

# MIDLAND COLLEGE

GENERAL CATALOG

2004-2005

VOLUME XXXII



## 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 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 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

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

**Address:**

**Midland College  
3600 North Garfield  
Midland, Texas 79705**

**Telephones:**

(432) 685-4500  
(432) 570-8805  
(432) 570-8875

[www.midland.edu](http://www.midland.edu)

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

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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.

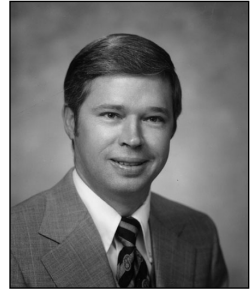
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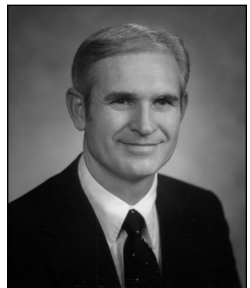
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**Terry Clemmer** . . . . . *Dean of Student Services/Special Populations*

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

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

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

**Nancy Hart** . . . . . *Dean of Business Studies*

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

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

**Margaret Wade** . . . . . *Dean of Mathematics & 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)
- 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 (1998)
- 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/Special Populations*; 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*; B.A., M.A., University of Texas-Permian Basin; A.G.S., Midland College (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)

**Evans, Pervis**, *Talent Search Advisor*, B.A., M.A., Texas Tech University (2003)

**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)

**Franklin, Lorraine**, *Data Center Manager*; A.A.S., Midland College (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 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., University of Texas of the Permian Basin (2004)

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

**Hart, Nancy L.**, *Dean of Business Studies*; B.A., University of Texas at Austin; J.D., University of Georgia (1985)

**Hayes, David**, *Technical Support Manager*, A.S., American Commercial College (1996)

**Hernandez, Maria**, *Resident Hall Manager*; B.A., Angelo State University (2003)

**Hieb, Christopher J.**, *Graphic Artist*; A.A., Midland College; B.A., University of Texas of the Permian Basin (2001)

**Holdridge, Shannon**, *Academic Advisor*; B.A., M.A., Texas Tech University (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)

**Jenkins, Nikki**, *Job Placement Coordinator*; B.B.S., Hardin Simmons University (2000)

**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)

**Johnson, Robert**, *Men's Residence Hall Manager*; B.S., Valdosta State College; M.A., Southern Baptist Theological Seminary (2000)

**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)

**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 (1999)

**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)

**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**, *Librarian*; 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**, *Workforce Education Continuing Education Coordinator*; A.G.S., Midland College (1996)

**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)

**Polnick, Katrina**, *Assistant Women's Basketball Coach*; B.S., Angelo State University; M. Ed., Drury University (2003)

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

**Ramos, Yolanda**, *Loan Coordinator*; 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)

**Renteria, Teresa**, *Gear Up Community Liaison*; B.A. Angelo State University (2002)

**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., North Texas State University; M.Ed., Texas Woman's University; Ed.D., East Texas State University (1982)

**Seanard, Betsy**, *Coordinator of Business and Economic Development Center*; B.S., Louisiana State University (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**, *Student Resource Coordinator*; 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, Hoxie W.**, *Director; Petroleum Geotechnology Training Center*; B.S., Colorado State University; M.S., University of Texas of the Permian Basin (2003)

**Spicer, Renee S.**, *Workforce Training Coordinator*; B.S., Eastern New Mexico University (2000)

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

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

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

**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)

**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)

**Williams, Dale**, *Career Center Director*; 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)

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***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 2004 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)
- Almaguer, Fernando**, *Associate 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, Welding Technology*; A.G.S., Midland College, B.B.A., M.B.A., University of Texas of the Permian Basin (1999)
- Bailey, Carol**, *Instructor, 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; Microsoft Certified Master Instructor (1993)
- 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)

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

**Dodson, Betty**, *Instructor; Program Director, Health Information Technology; A.G.S., A.A.S.*, Midland College; B.A., University of Texas of the Permian Basin; R.H.I.A. (2001)

**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)

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

**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)

**Ford, Sonia**, *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)

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

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

**Houck, Michael L. Todd**, *Instructor, 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)

**Jackson, Melissa**, *Instructor, English*; B.A., University of Texas-San Antonio; M.A., Our Lady of the Lake University, M.A. (2004)

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

**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; Program Director; Vocational 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)



**2004 Teaching Excellence Award Winners  
Claudia Hinds and Gavin Frantz**

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

**Joy, Dorothy**, *Program Director, Associate Degree Nursing*; B.S.N., Corpus Christi State University; M.S.N, University of Texas Health Sciences Center at San Antonio; R.N. (1998)

**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)

**Kemper, Jake**, *Professor, Building Science Technology*; B.S., M.Ed., Sul Ross State University (1997)

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

**Kirk, Clayton Todd**, *Assistant Professor, Psychology*; B.S., Abilene Christian University; M.S., Texas Christian University Ed.D, Texas Tech University (1997)

**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)

**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)

**McDermett, Michelle**, *Veterinary Technology*; A.A.S., Sul Ross State University (2002)

**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**, *Associate Professor, Professional Pilot Program*; A.A.S., Texas State Institute (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)

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

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

**Petz, 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)

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

**Penz, Ed**, *Instructor, Associate Degree Nursing*; 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**, *Instructor, 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)

**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)

**Shofner, Chloice**, *Professor, Economics*; B.B.A., M.B.A., Texas Tech University (1972)

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

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

**Steiner, Valerie**, *Associate Professor, Associate Degree Nursing*; A.A.S., Midland College; B.A., California State University; M.S.N., University of Texas at El Paso; Women's Health Nurse Practitioner; R.N., (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)

**Summers, Ted**, *Associate Professor, Automotive Technology*; A.S.G.S., Midland College (2001)

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

**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*; M.A., University of Texas of the Permian Basin; B.A., Ph.D., Texas Tech University (2001)

**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, Vocational Nursing*; A.A.S., Midland College; B.S.N., Texas Tech Health Sciences Center; R.N. (2001)

**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)

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## FULL TIME LAB FACULTY

Midland College gratefully acknowledges the following individuals who serve as full time lab faculty as of February 2004. This list may vary in different semesters according to student needs.

