic Medical Sonography	X			X
Emergency Medical Services	X	X		X
Health Information Technology	X			X
Radiography	X	X		
Respiratory Care	X	X	X	
Veterinary Technology	X	X	X	X

Please refer to catalog sections entitled Diagnostic Medical Sonography, Emergency Medical Services, Health Information Technology, Nursing- Associate Degree, Nursing-Vocational, Radiography, Respiratory Care, and Veterinary Technology for additional information regarding these programs.

HEALTH CAREERS FIELD OF STUDY ASSOCIATE DEGREE

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; contact the Dean whose name is listed above. Note that some courses have prerequisites denoted by an asterisk (*).

Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: BIOL 2401, 2402, MATH 1314, PSYC 2301, SPCH 1315

Related Courses **26 Semester Credit Hours**

BIOL 1406, *BIOL 1407, BIOL 2421, MATH 1342, CHEM 1411, *CHEM 1412, ENGL 2311

MINIMUM SEMESTER CREDIT HOURS = 68

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.
Oral Communication: SPCH 1315.
Basic Use of Computers: Evaluation of high school transcript, testing, or POFI elective.

HEALTH SCIENCES

Dean:	Becky Hammack	209a DFH	685-4600
Division Secretary:	Kay Floyd	209b DFH	685-4600

HPRS 1106
Medical Terminology (1-0-0) **1 Hour**
This course is a study of common medical terminology, word origin, structure, and application.

HPRS 1201
Introduction to Health Professions (2-0-0) **2 Hours**
This course is an overview of the roles of the various members of the health care system, educational requirements, and issues affecting the delivery of health care.

HISTORY

Dean:	William Morris	141a AFA	685-4640
Faculty:	Todd Houck	142 AFA	685-4645
	Wayne McClure	121 SF	685-4609
	Jerry Mills	122 SF	685-4692
Division Secretary:	Monica Sosa	141 AFA	685-4640

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four- year college. An official degree plan should be filed the semester before graduation; please contact the dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts or Associate of Science

Core Requirements **42 Semester Credit Hours**
See Core Requirements, page 80
Required Core Course(s) for this degree: ANTH 2351 or ECON 2301 or PSYC 2301 or SOCI 1301

Suggested Courses for Field of Study **6 Semester Credit Hours**
HIST 2321, HIST 2322

Related Courses **12-14 Semester Credit Hours**
For an Associate of Science add 14 semester credit hour of electives, for an Associate of Arts add 6-8 semester credit hours of Modern Language course, an English literature course and elective(s)

MINIMUM SEMESTER CREDIT HOURS = 62

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.
Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81
Basic Use of Computers: Testing, college or high school courses. All course work must-be approved by the Dean.

HIST 1301
United States History To 1877 (3-0) **3 Hours**
This course is a survey of U.S. history from the beginnings through Reconstruction. It includes such topics as the European heritage, the colonies in North America, the creation and development of the American nation, and the sectional differences that led to the Civil War and Reconstruction. (45.0802.5125)

***HIST 1302**
United States History Since 1877 (3-0) **3 Hours**
This class is a survey of U.S. history from Reconstruction to the present. Topics include the development of the West, the growth of big business and its accompanying problems, American imperialism, the causes and results of World Wars I and II, and the post war world. (45.0802.5125)

HIST 1316
History of Christianity (3-0) **3 Hours**
This course is an historical survey of the development of Christianity and its role in world history, from its origins to the present time covering theological and institutional issues. Course may be taken for either credit or non credit. Also PHIL 1316. (3802015135)

****HIST 2301**
Texas History (3-0) **3 Hours**
This class covers the history of Texas from pre Columbian times to the present. Topics will include native American cultures, colonization by Europeans, the Texas Republic, the Civil War, and modern Texas. Emphasis will be given to the roles of ethnic groups and women. (45.0802.5225)

HIST 2321
World Civilizations I (3-0) **3 Hours**
This class surveys the origin and development of civilizations in Asia, Africa, Europe, and the Americas from the beginning to c. 1500. Material stresses the origin and development of political, economic, and religious institutions. The class also covers the theory and practice of historical research. (45.0801.5325)

HIST 2322
World Civilizations II (3-0) **3 Hours**
This course continues the development of world civilizations in response to Western expansion from c. 1500. Topics stress imperialism, nationalism, revolution, and rise of science. The class also covers the theory and practice of historical research. (4508015342)

HIST 2380
Mexican-American History (3-0) **3 Hours**
This class is a general survey of the experience of Americans of Mexican ancestry in the development of American society. The class will emphasize Native American and Spanish culture along with political, economic, and social events. (45.1101.53.25)

HIST 2381
African-American History (3-0) **3 Hours**
This class is a general survey of the experience of African Americans from their African origins to the present. This class will emphasize the role of slavery, segregation, and the civil rights movement in the development of American society. (45-1101.53.25)

*May be taken before 1301.

**May be substituted for one semester of U.S. History.

HUMANITIES

Deans:	William G. Feeler	141b AFA	685-4626
	William Morris	141a AFA	685-4640
Faculty:	David Allen	130 AFA	686-4205
	Russell Goodyear	125 SF	685-4607
Division Secretaries:	Lula Lee	141 AFA	685-4624
	Monica Sosa	141 AFA	685-4640

HUMA 1301
Humanities I (3-0) **3 Hours**

"Humanities I" invites students to expand their appreciation of the cultural side of human experience on the premise that a complete education should stimulate the intellect as well as provide skills and job training. This course will offer selected, interrelated topics in philosophy, literature, religion, and the arts and sciences from ancient times to about the year 1500. Coverage will be interdisciplinary and multi cultural, and will include readings, various media, and performance. (2401035135)

HUMA 1302
Humanities II (3-0) **3 Hours**

"Humanities II" complements Humanities I by inviting students to expand their appreciation of the cultural side of human experience still further on the premise that a complete education must stimulate the intellect as well as provide skills and job training. This course will offer selected and varying topics in philosophy, literature, religion, and the arts and sciences from about 1500 to the present. Coverage will be interdisciplinary and multi cultural, and will include readings, various media, and performance. THERE IS NO PREREQUISITE FOR THIS COURSE. (2401035135)

HUMA 2323
World Cultures and Societies (3-0) **3 Hours**

"World Cultures and Societies" is the study of variations among contemporary societies throughout the world. Emphasis is on the historical roots and implications of current sociocultural diversity. Examples will come from a variety of specific societies within a regional context. Students can receive credit for either HUMA 2323 or ANTH 2351, but not both. (4502015342) Also ANTH 2323.

INFORMATION TECHNOLOGY

Dean:	Gavin Frantz	142 T	685-4657
Faculty Director:	James Draper	116 T	685-4660
Faculty:	Sylvia Brown	124 T	685-4743
	Bill Clarkson	118 T	685-5508
	Terry Dummer	120 T	685-6457
	Doug Johnson	119 T	685-4665
	Adriana Lumpkin	109 T	685-4743
	Vickie Pickett	107 T	686-4204
Lab Instructors:	Roy McGowen	101 T	685-5563
	Nancy Scharf	110 T	685-4672
	Raquel Segovia	149 T	685-4786
Division Secretary:	Leslie Montez	142 T	685-6447

For program information please call (432) 685-4657.

The Information Technology program offers the student four main areas of study. These areas are: Computer Maintenance, Data Management, Computer Networking, and Computer Programming. A description of each area is listed below along with a list of courses that are required for all degrees and certificates, and a suggested class sequence to aid the student in planning out their semesters Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Information Technology is a Tech-Prep program that provides students with opportunities to gain advanced technical skills. High school students may receive college credit for approved courses taken during high school. High school students should discuss this option with their high school counselor. Others may contact the department head at Midland College for information.

1. COMPUTER MAINTENANCE ELECTRONICS: Provides the student with the understanding and the skills to work with the complex components of electronics and computer technology, including the repair, maintenance, and upgrading of personal computers.

Information Technology/Computer Maintenance and Electronics Associate of Applied Science

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology-Computer Maintenance & Electronics

First Year

	First Semester	
Prefix Number	**Course Name**	**Credit Hours**
ITSC 1409	Integrated Software Applications I	4
CPMT 1303	Introduction to Computer Technology	3
ITCC 1402	Local Area Networks & Protocols: CISCO I	4
ENGL 1301	Composition & Rhetoric *or*	
POFT 1302	Business Communications I	3
CETT 1403	DC Circuits	4
	First Semester Total	**18**
	Second Semester	
ITSC 1407	UNIX Operating System I	4
CETT 1405	AC Circuits	4
	Specialty Elective	3
SPCH 1318	Interpersonal Communications *or*	
BMGT 1305	Communications in Management (ORC)	3
	Core Course Elective	3
	Second Semester Total	**17**

Second Year

Prefix Number	Third Semester Course Name	Credit Hours
MATH 1314	College Algebra (MNS)	3
ELMT 2339	Advanced Programmable Logic Controls	3
ITNW 1454	Implementing and Supporting Servers	4
ITNW 1351	Fundamentals of Wireless LANS	4
	Core Course Elective	3
	Third Semester Total	**16**
	Fourth Semester	
ITSY 2400	Operating System	4
CPMT 2445	Computer Systems Troubleshooting	4
CETT 1441	Solid State Circuits	4
	Two Core Courses electives	6
	Fourth Semester Total	**18**
	Program Total	**69**

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: MATH 1314

Specialty Courses **48 Semester Credit Hours**

ITSC 1409, CPMT 1303, ITCC 1402, CETT 1403, ITSC 1407, CETT 1405, ELMT 2339, ITNW 1454, ITNW 1351, ITSY 2400,*CPMT 2445, CETT 1441, one 3 hour specialty electives.

Related Courses **6 Semester Credit Hours**

ENGL 1301 or POFT 1302, SPCH 1318 or BMGT 1305

MINIMUM SEMESTER CREDIT HOURS = 69

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH 1318 or BMGT 1305.

Basic Use of Computers: Specialty courses.

Basic Computer Maintenance/Electronics Certificate

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology-
Basic Computer Maintenance/Electronics Certificate

First Year

Prefix Number	First Semester Course Name	Credit Hours
ITSC 1409	Integrated Software Applications I	4
CPMT 1303	Introduction to Computer Technology	3
ITCC 1402	Local Area Networks Design & Protocols	4
CETT 1403	DC Circuits	4
	Specialty Elective	3
	First Semester Total/Program Total	**18**

Specialty Courses **18 Semester Credit Hours**

ITSC 1409, CPMT 1303, ITCC 1402 CETT 1403, one three- or four-hour specialty course elective.

MINIMUM SEMESTER CREDIT HOURS = 18

Advanced Computer Maintenance/Electronics Certificate

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology-Advanced Computer Maintenance/Electronics Certificate

First Year

Prefix Number	First Semester Course Name	Credit Hours
ITSC 1409	Integrated Software Applications I	4
CPMT 1303	Introduction to Computer Technology	3
ITCC 1402	Local Area Networks Design & Protocols	4
CETT 1403	DC Circuits	4
ITNW 1351	Fundamentals of Wireless LANS	3
	First Semester Total	**18**
	Second Semester	
ITNW 1454	Implementing and Supporting Servers *or*	
ITSC 1407	UNIX Operating System I	4
CPMT 2445	Computer Systems Troubleshooting	4
CETT 1405	AC Circuits	4
ELMT 2339	Advanced Programmable Logic Controls	3
ITSY 2400	Operating System Security	4
	Second Semester Total	**19**
	Program Total	**37**

Specialty Courses **37 Semester Credit Hours**

ITSC 1409, CPMT 1303, ITCC 1402, CETT 1403, ITNW 1351, ITNW 1454 or ITSC 1407 *CPMT 2445, CETT 1405, ELMT 2339, ITSY 2400

MINIMUM SEMESTER CREDIT HOURS = 37

2. DATA MANAGEMENT: Prepares individuals to work with business to design, implement, and administer databases. Students will be exposed to a variety of database development, programming, and query techniques.

Information Technology/Data Management Associate of Applied Science

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology-Data Management AAS

First Year

	First Semester	
Prefix Number	**Course Name**	**Credit Hours**
ITSC 1409	Integrated Software Applications I *or*	
BCIS 1405	Business Computer Applications	4
BUSI 1301	Business Principles	3
ITSE 1191	Special Topics: Intro Programming Logic	1
	(This class can be waived by IT dept.)	
ITSE 1431	Intro to Visual Basic Programming *or*	
COSC 1420	C Programming I *or*	
COSC 1430	Computer Programming "JAVA I"	4
CPMT 1303	Introduction to Computer Technology	3
ITSE 1445	Introduction to Oracle SQL *or*	
ITSE 2409	Introduction to Database Programming	4
	First Semester Total	**19**
	Second Semester	
ENGL 1301	Composition & Rhetoric *or*	
POFT 1302	Business Communications I	3
	Core Course Elective	3
MATH 1314	College Algebra (MNS)	3
ITSC 1407	UNIX Operating System I	4
ITSE 2454	Advanced Oracle PL/SQL or	
ITSE 2447	Advanced Database Programming	4
	Second Semester Total	**17**

Second Year

	Third Semester	
Prefix Number	**Course Name**	**Credit Hours**
BMGT 1305	Communications in Management *or*	
SPCH 1318	Interpersonal Communication (ORC)	3
COSC 1420	C Programming I *or*	
COSC 1430	Computer Programming "JAVA I" *or*	
ITSE 1431	Intro to Visual Basic Programming	4
MATH 1324	Business Math I (MNS)	3
ITSE 1445	Introduction to Oracle SQL *or*	
ITSE 2409	Introduction to Database Programming	4
	Core Course Elective	3
	Third Semester Total	**17**
	Fourth Semester	
ACCT 2401	Principles of Accounting I *or*	
ACNT 1403	Intro to Accounting	4
BCIS 2390	System Analysis and Design	3
ITSE 2313	Web Authoring	3
ITSE 2454	Advanced Oracle PL/SQL *or*	
ITSE 2447	Advanced Database Programming	4
	Core Course Elective	3
	Fourth Semester Total	**17**
	Program Total	**70**

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: MATH 1314, MATH 1324

Specialty Courses **42 Semester Credit Hours**

ITSC 1409 or BCIS 1405, ITSE 1191, two of the following three courses (*ITSE 1431, *COSC 1420, *ITSC 1430), CPMT 1303, *ITSE 1445, ITSE 2409, ITSC 1407, *ITSE 2454, *ITSE 2447, BCIS 2390, ITSE 2313.

Related Courses **13 Semester Credit Hours**

ENGL 1301 or POFT 1302, BUSI 1301, BMGT 1305 or SPCH 1318, ACCT 2401 or ACNT 1403.

MINIMUM SEMESTER CREDIT HOURS = 70

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: BMGT 1305 or SPCH 1318

Basic Use of Computers: Specialty courses.

Data Management Certificate

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology-Data Management Certificate

First Year

Prefix Number	First Semester Course Name	Credit Hours
ITSC 1409	Integrated Software Applications I	4
ITSE 1191	Spec Topics: Intro Programming Logic *(This class can be waived by IT dept.)*	1
ITSE 1431	Intro to Visual Basic Programming or	
COSC 1430	Computer Programming "JAVA I" *or*	
COSC 1420	C Programming I	4
CPMT 1303	Introduction to Computer Technology	3
ITSE 1445	Intro Oracle or	
ITSE 2409	Introduction to Database Programming	4
	First Semester Total	**16**
	Second Semester	
ITSC 1407	UNIX Operating System I	4
BCIS 2390	Systems Analysis	3
ITSE 2454	Advanced Oracle PL/SQL or	
ITSE 2447	Advanced Database Programming	4
ITSE 2313	Web Authoring	3
	Specialty Elective	3
	Second Semester Total	**17**
	Program Total	**33**

Specialty Courses **33 Semester Credit Hours**

ITSC 1409, ITSE 1191, *ITSE 1431 or *COSC 1430 or *COSC 1420, CPMT 1303, ITSE 1445 or ITSE 2409, ITSC 1407, *BCIS 2390, ITSE 2454 or *ITSE 2447, ITSE 2313, one three or four-hour specialty elective.

MINIMUM SEMESTER CREDIT HOURS = 33

3. NETWORKING: Prepares the student to understand, install, and troubleshoot networks. The student will have the opportunity to take courses that will prepare them to take professional certification exams, including CISCO Systems (Network Associate's exam), Microsoft (MCSE/MCSA exams for Windows 2000 Professional and Windows 2000 Server) and NOVELL.

Information Technology/Networking
Associate of Applied Science

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology-Networking AAS

First Year		
	First Semester	
Prefix Number	**Course Name**	**Credit Hours**
CETT 1403	DC Circuits	4
ENGL 1301	Composition & Rhetoric *or*	
POFT 1302	Business Communications I	3
ITCC 1402	Local Area Networks Design & Protocols	4
CPMT 1303	Introduction to Computer Technology	3
	Core Course Elective	3
	First Semester Total	**17**
	Second Semester	
ITSC 1409	Integrated Software Applications I	4
ITCC 1406	Basic Router Configuration: CISCO 2	4
SPCH 1318	Interpersonal Communications *or*	
BMGT 1305	Communications in Management (ORC)	3
	Specialty Elective	3
	Core Course Elective	3
	Second Semester Total	**17**
Second Year		
	Third Semester	
ITCC 1442	Local Area Management (LAN): CISCO 3	4
ITNW 1454	Implementing and Supporting Servers	4
MATH 1314	College Algebra (MNS)	3
ITSC 1407	UNIX Operating System I	4
ITNW 1351	Fundamentals of Wireless LANS	3
	Third Semester Total	**18**
	Fourth Semester	
MATH 1314	College Algebra (MNS)	3
ITSY 2400	Operating System Security	4
ITCC 1446	Wide Area Management (WAN): CISCO 4	4
	Core Course Elective	3
	Core Course Elective	3
	Fourth Semester Total	**17**
	Program Total	**69**

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: MATH 1314

Specialty Courses **41 Semester Credit Hours**

ITCC 1402, CPMT 1303, ITSC 1409, *ITCC 1406, *ITCC 1442, ITNW 1454, ITSC 1407, ITNW 1351, ITSY 2400, *ITCC 1446, one 3hr Specialty Elective

Related Courses **11 Semester Credit Hours**

CETT 1403, ENGL 1301 or POFT 1302, SPCH 1318 or BMGT 1305.

MINIMUM SEMESTER CREDIT HOURS = 67

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.
Oral Communication: SPCH 1318 or BMGT 1305. Basic Use of Computers: Specialty courses.

Networking Certificate

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology-Networking Certificate

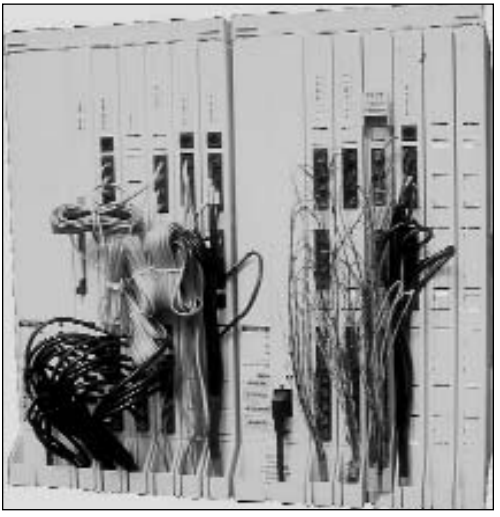
First Year

Prefix Number	First Semester Course Name	Credit Hours
ITSC 1409	Integrated Software Applications I	4
CPMT 1303	Introduction to Computer Technology	3
ITCC 1402	Local Area Networks Design & Protocol	4
ITNW 1351	Fundamentals of Wireless LANS	3
ITSC 1407	UNIX Operating System II	4
	First Semester Total	**18**
	Second Semester	
ITSY 2400	Operating System Security	4
ITNW 1454	Implementing and Supporting Servers	4
ITCC 1406	Basic Router Configuration: CISCO 2	4
	Specialty Elective	3
	Second Semester Total	**15**
	Program Total	**33**

Specialty Courses **33 Semester Credit Hours**

ITSC 1409, CPMT 1303, ITCC 1402, IT NW 1351 ITSC 1407, ITSY 2400, ITNW 1454, *ITCC 1406, one 3 hour specialty elective

MINIMUM SEMESTER CREDIT HOURS = 33



4. PROGRAMMING: Provides the student with an opportunity to develop programming skills using three of the most popular languages in use today, "C," Visual Basic, and Java. Beginning and advanced topics are taught. In addition, specialty topics are offered, including Web page design using tools such as Microsoft Front Page and Dreamweaver.

Information Technology/Programming
Associate of Applied Science

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology-Programming AAS

First Year

	First Semester	
Prefix Number	**Course Name**	**Credit Hours**
ITSE 1191	Special Topics Intro Programming Logic *(This class can be waived by IT dept.)*	1
ITSE 1431	Intro to Visual Basic Programming *or*	
COSC 1420	C Programming I	4
CPMT 1303	Introduction to Computer Technology *or*	
COSC 1430	Computer Programming "JAVA I"	3
ITSE 2409	Introduction to Database Programming *or*	
ITSE 1445	Introduction Oracle SQL	4
ENGL 1301	Composition & Rhetoric	3
	Specialty Elective	3
	First Semester Total	**18**

	Second Semester	
ITSC 1409	Integrated Software Applications I *or*	
BCIS 1405	Business Computer Applications	4
ITSE 2449	Advanced Visual Basic Programming *or*	
COSC 2420	C Programming II	4
SPCH 1318	Interpersonal Communication (ORC)	3
MATH 1314	College Algebra (MNS)	3
	Core Course Elective	3
	Second Semester Total	**17**

Second Year

	Third Semester	
Prefix Number	**Course Name**	**Credit Hours**
COSC 1420	C Programming I *or*	
ITSE 1431	Intro to Visual Basic Programming	4
ITSE 1445	Introduction to Oracle SQL *or*	
ITSE 2409	Introduction to Database Programming	4
ITSC 1407	UNIX Operating System II	4
ITSE 2313	Web Authoring	3
	Core Course Elective	3
	Third Semester Total	**18**

	Fourth Semester	
COSC 2420	C Programming II *or*	
ITSE 2449	Advanced Visual Basic Programming	4
BCIS 2390	System Analysis and Design	3
ITNW 1454	Implementing and Supporting Servers	4
ENGL 2311	Technical Writing	3
COSC 2430	Advanced Structural Languages "JAVA II"	4
	Fourth Semester Total	**18**
	Program Total	**71**

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: MATH 1314

Specialty Courses **53 Semester Credit Hours**

ITSE 1191, *ITSE 1431, *COSC 1420, CPMT 1303 or *COSC 1430, ITSE 2409, ITSE 1445, ITSC 1409 or BCIS 1405, *ITSE 2449, *COSC 2420, ITSC 1407, ITSE 2313, * BCIS 2390, ITNW 1454, COSC 2430, 3 hour specialty electives

Related Courses **3 Semester Credit Hours**

SPCH 1318

MINIMUM SEMESTER CREDIT HOURS = 71

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH 1318

Basic Use of Computers: Specialty courses

Programming Certificate

The following class sequence is suggested to ensure class prerequisites are met and provide best class availability. Please see your advisor to formulate a sequence to meet your individual needs.

Information Technology Programming Certificate

First Year

Prefix Number	First Semester Course Name	Credit Hours
ITSC 1409	Integrated Software Applications I *or*	
BCIS 1405	Business Computer Applications	4
ITSE 1191	Special Topics Intro Programming Logic *(This class can be waived by IT dept.)*	1
CPMT 1303	Introduction to Computer Technology *or*	
COSC 1430	Computer Programming "JAVA I"	3
ITSE 1431	Intro to Visual Basic Programming	4
COSC 1420	C Programming I	4
	First Semester Total	**16**
	Second Semester	
COSC 2420	C Programming II	4
ITSE 2449	Advanced Visual Basic Programming	4
ITSE 2313	Web Authoring *or*	
ITSE 1356	Introduction to XML	3
ITSC 1407	UNIX Operating System I *or*	
ITNW 1454	Implementing and Supporting Servers	4
ITSE 2409	Introduction to Database Programming *or*	
ITSE 1445	Introduction to Oracle SQL	4
	Second Semester Total	**18**
	Program Total	**34**

Specialty Courses **34 Semester Credit Hours**

ITSC 1409 or BCIS 1405, ITSE 1191, CPMT 1303 or *COSC 1430, *ITSE 1431, *COSC 1420, *COSC 2420, *ITSE 2449, ITSE 2313 or ITSE 1356, ITSC 1407 or ITNW 1454, ITSE 2409 or ITSE 1445.

MINIMUM SEMESTER CREDIT HOURS = 34

BCIS 1405
Business Computer Applications (3-3) **4 Hours**
Computer terminology, hardware, software, operating systems, and information systems relating to the business environment. The main focus of this course is on business applications of software, including word processing, spreadsheets, databases, presentation graphics, and business-oriented utilization of the Internet. This course is designed for business majors who plan to transfer to a four year school.

BCIS 2390
Systems Analysis & Design (3-0) **3 Hours**
Analysis of business information needs and preparation of specifications and requirements for appropriate data system solutions. Includes instruction in information requirements analysis, specification development and writing, prototype evaluation, and network application interfaces (can be used in place of ITSE 1350).

CETT 1403
DC Circuits (3-3) **4 Hours**
A study of the fundamentals of direct current including Ohm's law, Kirchhoff's laws and circuit analysis techniques. Emphasis will be on circuit analysis of resistive networks and DC measurements. The student will apply safety techniques while working on and troubleshooting various circuits and components; interpret color codes and other descriptors used in electronics; identify various sources of electricity in DC circuits; interpret characteristics of voltage, current, resistance, and power in DC circuits; measure voltage, current, and resistance in DC circuits using appropriate measuring devices; analyze DC circuits using appropriate mathematical formulas such as Ohm's Law, Kirchhoff's Law, and the power formula; and troubleshoot various DC circuits using schematics diagrams.

CETT 1405
AC Circuits (3-3) **4 Hours**
A study of the fundamentals of alternating current including series and parallel AC circuits, phasors, capacitive and inductive networks, transformers, and resonance. The student will demonstrate appropriate use of test equipment; identify various sources of electricity in AC circuits; analyze AC circuits using appropriate mathematical formulas; troubleshoot various AC circuits using schematic diagrams; and apply and interpret basic principles of magnetism. Prerequisite: CETT 1403

CETT 1425
Digital Fundamentals (3-3) **4 Hours**
An entry level course in digital electronics covering number systems, binary mathematics, digital codes, logic gates, Boolean algebra, Karnaugh maps, and combinational logic. Emphasis will be on circuit logic analysis and troubleshooting digital circuits. Students will learn to analyze digital circuits such as combinational logic circuits, clocking and timing circuits, and analog-to-digital and digital-to-analog devices; troubleshoot various digital circuits using schematic diagrams; and solve problems involving binary, octal, decimal, and hexadecimal numbering systems.

CETT 1441
Solid State Circuits (3-3) **4 Hours**
A study of various semiconductor devices incorporated in circuits and their applications. Emphasis on circuit construction, measurements, and analysis. The student will analyze circuit operation with various semiconductor device applications; measure, test, and troubleshoot circuits containing various semiconductor devices; describe the AC small signal development from input to output of a FET voltage follower/configuration and the AC small signal development from input to output of a BJT push-pull amplifier. Prerequisites: CETT 1403 and CETT 1405

CETT 2380
Cooperative Education-Computer Engineering Technology/Technician (1-0-20) **3 Hours**

Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience directly related to a technical discipline, specific learning objectives guide the student through work experience. This course may be repeated if topics and learning outcomes vary. Prerequisite: 12 semester credit hours.

COSC 1420
"C" Programming I (3-3) **4 Hours**

Introduction to computer programming in the "C" programming language. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files. Co-requisite: ITSE 1191 or consent of instructor.

COSC 1430
Computer Programming (3-3) **4 Hours**

Introduction to computer programming in various programming languages. Emphasis on the fundamentals of structured design, development, testing, implementation, and documentation. Includes coverage of language syntax, data and file structures, input/output devices, and disks/files.

COSC 2420
"C" Programming II (3-3) **4 Hours**

Further applications of programming techniques in the "C" programming language. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course. Prerequisite: COSC 1420

COSC 2430
Advanced Structured Languages (3-3) **4 Hours**

Further applications of programming techniques. Topics may include file access methods, data structures and modular programming, program testing and documentation, and other topics not normally covered in an introductory computer programming course.

CPMT 1303
Introduction to Computer Technology (3-1) **3 Hours**

A fundamental computer course that provides in-depth explanation of the procedures to utilize hardware and software. Emphasis on terminology, acronyms, and hands-on activities.

CPMT 2380
Cooperative Education-Computer Maintenance Technology/Technician (1-0-20) **3 Hours**

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. As outlined in the learning plan, Apply the theory, concepts, and skills involving specialized materials, tools, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, social, and legal systems associated with the occupation and the business/industry and will demonstrate legal and ethical behavior, safety practices, interpersonal and teamwork skills, and appropriate written and verbal communication skills using the terminology of the occupation and the business/industry. This course may be repeated if topics and learning outcomes vary. Prerequisite: 12 semester credit hours.

CPMT 2445
Computer Systems Troubleshooting (3-3) **4 Hours**
Principles and practices involved in computer system troubleshooting techniques and repair procedures including advanced diagnostic test programs and the use of specialized test equipment. The student will develop hardware and software troubleshooting techniques and perform procedures used in troubleshooting. Prerequisites: CPMT 1303, ITSC 1407 and ITNW 1454

ELMT 2339
Advanced Programmable Logic Controllers (2-4) **3 Hours**
Advanced applications of programmable logic controllers as used in industrial environments including concepts of programming, industrial applications, troubleshooting ladder logic, and interfacing to equipment. Prerequisite: CETT 1409 and CPMT 1303 or permission of instructor.

IMED 2309
Internet Commerce (3-0) **3 Hours**
An overview of the Internet as a marketing and sales tool with emphasis on developing a prototype for electronic commerce. Topics include database technology, creating web sites in order to collect information, performing on-line transactions, and generating dynamic content. Prerequisites: BUSG 1391-Special Topics: Fundamentals of Electronic Business and ITSE 2313 Web-Authoring.

ITCC 1402
CCNA 1: Networking Basics (3-3) **4 Hours**
A course introducing the basics of networking including network terminology, local area networks (LAN) and wide area networks (WAN). Topics include network protocols such as TCP/IP, Open System Interconnection (OSI) models, cabling and routers. The student will identify the seven layers of the OSI model and describe the functions of each; describe the proper selection of network cable and devices; perform structured cable installation, install a local area net- work (LAN) and configure network devices and nodes; define the five steps of data encap- sulation, and identify the functions of the TCP/IP network-layer protocol.

ITCC 1406
CCNA 2: Router and Routing Basics (3-3) **4 Hours**
An introduction to basic Cisco router configuration for local area networks. Topics include initial router configuration for TCP/IP, management of Cisco IOS and router configuration files, routing protocols, and access control lists. The student will con- figure and manage routers and subnets utilizing TCP/IP protocol and router protocol RIP, backup and restore router configurations, upgrade router operating systems, create and configure routers to manage subnets, and install security measures on routers. Prerequisite: ITCC 1402

ITCC 1442
CCNA 3: Switching Basic and Intermediate routing (3-3) **4 Hours**
A course focusing on advanced topics including IP addressing techniques, intermediate routing protocols, CLI configuration of switches, Ethernet switching, VLANs, Spanning Tree Protocol, and VLAN Trunking Protocol. The student will configure router for networks in the IPX environment; describe and implement local area network (LAN) segmentation bridges, switches, and routers; identify and solve network congestion problems. Prerequisite: ITCC 1406

ITCC 1446
CCNA 4: WAN Technologies (3-3) **4 Hours**
This course focuses on advanced IP addressing techniques (Network Address Translation [NAT], Port Address Translation [PAT], and DHCP), WAN technology and terminology, PPP, ISDN, DDR, Frame Relay, network management and introduction to optical networking. In addition, the student will prepare for the CCNA exam. The student will describe, differentiate and select wide area network (WAN) services; configure and monitor wide area network (WAN) services; encapsulate wide area network (WAN) data; and identify the use of ISDN and HDLC. Prerequisite: ITCC 1442

ITNW 1351
Fundamentals of Wireless LANS (3-1) **3 Hours**

A course in the designing, planning, implementing, operating, and troubleshooting of wireless LANs (WLANs). Includes WLAN design, installation, and configuration; and WLAN security issues and vendor interoperability strategies. The class will explain wireless technologies, topographies, and standards; design, install, configure, monitor, maintain, and troubleshoot wireless solutions; and implement wireless security using MAC filtering, WEP, LEAP, EAP, and 802.1x technologies. Prerequisites: CPMT 1303 and ITCC 1402

ITNW 1380
Cooperative Education-Business Systems
Networking and Telecommunications (1-0-20) **3 Hours**

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws, and inter- actions within and among political, economic, environmental, and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behavior, safe- ty practices, interpersonal and teamwork skills, communicating in the applicable technical language of the occupation and the business or industry. Prerequisite: 12 semester credit hours.

ITNW 1448
Implementing and Supporting Client Operating Systems (3-3 **4 Hours**

Skills development in the management of client as desktop operating systems. Install and configure network clients; set up users, groups, policies, and profiles; configure hardware components and applications; set up and maintain a logon security and security for files and printers; configure clients in multiple environments including Microsoft, TCP/IP, and Novell Networks. Implement dial up networking and tune system performance. The operating system used in the course is Windows 2000 Professional. Note: This class replaces ITMC 1441.

ITNW 1453
Supporting Network Server Infrastructure (3-3) **4 Hours**

Skills development in installing, configuring, managing and supporting a network infrastructure, automate Internet Protocol (IP) assignment using DHCP, configure DNS services, configure and support remote access to a network; configure network security, and integrate network services for Windows. Prerequisites: ITSC 1407 and ITNW 1454

ITNW 1445
Implementing and Supporting Servers (3-3) **4 Hours**

A course in the development of skills necessary to implement, administer, and troubleshoot information systems that incorporate Windows Based Servers in a networked computing environment. Configure peripherals and devices; set up servers for various client computers; configure directory replication; manage licensing, user groups accounts, user profiles, system policies, and profiles. Administer remote servers and disk resources; create and share resources; implement permissions and security; implement fault-tolerance data storage measures and configure servers for interoperability with various network operating systems servers. Install and configure Remote Access Service (RAS). Identify and monitor performance bottlenecks and resolve configuration problems. Operating system used Windows 2000 Advanced Server. Prerequisite: knowledge of operating systems. Note: This class replaces ITMC 2430.

ITNW 2405
Network Administration (3-3) **4 Hours**

Topics include network components, user accounts and groups, network file systems, file system security, and network printing. The student will describe the components of a local area network and their relationship; create and administer user accounts and groups; plan and set up network file systems; create effective file system security; and implement and administer network printing. Prerequisite: ITSW 1407 and ITNW 1154 or ITNW 1448 or permission of the instructor.

ITSC 1191
Special Topics in Computer and Information Sciences, General (1-0) 1 Hour
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. This course was designed to be repeated multiple times to improve student proficiency. The Student will learn to use the Internet including performing simple searches, learn how to use the Microsoft Office Suite of application software, and learn how to organize files and folders.

ITSC 1407
UNIX Operating System I (3-3) 4 Hours
A study of the UNIX operating system including multi-user concepts, terminal emulation, use of system editor, basic UNIX commands, and writing script files. Topics include introductory systems management concepts. The student will demonstrate proper use of basic UNIX commands; define and apply terminal emulation; use the system editor to create script files; create and manage user accounts; and effectively manage the user file system.

ITSC 1409
Integrated Software Applications I (3-3) 4 Hours
Integration of applications from popular business productivity software suites. Instruction in embedding data, linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software. The student will use word processing, spreadsheet, database, and/or presentation media software; and demonstrate ability to apply integration techniques and produce combined documents.

ITSC 2421
Integrated Software Applications II (3-3) 4 Hours
Continued study of computer applications from business productivity software suites. Instruction in embedding data and linking and combining documents using word processing, spreadsheets, databases, and/or presentation media software. The student will use word processing, spreadsheet, database, and/or presentation media software; apply integration techniques and produce combined documents; and explain the process of integrating between applications. Prerequisite: ITSC 1409

ITSC 2437
UNIX Operating System II (3-3) 4 Hours
Continued study of the UNIX operating system commands. Includes additional scripting topics such as CGI or PERL.The student will perform a successful UNIX system installation; analyze the performance of a UNIX operating system; demonstrate an under-standing of basic network concepts using TCP/IP; and explain concepts of data integrity and system security. Prerequisite: ITSC 1407

ITSE 1191
Special Topics in Computer Programming
(Introduction to Programming Logic) (1-0) 1 Hour
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student. Learning outcomes/objectives are determined by local occupational need and business and industry trends.

ITSE 1350
System Analysis and Design (3-0) 3 Hours
Comprehensive introduction to the planning, design, and construction of computer information systems using the systems development life cycle and other appropriate design tools. The student will use system design tools; exhibit knowledge of all phases of the system design life cycle; demonstrate prototype concepts; differentiate tools used for project management; and develop documentation for each phase of the system life. Prerequisite: ITSC 1409 and ITSE 2409

ITSE 1356
Introduction to XML (3-0) **3 Hours**

Introduction of skills and practice related to the Extensible Markup Language/Simple Object Access Protocol. Topics to be covered will include: elements, attributes, name-spaces, entities, and what constitutes a well-formed document. The student will be able to describe how XML can be applied to well-constructed documents for Web browser-based technology in business information systems; explain the SOAP message exchange model; describe XML syntax; identify concepts related to connecting resources with links, CSS, DTD, and internationalization; develop well-formed web browser-based documents utilizing XML; develop code to demonstrate understanding of knowledge related to XML and SOAP.

ITSE 1380, 2380
Cooperative Education-
Computer Programming/Programmer (1-0-20) **3 Hours**

Career-related activities encountered in the student's area of specialization offered through an individualized agreement among the college, employer, and student. Under the supervision of the college and the employer, the student combines classroom learning with work experience. Includes a lecture component. Under super- vision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through the paid work experience. This course may be repeated if topics and learning outcomes vary. As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behavior, safety practices, inter-personal and teamwork skills, communicating in the applicable technical language of the occupation and the business or industry. Prerequisite: 12 semester credit hours.

ITSE 1431
Introduction to Visual BASIC Programming (3-3) **4 Hours**

Introduction to computer programming using Visual BASIC. Emphasis on the fundamentals of structured design, development, testing,implementation, and documentation. Includes language syntax, data and file structures, input/output devices, and files. The student will use structured programming techniques; develop correct executable programs; create appropriate documentation; and create applicable graphical user interfaces. Co-requisite: ITSE 1191 or consent of instructor.

ITSE 1445
Introduction to Oracle SQL (3-3) **4 Hours**

An introduction to the design and creation of relational databases using Oracle. Topics include storing, retrieving, updating, and displaying data using Structured Query Language (SQL). The student will write Structured Query Language (SQL) state- ments using Oracle; select and sort data; and produce reports with SQL Plus. The student will create and manage tables which include constraints; create Views and other database objects; and develop procedures and functions using PL/SQL.

ITSE 2313
Web Authoring (3-0) **3 Hours**

Instruction in designing and developing web pages that incorporate text, graphics, and other supporting elements using current technologies and authoring tools. The student will create functional web pages and supporting elements using current authoring tools; and maintain web pages and supporting elements. This course will use Microsoft FrontPage and DreamWeaver software.

ITSE 2409
Database Programming (3-3) **4 Hours**

Application development using database programming techniques emphasizing database structures, modeling, and database access. The student will develop database applications using a structured query language; create queries and reports from database tables, and create appropriate documentation.

ITSE 2437
Assembly Language Programming (3-3) **4 Hours**
Comprehensive coverage of low-level computer operations and architecture. Includes design, development, testing, implementation, and documentation of programs; language syntax; data manipulation; input/output devices and operations; and file access. The student will explain the interaction between machine-level operations and computer architecture; develop correct executable programs; create appropriate documentation; and incorporate appropriate input/output and file handling. Co-Requisite: ITSE 1191 or consent of instructor.

ITSE 2454
Advanced Oracle PL/SQL (3-3) **4 Hours**
A continuation of Oracle SQL. Topics include hierarchical queries, set based queries, correlated subqueries, scripting, and scripting generation. The student will retrieve data including SET operators, correlated subqueries, and hierarchical queries; write SQL scripts that generate other SQL scripts; and write and execute a script that generates a script of drop table commands and insert commands; create procedures and functions; create a package to group together variables, cursors, exceptions, procedures, and functions; and invoke a package constraint. Prerequisite ITSE 1445

ITSE 2447
Advanced Database Programming (3-3) **4 Hours**
Application development using complex database programming techniques emphasizing multiple interrelated files, menu design, security implementation, and multiple access. The student will develop complex database applications using a structured query language; incorporate security and error trapping; and develop menu-driven database systems. Prerequisite: ITSE 2409 and ITSE 1431 or permission of instructor.

ITSE 2449
Advanced Visual BASIC Programming (3-3) **4 Hours**
Further applications of programming techniques using Visual BASIC. Topics include file access methods, data structures and modular programming, program testing and documentation. The student will develop correct, well documented programs containing complex data structures; incorporate complex input/output file handling techniques; develop graphical user interfaces to other software applications; and integrate external programs and libraries with Visual Basic applications. Prerequisite: ITSE 2409 and ITSE 1431 or permission of instructor.

ITSY 2400
Operating System Security (3-3) **4 Hours**
Safeguard computer operating systems by demonstrating server support skills and designing and implementing a security system. Identify security threats and monitor network security implementations. Use best practices to configure operating systems to industry security standards.

KINESIOLOGY/PHYSICAL EDUCATION

Dean:	William Morris	141a AFA	685-4640
Program Director:	Ann Leach	119 PE	685-4579
Faculty:	Erica Elder	147 PE	685-4650
	Grant McCasland	137 PE	685-4577
	Sonya Mikeska	Training Room PE	685-4715
	Delnor Poss	112 PE	685-4576
	Steve Ramharter	140 PE	685-5561
	Tommy Ramos	132 PE	685-4701
Division Secretary:	Monica Sosa	141 AFA	685-4640

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts or Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: BIOL 1406 and BIOL 1407, or BIOL 2401 and BIOL 2402, MATH 1314* or MATH 1332*

Suggested Courses for Field of Study **11 Semester Credit Hours**

KINE 1301

Two (2) KINE activity courses

Choice of two depending on career goals: KINE 1304, KINE 1306, KINE 1321, or KINE 2356

Related Courses **9-14 Semester Credit Hours**

For an Associate of Science add 9 semester credit hours of electives; for an Associate of Arts add 6-8 semester credit hours of Modern Language courses and one English literature course.

MINIMUM SEMESTER CREDIT HOURS = 62

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

ACTIVITY COURSES

Kinesiology/Physical Education **activity classes** at Midland College are designed to supplement the overall education experience through the development and measurement of the skills involved. Classes also include strategies and concepts as they relate to those activities. Students are allowed a maximum of 4 semester credit hours in activity courses toward their degree. Kinesiology/Physical Education majors are allowed a maximum of 8 semester credit hours toward their degree. Each course number may be taken twice for credit.

The “Physical Fitness” course offerings are designed to develop a holistic approach to living. Specifically the courses cover the components of cardio-respiratory conditioning, muscular strength/endurance training, flexibility development, nutrition and weight control, and other related topics.