**Cochran, Cindy**, *Biology*; B.S., Texas Tech University (1998)

**Lanier, Karen**, *Journalism*; A.A., Midland College, B.A., University of Texas of the Permian Basin (1994)

**Lenter, William**, *Information Technology*; A.A.S., Midland College (2000)

**McGowen, Roy**, *Information Technology*; A.A.S., Midland College; CCNA (2002)

**Patterson, Donna**, *Modern Languages*; B.A., M.A., Texas Tech University (2000)

**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)

**Welch, Lisa**, *Biology*; B.S., University of Wyoming, M.A., Texas Tech University (1999)

# ADJUNCT FACULTY

Midland College gratefully acknowledges the following individuals who serve as adjunct faculty members as of February 2004. This list may vary in different semesters according to student needs.

## ACCOUNTING

Upchurch Glenda, A.A.S.

## AGRICULTURE

Kirby, Milton, B.S., M.Ed.

## AIR CONDITIONING, HEATING & REFRIGERATION

Martin, Fred, A.A.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

Kirk, September, M.A.

Holland, Dana, M.A.

Vickery, Eric, M.F.A.

## AUTOMOTIVE

Campbell, Lance, A.A.S.

## 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.

Larson, Greg, M.S.

Miller, Jill, B.A.

Mills, Billy, M.S.

Tedder, James, B.S., M.S.

Webb, Daniel, B.S., M.S.

## BUSINESS

Allen, Lawson, B.B.A.

Austene, Kelli, M.B.A.

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

Dunagan, Andy, B.S.

Hannon, Susan, B.B.A.

Havins, Catherine, M.Ed.

Honaker, Kay, B.B.A.

MacLeod, Chris, B.S.

## CHEMISTRY

Firkins, Justin, B.S.

McQueen, Leah, B.S., M.S.

## CHILD CARE AND DEVELOPMENT

Fields, Donna, M.S.

Galindo, Estella, M.A.

Munden, Leisha, M.A.

Nichols, Barbara, B.A.

## COMPUTER GRAPHICS TECHNOLOGY

Baker, Vanessa, A.A.S.

Harris, Stan, B.S.

Ruckman, David, A.A.S.

Silva, Julio, A.A.S.

## CONTINUING EDUCATION

Adams, Suzan

Ahrendson, Douglas

Aleman, Lupe

Anders, Terrance

Baze Georgianna

Becker, Jane

Brahaney, Kay

Braneff, Mel

Brown, Sylvia

Brownlow, Crystal

Brunson, Brandon

Bucy, Bill

Campbell, Robbie

Campbell, Shirley

Carrasco, Jonathon

Carrillo, Nancy

Carruth, Bevra

Castilla, Jonathan

Chaney, Fred

Cordero, Michelle

Crenshaw, Susan

Culver, Charlotte

Cunningham, Chris

Dalton, Charlotte

Davis, Robin

Desparrois, Michael

Dowell, Kathy

Edwards, DiAnn  
Edwards, Kimberly  
Elliott, Barbara  
Ellison, Mary Jo  
Enriquez, Chris  
Evans, Tina  
Forrest, Margie  
Foster, Kim  
Garcia, Jon  
Garcia, Kathy  
Gillaspy, Genia  
Gladden, Michelle  
Gore, Donna  
Griffin, Judy  
Gutierrez, Socorro  
Guyton, Sam  
Halepeska, Bill  
Harris, Belle  
Hart, Jill  
Haskell, Ryan  
Hennis, Amy  
Henson, Sally  
Herring, Amy  
Hightower, Blake  
Hodgens, Jennifer  
Holley, Janice  
Hurta, Melanie  
Johnson, Pete  
Jolly, Ashley  
Klattenhoff, John  
Kovacich, Debbie  
Larson, Charlotte  
Ledbetter, Dan  
Leggett, Danielle  
Lindsey, Bernadette  
Lloyd, Garry  
Lozano, Matt  
Lujan, Roxana  
Madrid, Albert  
McAdoo, Bruce  
McArthur, Jan  
McBurney, Amanda  
McKown, Denise  
Meador, Sarah  
Mendoza, Derlys  
Morgan, Michael  
Moore, Ashley  
Moore, Travis  
Morris, Brenda  
Morris, Will  
Neilitz, Nathan  
Odom, Altha

Oknefski, Mindy  
Owens, Austin  
Pearcy, Van  
Pinkerton, Vicki  
Pitts, Larry  
Poe, Narda  
Porsch, Barbara  
Price, Phyllis  
Proctor, Barbara  
Puentes, Sissy  
Puga, Richy  
Ramharter, Mary Jo  
Reker, Donna  
Reyes, Clarissa  
Rhoades, Harlan  
Ricker, Prince  
Routh, William  
Schultz, Ralph  
Shellenberger, Anita  
Sigler, Missey  
Shofner, Chloice  
Smith, Todd  
Speight, Becky  
Stoltz, Kristen  
Talley, Jennifer  
Tassin, Alex  
Taylor, Eloise  
Thomas, Jamie  
Thompson, Donna  
Tindol, Adam  
Traxel-Hawryluk, Claudia  
Underwood, April  
Van Stavern, James  
Vannaman, Tom  
Vasquez, Isaac  
Vickery, Eric  
Walsh, Lawrence  
Watts, Cindy  
Welch, Ofelia  
White, Dana  
Winston, Dee Ann  
Woodson, Jane  
Young, Jake

## 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

Gonzalez, Ismael, EMT-P

Heredia, Jr., Manuel, EMT-P

Hodges, Steve, EMT-P

Martin, James, EMT-P

Martin, Bill, EMT-P

McGary, Brian, EMT-P

Moseley, Travis, EMT-P

Nunn, Bodie, EMT-P

Owens, Rick, EMT-P

St. Clair, Jeriami, EMT-P

## ENGLISH

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.

Huelster, Dorthea, 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.

McKenzie, Billie, M.Ed.

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.

Zachry, Katanna, M.A.

## FIRE PROTECTION

Kuhn, Mark, A.A.S.

Muller, Robert, A.A.S.

Oakley, Wyatt, A.A.S.

## GEOLOGY

Erskine, Woody, B.S.

Gawloski, Joan, B.S., M.S.

Lawler, Sydney, B.A., M.S.

Penley, Michael, B.S., M.S.

## GOVERNMENT/POLITICAL

### SCIENCE

Burns, Robert, B.A.,

Former Mayor of Midland

Cook, John, J.D.

Dalton, Pat, M.P.A.

Gibbs, Ryan, M.P.A., B.A.

Hammon, Greg, M.A.

Manning, Sam, Ed.D.

Meador, William, M.A.

Roomberg, Susan, M.P.A.

## HEALTH INFORMATION

### TECHNOLOGY

Cosner, Denise, RN; BSN

## HEALTH SCIENCES CONTINUING

### EDUCATION

Allen, Katherine, BA, MA, RMT

Bautista, Tammy, HUC

Bersosa, Alfred

Bragg, Johnny L.