KINE 1100, 21001 hour
Physical Fitness: Coed (0-3) **1 Hour**

Participation in a variety of fitness activities for men and women. (3601085123)

KINE 1101, 2101
Physical Fitness: Women (0-3) **1 Hour**
Participation in a variety of fitness activities designed specifically for women. (3601085123)

KINE 1102, 2102
Physical Fitness: Men (0-3) **1 Hour**
Participation in a variety of fitness activities designed specifically for men. (3601085123)

KINE 1103, 2103
Physical Fitness: Circuit Weight Training (0-3) **1 Hour**
Participation in resistance and cardio stations that alternate on a one minute timed interval. (3601085123)

KINE 1104, 2104
Physical Fitness: Walk/Jog (0-3) **1 Hour**
Participation in cardio-respiratory conditioning through the development of walking, jogging techniques. (3601085123)

KINE 1105, 2105
Physical Fitness: Individualized Fitness (0-3) **1 Hour**
For the non-traditional student whose schedule does not allow consistent attendance during the typical school day. Enrollment is permitted by instructor approval prior to the start of the semester. The course requires participation in a variety of fitness activities that will be designed on an individual basis. (3601085123)

KINE 1106, 2106
Pilates (0-3) **1 Hour**
Participation in a series of exercises designed to incorporate a mind/body relationship to strengthen the body's core along with the entire body. (3601085123)

KINE 1107, 2107
Physical Fitness: Swimming (0-3) **1 Hour**
Participation in cardio-respiratory development, and muscular toning and strengthening, through lap swimming. Basic swimming skills are required for enrollment. (3601085123)

KINE 1108, 2108
Step Aerobics (0-3) **1 Hour**
Participation in cardio workouts that incorporate step patterns utilizing an aerobic step. Other equipment may also be utilized. (3601085123)

KINE 1109, 2109
Kick-boxing Aerobics (0-3) **1 Hour**
Participation in cardio workouts that incorporate the use of martial art techniques performed to music. (3601085123)

KINE 1110, 2110
Water Aerobics (0-3) **1 Hour**
Participation in cardio workouts that utilize a swimming pool and a variety of floatation equipment. Basic swimming skills are not required. (3601085123)

KINE 1113, 2113
Yoga (0-3) **1 Hour**
Participation in a series of poses designed to incorporate a mind/body relationship to strengthen the entire body. (3601085123)

KINE 1115 ,2115
Swimming (0-3) **1 Hour**
A learn-to-swim course for beginners or advanced beginners. (3601085123)

KINE 1116, 2116
Mu Duk Quan (0-3) **1 Hour**
Original Korean martial art, forerunner of Tae Quon Do. (3601085123)

KINE 1117, 2117
Aikido (0-3) **1 Hour**
Non-combative self defense. (3601085123)

KINE 1118, 2118
Tae Quon Do (0-3) **1 Hour**
Introduction to the basic techniques, applications, and philosophy of Tae Quon Do. (36010851283)

KINE 1119, 2119
Judo (0-3) **1 Hour**
The "gentle way" martial art widely used by police departments and women in the military. It utilizes grappling and throws. (3601085123)

KINE 1120, 2120
Self Defense (0-3) **1 Hour**
The development of basic, realistic and practical self defense strategies. (3601085123)

KINE 1121
Soo Bahk Do **1 Hour**

The "Skilled Related" courses are designed to develop specific skills/drills, techniques, strategies, rules and regulations. (3601085123)

KINE 1125, 2125 **KINE 1126, 2126** **1 Hour**
Basketball (0-3) **Bowling (0-3)**
(3601085123) **(3601085123)**

KINE 1127, 2127 **KINE 1128, 2128** **KINE 1129, 2129** **1 Hour**
Golf (0-3) **Racquetball (0-3)** **Soccer (0-3)**
(3601085123) **(3601085123)** **(3601085123)**

KINE 1130, 2130 **KINE 1131, 2131** **1 Hour**
Tennis (0-3) **Volleyball (0-3)**
(3601085123) **(3601085123)**

KINE 1151
Scuba (1-2) **1 Hour**
Students in this class will be instructed in the use of SCUBA equipment and practice their skills in deep water. There may be an out of town trip to open water. Prerequisite: Demonstrated swimming skills. (3601085123)

KINE 1171, 2171
Athletic Training Practicum (0-3) **1 Hour**
This course is the practical application of the skills for athletic trainers. Prerequisite is admission to the Athletic Trainers Program or consent of the instructor. Corequisite KINE 2356 may be taken more than once for credit. (3601085123)

KINE 1172, 2172 **KINE 1173, 2173** **KINE 1174, 2174** **1 Hour**
Men's **Women's)** **Varsity**
Basketball (0-3) **Basketball (0-3)** **Softball (0-3)**
(3601085123) **(3601085123)** **(3601085123)**

KINE 1175, 2175 **KINE 1176, 2176** **KINE 1177, 2177** **1 Hour**
Varsity Baseball (0-3) **Varsity Golf (0-3)** **Varsity Volleyball (0-3)**
(3601085123) **(3601085123)** **(3601085123)**

KINE 1178, 2178
Drill Dance & Cheerleading (0-3) **1 Hour**
(3601085123)

LECTURE COURSES

KINE 1301
Introduction to Physical Education, Fitness, and Sport (3-0) **3 Hours**
"Introduction to PEFS" is the study of the aims, objectives, curriculum, and historical/philosophical orientation of Kinesiology. Students will also gain knowledge of career opportunities in the field. (3105015223)

KINE 1304
Personal and Community Health (3-0) **3 Hours**
"Personal and Community Health" is the investigation of the "wellness" of individual body organs and systems, and of public health organizations, and services. (5115045116)

KINE 1306
First Aid (3-0) **3 Hours**
Instruction in and practice of first aid techniques. (5115045316)

KINE 1308
Sports Officiating I (2-2) **3 Hours**
"Sports Officiating" covers athletic supervisory organizations as well as the methods and techniques of officiating football, volleyball, and basketball. The lab component will consist of game observation, some actual game officiating, and personal physical conditioning. (3101015123)

KINE 1309
Sports Officiating II (2-2) **3 Hours**
This course is the continuation of "Sports Officiating I." The students study athletic supervisory organizations as well as the methods and techniques of officiating basketball, softball and baseball, and soccer. They will also study the organization of tournaments. The lab component will consist of game observation, some actual game officiating, and personal physical conditioning. (3101015123)

KINE 1321
Sports Studies (3-0) **3 Hours**
This course is designed for students to explore sports and athletic programs. Material covers the theories of organization, administrative supervision, management, and development of athletic program. (3105055123)

The following courses, KINE 1136 - 1141, are introductions to the theories and techniques of coaching specific sports.

KINE 1136	**KINE 1137**	**KINE 1138**	**1 Hour**
Coaching	**Coaching**	**Coaching**	
Baseball (1-0)	**Basketball (1-0)**	**Football (1-0)**	
(3601085123)	(3601085123)	(3601085123)	
KINE 1139	**KINE 1140**	**KINE 1141**	**1 Hour**
Coaching	**Coaching**	**Coaching**	
Soccer (1-0)	**Softball (1-0)**	**Volleyball (1-0)**	
(3601085123)	(3601085123)	(3601085123)	

KINE 1331
Physical Education for Elementary School (3-0) **3 Hours**
This course covers programs for teaching and performing Kinesiology activities for elementary school children. (3105015223)

KINE 2156
Taping and Bandaging **1 Hour**
This course provides the fundamental taping and bandaging techniques used in the prevention and care of athletic related injuries. Co-requisite of KINE 2356. (3105035123)

KINE 2356
The Prevention and Care of Athletic Injuries (3-0) **3 Hours**
This course is the study of the role of the athletic trainer in the prevention and care of physical problems common to participation in athletics and sports. Included are discussions of assessment, preventive techniques and treatment, decision making, rehabilitation, record keeping, materials and equipment, and ethical behavior. Pre-requisite: KINE 1306 Co-requisite: 2156. (3105035223)

LEGAL ASSISTANT

Dean:	Gavin Frantz	142 T	685-4657
Faculty:	Andree Rosen	115a T	686-4572
Division Secretary:	Leslie Montez	142 T	685-6447

For program information please call (432) 685-4657.

The legal assistant curriculum was developed to qualify men and women for positions as assistants or aides to the legal profession. Upon completion of this curriculum, the legal assistant graduate will qualify to work under the supervision of a lawyer and may perform such duties as investigation, case screening and evaluation, detail work pertaining to probate matters, searching public records and court files, office management, accounting, library service, preparation of legal memoranda, servicing and filing of legal documents and preparing legal forms.

A graduate from an accredited college or university holding a baccalaureate degree may receive an AAS Degree upon successful completion of approximately thirty-four (34) semester hours of specialty and any appropriate leveling courses as determined by the Division Dean.

This is a Tech-Prep program that provides students with opportunities to gain advanced technical skills. High school students may receive college credit for approved courses taken during high school. High school students should discuss this option with their high school counselor. Others may contact the department head at Midland College for information.

The degrees and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: ECON ELECTIVE OR PSYC 2301, GOVT 2301, GOVT 2302

Specialty Courses **36 Semester Credit Hours**

LGLA 1311, LGLA 1313, LGLA 1317, LGLA 1301, LGLA 1345, LGLA 2305, LGLA 2331, LGLA 2335, four specialty electives.

Related Courses **18 Semester Credit Hours**

POFT 1309, POFT 1429 or *ITSW 1401, POFT 1301 or ENGL 1301, BUSI 2301, ACNT elective, two KINE activity courses

MINIMUM SEMESTER CREDIT HOURS = 69

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: LGLA 2305.

Basic Use of Computers: POFT 1429, *ITSW 1401 or LGLA 1317

Beginning Legal Technician Certificate

Specialty Courses **9 Semester Credit Hours**

LGLA 1311, LGLA 1313, LGLA 1345

Related Courses **10 Semester Credit Hours**

POFT 1309, POFT 1429 or *ITSW 1401, POFT 1301 or ENGL 1301

MINIMUM SEMESTER CREDIT HOURS = 19

National Association of Legal Assistants (NALA)

In the semester prior to graduation, students become eligible to take the NALA Certified Legal Assistant Examination (CLA). Full-time students and/or those taking all legal assistant courses may qualify for student membership in national organizations and other professional paralegal associations.

LGLA 1301
Legal Research and Writing (3-0) **3 Hours**
This course provides a working knowledge of the fundamentals of effective legal research and writing. Topics include law library techniques, computer-assisted legal research, briefs, and legal memoranda. Locate, read, and understand primary and secondary legal authority; design and implement effective research strategies; and write clear, concise legal memoranda and briefs.

LGLA 1311
Introduction to Law (3-0) **3 Hours**
This course provides an overview of the law and the legal systems. Topics include legal concepts, procedures, terminology and current issues in law. The student will develop a legal vocabulary and explain fundamental legal concepts and systems.

LGLA 1313
Introduction to Paralegal Studies (3-0) **3 Hours**
This course provides an overview of the paralegal profession including ethical obligations, regulation, professional trends and issues, and the paralegal's role in assisting the delivery of legal services. The student will develop a legal vocabulary; explain the ethical obligations of the legal professional, particularly the paralegal; explain the paralegal's role in assisting the delivery of legal services; and discuss topics relating to the paralegal profession.

LGLA 1317
Law Office Technology (3-0) **3 Hours**
This course introduces computer technology and its application within the law office. Topics include the use of computer technology in the delivery of legal services with particular emphasis on the paralegal's role. The student will explain the use of personal computer applications in the law office and demonstrate the ability to use computer technology to assist in the delivery of legal services.

LGLA 1343
Bankruptcy (3-0) **3 Hours**
This course presents fundamental concepts of bankruptcy law and procedures with emphasis on the paralegal's role. Topics include individual and business liquidation and reorganization.

LGLA 1345
Civil Litigation (3-0) **3 Hours**
This course presents fundamental concepts and procedures of civil litigation with emphasis on the paralegal's role. Topics include pretrial, trial, and post trial phases of litigation. The student will define and properly use terminology relating to civil litigation; locate, describe, and analyze sources of law relating to the civil litigation process; describe the role and ethical obligation of the paralegal in civil litigation; and draft documents commonly used in civil litigation.

LGLA 1349
Constitutional Law (3-0) **3 Hours**
This course provides an overview of the United States Constitution and its articles, amendments, and judicial interpretations. Topics include separation of powers, check and balances, governmental structures and process, and individual rights in relation to government. The student will define and properly use terminology relating to constitutional law locate, describe, analyze other sources of law relating to constitutional law; and analyze the U.S. constitution and its amendments.

LGLA 1353
Wills, Trusts and Probate Administration (3-0) 3 Hours
This course presents fundamental concepts of the law of wills, trusts, and probate administration with emphasis on the paralegal's role. The student will define and properly use terminology relating to wills, trusts, and probate administration; locate, describe, and analyze sources of law relating to wills, trusts, and probate administration; describe the role and ethical obligations of the paralegal in wills, trusts, and probate administration; and draft documents commonly used in wills, trusts, and probate administration.

LGLA 1355
Family Law (3-0) 3 Hours
This course presents fundamental concepts of family law with emphasis on the paralegal's role. Topics include formal and informal marriages, divorce, annulment, marital property, and the parent-child relationship. The student will define and properly use terminology relating to family law; locate, describe, and analyze sources of law relating to family law; describe the role and ethical obligations of the paralegal in family law; and draft documents commonly used in family law.

LGLA 1391
Special Topics in Paralegal/ Legal Assistant (3-0) 3 Hours
Topic address recently identified current events, skills, knowledge, and/or attitudes and behavior pertinent to the technology or occupation and relevant to the professional development of the student. Learning outcomes/objectives are determined by local occupational need and business and industry trends.

LGLA 2239
Certified Legal Assistant Review (2-0) 2 Hours
This course provides a review of the mandatory and optional topics covered in the Certified Legal Assistant Examination administered by the National Association of Legal Assistants. The student will demonstrate knowledge of the subject matter areas covered in the Certified Legal Assistant Examination.

LGLA 2303
Torts and Personal Injury Law (3-0) 3 Hours
This course presents fundamental concepts of tort law with emphasis on the paralegal's role. Topics include intentional torts, negligence, and strict liability. The student will define and properly use terminology relating to tort law; describe the role and ethical obligations of the paralegal in tort law; and draft documents commonly used in tort law.

LGLA 2305
Interviewing and Investigating (3-0) 3 Hours
This course is a study of the principles, methods, and investigating techniques utilized to locate, gather, document, and manage information. Emphasis on developing interviewing and investigative skills to prepare the paralegal to communicate effectively while recognizing ethical problems. The student will demonstrate an understanding of how to prepare for and conduct an interview with a client and /or witness in preparation for the dispute resolution process; identify and explore sources of information required to resolve legal disputes; and understand the ethical obligations of the lawyers and paralegal in interviewing and investigation.

LGLA 2309
Real Property (3-0) 3 Hours
This course presents fundamental concepts of real property law with emphasis on the paralegal's role. Topics include the nature of real property, rights and duties of ownership, land use, voluntary and involuntary conveyances, and the recording of and searching for real estate documents. The student will define and properly use terminology relating to real property; locate, describe, and analyze sources of law relating to real property; describe the role and ethical obligation of the paralegal regarding real property transactions; and draft documents commonly used in real property transactions.

LGLA 2315
Oil and Gas Law (3-0) **3 Hours**

This course presents fundamental concepts of oil and gas law including the relationship between landowners and oil and gas operators, government regulations, and documents used in the industry. The student will define and properly use terminology relating to oil and gas law; describe the role and ethical obligations of legal professionals in oil and gas law; and draft documents commonly used in oil and gas law.

LGLA 2331
Advanced Legal Research and Writing (3-0) **3 Hours**

This course builds upon skills acquired in prior legal research and writing courses including computerized research techniques and preparation of complex legal documents such as briefs, legal office memoranda, and citation forms. The student will analyze complex legal research strategies to resolve those issues and apply effective research strategies to resolve those issues and report the result in an acceptable written legal format.

LGLA 2335
Advanced Civil Litigation (3-0) **3 Hours**

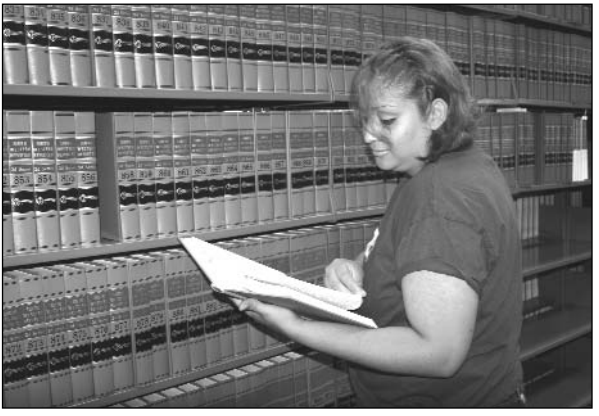
This course provides opportunities to implement advanced civil litigation techniques and builds upon skills acquired in prior civil litigation courses. The student will analyze complex fact situations; identify appropriate legal issues; research applicable sources of law; formulate theories; and generate appropriate litigation documents.

LGLA 2370
Oil and Gas Documents (3-0) **3 Hours**

This course presents an in-depth examination of documents used in the petroleum industry, leases and other legal documents. This course is designed for students who have completed a course in basic oil and gas law or land administration or who are familiar with land administration practice and procedure.

LGLA 2380 OR 2381
Cooperative Education - Paralegal/Assistant (1-0-20) **3 Hours**

Career related activities encountered in the student's area of specialization are offered through a cooperative agreement between the college, employer, and student. Under supervision of the college and the employer, the student combines classroom learning with work experience. Directly related to a technical discipline, specific learning objectives guide the student through work experience. This course may be repeated if topics and learning outcomes vary. As outlined in the learning plan, the student will master the theory, concepts, and skills involving the tools, materials, equipment, procedures, regulations, laws, and interactions within and among political, economic, environmental, and legal systems associated with the particular occupation and the business/industry; demonstrate ethical behavior, safety practices, interpersonal and teamwork skills, communicating in the applicable technical language of the occupation and the business or industry.



LONG TERM CARE ADMINISTRATION

Dean:	Becky Hammack	209a DFH	685-4589
Program Director:	Ed Penz	219 DFH	685-4591
Division Secretary:	Kay Floyd	209b DFH	685-4600

Midland College is approved by the Texas Department of Human Services, Long Term Care Credentialing to offer the five courses and the internship program to those seeking to become Licensed Nursing Home Administrators in the State of Texas. Five courses are offered via the internet and are available through the Midland College website (*www.midland.edu*) using the Blackboard program. For details regarding the internship through Midland College call (432) 685-4591.

In order to become a Licensed Long Term Care Administrator in the State of Texas, an individual must possess a bachelors degree, complete the five academic courses and the 1,000 clock hour internship, make application to the state and successfully pass the National Association of the Board of Examiners for Nursing Home Administrators (NAB) exam.

Certificate

Specialty Courses ***31 Semester Credit Hours**

LTCA 1311, LTCA 1312, LTCA 1313, LTCA 2288, LTCA 2289, LTCA 2688, LTCA 2314, LTCA 2315, LTCA 2689

*Credit may be awarded for the following classes if the 1,000 hour internship is completed with a state approved preceptor: LTCA 2288, 2289, 2688 and 2689.

Electives **9 Semester Credit Hours**

MINIMUM SEMESTER CREDIT HOURS = 40

LTCA 1300
Assisted Living Facilities Management (3-0-0) **3 Hours**

This course is a focused study of assisted living facility management. Topics include: an overview of federal, state and local laws and regulations, organizational principles, human resources, resident care and rights including assessment of resident needs and service delivery, environment, financial management, and Alzheimer's disease and other conditions of dementia.

LTCA 1311
Introduction to Long Term Care Administration (3-0-0) **3 Hours**

This course is an overview of the long term care industry. It includes a survey of the history and philosophy of administration and provides an introduction to and application of regulatory standards. Specializations within the long term health care industry are also discussed.

LTCA 1312
Resident Care in the Long Term Care Facility (3-0-0) **3 Hours**

This course is a study of the delivery of quality services to residents of long term care facilities. An overview of the methods for assessing and implementing strategies to promote quality resident care and a presentation of philosophical and ethical considerations are also covered.

LTCA 1313
Organization and Management of Long Term Care Facilities (3-0-0) **3 Hours**

An overview of the functional organizational structures common to long term health care facilities. An examination of the departments in long-term care facilities, chain of command, personnel, regulatory requirements, quality indicators, and the role of the long term care administrator.

LTCA 2288
Internship I (0-0-8) **2 Hours**

This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

LTCA 2289
Internship II (0-0-8) **2 Hours**
This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

LTCA 2314
Long Term Care Law (3-0-0) **3 Hours**
This course is an examination of the types and sources of law relating to the long term care industry by studying federal, state and local statues and regulations affecting the long term care industry.

LTCA 2315
Financial Management of a Long Term Care Facility (3-0-0) **3 Hours**
This course is a study of the techniques and strategies for gathering and using financial information to make decisions in the long term care facility. An examination of budget processes, accounting principles, financial statements, inventory controls. The special accounting requirements of Medicare, Medicaid, and other third-party payment systems will be discussed.

LTCA 2688
Internship III (0-0-24) **6 Hours**
This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

LTCA 2689
Internship IV (0-0-24) **6 Hours**
This course is a work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. A learning plan is developed by the college and the employer.

GERS 1301
Introduction to Gerontology (3-0-0) **3 Hours**
This course is an overview of the social, psychological, and biological changes that accompany aging, and the implications of these changes for the individual, as well as for the larger society.

GERS 2330
Issues of Long Term Care (3-0-0) **3 Hours**
This course is an exploration of current information regarding a variety of long term care settings for the elderly.

GERS 2333
Legal and Ethical Issues (3-0-0) **3 Hours**
This course is an exploration of the legal and ethical issues that families must consider as family members age. Emphasis on advocacy for the elderly in providing legal and financial well-being as well as knowledge regarding the access of social and medical programs for the elderly is covered in the course.

MATHEMATICS

Dean:	Margaret Wade	125 SF	685-4615
Faculty:	Margie Carrillo	138 T	685-6449
	Michael Dixon	138 SF	685-4630
	Sonia Ford	137 SF	685-4525
	Kay Hodge	103 SF	685-4621
	Gena Nicholson	138 T	685-4682
	Linda Penny	140 SF	685-4622
	David Truitt	106 SF	685-4616
	Laura Van Husen	138 T	685-4633
	Karen Vest	138 T	685-4680
Division Secretary:	Norma Duran	124 SF	685-4612

There are four main objectives of the Department of Mathematics: to provide a sound curriculum for students who wish to pursue a career in mathematics or mathematical education, to provide adequate training for students in science, engineering, and occupational technical programs; to provide math courses to satisfy general degree requirements; and to provide developmental courses to prepare students for college level work.

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: MATH 1314 or higher

Suggested Courses for Field of Study **15 Semester Credit Hours**

MATH 1316* or MATH 2412, MATH 2413* (2313), MATH 2414* (2314), MATH 2415* (2315) MATH 2320*

Related Courses **8 Semester Credit Hours**

8 semester credit hours of science or math in addition to core courses.

MINIMUM SEMESTER CREDIT HOURS = 65

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

MATH 0190
Mathematical Calculations (0-1) **1 Hour**

This course is designed to support MATH 0390 and MATH 0391. Tutorial help, computer-assisted instruction and video tapes are available to support this class. Math 0190 is a corequisite of Math 0390 and MATH 0391 and must be passed with its corequisite to progress. This course is repeatable as required.

MATH 0191
Mathematical Calculations THEA CLASS (0-2) **1 Hour**

This course is designed to provide a review of mathematical concepts necessary to pass the THEA test. Students should have a math THEA score between 220 and 229. This course is not designed to take the place of appropriate leveling or remediation courses. Computer assisted instruction, tutorial help, THEA lectures, and video tapes are available to support this class. Students are required to take the THEA test at the end of the semester. This course may not be taken more than two times. Course fee.