Brown, Elizabeth, MSRS, RDMS

Corbett, Sherry, RN

Dodson, Betty, R.H.I.T.

Dodson, Michael

Donaldson, Vaughn, EMT-P

Edwards, Linda, CNA

Fields, Donna, MS

Foster, Kathleen, RN

Fryar, Thomas

Grenvick, Diane

Hamels, Paul, RMT, MTI

Hanniffin, Mark

Heredia, Yalina L.

Heathman, William, BS, RTR

Ingram, Berry, EMT-P

Johnson, Dusty L.

Jones, Susan, RN, MS, CS, LPC

Jordan, Linda, AAS, RN

Kimbrough, Glyndon Ruth, NFA

Lawrence, Madylon, RN, AAS,

BSN

Lester, Sherry

Lomax, Renee, RN

Lothringer, Joan, RN  
McBurney, Marilyn, A.S.C.P.  
Middleton, Stan, AAS, BS, RRT,  
RCP  
Mock, Lynn, BSN, RN  
Mossbarger, Deborah L., RN  
Munden, Leisha L., M.A.  
Munoz, Elizabeth, CNA  
Oliver, Marion, EMT-P  
Partridge, Jr., Toby, EMT-P  
Penz, Edward, RN, CNA, BC,  
MS  
Powell, Linda, LVN  
Roome, Tracy D.  
Saunders, Beth, RMT  
Sevcik, Lenora C., RN, MSN  
Stotts, Rita, AGS  
Torello, Penelope, ABOC  
Waldrop, Terry, AAS, CPS  
Weidmann, Robert, RRT, RPFT,  
RCP  
Willis, Jack K., BS, EMT-P, LP  
Wood, Tracie J., AAS, BSN, RN

#### 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.  
Little, Terry, M.A.  
Meador, William, M.A.  
Powers, Kristi, M.A.  
Scarborough, Cary, M.S.  
Synatschk, Debra, M.A.  
Wilson, Susan, M.A.

#### INFORMATION TECHNOLOGY

Bynum, Kent, B.B.A.  
Bynum, Sondra, M.Ed.  
Dennison, Tammy, M.S.  
Farr, Gary, CNA, CNE, ASE  
Network Specialist  
Floyd, Kay, A.G.S., CPS  
Granado, Lisa, B.B.A.  
Hamilton, Pamela, B.B.A.  
Herring, Amy, M.Ed.  
Laing, Chuck, A.A.S.  
Newton, Janet, M.Ed.  
Pillely, Brenda, B.B.A.  
Scharf, Nancy, A.A.S.

Sullivan, Mary, A.A.S.  
Waldrop, Terri, 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.  
Kelso, Barbara, Certified Aikido  
Instructor  
Kelso, Les, Certified Aikido  
Instructor  
Lawless, Rita, Certified  
Cheerleader Instructor  
McReynolds, Melinda, Certified  
Aerobics Instructor  
Pierce, Tony, Certified National  
Soccer Coaches  
Polnick, Katrina, M.Ed., B.S.  
Roberts, Christy, Certified  
Aerobics Instructor (Step-  
Kickboxing Trainer)  
Singh, Lupe, Certified Aerobics  
Instructor  
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.  
Langford, Melanie, CLA  
Roosa, John, J.D.

#### MATHEMATICS

Abbot, Carolyn, B.S.  
Battle, Jane, B.S.  
Cranford, Sara, B.S., M.Ed.  
Cultreri, Susan, B.S.  
Edwards, Phillip, B.A., M.Div.  
Foreman, Francis, B.S., M.E.  
Kahlich, Lou Ann, B.S.  
Leonard, Margaret, B.A., M.A.  
Lopez, Louisa, B.A.  
McCarty, Lois, B.A., M.Ed.  
McDonald, Barbara, B.S.

McIlwain, Michael, B.S., M.A.  
 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.  
 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.

**GERMAN**  
 Davis, Kerry, M.A.T.

**SPANISH**  
 Depew, Betty, M.A.Ed.  
 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**  
 Farquhar, Paula, RN, MSN  
 Kirby, Cathy, RN, BSN  
 Price, Bea, RN, MSN  
 Reeves, Il, Norman, RN, MSN  
 Sullivan, Patricia, RN, MS

**NURSING-VOCATIONAL**  
 Corbett, Sherry, RN, BSN

**PETROLEUM GEOTECHNOLOGY**  
 Sykes-Bookhammer, Diane  
 Cochran, Rob  
 Gantz, Kent  
 Hise, Becky  
 Lea, Ralph  
 Lufholm, Peter  
 Ogden, Becky  
 Ornelas, James  
 Payne, Celia  
 Simpson, Berry

**PHILOSOPHY**  
 Whitman, Allen, B.D.

**PSYCHOLOGY**  
 Almon, Jeannette, M.A.A.  
 Clemmer, Fern, Ed.D.  
 Edens, David, M.S.  
 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  
 Perales, Isiquio, RT  
 Van Cleave, Jack, RT  
 Wright, Kelly, RT

**READING**  
 Daneker, Elizabeth, B. S.  
 Harrison, Wanda, B. A  
 Jones, Kelie, M.A.  
 McAdoo, Yolanda, M. A.  
 Oakes, Jody, M.Ed.  
 Quilimaco, Gracie, Lily, B.A.  
 Waddell, Robert, M.A.  
 Windham, Stacy, B.S.

**RESPIRATORY CARE**  
 Gordon, Susan, RRT

**SOCIAL WORK**  
 Ellis, Gayle, M.S.W.

**SOCIOLOGY**  
 Edens, David, M.S.

**SPEECH**  
 Allen, Katherine, M.A.  
 Curry, Audrey, M.A.  
 Henry, K. Delise, M.Ed.  
 Ogrin, Dee D., M. S.  
 Reed, Jan, M.A.