MATH 0389
Basic Mathematics (2-2) **3 Hours**

This course is designed to develop and review the arithmetic and pre-algebra skills of students. It may be taken either as a terminal course or as a preparatory course for Math 0390. The topics to be covered are addition, subtraction, multiplication, and division of numbers and fractions, decimals, ratio and proportion, percent, exponents, square roots, measures, and introductory algebra concepts. Course fee.

MATH 0390
Introductory Algebra (3-0) **3 Hours**

This course is designed to enable students requiring leveling work in algebra to develop and review their algebraic skills in preparation for Math 0391. This introductory algebra course will permit students to become more proficient in the areas of basic arithmetic operations, fundamental algebraic operations, simple factoring, exponents, radicals, the solving of linear and quadratic equations, and word problems. Corequisite: MATH 0190. Requires successful score on math placement test or "C" or greater in Math 0389 or 206 on THEA. Course fee.

MATH 0192, 0193, 0194, 0195
FLEX Introductory Algebra (0-1) **1 Hour**

These four modules are equivalent to MATH 0390 and corequisite lab, MATH 0190. These are self-paced classes that must be completed in sequence. Students are allowed to compress or expand the amount of material completed in a semester. We suggest that students work at least four hours a week in the lab for at least four weeks to complete one of the modules. When the sequence is completed, the student will have four hours of credit comparable to those acquired in MATH 0390 and corequisite lab. Computer assisted instruction, tutorial help, THEA lectures, and video tapes are available to support these classes.

This Introductory Algebra sequence will permit students to become more proficient in areas of basic arithmetic operations, fundamental algebraic operations, simple factoring, exponents, radicals, the solving of linear and quadratic equations, and word problems. Requires successful score on math placement test or "C" or greater in MATH 0389 or 206 on THEA. Course fee.

MATH 0391
Intermediate Algebra (3-0) **3 Hours**

This course is intermediate in difficulty between the introductory and college algebra courses and is designed to bridge the gap between the courses. This course will enable students to become proficient in factoring, solving quadratic equations and systems of equations, working with conic sections, and functions Corequisite: MATH 0190. Prerequisite: Requires a "C" or greater in MATH 0390 and a "P" in MATH 0190 or "P" in MATH 0192-0195 (FLEX Introductory Algebra sequence) or a satisfactory score on an algebra placement test or 230 on THEA. Course fee.

MATH 0196, 0197, 0198, 0199
FLEX Intermediate Algebra (0-1) **1 Hour**

These four modules are equivalent to MATH 0391 and corequisite lab, MATH 0190. These are self-paced classes that must be completed in sequence. Students are allowed to compress or expand the amount of material completed in a semester. We suggest students work at least four hours a week in the lab for at least four weeks to complete one of the modules. When the sequence is completed, the student will have four hours of MATH 0391 credit comparable to those acquired in MATH 0390 and corequisite lab. Computer assisted instruction, tutorial help, THEA lectures, and video tapes are available to support this class. Prerequisite: Requires a "C" or greater in MATH 0391, MATH 0390, or "P" in MATH 0192-0195 (FLEX Introductory Algebra sequence) or a satisfactory score on an algebra placement test or 230 on THEA.

This Intermediate Algebra sequence is "intermediate" in difficulty between introductory and college algebra courses. This sequence includes a study of relations, functions, inequalities, factoring, polynomials, rational expressions, and quadratics. This sequence will permit students to become familiar with complex numbers, and to solve systems of linear and non-linear equations and inequalities, and to continue a study of word problems. Course fee.

MATH 1314
College Algebra (3-0) **3 Hours**
This course is designed to enable students to become proficient in the following algebraic topics: polynomials, rational expressions, exponents, radicals, linear equations and inequalities, quadratic equations, exponential and logarithmic equations, systems of equations, and binomial expansion. Prerequisite: Requires a “C” or greater in MATH 0391 and a “P” in MATH 0190 or a satisfactory score on an algebra placement test or 270 on THEA . Course fee. (27.0101.5419)

MATH 1316
Trigonometry (3-0) **3 Hours**
This course is designed to enable students to become proficient in trigonometric and inverse trigonometric functions, the solution of triangles, identities, trigonometric equations, complex numbers, and logarithms. Prerequisite: Requires a “C” or greater in MATH 1314 or a satisfactory score on an algebra placement test. Course fee. (27.0101.5319)

MATH 1324
Mathematics for Business & Social Sciences I (3-0) **3 Hours**
This course is designed to enable students to solve elementary business problems involving the following topics: sets, linear relations and functions, elementary matrix theory, systems of linear equations and inequalities, linear programming by the simplex method, simple and compound interest, annuities, amortization, and bonds, elementary probability theory, expected value and statistics. Requires a “C” or greater in MATH 1314 or a satisfactory score on an algebra placement test. Course fee. (27.0301.5219)

MATH 1325
Mathematics for Business & Social Sciences II (3-0) **3 Hours**
This course is designed to enable students to learn quantitative methods for analyzing business problems. The topics to be studied are: elementary differential and integral calculus. Prerequisite: Requires a “C” or greater in MATH 1324. Course fee. (27.0301.5219)

MATH 1332
Contemporary Mathematics I (3-0) **3 Hours**
Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included. Prerequisites: THEA score of 270 or "C" or greater in Math 0391 and a “P” in MATH 0190. Course fee. (27.0101.5119)

MATH 1333
Contemporary Mathematics II (3-0) **3 Hours**
Topics may include introductory treatments of sets, logic, number systems, number theory, relations, functions, probability and statistics. Appropriate applications are included. Prerequisites: THEA score of 270 or "C" or greater in Math 0391 and a “P” in MATH 0190. Course fee. (27.0101.5119)

MATH 1342
Statistics (3-0) **3 Hours**
This course is designed to enable students to learn the introductory techniques of collection, presentation, analysis, and interpretation of data. Correlation methods, analysis of variance, dispersion, sampling, quality control, reliability, mathematical models, and regression analysis are also studied. Students will become proficient in use of computer technology such as Excel. Prerequisite: Requires a “B” or greater in MATH 0391 and a “P” in MATH 0190 or a higher level math course or a satisfactory score on an Algebra placement test. Course fee. (27.0501.5119)

MATH 1348
Analytic Geometry (3-0) **3 Hours**
This course is designed to enable students to become proficient in equations of lines and conics, algebraic curves, transcendental curves, polar coordinates, parametric equations, curve fitting, and vectors. Prerequisite: Requires a “C” or greater in MATH 1316 or a satisfactory score on a trigonometry placement test. Course fee. (27.0101.5519)

MATH 1350
Fundamentals of Mathematics I (3-0) **3 Hours**
Concepts of sets, functions, numeration systems, number theory, and properties of the natural numbers, integers, rational, and real number systems with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4-8) teacher certification. Prerequisite: Requires a “C” or greater in MATH 1314. Course fee. (27.0101.5619)

MATH 1351
Fundamentals of Mathematics II (3-0) **3 Hours**
Concepts of geometry, probability, and statistics, as well as applications of the algebraic properties of real numbers to concepts of measurement with an emphasis on problem solving and critical thinking. This course is designed specifically for students who seek middle grade (4-8) teacher certification. Prerequisite: Requires a “C” or greater in MATH 1350. Course fee. (27.0101.5619)

MATH 2318
Linear Algebra (3-0) **3 Hours**
This course is designed to produce student proficiency in finite dimensional vector spaces, linear transformations and matrices, quadratic forms, and eigen values and eigen vectors. Prerequisites: "C" or greater in Math 2414. Course fee. (27.0101.6119)

MATH 2412
Pre-Calculus (4-0) **4 Hours**
This course is designed to enable students to become proficient in applications of algebra and trigonometry to the study of elementary functions and their graphs including polynomial, rational, exponential, logarithmic, and trigonometric functions. Some topics from analytical geometry are discussed. Prerequisite: Requires a "C" or greater in MATH 1314 or a satisfactory score on Trigonometry placement test. Course fee. (27.0101.5819)

MATH 2413
Calculus I (4-0) **4 Hours**
This course is designed to enable students to become proficient in introductory analytic geometry, the theory of limits, differential calculus of algebraic and trigonometric functions, applications of differentiation, antiderivatives, and the definite integral. Prerequisite: Requires a “C” or greater in MATH 1316 or a “C” or better in MATH 2412 or a satisfactory score on a precalculus placement test. Course fee. (27.0101.5919)

MATH 2414
Calculus II (4-0) **4 Hours**
This course is designed to enable students to become proficient in the differentiation and integration of transcendental functions, techniques of integration, and applications of the definite integral. Prerequisite: Requires a “C” or greater in MATH 2413. Course fee. (27.0101.5919)

MATH 2415
Calculus III (4-0) **4 Hours**
This course will enable students to become proficient in indeterminate forms, improper integrals, sequences, series, and the differential and integral calculus of several variables. Prerequisite: Requires a “C” or greater in MATH 2414. Course fee. (27.0101.5919)

MATH 2320
Differential Equations (3-0) **3 Hours**
This course is designed to produce student proficiency in first order equations, linear differential equations, differential operators, Laplace transforms, and the applications of differential equations. Prerequisite: Requires a “C” or greater in MATH 2415. Course fee. (27.0101.5119)

MODERN & CLASSICAL LANGUAGES

Dean:	William G. Feeler	141b AFA	685-4626
Faculty:	Russell Goodyear	118 SF	685-4605
	James C. Jones	113 SF	685-4629
	Donna Patterson	235 LRC	685-4562
Division Secretary:	Lula Lee	141 AFA	685-4624

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: One English Literature course

Suggested Courses for Field of Study **20-22 Semester Credit Hours**

Modern Language 1411, 1412*, 2311*, 2312*, Second Language 1411, 1412* or 2311*, 2312*

MINIMUM SEMESTER CREDIT HOURS = 65-67

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

American Sign Language

SGNL 1401
Beginning American Sign Language I (4-0) **4 Hours**

Introduction to American Sign Language, covering finger spelling, vocabulary, and basic sentence structure in preparing individuals to communicate with the hearing impaired/deaf. (5102055132)

SGNL 1402
Beginning American Sign Language II (4-0) **4 Hours**

A continuation of Beginning American Sign Language I. Prerequisite: SGNL 1411 (5102055132)

SGNL 2301
Intermediate American Sign Language I (3-0) **3 Hours**

Review and application of conversational skills in American Sign Language; interpreting from signing to voice as well as from voice to signing. Prerequisite: SGNL 1412.(5102055232)

SGNL 2302
Intermediate American Sign Language II (3-2) **3 Hours**

A continuation of Intermediate American Sign Language I. Prerequisite: SGNL 2311 (5102055232)

French

FREN 1411
Elementary French I (3-4) **4 Hours**
This course is for students who have no previous instruction in French. It is designed to acquaint the student with the four basic language skills: listening, speaking, reading, and writing with emphasis on speaking and comprehension. Grammar and vocabulary are presented through intensive drills in class and the Language Laboratory. (1609015131)

FREN 1412
Elementary French II (3-4) **4 Hours**
This is a conversation course conducted primarily in French for the students who have completed French 1411 or its equivalent. Intensive oral-aural drill and classroom interaction will enable the student to master the lexical and grammatical structures necessary in carrying on conversations in French. Prerequisite: FREN 1411 (1609015131)

FREN 2303
Introduction to French Literature (3-0) **3 Hours**
This course is designed for those students who wish to acquire a basic background in French literature and culture. The course includes the reading of cultural essays, short stories, and poetry that are the basis for class discussion and composition. Practice in speaking, reading, and writing provide for vocabulary expansion. Prerequisite: FREN 2312 (1609015331)

FREN 2311
Intermediate French I (3-2) **3 Hours**
This course is conducted in French, and it includes a comprehensive review of French grammar and structure. Through classroom drill, discussion, and composition, the course emphasizes vocabulary expansion and the acquisition of a basic knowledge of French culture and literature. Prerequisite: FREN 1412

FREN 2312
Intermediate French II (3-2) **3 Hours**
Continuation of French 2311. Prerequisite: FREN 2311 (1609015231)

German

GERM 1411

Elementary German I (3-4) **4 Hours**
This course is for students who have no previous instruction in German. It is designed to acquaint the student with the four basic language skills: listening, speaking, reading, and writing with emphasis on speaking and comprehension. Grammar and vocabulary are presented through intensive drills in class and in the Language Laboratory. (1605015113)

GERM 1412
Elementary German II (3-4) **4 Hours**
This is a conversation course conducted primarily in German for the student who has completed German 1411 or its equivalent. Intensive oral-aural drill and classroom interaction will enable students to master the lexical and grammatical structures necessary in carrying on conversations in German. Prerequisite: GERM 1411 (1605015113)

GERM 2311
Intermediate German I (3-2) **3 Hours**
This course is conducted in German, and it includes a comprehensive review of German grammar and structure. Through classroom drill, discussion, and composition, the course emphasizes vocabulary expansion and the acquisition of a basic knowledge of German culture and literature. Prerequisite: GERM 1412 (1605015213)

GERM 2312
Intermediate German II (3-2) **3 Hours**
A course designed to provide fluency in spoken and written German through intensive grammar presentation and review, through conversational practice, and through composition and reading. The course is conducted in German. Prerequisite: GERM 2311 (1605015213)

Latin

LATI 1411
Beginning Latin (4-0) **4 Hours**
This non-laboratory course is designed for students who have no previous instruction in Latin. Through classroom presentation, explanation, and drills, students will be introduced to basic Latin vocabulary, word formation, syntax, Roman culture, and the historical backgrounds of the language. (1612035113)

LATI 1412
Beginning Latin II (4-0) **4 Hours**
This course is for students who have a fundamental knowledge of Latin vocabulary and syntax. Through grammar presentation, the reading of simple texts, and the repetition of lexical items, the course emphasizes improvement in the student's overall comprehension in Classical Latin. Prerequisite: LATI 1311 (1612035113)

LATI 2311
Intermediate Latin I (3rd semester Latin) (3-0) **3 Hours**
Review of grammar and readings in Roman literary works. Prerequisite: LATI 1412 (1612035213)

LATI 2312
Intermediate Latin II (4th semester Latin) (3-0) **3 Hours**
Review of grammar and readings in Roman literary works. Prerequisite: LATI 2311 (1612035213)

Spanish

SPAN 1300
Conversational Spanish (3-0) **3 Hours**
This introductory course emphasizes the acquisition of comprehension, pronunciation, and reading skills. Mastery of vocabulary and standard idiomatic expressions is stressed through intensive conversational drill and practice in the classroom and laboratory. Material is presented in a Hispanic culture context. (1609055413)

SPAN 1411
Elementary Spanish I (3-4) **4 Hours**
This course is for students who have no previous instruction in the language. It is designed to acquaint the student with the four basic language skills: listening, speaking, reading, and writing with emphasis on speaking and comprehension. Grammar and vocabulary are presented through intensive drills in class and in the Language Laboratory. (1609055113)

SPAN 1412
Elementary Spanish II (3-4) **4 Hours**
This is a conversation course conducted primarily in Spanish for the student who has completed Spanish 1411 or its equivalent. Intensive oral-aural drill and classroom interaction will enable the student to master the lexical and grammatical structures necessary in carrying on conversations in Spanish. Prerequisite: SPAN 1411 (1609055113)

SPAN 2311
Intermediate Spanish I (3-2) **3 Hours**
This course is conducted in Spanish, and it includes a comprehensive review of Spanish grammar and structure. Through classroom drill, discussion, and composition, the course emphasizes vocabulary expansion and the acquisition of a basic knowledge of Spanish culture and literature. Prerequisite: SPAN 1412 or equivalent. (1609055213)

SPAN 2312
Intermediate Spanish II (3-2) **3 Hours**
A course designed to increase fluency in spoken and written Spanish through intensive grammar presentation and review, through conversational practice, and through composition and reading. Prerequisite: SPAN 2311 or equivalent. (1609055213)

SPAN 2321
Introduction to Spanish Literature (3-0) **3 Hours**

This course is designed for those students who wish to acquire a basic background in Spanish and Latin American literature and culture. The course includes the reading of cultural essays, short stories, and poetry, which are a basis for class discussion and composition. Practice in speaking, reading, and writing provide for vocabulary expansion. Conducted in Spanish. Prerequisite: SPAN 2312 (1609055313))

SPAN 2324
Hispanic Literature (3-0) **3 Hours**

A course designed to enable students through reading, discussion and writing to explore the fiction, drama, and poetry of Hispanic authors who write in English or who have been translated into English. (1609055313)

MUSIC

Dean:	William G. Feeler	141b AFA	685-4626
Faculty:	Rabon Bewley	122 AFA	685-4643
	Bert Bostic	137 AFA	685-4624
	Michael Jordan	134 AFA	685-4647
	Betty Morris	120 AFA	685-4644
Division Secretary:	Lula Lee	141 AFA	685-4624

The Department of Music is a member of the Texas Association of Schools of Music and offers courses corresponding to its recommended curriculum.

Music courses are open to all students. See Tuition and Fees section of this catalog for voice/instrument instruction charges.

Students planning to transfer to a particular university should arrange their programs to meet the requirements of the college to which they plan to transfer.

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s): MATH 1314, MUSI 1308 or MUSI 1309, one English Literature course (Humanities)

MUSI 1301
Fundamentals of Music (3-0) **3 Hours**

A preparatory course for music majors, not applicable toward the music degree. MUSI 1301 examines the fundamentals of rhythm, melody, harmony, ear-training, sight singing, and keyboard. (5009045530)

MUSI 1304
Public School Music Methods and Materials (3-0) **3 Hours**

A course which examines techniques and materials for music instruction in kindergarten and grades one through six. Participation includes experience in part singing, playing, listening, voice testing, rhythmic, and creative activities. (5009045430)

MUSI 1306
Music Appreciation (3-0) **3 Hours**

A course designed to provide an overview of music from antiquity to the present. Course is designed to enable student to investigate music in the context of social and cultural history. (5009025130)

MUSI 1308
Survey of Music Literature (3-0) **3 Hours**

A course designed to enable student to examine music critically, including its development and its function in culture from antiquity to 1750. Course utilizes primary sources and listening selections. (5009025230)

MUSI 1309
Survey of Music Literature II (3-0) **3 Hours**

A course designed to enable student to examine music critically, including its development and its function in culture from 1750 to present. Course utilizes primary sources and listening selections (5009025230)

MUSI 1310
American Music: History of Country Music **3 Hours**

A course designed to enable student to trace the development of country music and its function in American culture from Appalachia in the 1920s to present. Credit will be given only once for MUSI 1310. (5009025330)

MUSI 1310
American Music: Jazz (3-0) **3 Hours**
A course designed to enable student to examine genesis and history of Jazz in America and to probe its influence on American music, culture, and society. Credit will be given only once for MUSI 1310. (5009025330)

MUSI 1310
American Music: Rock 'n' Roll Music (3-0) **3 Hours**
A course designed to enable student to examine the effect of historical events on American popular music culture. Course includes listening and reporting on music in context of recent American History. Credit will be given only once for MUSI 1310. (500902533)

Suggested Courses for Field of Study **21-24 Semester Credit Hours**
– 4 semesters of Applied Voice or Instrument with Major Emphasis* (8 semester hours)
– 2 semesters of secondary Voice or Instrument: Class Piano (MUSI 1181+) for non-Piano majors; Voice (MUSI 1179+) for Piano Majors (2 semester hours)
– 2 semesters of Music Theory (MUSI 1311+) (6 semester hours)
Note: Prerequisite is MUSI 1301 or placement by test.
– 2 semesters of Ensemble (2 semester hours)
– 3-6 additional hours of Music elective from the following: MUSI 1308, MUSI 1309
* =Completion of prerequisite course(s) or permission of instructor required

MINIMUM SEMESTER CREDIT HOURS = 63-66

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.
Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81
Basic Use of Computers: Testing, college or high school courses. All course work must-be approved by the Dean.

Class Instruction
Instrumental Technique

MUAP 1166, 1167
Woodwind Instruments I, II, (2-1) **1 Hour**
(5009035130)

MUAP 1168
Brass Instruments (2-1) **1 Hour**
(5009035130)

MUAP 1188
Percussion Instruments (2-1) **1 Hour**
(5009035130)

MUAP 1190, 2190
String Instruments I, II (2-1) **1 Hour**
(5009035130)

MUAP 2240
Instrumental Techniques (2-2) **2 Hours**

Individual Instruction Minor Emphasis

MUAP 1169, 1170, 2169, 2170
Brass Instruction I, II, III, IV (0-2) **1 Hour**
(5009035430)

MUAP 1171, 1172, 2171, 2172
String Instruction I, II, III, IV (0-2) **1 Hour**
(5009035430)

MUAP 1173, 1174, 2173, 2174
Percussion Instruction I, II, III, IV (0-2) **1 Hour**
(5009035430)

MUAP 1175, 1176, 2175, 2176
Woodwind Instruction I, II, III, IV (0-2) **1 Hour**
(5009035430)

MUAP 1177, 1178, 2177, 2178
Keyboard Instruction I, II, III, IV (0-2) **1 Hour**
Intermediate piano. Prerequisite: MUSI 2182 or instructor's permission.
(5009035430)

MUAP 1179, 1180, 2179, 2180
Voice Instruction I, II, III, IV (0-2) **1 Hour**
(5009035430)

Individual Instruction Major Emphasis

MUAP 1269, 1270, 2269, 2270
Brass Instruction I, II, III, IV (0-2) **2 Hours**
(5009035430)

MUAP 1271, 1272, 2271, 2272
String Instruction I, II, III, IV (0-2) **2 Hours**
(5009035430)

MUAP 1273, 1274, 2273, 2274
Percussion Instruction I, II, III, IV (0-2) **2 Hours**
(5009035430)

MUAP 1275, 1276, 2275, 2276
Woodwind Instruction I, II, III, IV (0-2) **2 Hours**
(5009035430)

MUAP 1277, 1278, 2277, 2278
Keyboard Instruction I, II, III, IV (0-2) **2 Hours**
Advanced Piano. Prerequisite: MUSI 2178 or instructor's permission.
(5009035430)

MUAP 1279, 1280, 2279, 2280
Voice Instruction I, II, III, IV (0-2) **2 Hours**
(5009035430)

Ensembles

MUEN 1121, 1122, 2121, 2122
Wind Ensemble I, II, III, IV (0-5) **1 Hour**
(5009035530)

MUEN 1123, 1124, 2123, 2124
Band I, II,III, IV (0-5) **1 Hour**
(5009035530)

MUEN 1125, 1126, 2125, 2126
Orchestra I, II, III, IV (0-5) **1 Hour**
(5009035530)

MUEN 1131, 1132, 2131, 2132
Studio Ensemble I, II, III, IV (0-4) **1 Hour**
(5009035630)

MUEN 1133, 1134, 2133, 2134
Brass Ensemble I, II, III, IV (0-4) **1 Hour**
(5009035630)

MUEN 1135, 1136, 2135, 2136
String Ensemble I, II, III, IV (0-4) **1 Hour**
(5009035630)

MUEN 1137, 1138, 2137, 2138
Woodwind Ensemble I, II, III, IV (0-4) **1 Hour**
(5009035630)

MUEN 1139, 1140, 2139, 2140
Percussion Ensemble I, II, III, IV (0-4) **1 Hour**
(5009035630)

MUEN 1141, 1142, 2141, 2142
Chamber Singers I, II, III, IV (0-5) **1 Hour**
(5009035730)

MUEN 1143, 1144, 2143, 2144
Chorale I, II, III, IV (0-5) **1 Hour**
(5009035730)

MUEN 1145, 1146, 2145, 2146
Women's Choir I, II, III, IV (0-5) **1 Hour**
(5009035730)

MUEN 1147, 1148, 2147, 2148
Men's Choir I, II, III, IV (0-5) **1 Hour**
(5009035730)

MUEN 1151, 1152, 2151, 2152
Jazz Singers I, II, III, IV (0-4) **1 Hour**
(5009035830)

Additional Classes

MUSI 1159, 2159
Musical Theatre I, II (1-2) **1 Hour**
Study and performance of works from the musical theatre repertoire. (5009036130)

MUSI 1162, 1165
Diction I, II (1-1) **1 Hour**
(5009085330)

MUSI 1163, 1164
Jazz Improvisation I, II (0-3) **1 Hour**
(5009036530)

MUSI 1181, 1182, 2181, 2182
Class Piano I, II, III, IV (2-1) **1 Hour**
Elementary piano.(5009075130)

MUSI 1183, 1184, 2183, 2184
Class Voice I, II, III, IV (2-1) **1 Hour**
Class instruction in the fundamentals of correct breathing, tone production, and diction. Laboratory course designed for students with little or no previous voice training. Aids in developing a pleasing tone quality that is produced with ease and proper enunciation. (5009085130)

MUSI 1311, 1312, 2311, 2312
Music Theory I, II, III, IV (3-3) **3 Hours**
First principles of chord progression and phrase harmonization. A study of more advanced chord structures and their placement within the phrase. The student receives a broad summary of classical harmony and then explores the techniques of the twentieth century. Written exercises, analysis, and correlated keyboard projects are required. Prerequisite: MUSI 1301 or a passing score on placement test. (5009045130, 5009045230)

MUSI 1386, 2386
Musical Composition—MIDI I & II **3 Hours**
These courses employ Musical Instrument Digital Interface (MIDI). Students compose music on the computer; write music from a piano being played; record real time from microphones; sequence, store, and edit sounds; and overdub and mix blocks of sound. (5009045330)

NURSING-ASSOCIATE DEGREE

Dean:	Becky Hammack	209a DFH	685-4600
Interim Program Director:	Kim Bezinque	214 DFH	685-4741
Faculty:	Juanita Coldiron	216 DFH	685-4598
	Yvonne Cruz	210 DFH	685-6408
	Susan Jones	212 DFH	685-4602
	Lea Keesee	205 DFH	685-4595
	Debbie Korback	218 DFH	685-4590
	Helen Peetz	215 DFH	685-4599
	Patti Richard	207 DFH	685-4593
	Lenora Sevcik	213 DFH	685-4597
	Valerie Steiner	217 DFH	686-4822
Division Secretary:	Kay Floyd	209b DFH	685-4600

Midland College offers a two-year nursing program leading to the degree of associate in applied science. A transition option for licensed vocational nurses is also available. Satisfactory completion of the program prepares the graduate to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN) for licensure as a registered nurse. The nursing program is accredited by the National League for Nursing Accreditation Commission, 61 Broadway, New York, NY, 10006, (212) 363-5555.

To be eligible for graduation from the nursing program, the student must have completed each of the prescribed courses with a minimum grade of “C’’, passed the end-of-program achievement examination, completed an NCLEX-RN review course, satisfied all college financial obligations, and returned all school property. Requirements to write the licensing examination include the application process, payment of fees, certification by the program director, graduation from the program, and approval of the Board of Nurse Examiners for the State of Texas.

The degree in this field offered by Midland College and the courses needed to achieve this credential are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a plan of study. Courses for the degree plan must be taken in sequence. BIOL 2401, BIOL 2402, and HPRS 1106 are required for program admission and are prerequisites for the first semester nursing courses. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 17 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: BIOL 2401, BIOL 2402, ENGL 1301, PSYC 2301

Specialty Courses **46 Semester Credit Hours**

RNSG 1108, RNSG 1162, *RNSG 1163, *RNSG 1201, RNSG 1210, RNSG 1215, RNSG 1231, *RNSG 1232, *RNSG 1247, RNSG 1248, RNSG 1412, *RNSG 1462, RNSG 1513, RNSG 2207, RNSG 2213, RNSG 2341, *RNSG 2461, *RNSG 2560

Related Courses **9 Semester Credit Hours**

HPRS 1106, PSYC 2314, ITSC 1191, BIOL 2421

MINIMUM SEMESTER CREDIT HOURS = 72

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfy THEA or alternative THEA requirements.

Oral Communication: RNSG 1513

Basic Use of Computers: ITSC 1191

Course Progression

The following is the **required** sequence of nursing courses in the Associate Degree Nursing program.

Fall Admission

First Year, First Semester
RNSG 1108, RNSG 1162, RNSG 1215, RNSG 1231, RNSG 1513
First Year, Second Semester
RNSG 1163, RNSG 1201, RNSG 1232, RNSG 1247, RNSG 1462, RNSG 2213
Second Year, First Semester
RNSG 1248, RNSG 1412, RNSG 2461
Second Year, Second Semester
RNSG 1210, RNSG 2207, RNSG 2341, RNSG 2560

Spring Admission

First Year, First Semester
RNSG 1108, RNSG 1162, RNSG 1215, RNSG 1231, RNSG 1513
First Year, Second Semester
RNSG 1201, RNSG 1232, RNSG 1247, RNSG 1462
Second Year, First Semester
RNSG 1163, RNSG 1248, RNSG 1412, RNSG 2213, RNSG 2461
Second Year, Second Semester
RNSG 1210, RNSG 2207, RNSG 2341, RNSG 2560

Associate of Applied Science
Licensed Vocational Nurse to Associate Degree Nursing Option

Core Requirements **A Minimum of 17 Semester Credit Hours**
See Core Requirements, page 80
Required Core Course(s) for this degree: BIOL 2401, BIOL 2402, ENGL 1301, PSYC 2301

Specialty Courses **35 Semester Credit Hours**
RNSG 1163, RNSG 1201, RNSG 1210, RNSG 1227, RNSG 1232, RNSG 1247, RNSG 1248, RNSG 2207, RNSG 2261, RNSG 2213, RNSG 1412, RNSG 2341, *RNSG 2461, *RNSG 2560

Related Courses **8 Semester Credit Hours**
PSYC 2314 and ITSC 1191, BIOL 2421

Awarded Credit **12 Semester Credit Hours**
After completion of RNSG 1227 and RNSG 2261, credit will be awarded for the following courses: HPRS 1106, RNSG 1108, RNSG 1162, RNSG 1215, RNSG 1231, RNSG 1513

MINIMUM SEMESTER CREDIT HOURS = 72

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements
Oral Communication: RNSG 2207
Basic Use of Computers: ITSC 1191

Course Progression

The following is the **required** sequence of nursing courses in the Licensed Vocational Nursing to Associate Degree Nursing Option:

First Semester
RNSG 1163, RNSG 1227, RNSG 1232, RNSG 1247, RNSG 2261, RNSG 2213
Second Semester
*RNSG 1248, RNSG 1412, *RNSG 2461

Third Semester
RNSG 1210, RNSG 2207, RNSG 2341, *RNSG 2560

Admission Requirements

The Midland College Associate Degree Nursing Program has a limited enrollment based on specific admission criteria. For information regarding the admission criteria, contact the Health Sciences Division.

To ensure consideration for the Fall Associate Degree Nursing class all admission criteria must be completed and all documentation submitted by May 25. To ensure consideration for the Spring Associate Degree Nursing class, all admission criteria must be completed and all documentation submitted by August 25. Information regarding the Licensed Vocational Nursing to Associate Degree Nursing option for currently licensed vocational nurses or licensed practical nurses may be obtained by contacting the program director.

A physical examination and current immunizations are required after admission but prior to beginning nursing courses. Health insurance is required. Students must be certified in CPR (cardiopulmonary resuscitation).

RNSG 1108
Dosage Calculations for Nursing (0-3-0) **1 Hour**
This course covers dosage calculations includes reading, interpreting and solving calculation problems encountered in the preparation of medications, and conversion of measurements within the metric, apothecary, avoirdupois and metric systems. Prerequisites: Approval of instructor.

RNSG 1162
Clinical I (0-0-3) **1 Hour**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

RNSG 1163
Clinical - Mental Health (0-0-3) **1 Hour**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

RNSG 1201
Pharmacology (2-1-0) **2 Hours**
This course is an introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of each drug classification. Topics will include the roles and responsibilities of the nurse in safe administration of medications within a legal/ethical framework. Prerequisite: BIOL 2401

RNSG 1210
Introduction to Community Based Nursing (2-1-0) **2 Hours**
This course is an overview of the delivery of nursing care in a variety of community-based settings; application of systematic problem-solving processes and critical thinking skills, focusing on the examination of concepts and theories relevant to community-based nursing; and development of judgment, skill, and professional values within a legal/ethical framework. Prerequisite: Admission into the program.

RNSG 1215
Health Assessment (1-3-0) **2 Hours**
This course covers the development of skills and techniques required for a comprehensive health assessment within a legal/ethical framework. Prerequisite: Admission to the program.

RNSG 1227
Transition from Vocational to Professional Nursing (2-1-0) 2 Hours
Topics covered in this course include health promotion, expanded assessment, analysis of data, nursing process, pharmacology, multidisciplinary teamwork, communication, and applicable competencies in knowledge, judgment skills, and professional values within a legal/ethical framework throughout the life span. Prerequisite: Admission to the program.

RNSG 1231
Principles of Clinical Decision Making I (2-1-0) 2 Hours
This course is an examination of selected principles related to the continued development of the professional nurse as a provider of care, coordinator of care, and member of a profession. In this course, emphasis is on clinical decision making for clients in medical-surgical settings experiencing health problems involving perioperative care, pain, and infectious disorders. Discussion of knowledge, judgment, skills and professional values within a legal/ethical framework will be included. Prerequisite: Admission into the program.

RNSG 1232
Principles of Clinical Decision Making II (2-1-0) 2 Hours
This course is an examination of selected principles related to the continued development of the professional nurse as a provider of care, coordinator of care, and member of a profession. In this course, emphasis is on clinical decision making for clients in medical-surgical settings experiencing health problems involving fluid and electrolytes, respiratory disorders, peripheral vascular disorders, and immunologic disorders. Discussion of knowledge, judgment, skills and professional values within a legal/ethical framework will be included. Prerequisite: Admission into the program, BIOL 2421.

RNSG 1247
Concepts of Clinical Decision Making I (2-1-0) 2 Hours
This course is an integration of previous knowledge and skills into the continued development of the professional nurse as a provider of care, coordinator of care, and member of a profession. In this course, emphasis is on clinical decision-making for clients in medical-surgical settings experiencing health problems involving gastrointestinal disorders, eye-ear-nose-throat disorders, and integumentary disorders. Discussion of knowledge, judgment, skills, and professional values within a legal/ethical framework will be included. Prerequisite: Admission into the program.

RNSG 1248
Concepts of Clinical Decision Making II (2-1-0) 2 Hours
This course is an integration of previous knowledge and skills into the continued development of the professional nurse as a provider of care, coordinator of care, and member of a profession. In this course, emphasis is on clinical decision-making for clients in medical-surgical settings experiencing health problems involving endocrine and metabolic disorders; reproductive and sexual disorders; and musculoskeletal disorders. Discussion of knowledge, judgment, skills, and professional values within a legal/ethical framework will be included. Prerequisite: Admission into the program.

RNSG 1412
Nursing Care of the Childbearing and Childrearing Family (4-1-0) 4 Hours
This course is a study of the concepts related to the provision of nursing care for childbearing and childrearing families; application of systematic problem-solving processes and critical thinking skills, including a focus on the childbearing family during preconception, prenatal, antipartum, neonatal, and postpartum periods and the childrearing family from birth to adolescence; and competency in knowledge, judgment, skill, and professional values within a legal/ethical framework. Prerequisite: Admission into the program and PSYC 2314.

RNSG 1462
Clinical II (0-0-12) 4 Hours
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

RNSG 1513
Foundations for Nursing Practice (4-3-0) 5 Hours
This course is an introduction to the role of the professional nurse as a provider of care, coordinator of care, and member of the profession. Topics include but are not limited to the fundamental concepts of nursing practice, history of professional nursing, a systematic framework for decision-making, mechanisms of disease, the needs and problems that nurses help patients manage, and basic psychomotor skills. Emphasis on knowledge, judgment, skills, oral communications and professional values within a legal/ethical framework will be included. Prerequisite: Admission into the program.

RNSG 2207
Transition to Nursing Practice (1-3-0) 2 Hours
This course is an introduction to selected concepts related to the role of the professional nurse as a provider of care, coordinator of care, and member of the profession. The course will review trends and issues impacting nursing and health care today and in the future. Topics will include knowledge, judgment, skill, and professional values within a legal/ethical framework. Prerequisite: Approval of program director.

RNSG 2213
Mental Health Nursing (2-1-0) 2 Hours
This course covers principles and concepts of mental health, psychopathology, and treatment modalities related to the nursing care of clients and their families. Prerequisite: Approval of the program director and PSYC 2314.

RNSG 2261
Clinical - Transition Option (0-0-6) 2 Hours
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

RNSG 2341
Advanced Concepts of Clinical Decision Making (3-1-0) 3 Hours
This course is an application of advanced concepts and skills for development of the professional nurse's role in complex client/nursing situations. The emphasis is on clinical decision-making for clients in medical-surgical settings experiencing health problems involving cardiovascular disorders; neurologic disorders; liver, biliary and pancreatic disorders; renal and urinary disorders; hematologic disorders; and cancer. The focus will be knowledge, judgment, skills, and professional values within a legal/ethical framework. Prerequisite: Admission into the program.

RNSG 2461
Clinical IV (0-0-15) 4 Hours
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

RNSG 2560
Clinical V (0-0-24) 5 Hours
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: Admission into the program.

HPRS 1106
Medical Terminology (1-0-0) 1 Hour
This course is a study of common medical terminology, word origin, structure, and application.

NURSING-VOCATIONAL

Midland Program:

Dean:	Becky Hammack	209a DFH	685-4600
Coordinator:	Tracie Wood	157 T	685-4787
Faculty:	Linda Jordan	157 T	685-4270
	Lynn Mock	157 T	685-5594
Division Secretary:	Kay Floyd	209b DFH	685-4600

Ft. Stockton Program:

Dean, Distance Learning:	Dale Beikirch	A42 AMS	432/685-5539
Director, WRTTC:	Brenda Lee		432/336-7882
Coordinator:	Carla Hooker		432/336-7882
Faculty:	Madylon Lawrence		432/336-7882

Midland College offers Vocational Nursing Programs on the Midland Campus and through the Williams Regional Technical Training Center (WRTTC) in Ft. Stockton.

The Vocational Nursing Program is a one year (12 month) program leading to a certificate. Satisfactory completion of the program qualifies the individual to apply to take the National Council Licensure Examination for Practical Nursing (NCLEX-PN) which in turn, allows the individual to become licensed to practice as a vocational nurse. The curriculum prepares the graduate to work in an acute or long term care facility, nursing agency or physician's office.

Requirements for graduation include completing all courses with a minimum grade of "C", taking the end of program achievement test and satisfying all college financial requirements. Requirements to write the licensure examination include written application, payment of fees, certification by program director and graduation from the program.

Certificate

Specialty Courses **41 Semester Credit Hours**

VNSG 1126, VNSG 1136, VNSG 1219, VNSG 1230, VNSG 1234, VNSG 1238, VNSG 1304, VNSG 1420, VNSG 1423, VNSG 1509, VNSG 2431, VNSG 2362, VNSG 2460, VNSG 2461

Related Courses **4 Semester Credit Hours**

HPRS 1106, RNSG 1108, HPRS 2200

MINIMUM SEMESTER CREDIT HOURS = 45

Course Progression

Following is the required semester sequence of courses in the Vocational Nursing program.

First Semester

HPRS 1106, HPRS 2200, RNSG 1108, VNSG 1126, VNSG 1304, VNSG 1420, VNSG 1423

Second Semester

VNSG 1230, VNSG 1509, VNSG 2431, VNSG 2460

Third Semester

VNSG 1136, VNSG 1219, VNSG 1234, VNSG 1238, VNSG 2362, VNSG 2461

Admission Requirements

The Vocational Nursing Programs have limited enrollments based on specific admission criteria. For information regarding the admission criteria, see the program brochure or program representatives.

The courses needed to achieve a certificate are presented in the following sections. Students interested in one of these programs should contact either the Division Office in Midland or the WRTTC in Ft. Stockton to obtain additional information and/or acquire a certificate plan.

VNSG 1126
Gerontology (1-0-0) **1 Hour**
This course is an overview of the normal physical, psychosocial, and cultural aspects of the aging process including common disease processes of aging and exploration of attitudes toward care of the elderly.

VNSG 1136
Mental Health (1-0-0) **1 Hour**
This course is an introduction to the principles and theories of positive mental health and human behaviors, including emotional responses, coping mechanisms, and therapeutic communication skills.

VNSG 1219
Professional Development (2-0-0) **2 Hours**
This course is a study of the importance of professional growth and development of added nursing skills. Topics will include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education.

VNSG 1230
Maternal-Neonatal Nursing (2-0-0) **2 Hours**
This course covers the utilization of the nursing process in the assessment and management of the childbearing family. Emphasis will be on the bio-psycho-socio-cultural needs of the family during the phases of pregnancy, childbirth, and the neonatal period including abnormal conditions.

VNSG 1234
Pediatrics (2-0-0) **2 Hours**
This course is a study of childhood diseases and childcare from infancy through adolescence. The focus is on the care of the well and the ill child utilizing the nursing process.

VNSG 1238
Mental Illness (2-0-0) **2 Hours**
This course is a study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process.

VNSG 1304
Foundations of Nursing I (3-0-0) **3 Hours**
This course is an introduction to the nursing profession including history, standards of practice, legal and ethical issues, and the role of the vocational nurse. Topics will include mental health, therapeutic communication, cultural and spiritual diversity, nursing process, and holistic awareness.

VNSG 1420
Anatomy and Physiology for Allied Health (3-2-0) **4 Hours**
This course is an introduction to the normal structure and function of the body including an understanding of the relationship of body systems in maintaining homeostasis.

VNSG 1423
Basic Nursing Skills (2-6-0) **4 Hours**
This course is a mastery of entry level nursing skills and competencies for a variety of health care settings. The nursing process will be utilized as the foundation of all nursing interventions.

VNSG 1509
Nursing in Health and Illness II (4-3-0) **5 Hours**
This course is an introduction to common health problems requiring medical and surgical interventions

VNSG 2431
Advanced Nursing Skills (2-6-0) **4 Hours**
This course is a mastery of advanced level nursing skills and competencies in a variety of health care settings utilizing the nursing process as a problem-solving tool.

VNSG 2362
Clinical - Mental Health/Mental Illness/
Professional Development (0-0-13) **3 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

VNSG 2460
Clinical - Nursing in Health and Illness I (0-0-18) **4 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

VNSG 2461
Clinical - Clinical-Maternal/Pediatrics (0-0-12) **4 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional.

HPRS 1106
Medical Terminology (1-0-0) **1 Hour**
This course is a study of common medical terminology, word origin, structure, and application.

HPRS 2200
Pharmacology for Health Professions (2-0-0) **2 Hours**
This course is a study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. Corequisite: BIOL 2401 or VNSG 1420.

OFFICE SYSTEMS TECHNOLOGY

(See Information Technology)

ORIENTATION

Coordinator:	Peggy Wood	112 SF	685-4667
Assistant Coordinator:	James E. Fuller	114 SF	685-4625

Orientation 0101 is strongly recommended for all entering, degree-seeking students who are registering for nine (9) or more hours. Orientation modules are especially recommended for students who have been out of school for several years, for students who have failed one or more sections of THEA, or for those students who have been placed on scholastic probation or scholastic enrollment restriction.

ORIN 0101
Orientation (1-0) **1 Hour**
Specific Orientation Modules include **Academic Empowerment, College Survival, Leadership, Life Choices, Transition Student,** and **Personal Finance.** (32.0101.52 12)

Academic Empowerment
An Orientation module designed to teach students how to enhance their potential for success in the college academic setting. The emphasis will be placed on Preparation, Organization, Work, Evaluation, and Rethinking, an umbrella for more specific strategies such as time management, note taking, annotating, and reading.

College Survival
An Orientation module designed to provide students with the knowledge of key components of college survival as incoming students. The strategies for a successful transition to college life include locating campus resources, managing time and stress, setting goals, discovering your learning style, critical thinking, note taking, academic advising, and college etiquette.

Leadership
An Orientation module designed to increase college success through the development of leadership skills. The focus is to enable students to become more effective leaders, a lifelong skill to apply to multiple settings. The techniques used will incorporate examples of leadership from movies, Literatures, current events, which will be analyzed as models for the benefits and drawbacks of various leadership styles.

Life Choices
An Orientation module designed to give students the opportunity to cultivate the skills, values and attitudes necessary to become confident, capable students who can make responsible and informed decisions at school and in their personal lives. Topics for this module (Sex, Drugs, and Rock and Roll) include Responsible Dating and Relationships, Time Management, Personality and Building Self-Esteem, Substance Abuse, Sexually Transmitted Diseases, and Sexual Harassment.

Transition Student
An Orientation module structured to teach students how to balance and manage responsibilities, i.e. children, family, employment stress, social life, and education. Topics include Time Management, Relationships/Communication, The Culture of Higher Education/Diversity, Reading and Writing for College, Note and Test Taking, Critical Thinking, Money and Health.

Personal Finance
An Orientation module designed to acquaint students with aspects of financial responsibility. Topics include budgeting, managing finances, avoiding debt, paying for college, living single, establishing and maintaining good credit, and investing.