# 2004 - 2005 Reference Calendars

## 2004

| S               | M  | T  | W  | T  | F  | S  |
|-----------------|----|----|----|----|----|----|
| <b>JANUARY</b>  |    |    |    |    |    |    |
|                 | 4  | 5  | 6  | 7  | 1  | 2  |
|                 | 11 | 12 | 13 | 14 | 15 | 16 |
|                 | 18 | 19 | 20 | 21 | 22 | 23 |
|                 | 25 | 26 | 27 | 28 | 29 | 30 |
|                 |    |    |    |    |    | 31 |
| <b>FEBRUARY</b> |    |    |    |    |    |    |
|                 | 1  | 2  | 3  | 4  | 5  | 6  |
|                 | 8  | 9  | 10 | 11 | 12 | 13 |
|                 | 15 | 16 | 17 | 18 | 19 | 20 |
|                 | 22 | 23 | 24 | 25 | 26 | 27 |
|                 | 29 |    |    |    |    | 28 |
| <b>MARCH</b>    |    |    |    |    |    |    |
|                 | 1  | 2  | 3  | 4  | 5  | 6  |
|                 | 7  | 8  | 9  | 10 | 11 | 12 |
|                 | 14 | 15 | 16 | 17 | 18 | 19 |
|                 | 21 | 22 | 23 | 24 | 25 | 26 |
|                 | 28 | 29 | 30 | 31 |    |    |
| <b>APRIL</b>    |    |    |    |    |    |    |
|                 | 4  | 5  | 6  | 7  | 1  | 2  |
|                 | 11 | 12 | 13 | 14 | 15 | 16 |
|                 | 18 | 19 | 20 | 21 | 22 | 23 |
|                 | 25 | 26 | 27 | 28 | 29 | 30 |
|                 |    |    |    |    |    | 31 |
| <b>MAY</b>      |    |    |    |    |    |    |
|                 | 2  | 3  | 4  | 5  | 6  | 7  |
|                 | 9  | 10 | 11 | 12 | 13 | 14 |
|                 | 16 | 17 | 18 | 19 | 20 | 21 |
|                 | 23 | 24 | 25 | 26 | 27 | 28 |
|                 | 30 | 31 |    |    |    | 1  |
| <b>JUNE</b>     |    |    |    |    |    |    |
|                 | 6  | 7  | 1  | 2  | 3  | 4  |
|                 | 13 | 14 | 15 | 16 | 17 | 18 |
|                 | 20 | 21 | 22 | 23 | 24 | 25 |
|                 | 27 | 28 | 29 | 30 |    | 5  |

| S                | M  | T  | W  | T  | F  | S  |
|------------------|----|----|----|----|----|----|
| <b>JULY</b>      |    |    |    |    |    |    |
|                  | 4  | 5  | 6  | 7  | 1  | 2  |
|                  | 11 | 12 | 13 | 14 | 15 | 16 |
|                  | 18 | 19 | 20 | 21 | 22 | 23 |
|                  | 25 | 26 | 27 | 28 | 29 | 30 |
|                  |    |    |    |    |    | 31 |
| <b>AUGUST</b>    |    |    |    |    |    |    |
|                  | 1  | 2  | 3  | 4  | 5  | 6  |
|                  | 8  | 9  | 10 | 11 | 12 | 13 |
|                  | 15 | 16 | 17 | 18 | 19 | 20 |
|                  | 22 | 23 | 24 | 25 | 26 | 27 |
|                  | 29 | 30 | 31 |    |    | 28 |
| <b>SEPTEMBER</b> |    |    |    |    |    |    |
|                  | 5  | 6  | 7  | 1  | 2  | 3  |
|                  | 12 | 13 | 14 | 15 | 16 | 17 |
|                  | 19 | 20 | 21 | 22 | 23 | 24 |
|                  | 26 | 27 | 28 | 29 | 30 | 11 |
| <b>OCTOBER</b>   |    |    |    |    |    |    |
|                  | 3  | 4  | 5  | 6  | 7  | 1  |
|                  | 10 | 11 | 12 | 13 | 14 | 15 |
|                  | 17 | 18 | 19 | 20 | 21 | 22 |
|                  | 24 | 25 | 26 | 27 | 28 | 29 |
|                  | 31 |    |    |    |    | 30 |
| <b>NOVEMBER</b>  |    |    |    |    |    |    |
|                  | 1  | 2  | 3  | 4  | 5  | 6  |
|                  | 7  | 8  | 9  | 10 | 11 | 12 |
|                  | 14 | 15 | 16 | 17 | 18 | 19 |
|                  | 21 | 22 | 23 | 24 | 25 | 26 |
|                  | 28 | 29 | 30 |    |    | 27 |
| <b>DECEMBER</b>  |    |    |    |    |    |    |
|                  | 5  | 6  | 7  | 1  | 2  | 3  |
|                  | 12 | 13 | 14 | 15 | 16 | 17 |
|                  | 19 | 20 | 21 | 22 | 23 | 24 |
|                  | 26 | 27 | 28 | 29 | 30 | 31 |

## 2005

| S               | M  | T  | W  | T  | F  | S  |
|-----------------|----|----|----|----|----|----|
| <b>JANUARY</b>  |    |    |    |    |    |    |
|                 | 2  | 3  | 4  | 5  | 6  | 7  |
|                 | 9  | 10 | 11 | 12 | 13 | 14 |
|                 | 16 | 17 | 18 | 19 | 20 | 21 |
|                 | 23 | 24 | 25 | 26 | 27 | 28 |
|                 | 30 | 31 |    |    |    | 1  |
| <b>FEBRUARY</b> |    |    |    |    |    |    |
|                 | 6  | 7  | 1  | 2  | 3  | 4  |
|                 | 13 | 14 | 15 | 16 | 17 | 18 |
|                 | 20 | 21 | 22 | 23 | 24 | 25 |
|                 | 27 | 28 |    |    |    | 5  |
| <b>MARCH</b>    |    |    |    |    |    |    |
|                 | 6  | 7  | 1  | 2  | 3  | 4  |
|                 | 13 | 14 | 15 | 16 | 17 | 18 |
|                 | 20 | 21 | 22 | 23 | 24 | 25 |
|                 | 27 | 28 | 29 | 30 | 31 | 12 |
| <b>APRIL</b>    |    |    |    |    |    |    |
|                 | 3  | 4  | 5  | 6  | 7  | 1  |
|                 | 10 | 11 | 12 | 13 | 14 | 15 |
|                 | 17 | 18 | 19 | 20 | 21 | 22 |
|                 | 24 | 25 | 26 | 27 | 28 | 29 |
|                 |    |    |    |    |    | 30 |
| <b>MAY</b>      |    |    |    |    |    |    |
|                 | 1  | 2  | 3  | 4  | 5  | 6  |
|                 | 8  | 9  | 10 | 11 | 12 | 13 |
|                 | 15 | 16 | 17 | 18 | 19 | 20 |
|                 | 22 | 23 | 24 | 25 | 26 | 27 |
|                 | 29 | 30 | 31 |    |    | 7  |
| <b>JUNE</b>     |    |    |    |    |    |    |
|                 | 5  | 6  | 7  | 1  | 2  | 3  |
|                 | 12 | 13 | 14 | 15 | 16 | 17 |
|                 | 19 | 20 | 21 | 22 | 23 | 24 |
|                 | 26 | 27 | 28 | 29 | 30 | 4  |