For additional, related courses, see: DVLP 0190, DVLP 0290, DVLP 0390

Strategic Studies
Strategic Studies is a course designed to teach students how to enhance their prospects of being successful in college. The techniques that are taught include general-purpose learning strategies such as note taking, organization, time management, means of avoiding procrastination, reading/comprehension, attention/listening, problem solving and critical thinking, encoding and retrieval, test taking, test preparation, tests/test anxiety, group and cooperative learning, memory, motivation, writing and proofing. In addition, content specific strategies include English, general science, chemistry, business, philosophy, political science, history, and psychology. Computer related activities and instruction complement traditional methods of instruction. The course may be taken in one credit hour or two credit hour modules on a flexible entry basis. (3201015235)

PHILOSOPHY

Dean:	William Morris	141a AFA	685-4640
Faculty:	Jerry Franks	125 SF	685-4607
Division Secretary:	Monica Sosa	141 AFA	685-4640

PHIL 1301
Introduction to Philosophy (3-0) **3 Hours**
"Introduction to Philosophy" samples the writings of thinkers who over the past 2500 years have challenged the human intellect with questions about the meaning of existence, the nature of reality, and the validity of knowledge. The course encourages students to re-examine and clarify their own beliefs and values. (3801015135)

Phil 1304
Introduction to World Religions (3-0) **3 Hours**
Is a survey of the major belief systems in society today- Judaism, Christianity, Islam, Hinduism, and Buddhism, how they are different from ancient belief systems and how they are influencing new religious movements.

PHIL 1316
History of Christianity (3-0) **3 Hours**
This course is an historical survey of the development of Christianity and its role in world history, from its origins to the present time covering theological and institutional issues. Course may be taken for either credit or non-credit. Also HIST 1316. (3802015135)

PHIL 1317
History of Judaism (3-0) **3 Hours**
Is a chronological study of the development of the Jewish nation and religion. The first part of the course will cover Ancient Israel: Abraham to the Roman destruction of the second temple (70 CE). The second part begins with the rise of Rabbinic Judaism (after 70 CE) and continues through the establishment of the nation of Israel to its existence today.

PHIL 2303
Introduction to Logic (3-0) **3 Hours**
"Introduction to Logic" introduces the students to the nature and methods of correct reasoning; deductive and inductive proof; fallacies; argumentation. (3801015235)

PHIL 2306
Ethics (3-0) **3 Hours**
This course covers the major classic philosophies of life with consideration of some of the value or "goodness" involved in the moral, religious, aesthetic, and scientific points of view. (3801015335)

PHIL 2321
Philosophy of Religion (3-0) **3 Hours**
"Philosophy of Religion" is a study of the nature and philosophical implications of religious beliefs, experiences, and practices, and the relation of these to other major human concerns. (3802015335)

PHOTOGRAPHY

(See Communication or Arts)

Photography courses at Midland College offer experiences for students from introductory through advanced levels. Photography credit may be applied to majors in art, communication, or chosen as electives. Many of our photographers are simply enthusiasts who pursue the medium for personal pleasure. All four black and white courses include darkroom time. Each student will have the ability to produce photographs from subjects they shoot and the opportunity to submit images for publication in our newspaper, magazines, and student shows. Photography courses are offered through either the Communication Department or the Art Department.

PHYSICS

Dean:	Margaret Wade	125 SF	685-4615
Faculty:	Tom O'Hara	110 SF	685-4617
Division Secretary:	Norma Duran	124 SF	685-4612

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Science

Core Requirements **43 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: CHEM 1411, CHEM 1412, MATH 2413

Suggested Courses for Field of Study **19 Semester Credit Hours**

PHYS 2425*, PHYS 2426*, MATH 2414*, MATH 2415*, MATH 2320*

Related Courses **4 Semester Credit Hours**

Four semester credit hours of science in addition to the core courses.

MINIMUM SEMESTER CREDIT HOURS = 66

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

ENGR 2301
Statics (3-0) **3 Hours**

Calculus-based study of composition and resolution of forces, equilibrium of force system, friction, centroids, and moments of inertia. Prerequisite: the first calculus-based physics course (PHYS 2425). Corequisite: a second course in calculus (14.1101.5210)

ENGR 2302
Dynamics (3-0) **3 Hours**

Calculus-based study of dynamics of rigid bodies, force-mass-acceleration, work-energy, and impulse-momentum computation. Prerequisite: Statics (ENGR 2301). Corequisite a third course in calculus (MATH 2415) (14.1101.5310)

PHYS 1401
College Physics I (3-4) **4 Hours**

This course will enable students to become familiar with classical mechanics, thermodynamics, and wave motion. This course is designed for students planning to study medicine, dentistry, veterinary medicine, optometry, biology, architecture, and the technical disciplines. A knowledge of algebra and elementary trigonometry is needed. (40.0801.5303)

PHYS 1402
College Physics II (3-4) **4 Hours**

This course will enable students to become proficient in optics, electricity, magnetism, and selected topics from modern physics. Prerequisite: PHYS 1401 (40.0801.5303)

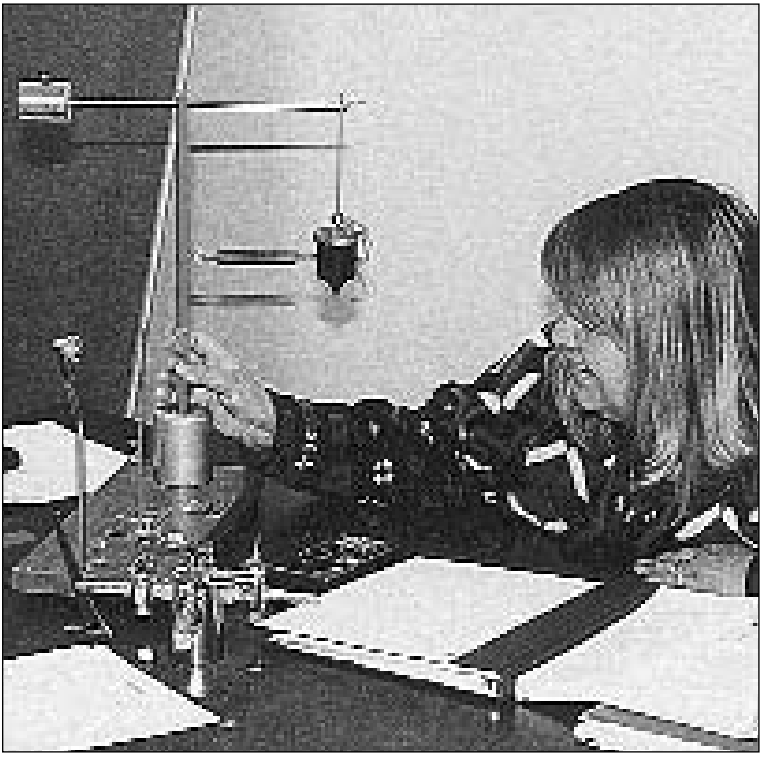
PHYS 1415
Physical Science I (3-3) **4 Hours**

This is a survey course in the physical sciences and scientific methods and is intended for non-science majors. The course introduces topics in physics, chemistry, geology, meteorology, and astronomy with an emphasis on physics topics. A lab is included, and basic mathematics is required. (40.0101.5103)

PHYS 1417
Physical Science II (3-3) **4 Hours**
This is a continuation of PHYS 1415 with an emphasis on topics in chemistry, geology, meteorology, and astronomy. A lab is included, and basic mathematics is required. (40.0101.5103)

PHYS 2425
University Physics I (3-4) **4 Hours**
This course will enable students of the physical sciences, engineering, and mathematics to become proficient in classical mechanics and thermodynamics. Prerequisite or Corequisite: MATH 2413 (40.0801.5403)

PHYS 2426
University Physics II (3-4) **4 Hours**
This course will enable students to become proficient in classical electricity and magnetism, wave motion, and optics. Prerequisite: PHYS 2425 or Corequisite: MATH 2414 (40.0801.5403)



PROFESSIONAL PILOT

Dean:	Curt Pervier	143 T	685-4677
Director:	L.C. Durham	140 T	685-4668
Faculty:	Deon Christensen	160 T	685-4661
	Jim Mielkus	162 T	685-4684
	Craig Patterson	155 T	685-5569
Program Coordinator:	Karen Harris	140 T	685-4799
		MFC	684-9800

The Professional Pilot Program is conducted in an alliance with Mesa Airlines. This 16 month program will prepare the student for employment as an airline pilot. The program has specialized admission requirements due to the Federal Aviation Regulations and the cost of flight training. Students will complete a rigorous four-semester program culminating with an Associate Degree of Applied Science-Professional Pilot. Each student will obtain the following pilot licenses and ratings: Private Pilot, Commercial Pilot, Instrument rating, and Multi-engine rating. Upon successful completion of the program, each student will receive an interview with Mesa Airlines for employment as a First Officer.

Requirements for graduation include completing all courses with a minimum grade point of 3.0, and satisfy all college and independent contractors financial obligations. Upon successful completion of the program, each student will receive a recommendation for an interview with Mesa Airlines.

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: SPCH 1318

Specialty Courses **56 Semester Credit Hours**

AIRP 1191, AIRP 1301, AIRP 1307, AIRP 1315, AIRP 1317, AIRP 1341, AIRP 1343, AIRP 1345, AIRP 1355, AIRP 1451, AIRP 2346, AIRP 2333, AIRP 2337, AIRP 2339, AIRP 2350, AIRP 2351, and nine hours specialty electives

MINIMUM SEMESTER CREDIT HOURS = 71

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirement.

Oral Communication: SPCH 1318

Basic Use of Computers: AIRP 1307

Private Pilot Certificate

Specialty Courses **15 Semester Credit Hours**

AIRP 1301, AIRP 1307, AIRP 1315, AIRP 1317, AIRP 1345

MINIMUM SEMESTER CREDIT HOURS = 15

Professional Airline Certificate

Specialty Courses **16 Semester Credit Hours**

AIRP 1172, AIRP 2335, AIRP 2346, AIRP 2351, AIRP 2357, SPCH 1318

MINIMUM SEMESTER CREDIT HOURS = 16

AIRP 1171
High Performance Airplane Transition (0-2) **1 Hour**

Instruction in the transition from a non-high performance airplane to a high performance airplane. Includes flight instruction and necessary ground instruction on aircraft systems.

AIRP 1172
Interview Preparation (1-0) **1 Hour**
Study of the interview skills and knowledge required to obtain a job with a commercial airline. Topics include interview procedures, working with placement agencies, personal appearance and attitudes, employer expectations, and employer/employee relations.

AIRP 1191
Special Topics (1-0) **1 Hour**
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

AIRP 1301
Air Navigation I (VFR) (3-0) **3 Hours**
Visual flight navigation in the National Airspace System, including sectional charts, flight computers, plotters, and navigation logs. Radio navigation will include NDB and VOR navigation.

AIRP 1307
Aviation Meteorology (3-0) **3 Hours**
In-depth coverage of meteorological phenomena affecting aircraft flight. Topics include basic concepts of aviation meteorology in the study of temperature, pressure, moisture, stability, clouds, air masses, fronts, thunderstorms, icing, and fog. Also includes analysis and use of weather data for flight planning.

AIRP 1315
Private Pilot Flight Training (1-6) **3 Hours**
Flight training to prepare the student for the Federal Aviation Administration private pilot license. Student will demonstrate competency of each item as required by the Private Pilot Practical Test Standards.

AIRP 1317
Private Pilot Ground School (3-0) **3 Hours**
Private Pilot ground school covering topics such as principles of flight, radio procedures, weather, navigation, aerodynamics, Federal Aviation Administration regulations, and NOTAM's.

AIRP 1341
Advanced Air Navigation (3-0) **3 Hours**
Introduction to instrument flight operation and navigation. Topics include enroute navigation, instrument approaches, DP's, STAR's, NDB, VOR, and GPS.

AIRP 1343
Aerodynamics (3-0) **3 Hours**
Study of the general principles of flight. Topics include lift, weight, thrust drag, aircraft stability and design, aerodynamic forces, subsonic, transonic, supersonic and multiengine aerodynamics.

AIRP 1345
Aviation Safety (3-0) **3 Hours**
A study of the fundamentals essential to the safety of flight. Topics include decision making factors, accident reporting, accident investigation, air traffic systems, and aircraft technologies.

AIRP 1355
Intermediate Flight Training (1-6) **2 Hours**
Provides students with flight hours and skills necessary to fulfill the dual and solo hours in the areas of maneuvers and cross-country navigation required for the Federal Aviation Administration commercial pilot license.

AIRP 1451
Instrument Ground School (3-3) **4 Hours**
A study of the basic instrument radio and navigation fundamentals used in instrument flight. Topics include a description and practical use of navigation systems, instruments, instrument charts, and the Federal Aviation Administration regulations.

AIRP 2333
Aircraft Systems (3-0) **3 Hours**
Study of the general principles, operation, and application of pneumatic, hydraulic, electrical, fuel, environmental, protection, and warning systems. Emphasis on types of aircraft structures and their control systems.

AIRP 2335
Airline Transport Pilot Ground School (3-0) **3 Hours**
Provides the flight training and ground instruction required to meet the Federal Aviation Administration regulations for the Airline Transport Pilot Certificate. Emphasis on achieving the competency to pass the oral and practical exams as prescribed in the Federal Aviation Administrations Practical Test Standards.

AIRP 2337
Commercial Pilot Ground School (3-0) **3 Hours**
A study of advanced aviation topics to prepare the student for the Federal Aviation Commercial written examination.

AIRP 2339
Commercial Flight (1-8) **3 Hours**
Flight instruction necessary to qualify for the Commercial pilots license. Student will demonstrate proficiency of all commercial pilot maneuvers to Commercial Pilot Practical Test Standards.

AIRP 2346
High Performance Aircraft Familiarization (3-0) **3 Hours**
Introduction to the flight characteristics of high performance aircraft with emphasis on preflight, operation of systems, performance calculations, and flight handling characteristics including multi-engine operations.

AIRP 2350
Instrument Flight (1-6) **3 Hours**
Preparation for the completion of the Federal Aviation Administration Instrument Pilot rating. Student will demonstrate mastery of the airplane on full and partial panel instruments, chart reading, flight planning, and ATC radio procedures.

AIRP 2351
Multiengine Flight (1-4) **3 Hours**
Preparation for the multiengine rating which will be added to a current certificate. Includes explanation and demonstration of all required Federal Aviation Administration normal and emergency operations and procedures.

AIRP 2357
Turbine Aircraft Systems (3-0) **3 Hours**
Instruction in the systems of specific turbine aircraft. Emphasis on the “glass cockpit”, auxiliary power, aircraft systems, and the first officers’ operational role. Capstone course.

AVIM 1301
Introduction to Aviation Management (3-0) **3 Hours**
An introduction to small aviation business management. Emphasis on financial marketing, human resources, and administrative and information systems essential for successful business operations.

PSYCHOLOGY AND/OR SOCIAL WORK

Dean:	William Morris	141a AFA	685-4640
Faculty:	David Edens (Social Work Advisor)	136 AFA	685-4638
	Donna Thompson	134 AFA	685-4649
	Andrea Zabel	132 AFA	685-4646
Division Secretary:	Monica Sosa	141 AFA	685-4640

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts or Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: BIOL 1406, BIOL 1407, MATH 1314* or MATH 1332*, SOCI 1301

Suggested Courses for Field of Study **12 Semester Credit Hours**

PSYC 2301; PSYC elective; SOCW 2361; PSYC elective or SOCW 2362

Related Courses **8-11 Semester Credit Hours**

For an Associate of Science add 8 semester credit hours of electives for an Associate of Arts add 6-8 semester credit hours of modern language courses and one English literature course.

MINIMUM SEMESTER CREDIT HOURS = 62

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

PSYC 1301
Human Relations (3-0) **3 Hours**

A study of methods and principles of psychology applied to human relations and interpersonal communication. Emphasis will be placed on establishing positive interpersonal relations which could apply to work, family, and social environments. Topics covered will include conflict resolution, leadership skills, interpersonal communication, teamwork problem solving, decision making, cross-cultural relations, individual differences, motivating others, stress management, and job search and management skills.

PSYC 2301
Introduction to Psychology (3-0) **3 Hours**

"Introduction to Psychology" deals with the scientific study of the behavior of individuals and their mental processes. The focus is on the perceptions, thoughts, emotions, and social interactions of people in their everyday lives. The psychological goals of describing, explaining, predicting, and controlling behavior will be addressed. (4201015140)

PSYC 2302
Applied Cognitive and Social Development (3-0) **3 Hours**

This course is the application of psychological principles and methods to the development of the cognitive and social skills of students in the collegiate setting. Does not count toward major in Psychology. (4201015240)

PSYC 2306
Human Sexuality (3-0) **3 Hours**
"Human Sexuality" provides a comprehensive introduction to the biological, psychological, behavioral, and cultural aspects of sexuality. Contemporary research addressing such issues as communication, love, relationships, sexual problems, therapies, pregnancy, and childbirth is discussed. (4201015340) Also SOCI 2306

PSYC 2308
Child Psychology (3-0) **3 Hours**
"Child Psychology" is the first course in the human developmental process. Together with "Adult Development" it covers the environmental factors that shape the personality and achievement. This course covers from birth through early adolescence. A class project may consist of naturalistic observation and study of children. Prerequisite: PSYC 2301 or permission of instructor. (4207015140)

PSYC 2311
Adult Development (3-0) **3 Hours**
This is the second course in the human developmental process-from adolescence through old age. The focus is on how physiological, cognitive, social, and environmental factors change behavior across the adult life span. Prerequisite: PSYC 2301 or permission of instructor. (4207015140)

PSYC 2314
Life-span Growth and Development (3-0) **3 Hours**
This course is a survey course dealing with the study of the relationships among physical, emotional, social and mental factors of human growth and development from birth throughout the life-span. Emphasis is on scientific research, fundamental issues, and major psychological theories used to explain development. This course is designed for nursing students or those desiring an elective course. It may not transfer to 4-year college and universities for purposes of majors in psychology or education. Prerequisite: PSYC 2301 (4207015125)

PSYC 2315
Mental Health and Personal Adjustment (3-0) **3 Hours**
"Mental Health and Personal Adjustment" covers the psychological principles and methods that are most important in the practical control of human behavior, the application of psychology for increasing human efficiency, improving personalities, and harnessing the emotions. (4201015640)

PSYC 2319
Social Psychology (3-0) **3 Hours**
"Social Psychology" is the study of how the thoughts, feelings, and behaviors of individuals are influenced by the actual, imagined, and implied presence of others. (4216015140) (PSYC 2305) Also SOCI 2326.

PSYC 2340
Psychology of Women (3-0) **3 Hours**
"Psychology of Women" is the study of psychological topics related to female development and to sex roles in our society. The focus is on gender similarities as well as differences, their causes and social impact. Possible issues include gender stereotypes, socialization of children, teenage pregnancy, abortion, rape, battered women, job discrimination, and sexual harassment. (4201015540)

SOCW 2361
Introduction to Social Work (3-0) **3 Hours**
In "Introduction to Social Work" students will study the development of the philosophy and practice of social work in the United States, and survey the fields and techniques of the profession. (4407015142)

SOCW 2362
Social Welfare (3-0) **3 Hours**
"Social Welfare" is the student's introduction to the study of modern social work, its underlying philosophy and ethics, and its major divisions and types, together with their methods and objectives. (4407015242)

RADIOGRAPHY

Dean:	Becky Hammack	209a DFH	685-4600
Program Director:	Quinn Carroll	208 DFH	685-4592
Clinical Director:	William Heathman	211 DFH	685-4691
Division Secretary:	Kay Floyd	209b DFH	685-4600

Midland College offers a two-year Radiography program leading to the degree of associate in applied science. Radiographers operate x-ray machines in the diagnosis of disease, and may go on to specialize in ultrasound, CT scanning, MRI or other related fields. Satisfactory completion of the program qualifies the graduate to take the certifying examination of the American Registry of Radiologic Technologists and to apply for MRT certification by the Texas Department of Health. This course is accredited by the Joint Review Committee on Education in Radiology Technology. A balanced curriculum combines classroom and laboratory instruction with supervised practicums at local medical imaging centers.

The mission of the Midland College Radiography Program is to provide for both the professional career development and the personal development of each student in the field of Radiography.

A class is admitted each fall. Accepted students must take all radiography courses in sequential order, and must maintain a minimum grade of “C” in all radiography courses to complete the program.

The degree and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 17 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: BIOL 2401, BIOL 2402, ENGL 1301

Specialty Courses **48 Semester Credit Hours**

*RADR 1166, *RADR 1167, *RADR 1266, *RADR 1267, RADR 1309, RADR 1313, *RADR 1371, RADR 1411, RADR 2117, RADR 2205, RADR 2209, RADR 2233, RADR 2313, RADR 2331, RADR 2335, RADR 2336, RADR 2366, RADR 2367, RADR 2401

Related Courses **2 Semester Credit Hours**

ITSC 1191, HPRS 1106

MINIMUM SEMESTER CREDIT HOURS = 67

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfy THEA or alternative THEA requirements.

Oral Communication: RADR 1309

Basic Use of Computers: ITSC 1191

Magnetic Resonance Imaging Certificate

Specialty Courses **12 Semester Credit Hours**

RADR 2240, MRIT 2230, MRIT 2234, MRIT 2360, *MRIT 2361

MINIMUM SEMESTER CREDIT HOURS = 12

Computed Tomography Certificate

Specialty Courses **12 Semester Credit Hours**

RADR 2240, CTMT 2232, CTMT 2236, CTMT 2360, *CTMT 2361

MINIMUM SEMESTER CREDIT HOURS = 12

Course Progression

The following is the **required** sequence of radiography courses in the Radiography program.

First Year, Fall Semester
RADR 1266, RADR 1309, RADR 1411
First Year, Spring Semester
RADR 1267, RADR 1371, RADR 2401
First Year, Summer Semester
RADR 1166, RADR 1313, RADR 2331
Second Year, Fall Semester
RADR 2117, RADR 2205, RADR 2336, RADR 2366
Second Year, Spring Semester
RADR 2209, RADR 2233, RADR 2313, RADR 2367
Second Year, Summer Semester
RADR 1167, RADR 2335

Admission Requirements

The Midland College Radiography Program has limited enrollment based on specific admission criteria. For information regarding the admission criteria attend a Radiography program orientation. Orientations are held on a regular basis. Call for information regarding the scheduled sessions. Information is also available in the program brochure. Applicants are encouraged (but not required), to complete support courses such as Anatomy and Physiology prior to enrolling in the program.

Advanced Placement Program in Medical Imaging

Midland College offers an Advanced Placement program for certified medical imaging technologists with hospital-based or non-traditional training who wish to obtain an associate degree.

The College may award 40 credit hours to certified imaging technologists who do not have a college degree. These credits may be applied toward the associate of general studies degree, which requires completion of an additional 22 hours, or they may be applied toward the associate of applied science degree, (the degree awarded to regular Radiography graduates), which requires completion of an additional 30 hours. A minimum of 15 hours must be completed at Midland College.

General radiography courses, or advanced courses, such as Magnetic Resonance Imaging, may be applied toward an associate degree under the Advanced Placement program. Technologists interested in any of these areas are encouraged to discuss these options with the Dean of Health Sciences.

Degree Options

A. Associate of General Studies Degree

1.	Credits granted for certification	40
2.	See Core requirements page 80	15
3.	Credits selected from “Certificate Options’’, management courses or other courses	7
	Total Credit Hours Required	**62**

B. Associate of Applied Science Degree

1.	Credits granted for certification	40
2.	Credits from courses selected from the “Certificate Options’’	9
3.	Credits from core requirements of Radiography Curriculum which include:	
	-BIOL 2401	4
	-BIOL 2402	4
	-ENGL 1301	3
	-SPCH 1318	3
	-Social and Behavioral Science or Mathematics and Natural Sciences elective	3
	-POFI 1170	1
	-Visual and Perfoming Arts or Humanities elective	3
	Total Credit Hours Required	**70**

Admission Requirements for Advanced Placement Program and Certificate Programs in Medical Imaging

For information regarding admission contact program faculty or request information from the division office.

CTMT 2232
Principles of Computed Tomography (2-0-0) 2 Hours
This course is an in-depth coverage of computed tomography imaging techniques. Image quality assurance and radiation protection are also emphasized. Prerequisite: General certification by the Texas MRT Board.

CTMT 2236
Computed Tomography Equipment and Methodology (2-0-0) 2 Hours
This course covers skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, quality assurance and radiation protection.

CTMT 2360
Clinical I: Computed Tomography (0-0-9) 3 Hours
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience

CTMT 2361
Clinical II: Computed Tomography (0-0-9) 3 Hours
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: CTMT 3360

MRIT 2230
Principles of Magnetic Resonance Imaging (2-0-0) 2 Hours
General principles for learning to operate a magnetic resonance imager will be covered in this course. This course will focus on building a sound understanding of the underlying scientific theory and practice leading to magnetic resonance imaging and designed to introduce the concepts and scientific principles employed in magnetic resonance imaging techniques. Principles of magnetism and interactions of living matter within magnetic fields are also emphasized. Prerequisite: General certification by the Texas MRT Board.

MRIT 2234
Magnetic Resonance Equipment and Methodology (2-0-0) 2 Hours
This course is a study of the actual operation and operational control of magnetic resonance imaging equipment. It focuses on routine protocols, image quality and quality control of magnetic resonance imaging. Theory and application of magnetic resonance imaging equipment and the principles of patient imaging techniques utilizing the equipment will also be covered. Prerequisite: General certification by the Texas MRT Board.

MRIT 2360
Clinical I: Magnetic Resonance Imaging (0-0-9) 3 Hours
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience.

MRIT 2361
Clinical II: Magnetic Resonance Imaging (0-0-9) 3 Hours
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: MRIT 2360

RADR 1166
Practicum III (0-0-10) 1 Hour
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: RADR 1267.

RADR 1167
Practicum VI (0-0-7) 1 Hour
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: RADR 2367.

RADR 1266
Practicum I (0-0-14) 2 Hours
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: Admission to the Radiography Program.

RADR 1267
Practicum II (0-0-16) 2 Hours
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: RADR 1266.

RADR 1309
Introduction to Radiography and Patient Care (2-2-0) 3 Hours
This course is an overview of the historical development of radiography, basic radiation, protection, an introduction to medical terminology, ethical and legal issues for health care professionals, and an orientation to the program and to the health care system. Patient assessment, infection control procedures, emergency and safety procedures, communication and patient interaction skills, and basic pharmacology are also included. Prerequisite: Admission to Radiography Program.

RADR 1313
Principles of Radiographic Imaging I (2-2-0) **3 Hours**
This course is an introduction to radiographic image qualities and the effects of exposure variables upon these qualities.

RADR 1371
Basic Imaging Physics (3-0-0) **3 Hours**
This course is an overview of the basic physical principles of matter, energy, mechanics, heat, sound, magnetism and electricity, light, electromagnetic radiation, quantum interactions and the production of x-rays. Prerequisite: RADR 1309.

RADR 1411
Basic Radiographic Procedures (3-2-0) **4 Hours**
This course is an introduction to radiographic positioning terminology, the proper manipulation of equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of basic anatomy.

RADR 2117
Radiographic Pathology (1-0-0) **1 Hour**
This course is a presentation of the disease process and common diseases and their appearance on medical images.

RADR 2205
Principles of Radiographic Imaging II (2-1-0) **2 Hours**
This course is a continuation of the study of radiographic imaging technique formulation, image quality assurance, and the synthesis of all variables in image production. Prerequisite: RADR 1313.

RADR 2209
Radiographic Imaging Equipment (2-1-0) **2 Hours**
This course is a study of the equipment and physics of x-ray production, basic x-ray circuits, and the relationship of equipment components to the imaging process.

RADR 2233
Advanced Medical Imaging (2-0-0) **2 Hours**
This course covers the exploration of specialized imaging modalities.

RADR 2240
Sectional Anatomy for Medical Imaging (2-0-0) **2 Hours**
This course is an in-depth coverage of anatomic relationships that are present under various sectional orientations as depicted by medical imaging.

RADR 2313
Radiation Biology and Protection (3-0-0) **3 Hours**
This course is a study of the effects of radiation exposure on biological systems, typical medical exposure levels, methods for measuring and monitoring radiation, and methods for protecting personnel and patients from excessive exposure.

RADR 2331
Advanced Radiographic Procedures (2-2-0) **3 Hours**
This course is a continuation of positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of advanced anatomy and related pathology. Prerequisite: RADR 2401.

RADR 2335
Radiologic Technology Seminar (2-2-0) **3 Hours**
This course is a capstone course focusing on the synthesis of professional knowledge, skills, and attitudes in preparation for professional employment and lifelong learning.

RADR 2336
Special Patient Applications (2-4-0) **3 Hours**
This course is an advanced discussion of pediatrics, geriatrics, trauma, history recordation and abbreviation and ECG. Plebotomy and venipuncture will be discussed and practiced.

RADR 2366
Practicum IV (0-0-23) **3 Hours**
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: RADR 1166.

RADR 2367
Practicum V (0-0-23) **3 Hours**
This course is a practical, general workplace training supported by an individualized learning plan developed by the employer, college, and student. This is an unpaid learning experience. Prerequisite: RADR 2366.

RADR 2401
Intermediate Radiographic Procedures (3-2-0) **4 Hours**
This course is a continuation of the study of the proper manipulation of radiographic equipment, positioning and alignment of the anatomical structure and equipment, and evaluation of images for proper demonstration of anatomy. Prerequisite: RADR 1411.

HPRS 1106
Medical Terminology (1-0-0) **1 Hour**
This course is a study of common medical terminology, word origin, structure, and application.

READING

Dean:	William G. Feeler	141b AFA	685-4626
Lab Director:	Lynda Webb	134 T	685-4639
Division Secretary:	Lula Lee	141 AFA	685-4624

READ 0170
Developmental Reading Lab I (0-1) **1 Hour**
A lab course that emphasizes application of fundamental reading skills to enable student to increase comprehension, vocabulary, and rate. This lab is required to be taken with READ 0370. (3201085235)

READ 0171
Developmental Reading Lab II (0-1) **1 Hour**
A lab course that offers further application of fundamental reading skills to enable student to increase comprehension, vocabulary, and rate. This lab is required to be taken with READ 0371. (3201085235)

READ 0180
Intermediate Reading I (0-2) **1 Hour**
A lab course providing individual instruction in college reading readiness. Prerequisite is READ 0371/0171. (3201085235)

READ 0181
Intermediate Reading II (0-1) **1 Hour**
Lab course required for student who is taking an approved reading-intensive course under the "C or Better" option. Student must make a "C" in this course and a "C" in reading-intensive course to satisfy reading readiness requirements. Special attention given to reading skills that are needed in student's particular course work. (3201085235)

READ 0260
Individualized Developmental Reading (0-2) **2 Hours**
An individualized lab course designed for students who are required to take developmental reading when structured courses are not being offered. Course may be taken more than once. (3201085235)

READ 0350
Applied Reading (3-0) **3 Hours**
A course conducted through lecture/discussion and individual instruction and designed to enable student to increase comprehension through intensive study of critical thinking, vocabulary, and readings in a specified field. Course is designed to help student to increase comprehension, reading rate, and vocabulary. Prerequisite: none. (3201085212)

READ 0370
Developmental Reading I (3-0) **3 Hours**
A course conducted through lecture/discussion and individual instruction and designed to enable student to increase comprehension, reading rate, vocabulary, and study skills. Course provides instruction in coping more effectively with reading requirements in students' other courses. READ 0170 Developmental Reading Lab I is required with this course. Course fee. (3201085235)

READ 0371
Developmental Reading II (3-0) **3 Hours**
A more advanced course conducted through lecture/discussion and individual instruction and designed to enable student to increase comprehension, reading rate, vocabulary, and study skills. Course provides instruction in coping more effectively with reading requirements in students' other courses. READ 0171 Developmental Read Lab II is required with this course. (3201085235)

RESPIRATORY CARE

Dean:	Becky Hammack	209a DFH	685-4600
Program Director:	Robert Weidmann	A34 AMS	685-5549
Clinical Director:	Stan Middleton	A31 AMS	685-5570
Division Secretary:	Kay Floyd	209b DFH	685-4600

Respiratory care is an allied health specialty employed in the diagnostic and therapeutic management of patients with respiratory system abnormalities. The program is designed to provide the necessary education required for a thorough understanding and proficiency in all aspects of respiratory care.

New classes begin each Fall and courses must be taken sequentially for progression in the program. Applicants are strongly encouraged to complete as many non-respiratory courses as possible prior to entering the program. Specific admission criteria are listed in the brochure or call the Health Sciences Division for information. The student must achieve a minimum grade of "C" in all Respiratory and Biology courses, a cumulative grade point average of 2.0 and pass a written and/or clinical simulation final exit exam to be eligible for graduation. Clinicals will be scheduled with Midland/Odessa health care facilities and others as available.

The Midland College Respiratory Care Program is accredited by the Committee on Accreditation for Respiratory Care (CoARC), a branch of the Committee for the Accreditation of Allied Health Education Programs (CAAHEP), which is a branch of the American Medical Association (AMA). Respiratory Care students satisfactorily completing the program will receive a certificate of completion and an associate of applied science degree. These students will be eligible for the Certified Respiratory Therapist (CRT) Entry-Level Exam, which after successful completion will allow the graduate to sit for the Registered Respiratory Therapist/Advanced Practitioner (RRT) exam.

The degree and certificate in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 17 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: BIOL 2401, BIOL 2402, ENGL 1301

Specialty Courses **46 Semester Credit Hours**

RSPT 1141, *RSPT 1160, *RSPT 1161, RSPT 1213, *RSPT 1260, RSPT 1307, *RSPT 1360, RSPT 1410, *RSPT 1411, RSPT 1425, RSPT 2135, RSPT 2139, RSPT 2247, RSPT 2255, RSPT 2305, RSPT 2310, RSPT 2353, *RSPT 2360, *RSPT 2361

Related Courses **6 Semester Credit Hours**

HPRS 1106, ITSC 1191, BIOL 2421

MINIMUM SEMESTER CREDIT HOURS = 69

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfy THEA or alternative THEA requirements.

Oral Communication: RSPT 1360

Basic Use of Computers: ITSC 1191

Course Progression

The following is the **required** sequence of respiratory care courses in the Respiratory Care program.

Fall Admission

First Year, Fall Semester

RSPT 1260, RSPT 1307, RSPT 1410, RSPT 1425

First Year, Spring Semester

RSPT 1213, RSPT 1360, RSPT 1411, RSPT 2310

First Year, Summer I Semester

RSPT 1160, RSPT 2305

First Year, Summer II Semester

RSPT 1161, RSPT 1141, RSPT 2353

Second Year, Fall Semester

RSPT 2255, RSPT 2360

Second Year, Spring Semester

RSPT 2139, RSPT 2135, RSPT 2247, RSPT 2361

Admission Requirements

The Midland College Respiratory Care Program has a limited enrollment based on specific admission criteria. For information regarding the admission criteria, see the program brochure. Each prospective student will be counseled by either the program director or the clinical director as scheduled through the Health Sciences secretaries.

Respiratory Care Technical Standards

Respiratory Care students/practitioners are expected to master the following technical standards of the profession:

- Utilize both visual and auditory monitoring equipment safely and effectively.
- Assess and record changes in patient status using visual, auditory, and tactile senses.
- Troubleshoot patient/equipment systems.
- Effectively and appropriately communicate and relate with patients, their families, and members of the health care team using oral and/or written means.
- Possess strength and mobility sufficient to support and transport patients as well as equipment.
- Perform Respiratory Care procedures while wearing personal protective equipment (mask, gown, gloves, etc.).
- Safely and effectively prioritize workload.
- Perform CPR (bag/mask ventilation, chest compressions).
- Utilize intellectual ability to adapt to changing patients' conditions.

RSPT 1141
Respiratory Home Care/Rehabilitation (1-0-0) **1 Hour**

This course is designed to develop an understanding of respiratory home care/rehabilitation equipment, procedures, and patient care, with emphasis on the use of special technology and equipment in the treatment of patients in a subacute and/or long-term patient care setting.

RSPT 1160
Clinical III (0-0-6) **1 Hour**

This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: RSPT 1360

RSPT 1161
Clinical IV (0-0-6) **1 Hour**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: RSPT 1160

RSPT 1213
Basic Respiratory Care Pharmacology (2-0-0) **2 Hours**
In this course the student will study basic pharmacological principles/practices of respiratory care drugs. Emphasis will be on classification, routes of administration, dosages/calculations, indications, hazards and interaction of the autonomic nervous system.

RSPT 1260
Clinical I (0-0-8) **2 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: RSPT Admission to the program.

RSPT 1307
Cardiopulmonary Anatomy and Physiology (3-0-0) **3 Hours**
In this course the student will gain an increased understanding of the anatomy and physiology of the cardiovascular, renal, and pulmonary systems. This will include the terminology used in respiratory physiology.

RSPT 1360
Clinical II (0-0-16) **3 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: RSPT 1260.

RSPT 1410
Respiratory Care Procedures I (2-6-0) **4 Hours**
This course provides students with the essential knowledge of the equipment and techniques used in the treatment of pulmonary disease and their clinical application. The following areas are discussed in-depth; medical gas therapy, humidity and aerosol therapy, hyperinflation therapy, chest physiotherapy, pulse oximetry, arterial puncture, and interpretation. Patient assessment skills will also be addressed.

RSPT 1411
Respiratory Care Procedures II (3-3-0) **4 Hours**
This course provides students with essential knowledge of airway care and mechanical ventilation. Airway care includes indications, techniques, equipment, and hazards and complications. Mechanical ventilation includes indications, initiation, modes, clinical application, management, complications, and weaning. Prerequisite: RSPT 1410.

RSPT 1425
Respiratory Care Sciences (4-0-0) **4 Hours**
This course will provide a study of cardiopulmonary sciences including physics, math, chemistry and statistics.

RSPT 2135
Pediatric Advanced Life Support (1-0-0) **1 Hour**
This is a comprehensive course designed to develop the cognitive and psychomotor skills necessary for resuscitation of the infant and child. Strategies for preventing cardiopulmonary arrest and identification of high risk infants and children will be presented.

RSPT 2139
Advanced Cardiac Life Support (1-0-0) **1 Hour**
This is a comprehensive course designed to develop the cognitive and psychomotor skills necessary for resuscitation of the adult. Strategies for managing and stabilizing the cardiopulmonary arrested patient will be included.

RSPT 2247
Specialties in Respiratory Care (2-0-0) **2 Hours**
This course provides an introduction to areas of interest in which the Respiratory Therapist may find application and/or employment. The depth of instruction will provide the indications, expected outcomes, hazards and methods for hyperbaric oxygen (HBO), extracorporeal membrane oxygenation (ECMO), nitric oxide (NO), sleep studies, nutritional assessment, metabolic monitoring, exercise/stress testing, and electroencephalograms.

RSPT 2255
Critical Care Monitoring (1-3-0) **2 Hours**
In this course the students will be introduced to monitoring techniques used clinically to assess a patient in the critical care setting.

RSPT 2305
Pulmonary Diagnostics (2-2-0) **3 Hours**
In this course the student will study the theories and techniques involved in pulmonary function testing diagnostics with emphasis on blood gas theory and analysis, quality control, oximetry, and capnography.

RSPT 2310
Cardiopulmonary Disease (3-0-0) **3 Hours**
This course will provide a discussion of pathogenesis, pathology, diagnosis, history, prognosis, manifestations, treatment, and detection of cardiopulmonary diseases.

RSPT 2353
Neonatal/Pediatric Cardiopulmonary Care (3-0-0) **3 Hours**
In this course the student will study acute care, monitoring, and management as applied to the neonatal and pediatric patient.

RSPT 2360
Clinical V (0-0-16) **3 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: RSPT 1161.

RSPT 2361
Clinical VI (0-0-16) **3 Hours**
This course is a health-related work-based learning experience that enables the student to apply specialized occupational theory, skills, and concepts. Direct supervision is provided by the clinical professional. Clinical education is an unpaid learning experience. Prerequisite: RSPT 2360.

HPRS 1106
Medical Terminology (1-0-0) **1 Hour**
This course is a study of common medical terminology, word origin, structure, and application.

SOCIAL WORK:

(See Psychology and/or Social Work)

SOCIOLOGY AND/OR ANTHROPOLOGY

Dean:	William Morris	141a AFA	685-4640
Faculty:	David Edens	136 AFA	685-4638
	Mike Schneider	129 AFA	685-4642
Division Secretary:	Monica Sosa	141 AFA	685-4640

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts or Associate of Science

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: PSYC 2301

Suggested Courses for Field of Study **12 Semester Credit Hours**

SOCI 1301; SOCI 1306 or ANTH 2301or ANTH 2302; ANTH 2323 or ANTH 2351; HIST 2321 or HIST 2322; ANTH 2389 is an elective for an Anthropology concentration.

Related Courses **8-11 Semester Credit Hours**

For an Associate of Science add 8 semester credit hours of electives; for an Associate of Arts add 6-8 semester credit hours of Modern Language courses and an English literature course.

MINIMUM SEMESTER CREDIT HOURS = 62

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

ANTH 2301
Physical Anthropology (3-0) **3 Hours**

This course covers the physical characteristics of modern man, fossil man, the higher primates, and ethnic groups, and the development of those characteristics. (4503015142)

ANTH 2302
Introduction to Archaeology (3-0) **3 Hours**

This course is an overview of human origins and bio-cultural adaptions. There is an introduction to methods and theory in the excavation and interpretation of material remains of past cultures. Students may not receive credit for both ANTH 2301 and 2302.(45.0301.51 25).

ANTH 2323
World Cultures and Societies (3-0) **3 Hours**

"World Cultures and Societies" is the study of variations among contemporary societies throughout the world. Emphasis is on the historical roots and implications of current sociocultural diversity. Examples will come from a variety of specific societies within a regional context. Students can receive credit for either ANTH 2323 or ANTH 2351, but not both. (4502015342) Also HUMA 2323.

ANTH 2351
Cultural Anthropology (3-0) **3 Hours**

The students will study human culture in historical perspective by examining the development of culture as well as comparing present cultures. (4502015342)

ANTH 2389
Practicum in Museum Archaeology (0-7) **3 Hours**

Students will work with museum archaeological collections. They will learn museum methods; to care for and identify artifacts; and to create data bases. (45.0101.51 25)

SOCI 1301
Introduction to Sociology (3-0) **3 Hours**
In this class students are introduced to the basic concepts of sociology with emphasis on the relationship of culture and social interaction to group behavior; the analysis of social organization, human ecology, and social change. (4511015142)

SOCI 1306
Social Problems (3-0) **3 Hours**
In "Social Problems" sociological concepts are applied to current social issues such as family and community disorganization and crime and delinquency. (4511015242)

SOCI 2301
Marriage and the Family (3-0) **3 Hours**
In this course sociological analysis is applied to human relationships pertaining to the varied aspects of courtship, mate selection and marital adjustment, and to the problem of adjustment in each stage of the life cycle. (4511015442)

SOCI 2306
Human Sexuality (3-0) **3 Hours**
"Human Sexuality" includes units relating to the biological, psychological, social and cultural aspects of sexuality. (4201015342) Also PSYC 2306.

SOCI 2308
Special Topics in Sociology (3-0) **3 Hours**
Titles for this course will vary according to student interest. In each unique class there will be a selected in-depth study of a sociological issue. Students will receive credit only once. (4511015742)

SOCI 2319
American Minorities (3-0) **3 Hours**
"American Minorities" is a sociological analysis of minority-majority group relations, past and present. It examines the causes and consequences of prejudice and discrimination and ways of combating them; it emphasizes the effects of social inequality of race and ethnicity. The sociological significance and historic contributions of the principal minority groups are presented. (4511015342)

SOCI 2320
Minority Issues (3-0) **3 Hours**
"Minority Issues" examines current minority group issues and problems associated with the policies and programs of public and private agencies that impact the family, education, religion, politics and the economy. (4511015342) Also GOVT 2320.

SOCI 2326
Social Psychology (3-0) **3 Hours**
"Social Psychology" is the study of how thoughts, feelings, and behaviors of individuals are influenced by the actual, imagined, and implied presence of others. (4216015142) Also PSYC 2319.

SPEECH

Dean:	William G. Feeler	141b AFA	685-4626
Faculty:	Katherine Allen	127 AFA	685-6409
	Tyler Tindall	125 AFA	685-4637
	Joe Willis	140B AFA	685-6700
Division Secretary:	Lula Lee	141 AFA	685-4624

The courses listed below are suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. An official degree plan should be filed the semester before graduation; please contact the Dean whose name is listed above. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Arts

Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: one English Literature course (Humanities)

Suggested Courses for Field of Study **12 Semester Credit Hours**

Four (12 semester credit hours) of the following SPCH courses: SPCH 1311, SPCH 1315, SPCH 1318, SPCH 1321, SPCH 2301, SPCH 2333, SPCH 2341

Related Courses **9-11 Semester Credit Hours**

6-8 semester credit hours of Modern Language courses and an English literature course.