| S                | M  | T  | W  | T  | F  | S  |
|------------------|----|----|----|----|----|----|
| <b>JULY</b>      |    |    |    |    |    |    |
|                  | 3  | 4  | 5  | 6  | 7  | 1  |
|                  | 10 | 11 | 12 | 13 | 14 | 15 |
|                  | 17 | 18 | 19 | 20 | 21 | 22 |
|                  | 24 | 25 | 26 | 27 | 28 | 29 |
|                  | 31 |    |    |    |    | 30 |
| <b>AUGUST</b>    |    |    |    |    |    |    |
|                  | 7  | 1  | 2  | 3  | 4  | 5  |
|                  | 14 | 15 | 16 | 17 | 18 | 19 |
|                  | 21 | 22 | 23 | 24 | 25 | 26 |
|                  | 28 | 29 | 30 | 31 |    | 27 |
| <b>SEPTEMBER</b> |    |    |    |    |    |    |
|                  | 4  | 5  | 6  | 7  | 1  | 2  |
|                  | 11 | 12 | 13 | 14 | 15 | 16 |
|                  | 18 | 19 | 20 | 21 | 22 | 23 |
|                  | 25 | 26 | 27 | 28 | 29 | 30 |
| <b>OCTOBER</b>   |    |    |    |    |    |    |
|                  | 2  | 3  | 4  | 5  | 6  | 1  |
|                  | 9  | 10 | 11 | 12 | 13 | 14 |
|                  | 16 | 17 | 18 | 19 | 20 | 21 |
|                  | 23 | 24 | 25 | 26 | 27 | 28 |
|                  | 30 | 31 |    |    |    | 29 |
| <b>NOVEMBER</b>  |    |    |    |    |    |    |
|                  | 6  | 7  | 1  | 2  | 3  | 4  |
|                  | 13 | 14 | 15 | 16 | 17 | 18 |
|                  | 20 | 21 | 22 | 23 | 24 | 25 |
|                  | 27 | 28 | 29 | 30 |    | 26 |
| <b>DECEMBER</b>  |    |    |    |    |    |    |
|                  | 4  | 5  | 6  | 7  | 1  | 2  |
|                  | 11 | 12 | 13 | 14 | 15 | 16 |
|                  | 18 | 19 | 20 | 21 | 22 | 23 |
|                  | 25 | 26 | 27 | 28 | 29 | 30 |
|                  |    |    |    |    |    | 31 |

# MIDLAND COLLEGE CALENDAR 2004-2005

*For your convenience, 2004-2005 reference calendars are on page 23.*

## STUDENT ORIENTATION

|               |  |
|---------------|--|
| June 16       | Student Orientation Meeting in the Scharbauer Student Center 9-11 am |
| August 5 & 18 | Student Orientation Meeting in the Scharbauer Student Center 9-11 am |
| November 11   | Student Orientation Meeting in the Scharbauer Student Center 9-11 am |

## 2004 FALL SEMESTER

|                    |  |
|--------------------|--|
| June 14 - Sept. 3  | <b>WEB Registration</b> for Fall - <a href="http://www.midland.edu">www.midland.edu</a>                    |
| August 9           | Walk-in Early Fall Registration - Open to All Students   |
| August 23-27       | Faculty & Staff Meetings   |
| August 25          | Registration Extended Office Hours Until 7:30 pm   |
| Aug. 26 - Sept. 10 | Concurrent High School Registration Begins   |
| August 27          | <b>Last day to Drop</b> and Obtain 100% of Refundable Fees<br>(See Refund Policy)                          |
| August 28          | Residence Hall move-in after 12:00 pm  |
| August 30          | <b>First Class Day</b> and <b>Late Registration Begins</b> (Late fee charged)                              |
| August 31          | Begin Submission of Intent to Graduate<br>(See Graduation Section of Catalog)                              |
| September 6        | Holiday (Labor Day)  |
| September 9        | Last Day to Late Register  |
| September 15       | Census Day   |
| November 15        | <b>WEB Registration</b> for Spring & Winter Interim - <a href="http://www.midland.edu">www.midland.edu</a> |
| November 19        | <b>Last Day to Withdraw</b> in Registrar's Office with a Grade of "W"                                      |
| November 22        | <b>Walk-in Early Registration</b> for Spring & Winter Interim  |
| November 24        | Holiday After 5 pm (Thanksgiving)  |
| November 29        | Class Instruction Resumes  |
| December 13-16     | <b>Final Examinations</b>  |
| December 17        | Semester Ends; Holiday after 5 pm (Christmas)  |
| December 17        | Residence Hall closes at 12:00 pm  |

## 2004-2005 WINTER INTERIM SESSION

|                   |   |
|-------------------|---|
| Nov. 15 - Dec. 10 | <b>WEB Registration</b> for Winter Interim - <a href="http://www.midland.edu">www.midland.edu</a> |
| November 22       | Walk-in <b>Early Registration</b> for Winter Interim  |
| December 20       | <b>Registration 8-9 am; First Day of Class</b>  |
| December 20       | Census Day  |
| December 24       | Holiday (Christmas)   |
| December 31       | Holiday (New Year's Eve)  |
| January 3         | <b>Last Day to Withdraw</b> in Registrar's Office with a Grade Of "W"                             |
| January 6         | <b>Final Exams</b> and Grades Due   |

## 2005 SPRING SEMESTER

|                   |   |
|-------------------|---|
| Nov. 15 - Jan. 21 | <b>WEB Registration</b> for Spring - <a href="http://www.midland.edu">www.midland.edu</a> |
| Nov. 22 - Dec. 10 | Walk-in <b>Early Registration</b> for Spring Begins                                       |
| January 3         | Administrative Offices Open   |
| January 10-14     | Faculty and Staff Meetings  |
| January 12        | <b>Registration Extended Office Hours</b> Until 7:30 pm                                   |
| January 13-28     | <b>Concurrent High School Registration</b> Begins   |
| January 15        | Residence Hall move-in after 12:00 pm   |
| January 17        | Holiday (Martin Luther King Day)  |
|                   | Registration Open (Scharbauer Student Center)   |
| January 17        | <b>Last day to Drop</b> and Obtain 100% of Refundable Fees<br>(See Refund Policy)         |
| January 18        | <b>First Class Day</b> and <b>Late Registration Begins</b> (Late fee charged)             |
| January 27        | <b>Last Day to Late Register</b>  |