MINIMUM SEMESTER CREDIT HOURS = 63-65

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirements.

Oral Communication: SPCH course from Communications area of the Approved Core Courses, page 81

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

SPCH 1144, 1145, 2144, 2145
Forensic Laboratory (0-3) **1 Hour**

A course designed to enable students to participate in speech communication activities and research. (2310016035)

SPCH 1311
Introduction to Speech Communication (3-0) **3 Hours**

A course designed to enable students to practice speech communication in interpersonal, small group, and public communication situations and to apply the concepts of communication theory. (2310015135)

SPCH 1315
Public Speaking (3-0) **3 Hours**

A course designed to enable students to research, compose, organize, and deliver speeches for various purposes and occasions with emphasis on listener analysis and informative and persuasive techniques. (2310015335)

SPCH 1318
Interpersonal Communication (3-0) **3 Hours**

A course designed to enable students to analyze and practice person-to-person communication with focus on the development, maintenance, and termination of relationships. Oral presentations and listening skills are emphasized and developed. (2310015435)

SPCH 1321
Business and Professional Speaking (3-0) **3 Hours**
A course designed to enable students to apply the skills of speech communication as they relate to business and professional situations. Practice in public presentations, organizational and small group settings, interviewing, and leadership techniques are emphasized. (2310015235)

SPCH 1342
Voice and Diction (3-0) **3 Hours**
A course designed to enable students to study the physiology and mechanics of effective voice production with practice in articulation, pronunciation, enunciation, and practical use of the International Phonetic Alphabet. Recommended for students studying English as a Second Language. (2310015835)

SPCH 2301 (3-0)
Introduction to Technology and Human Communication **3 Hours**
A survey of emerging interactive communication technologies and their Influence on human communication, including interpersonal, group decision-making, and public and private communication contexts. (09.0101 5106)

SPCH 2316 (3-0)
Interviewing **3 Hours**
A course designed to enable the student to apply communication concepts in selected interview settings with emphasis on dyadic communication, questioning techniques, interview structure, and persuasion. (09.0101 5206)

SPCH 2333
Discussion and Small Group Communication (3-0) **3 Hours**
A course designed to enable students to apply discussion and small group theories and techniques as they relate to group processes and interaction. (2310015635)

SPCH 2335
Argumentation and Debate (3-0) **3 Hours**
A course designed to enable students to study the principles of argumentation and debate. Practice in briefing, evidence, and refutation. (2310015935)

SPCH 2341
Oral Interpretation (3-0) **3 Hours**
A course designed to enable students to practice techniques of analyzing and interpreting literature through preparation and presentation of various literary forms. (2310015735)

VETERINARY TECHNOLOGY

Dean:	Margaret Wade	125 SF	685-4615
Program Director:	Kerry Coombs	183 T	685-4619
	Adrian Hernandez	187 T	685-6478
Division Secretary:	Brenda Smith	124 SF	685-6413

The Veterinary Technology Program is designed to provide the theory and practice to become registered as a Veterinary Technician by the Texas Veterinary Medical Association capable of entering the work force immediately upon graduation.The program is accredited by the American Veterinary Medical Association. A veterinary technician is knowledgeable in the care and handling of animals, in basic principles of normal and abnormal physiology, and in routine laboratory and clinical procedures. During the two years, the student will acquire sufficient theoretical skills and knowledge to enable him to perform in practicums acquiring “hands on’’ experience. The student must achieve a minimum grade of “C” in all VTHT, Chemistry and Biology courses. A cumulative grade point average of 2.0 is required to be eligible to register for graduation. All courses except VTHT 2366 must be completed to be eligible to register for the licensing exam.

The degree in this field offered by Midland College and the courses needed to achieve this credential are presented in the following sections. The student must achieve a minimum grade of “C” in all Veterinary Technology, Chemistry and Biology courses, to achieve a cumulative grade point average of 2.0. Students interested in this program should contact the Program Director or Division office to obtain additional information and/or acquire a degree plan. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80
Required Core Course(s) for this degree: BIOL 2421, CHEM 1405, ENGL 1301, PSYC 2301

Specialty Courses **49 Semester Credit Hours**

VTHT 1105, VTHT 1125, VTHT 1209, VTHT 1301, VTHT 1317, *VTHT 1345, *VTHT 1349, VTHT 1413, *VTHT 1441, VTHT 2201, *VTHT 2213, *VTHT 2323, VTHT 2325, VTHT 2366, VTHT 2421, *VTHT 2435, VTHT 2439

MINIMUM SEMESTER CREDIT HOURS = 69

Graduates of this program must demonstrate general education competencies as follows:
Reading, Writing, Fundamental Mathematical Skills: THEA requirements.
Oral Communication: VTHT 1209 OR VTHT 2435
Basic Use of Computers: VTHT 1317

Admission Requirements

1. Proof of high school graduation or GED completion.
2. A completed VTHT application form for admission to the Veterinary Tech. Program.
3*. Personal interview with Program or Clinical Director.
4*. Successful completion of THEA requirements. Minimum score of 220 in writing, 230 in reading and 230 in math on THEA or completing the appropriate developmental sequence with a grade of "C" or greater.
5*. Recommended observation at a veterinary clinic for sixteen hours.

VTHT 1105
Veterinary Medical Terminology (0-2) 1 Hour
Introduction to word parts, directional terminology, and analysis of common veterinary terms.

VTHT 1125
Pharmacological Calculations (0-2) 1 Hour
Skill development in calculating oral and parental drug dosages.

VTHT 1209
Veterinary Nutrition (2-0) 2 Hours
Fundamentals of energy and non-energy producing nutrients and their sources and functions. Integration of concepts including digestion, absorption, and metabolism with application to normal and therapeutic nutritional needs.

VTHT 1271
License Preparation (2-0) 2 Hours
Review of the Veterinary Technology Curriculum in preparation for students/graduates to take the National and Texas State board exams. Prerequisite: Permission of Director.

VTHT 1301
Introduction to Veterinary Technology (3-1) 3 Hours
Survey of the profession of veterinary technology with emphasis on basic techniques, handling and care of domestic animals, and ethical and professional requirements.

VTHT 1317
Veterinary Office Management (2-2) 3 Hours
Practical experience in management of the veterinary hospital. Emphasis on client relations, record keeping, inventory, employment skills, and computer skills in the veterinary environment.

VTHT 1345
Veterinary Radiology (2-3) 3 Hours
Presentation of theory and principles and practical application of radiology within the field of veterinary medicine. Prerequisites: VTHT 1125, VTHT 1349 and VTHT 1413.

VTHT 1349
Veterinary Pharmacology (3-0) 3 Hours
Fundamentals of pharmacology including recognition, calculation, labeling, packaging, and administration of common veterinary drugs, biologics, and therapeutic agents. Discussion of normal and abnormal responses to these agents. Prerequisites: Must have passed THEA test and CHEM 1405.

VTHT 1413
Veterinary Anatomy and Physiology (3-2) 4 Hours
Gross anatomy of domestic animals including physiological explanations of how each organ system functions.

VTHT 1441
Anesthesia and Surgical Assistance (3-4) 4 Hours
In-depth application of surgical, obstetrical, and anesthesia techniques including identification and use of instruments and equipment. Prerequisites: Permission of Director, must have passed THEA test, VTHT 1125, VTHT 1349 and VTHT 1413.

VTHT 2201
Canine and Feline Clinical Management (1-3) 2 Hours
Survey of feeding, common management practices, and care of canines and felines in a clinical setting. Review of common diseases of canines and felines encountered in the practice of veterinary medicine.

VTHT 2213
Lab Animal Clinical Management (1-3) 2 Hours
Survey of feeding, common management practices, and care of laboratory animals in a clinical setting. Review of common diseases of laboratory animals encountered in the practice of veterinary medicine. Prerequisites: VTHT 2201 and VTHT 2209.

VTHT 2366
Practicum (1-24) **2 Hours**
Practical general training and experiences in the workplace. The college with the employer develops and documents an individualized plan for the student. The plan relates the workplace training and experiences to the student's general and technical course of study. The guided external experiences may be paid or unpaid. This course may be repeated if topics and learning outcomes vary. Prerequisite: Permission of Director. Course Fee.

VTHT 2323
Veterinary Clinical Pathology I (2-4) **3 Hours**
In-depth study of hematology and related chemistries with emphasis on lab procedures. Prerequisites: Permission of Director, VTHT 1301 and VTHT 1413.

VTHT 2325
Large Animal Assisting Techniques (2-3) **3 Hours**
Study of basic restraint and proper management, treatment, and medication techniques for farm animals.

VTHT 2421
Veterinary Parasitology (3-2) **4 Hours**
Study of parasites common to domestic animals including zoonotic diseases. Prerequisites: VTHT 1301 and VTHT 1413.

VTHT 2435
Advanced Veterinary Anatomy and Physiology (3-2) **4 Hours**
Continuation of anatomy of domestic animals including physiological explanations of the functioning of each system. Prerequisites: Permission of Director, VTHT 1301, VTHT 1349, VTHT 1413 and VTHT 2421.

VTHT 2439
Veterinary Nursing Care (3-4) **4 Hours**
A capstone course requiring integration of course work in the field of veterinary technology. Including the application of anesthesia and surgical assisting, nursing principles, restraint and all other areas that apply to Veterinary Technology. The student must demonstrate competencies expected of an entry level registered veterinary technician. Prerequisite: Permission of Director and VTHT 1301, 1413, 2201, 1345, 1349, and 2435. Course fee.

WELDING TECHNOLOGY

Dean:	Curt Pervier	143 T	685-4677
Faculty:	Doug Avery	197 T	685-4689
	Dan Ledbetter	185 T	685-4681
	Joe Smith	ATC	697-5863 ext. 3620
Division Secretary:	Sidney Wristen	143 T	685-4676

The Welding Technology curriculum is designed as three certificate programs or the student may pursue the two-year Associate of Applied Science Degree. The objective of the program is to provide the student the opportunity to develop skills needed to enter the fabrication, manufacturing and/or welding repair industry.

The degrees and certificates in this field offered by Midland College and the courses needed to achieve these credentials are presented in the following sections. Students interested in this program should contact the Division office to obtain additional information and/or acquire a degree or certificate plan. To receive a Welding Technology certificate, students must maintain a 2.5 grade point average within those specified courses. Please note that courses that require prerequisites are denoted by an asterisk (*).

Associate of Applied Science

Core Requirements **A Minimum of 15 Semester Credit Hours**

See Core Requirements, page 80

Required Core Course(s) for this degree: ENGL 1301

Specialty Courses **40 Semester Credit Hours**

WLDG 1521, *WLDG 1557, *WLDG 1553, * WLDG 1530,* WLDG 1534 and three related courses

Related Courses **9 Semester Credit Hours**

MCHN 1320, DFTG elective, POFT 1301

MINIMUM SEMESTER CREDIT HOURS = 64

Graduates of this program must demonstrate general education competencies as follows:

Reading, Writing, Fundamental Mathematical Skills: Satisfied THEA or alternative THEA requirement.

Oral Communication: BMGT 1305

Basic Use of Computers: DFTG elective

Basic Certificate

Specialty Courses **21 Semester Credit Hours**

WLDG 1521, *WLDG 1557, *WLDG 1525, MCHN 1320, PTAC 1308

MINIMUM SEMESTER CREDIT HOURS = 21

Intermediate Certificate

Specialty Courses **20 Semester Credit Hours**

*WLDG 1530, *WLDG 1534, WLDG 1553, *WLDG 2543

MINIMUM SEMESTER CREDIT HOURS = 20

Advanced Certificate

Specialty Courses **20 Semester Credit Hours**

*WLDG 2506, WLDG 2553, *WLDG 2535, *WLDG 2547 or *WLDG 2551

MINIMUM SEMESTER CREDIT HOURS = 20

PTAC 1308
Safety, Health, and Environment I (3-0) 3 Hours
Development of knowledge and skills to reinforce the attitudes and behaviors required for safe and environmentally sound work habits. Emphasis on safety, health, and environmental issues in the performance of all job tasks and regulatory compliance issues.

WLDG 1313
Introduction to Blueprint Reading for Welders (3-0) 3 Hours
A study of industrial blueprints. Emphasis placed on terminology, symbols, graphic description, and welding processes, including systems of measurement and industry standards. Interpretation of plans and drawings used by industry.

WLDG 1371
AWS Certification Review (3-0) 3 Hours
A review of various welding processes, welding, terminology and technology in preparation for taking the American Welding Society Level One Certification written test. American Welding Society Testing fees will apply.

WLDG 1391
Special Topics in Welding Technology (3-0) 3 Hours
Topics address recently identified current events, skills, knowledge, and/or attitudes and behaviors pertinent to the technology or occupation and relevant to the professional development of the student.

WLDG 1437
Introduction to Metallurgy (3-2) 4 Hours
A study of ferrous and nonferrous metals from the ore to the finished product. Emphasis on metal alloys, heat treating, hard surfacing, welding techniques, forging, foundry processes, and mechanical properties of metal including hardness, machinability, and dutility. Safe use of Metallurgy and Chemical equipment.

WLDG 1521
Introduction to Welding Fundamentals (3-6) 5 Hours
An introduction to the fundamentals of equipment used in oxy-acetylene welding (OFW-A) and shielded metal arc welding (SMAW), including welding and cutting safety, basic oxy-acetylene welding and cutting, basic arc welding processes and basic metallurgy. The student will demonstrate safety procedures associated with equipment; and identify ferrous and nonferrous metals.

WLDG 1525
Introduction to Oxy-Fuel Welding (OFW) and Cutting (OFC) (3-6) 5 Hours
An introduction to OFW and OFC, including history and future in welding, safety, setup and maintenance of OFW and OFC equipment and supplies. The student will describe or explain OFW and OFC safety procedures and identify and classify fuels and filler metals. The student will perform entry-level OFW and OFC operations and select proper equipment and materials. Prerequisite: WLDG 1521.

WLDG 1530
Introduction to Gas Metal Arc Welding (GMAW) (3-6) 5 Hours
A study of the principles of GMAW setup and use of GMAW equipment, and safe use of tools/equipment. Instruction in various joint designs. The student will describe welding positions with various joint designs on plate; describe safety rules and equipment used; describe the effects of welding parameters in GMAW; and understand safety rules, equipment used, and testing performed by visual inspection. Student will weld various types of structural material and diagnose welding problems and perform visual inspections. Prerequisite: WLDG 1521.

WLDG 1534
Introduction to Gas Tungsten Arc Welding (GTAW) (3-6) 5 Hours
An introduction to the principles of GTAW, setup/use of GTAW equipment, and safe use of tools and equipment. Welding instruction in various positions and joint designs. The student will describe various joint designs; describe safety rules and equipment; and describe the effects of welding parameters in GTAW; and will weld various structural materials. Prerequisite: WLDG 1521.

WLDG 1553
Intermediate Layout and Fabrication (3-6) 5 Hours
A course which covers design and production of shop layout and fabrication. Emphasis placed on symbols, blueprints, and written specifications. The student will identify auxiliary views and calculate steel and pipe dimensions using layout tools and construction templates. The student will identify fittings, weldments, templates, and tools; and interpret orthographic and isometric drawings.

WLDG 1557
Intermediate Shielded Metal Arc Welding (SMAW) (3-6) 5 Hours
A study of the production of various fillets and groove welds. Preparation of specimens for testing in all test positions. The student will identify principles of arc welding; describe SMAW operations of fillet and groove joints; explain heat treatments of low alloy steels; and explain weld size and profiles. The student will prepare test plates; perform fillet welds in the overhead position; perform Air Carbon Arc Cutting (CAC-A), weld removal; perform bevel groove welds with backing plates in various positions; and demonstrate safe use of tools and equipment. Prerequisite: WLDG 1521.

WLDG 2331
Advanced Blueprint Interpretation and Cost Analysis (3-0) 3 Hours
A continuation of the blueprint for Welders course. Emphasis placed on inspection, cost analysis, and estimating, including instruction in basic drafting skills. Prerequisite: WLDG 1313

WLDG 2355
Advanced Welding Metallurgy (2-2) 3 Hours
A study of metallurgy as it applies to welding, including structure, identification, and testing of metals; temperature changes and their effect on welded metals; properties of metals, and factors affecting weldability of ferrous and nonferrous metals.

WLDG 2380 and 2381
Cooperative Work Experience (1-0-20) 3 Hours
The student will be exposed to the application of career-related activities encountered in the Welding area of specialization. The student is required to work a minimum of 20 hours per week in a paid job in a welding trades cooperative position under the supervision of the college and training sponsor.

WLDG 2506
Intermediate Pipe Welding (3-6) 5 Hours
A comprehensive course on the welding of pipe using the shielded metal arc welding (SMAW) process. Position of welds will be 1G, 2G, 5G, and 6G using various electrodes. Topics covered include electrode selection, equipment setup, and safe shop practices. The student will describe equipment and required pipe preparation. The student will perform 1G, 2G, 5G, and 6G welds using various electrodes. Prerequisite: WLDG 2543. Capstone course.

WLDG 2535
Advanced Layout and Fabrication (3-6) 5 Hours
A continuation of the Intermediate Layout and Fabrication course which covers production and fabrication of layout tools and processes. Emphasis on application of fabrication and layout skills. The student will apply appropriate techniques of fabrication; design welding projects; prepare drawings and produce templates. The student will apply layout offsets; take offs; bills of materials; and apply mathematical concepts in the construction of projects. Safety will be stressed. Prerequisite: WLDG 1553 and WLDG 1557.

WLDG 2539
Advanced Oxy-Fuel Welding (OFW) and Cutting (OFC) (3-6) 5 Hours
A study of all position welding on ferrous and nonferrous metals using OFW processes, including welding, cutting, brazing, and soldering operations. The student will identify and explain OFW procedures; and select proper tools, equipment and materials. The student will perform advanced OFW and OFC operations; and identify and select appropriate tools, equipment, and materials. Safety will be stressed. Prerequisite: WLDG 1525.

WLDG 2543
Advanced Shielded Metal Arc Welding (SMAW) (3-6) 5 Hours
Advanced topics based on accepted welding codes. Training provided with various electrodes in SMAW processes on open V-groove joints in all positions. The student will describe effects of preheating and postweld heating; explain precautions used when welding various metals and alloys; distinguish between qualification and certification procedures; and discuss problems of welding discontinuities. The student will perform open groove welds with mild steel and low alloy electrodes in all positions. Safety will be stressed. Prerequisite: WLDG 1557.

WLDG 2547
Advanced Gas Metal Arc Welding (GMAW) (3-6) 5 Hours
Advanced topics in GMAW welding, including welding in various positions and directions on plate and pipe with .035, .045 and innershield wire with various shielding gases. The student will exhibit expertise in various welding positions on pipe; describe safety rules and equipment used; and describe the effects of welding parameters in GMAW. The student will weld various joint designs and diagnose welding problems and perform visual inspection. Prerequisite: WLDG 1530.

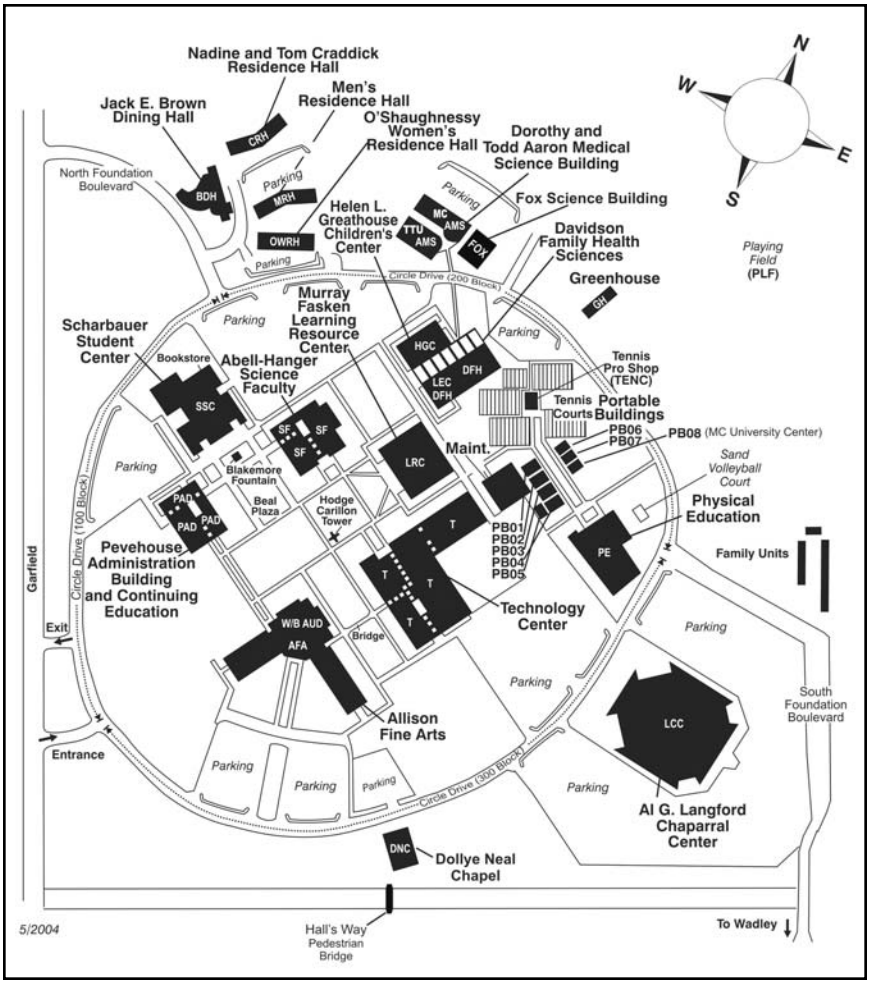
WLDG 2551
Advanced Gas Tungsten Arc Welding (GTAW) (3-6) 5 Hours
Advanced topics in GTAW welding, including welding in various positions and directions. The student will exhibit expertise in various welding positions; describe safety rules and equipment used; and describe the effects of welding parameters in GTAW. The student will weld various joint designs; diagnose welding problems; and perform visual inspection. Prerequisite: WLDG 1534.

WLDG 2553
Advanced Pipe Welding (3-6) 5 Hours
Advanced topics involving welding of pipe using the shielded metal arc welding (SMAW) process. Topics include electrode selection, equipment setup, and safe shop practices. Emphasis on weld positions 5G and 6G using various electrodes. Prerequisite: WLDG 2543 Capstone course.

INDEX

Midland College

Main Campus Map



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