## 2005 SPRING SEMESTER (cont.)

|             |   |
|-------------|---|
| February 2  | Census Day  |
| February 25 | <b>Last Day to Submit Request to Participate in Graduation</b><br>Ceremony and to Order Cap and Gown<br>(See <i>Graduation Section of Catalog</i> ) |
| March 7-11  | Holiday (Spring Break)  |
| March 14    | <b>Class Instruction Resumes</b>  |
| March 24    | Holiday, after 5:00 pm (Easter)   |
| March 29    | Class Instruction Resumes   |
| April 15    | <b>Last Day to Withdraw</b> in Registrar's Office with a Grade of "W"   |
| April 18    | <b>WEB</b> Registration for Spring Interim, Summer I & II, and Fall<br><b>www.midland.edu</b>   |
| April 25    | <b>Walk-in Early Registration</b> Begins for Spring Interim, Summer I & II  |
| May 9-12    | <b>Final Examinations</b>   |
| May 13      | Semester Ends; <b>Graduation</b> (Al G. Langford Chaparral Center, 7 pm)  |
| May 14      | Residence Hall closes at 12:00 pm   |

## 2005 SPRING INTERIM SESSION

|                   |   |
|-------------------|---|
| April 18 - May 13 | <b>WEB</b> Registration for Spring Interim - <b>www.midland.edu</b>       |
| April 25 - May 13 | Walk-in <b>Early Registration</b> for Spring Interim                      |
| May 16            | <b>Registration and First Day of Class</b>                                |
| May 17            | <b>Last Day to Late Register</b> and Census Day                           |
| May 26            | <b>Last Day to Withdraw</b> in the Registrar's Office with a Grade of "W" |
| May 30            | Holiday (Memorial Day)  |
| June 1            | <b>Final Examinations</b> and Grades Due                                  |

## 2005 SUMMER SESSION I

|                   |  |
|-------------------|--|
| April 18 - June 2 | <b>WEB</b> Registration Summer I - <b>www.midland.edu</b>  |
| April 25 - June 2 | Walk-in <b>Early Registration</b> Summer I   |
| June 1            | <b>Last day to Drop</b> and Obtain 100% of Refundable Fees<br>(see <i>Refund Policy</i> )                                  |
| June 2            | <b>First Class Day</b> and <b>Late Registration Begins</b> (Late fee charged -<br>Payment due at the time of registration) |
| June 8            | <b>Last Day to Late Register</b> and Census Day  |
| June 29           | <b>Last Day to Withdraw</b> in The Registrar's Office with a Grade of "W"  |
| July 4            | Holiday (Independence Day)   |
| July 12           | <b>Final Examinations</b> ; Session Ends   |

## 2005 SUMMER SESSION II

|                    |   |
|--------------------|---|
| April 18 - July 12 | <b>WEB</b> Registration for Summer II - <b>www.midland.edu</b>                            |
| April 26 - July 12 | Walk-in <b>Early Registration</b> for Summer II   |
| July 12            | <b>Last day to Drop</b> and Obtain 100% of Refundable Fees<br>(see <i>Refund Policy</i> ) |
| July 13            | <b>First Class Day</b> and <b>Late Registration Begins</b> (Late fee charged)             |
| July 19            | <b>Last Day to Late Register</b> and Census Day   |
| August 9           | <b>Last Day to Withdraw</b> In the Registrar's Office with a Grade of "W"                 |
| August 18          | <b>Final Examinations</b> ; 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.

# 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.



# 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

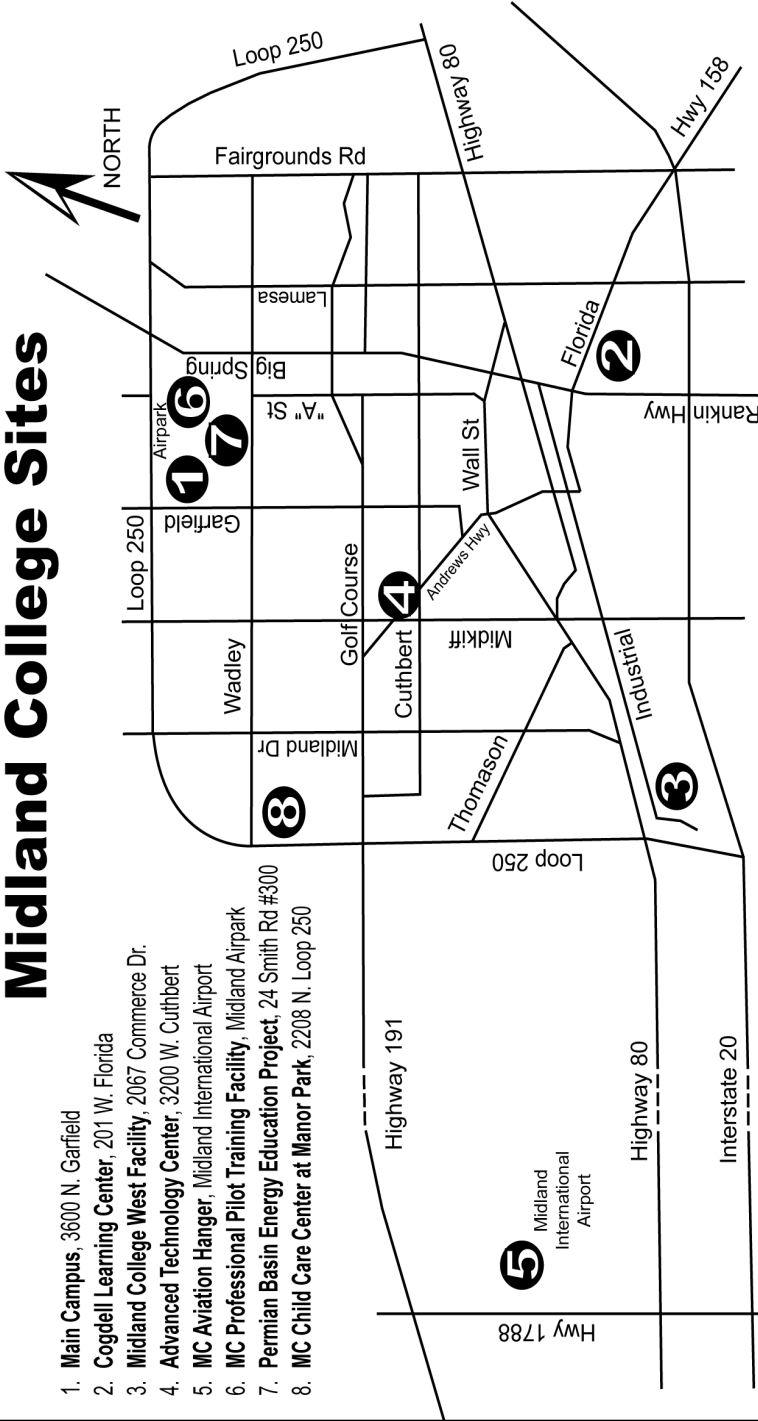
Midland College strives to fulfill its mission through effective programs with clear objectives:

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 Hanger**, Midland International Airport
6. **MC Professional Pilot Training Facility**, Midland Airport
7. **Permian Basin Energy Education Project**, 24 Smith Rd #300
8. **MC Child Care Center at Manor Park**, 2208 N. Loop 250



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

# MIDLAND COLLEGE FACILITIES

## Advanced Technology Center

The Advanced Technology Center (ATC), located at 3200 W. Cuthbert in Midland, is a highly advanced technical educational facility which allows high school and college students the opportunity to gain employable skills in technology while earning high school diplomas, college certificates, and associate of applied science degrees. This facility also enables Midland-area residents to further enhance their technical skills through industry-recognized certifications and other continuing education opportunities. Educational programs and courses taught at the ATC include all aspects of computer information technology, welding technology, metallurgy, computer integrated manufacturing, automotive technology, electronics technology, computer graphics, and health science technology.

The Franz Weis Industrial Technology Center and accompanying exhibit are located near the Automotive Technology labs at the ATC. 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.

## Business and Economic Development Center

The B.E.D.C., located at Midland College Cogdell Learning Center at 201 W. Florida in Midland, promotes economic development in the community by providing comprehensive management, financial, and technical business assistance and training to small businesses and entrepreneurial ventures. It also conducts business and economic research and offers governmental procurement and international trade guidance to private sector businesses.

## Cogdell Learning Center

In 1992 Midland College established a presence in South Midland. That presence is the Midland College Cogdell Learning Center. The purpose of the Cogdell Learning Center is to refer South and East Midland residents to Midland College resources. Via an extensive degree of community outreach, South and East Midland residents will be referred to everything from credit coursework to Kids' College.

The mission of the Cogdell Learning Center is to provide 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 committed to the residents of this area and strives to serve this economically and culturally diverse community.

The Cogdell Learning Center provides the following services: community outreach, GED and ESL courses, federal Talent Search grant services, small business assistance (Business and Economic Development Center), parent training (Barbara Yarbrough Parent Center), adult literacy assistance (Midland Need to Read), and federal financial aid assistance, including Bill Pace Cogdell Scholarship.

## **Dollye Neal Chapel**

The Dollye Neal Chapel was created and endowed through the generosity of Dollye Neal Ballenger as "a place apart" on the Midland College campus for the College family of staff, faculty, students, supporters and officials. While the Chapel has no religious affiliation, the Chapel is open weekdays to all, providing a proper setting for private meditation and reflection. It will also serve as a venue for small events such as weddings and student and faculty meetings that are appropriate for the Chapel's special environment.

## **McCormick Gallery**

Given as a gift by Colonel & 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 art gallery is located in the main foyer of the Allison Fine Arts Building. Approximately six exhibits are installed each academic year with a wide range of media.

## **Midland College Aviation Maintenance Technology**

The Aviation Maintenance Technology program is located in a hangar at the Airport at 2405 Windecker. The hangar is an advanced "state of the art" training facility that offers students a unique opportunity to be trained on real aircraft. The program offers two certificates in Airframe Maintenance and Powerplant Maintenance. This training can qualify the student to take the Federal Aviation Administration (FAA) examination for the Airframe or Powerplant licenses.

## **Midland College Child Care Center at Manor Park, Inc.**

Midland College in collaboration with Manor Park, Inc., created the Midland College Child Care Center, located within the Manor Park, Inc. campus, 2208 North Loop 250. The Center exists for three purposes: child care service, instructional lab support for child development, psychology, health science and other related courses to meet college and high school students' educational goals, and support of the Eden philosophy which includes the presence of children within the senior adult care community. Both senior adults and children receive benefits from social and cognitive interactions. A classroom for instructional purposes is located adjacent to the Child Care Center.

## **Midland College West Facility**

Midland College West, located at 2067 Commerce Drive, was added to assist the non-credit education and credit course offerings efforts in 1997. This 4200 square foot building, and two acre adjacent training yard, is the site for the Transportation Training and other Continuing Education courses.

## Williams Regional Technical Training Center

In 1993, Fort Stockton community leaders placed advancement of technical and higher education among their goals for economic community planning. Early in 1994, a task force of community leaders through the Fort Stockton Chamber of Commerce began meeting with Midland College administration about the possibility of expanding local higher education technical programs. With the task force citing the need for additional facilities to accommodate future technical course development, a sub-committee reviewed the properties then available and concluded that a new facility built next to the high school would best serve the needs of the region. Under the direction of the task force, over \$650,000 was raised to complete a 10,000 square foot facility which opened for classes in September of 1996.

The Regional Technical Training Center (RTTC), was approved by the Southern Association of Colleges and Schools as the first branch campus of Midland College in 1998. Basic academic course offerings are primarily in the areas of biology, economics, English, government, history, math, physical education, psychology, and sociology. Technical courses include child care, paralegal, automotive, personal computer technician, alcohol and drug abuse counseling, accounting, criminal justice, medical terminology, business, management and office procedures. Beyond the academic and technical course offerings, the RTTC has developed a wide variety of continuing education programs to meet the less traditional education needs of the region. A "Kids' College" two week program has also been added to the program to offer educational enrichment programs to the community's youth during the summer. In 2002, the name was changed to the Williams Regional Technical Training Center.



### **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.*

# Permian Basin Energy Education Project

The Permian Basin Energy Education Project, located in the Tgaar Tower at 24 Smith Road, Suite 300, was developed to provide ongoing safety and occupational training for entry-level oil field service workers. The facility includes two large classrooms equipped for multi-media presentations, an assessment room, a student lounge, and staff offices. Course offerings include Universal Oilfield Safety Training, Well Servicing, Hands on Applications Training, and Drilling. The program is designed to assist individuals who are unemployed, underemployed, or very recently employed in the oil field service industry with basic job skills. All courses are offered free of charge due to Department of Labor funding.

## 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.

Through its Distance Learning Program, Midland College offers a variety of non-traditional learning environments. 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 (Big Lake, Rankin, Ft. Stockton, Greenwood, Iraan, and Ozona). Computer Communication-Based Instruction (CCBI) provides course work through e-mail and/or fax in which students use course and lesson information from a disk in order to complete course(s) objectives and send in lessons through e-mail and/or fax. Web Based courses are developed by individual instructors and provide complete course content through use of the Internet. Regional Electronic Academic Communications Highway (R.E.A.C.H.) Courses are interactive television courses which are broadcast through a special network that includes U.T.P.B., Howard College, and Midland College. 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](http://www.vct.org) and all enrollments must be made through Midland College.

For additional information on any of these non-traditional learning approaches, please contact the Department of Distance Learning at (432) 685-5537.





# 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.*

## BACHELOR & MASTER PROGRAMS

### **Lubbock Christian University**

*Bachelor of Science in Organizational Management*  
**Contact Scott Rhodes at (432) 570-0068**

### **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**

## 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 students in career choices or refer to Career Center.
5. Assist students in seeking employment or financial aid.
6. Refer student to any other needed Midland College service such as veterans officer, 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.

## Basis of Admission

Midland College reserves the right to require academic documentation for any applicant. A student's eligibility for re-enrollment at their 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. Proof of satisfactory completion of the (GED) is required, 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 transcript 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 enrolling 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 Skills 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 Catalogue 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 within 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.

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.

4. proof of financial responsibility.

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](http://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](http://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](http://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.



# 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 maybe 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/slr/record-spubs/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 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.**

| HOURS | IN-DISTRICT<br>RESIDENT | OUT-OF-DISTRICT<br>RESIDENT | OUT-OF-STATE<br>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                              | 24.00 |
| 3. Arts 1311, 1312, 1316, 1317, 2311, 2312, 2326, 2327, 2333, 2334                            | 12.00 |
| Arts 2316, 2317, 2366, 2367   | 10.00 |
| Arts 2331, 2332, 2341, 2342, 2346, 2347, 2348, 2349, 2356, 2357                               | 24.00 |
| 4. Auto Maintenance Technology, all lab courses   | 24.00 |
| 5. Aviation Maintenance Technology, all lab courses   | 24.00 |
| 6. Biology  | 24.00 |
| 7. Building Science Technology, all lab courses   | 24.00 |
| 8. Chemistry  | 24.00 |
| 9. Child Care and Development, all lab courses  | 24.00 |
| 10. Communication 1129, 1130, 2129, 2130  | 5.00  |
| Communication 2309, 2310, 2311, 2315, 2327  | 12.00 |
| Communication 1318, 1319, 1320, 1321  | 24.00 |
| 11. Computer Graphics Technology, all lab courses   | 24.00 |
| 12. Criminal Justice, all lab courses   | 16.00 |
| 13. Dance, all classes  | 20.00 |
| 14. Diagnostic Medical Sonography, all lab courses  | 24.00 |
| 15. Drama 2366  | 12.00 |
| 16. Emergency Medical Services, all lab courses   | 24.00 |
| 17. English 0170, 0171, 0181, 0280 and all Freshman and Sophomore classes                     | 8.00  |
| 18. Fire Protection Technology, all lab courses   | 24.00 |
| 19. French  | 8.00  |
| 20. Geology   | 24.00 |
| 21. German  | 8.00  |
| 22. Health Information Technology, all lab courses  | 24.00 |
| 23. Information Technology, all lab courses   | 24.00 |
| 24. Kinesiology/Physical Education, all activity courses                                      | 20.00 |
| 25. Latin   | 8.00  |
| 26. Legal Assistant, all lab courses  | 24.00 |
| 27. Math (all classes except Math 0190 and 0191)  | 7.00  |
| 28. Music 1105 through 1107, 1159, 1162 through 1165, 1181 through 1184,<br>2181 through 2184 | 24.00 |
| All MUAP, All MUEN  | 24.00 |
| 29. Nursing, Associate Degree, all lab courses  | 24.00 |
| Nursing, Vocational, all lab courses  | 24.00 |
| 30. Physics   | 24.00 |
| 31. Professional Pilot, all lab courses   | 24.00 |
| 32. Radiography, all lab courses  | 24.00 |
| 33. Reading, all courses  | 8.00  |
| 34. Respiratory Care, all lab courses   | 24.00 |
| 35. Sign Language   | 8.00  |
| 36. Spanish   | 8.00  |
| 37. Speech 1144, 1145, 2144, 2145   | 5.00  |
| All other Speech courses  | 8.00  |
| 38. Veterinary Technology, all lab courses  | 24.00 |
| 39. Welding Technology, all lab courses   | 24.00 |

# 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. General use fee is included in the "Tuition and Fee Schedule" on page 42.   |                    |
| 5. Identification Card Replacement Fee . . . . .   | 1.00               |
| 6. Installment Payment Plan . . . . .  | 20.00              |
| Installment Payment Plan Late Fee . . . . .  | 10.00              |
| 7. *Liability Insurance . . . . .  | 17.00              |
| *Liability Insurance for Emergency Medical Services courses . . . . .  | 71.00              |
| 8. Late Registration (1st class day through census date) . . . . .   | 15.00              |
| Late Registration after census date . . . . .  | 50.00              |
| 9. Make-up Examination . . . . .   | 5.00               |
| 10. Music Private Instruction Fee . . . . .  | 40.00              |
| 11. NET Admission Test (Required for admission into Associate Degree Nursing,<br>Diagnostic Medical Sonography, Emergency Medical Services, Radiography,<br>Respiratory Care and Vocational Nursing) . . . . . | 20.00              |
| 12. Net Test Fee for Fire Protection . . . . .   | 20.00              |
| 13. Parking replacement sticker or additional vehicle . . . . .  | 1.00               |
| 14. Parking Fines . . . . .  | 5.00               |
| 15. Private Flight Instruction Fee . . . . .   | 6,500.00-11,200.00 |
| 16. Professional Pilot Application Testing Fee . . . . .   | 45.00              |
| 17. Returned Check . . . . .   | 10.00/25.00        |
| 18. THEA fee (Required for ENGL 0370; READ 0370; and MATH 0191) . . . . .  | 29.00              |
| 19. Vocational Nursing Testing Fee (Required for VNSG 1119 and VNSG 1332) . . . . .  | 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; Diagnostic Medical Sonography clinical courses; Emergency Medical Services 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% 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

100% - Prior to 1st class day  
70% - 1st Fifteen class days  
25% - 16th through 20th  
class days  
NONE- After 20th class day

### Summer Sessions

100% - Prior to 1st class day  
70% - 1st Five class days  
25% - 6th and 7th class days  
NONE - After 7th class day  
NONE- After 4th class day

### 3-Week Flexible Entry

100% - prior to 1st class day  
70% - 1st through 3rd  
class days  
25% - 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

100% - Prior to 1st class day  
100% - 1st through 12th class days  
70% - 13th through  
15th class days  
25% - 16th through  
20th class days  
NONE- After 20th class day

### Summer Sessions

100% - Prior to 1st class day  
100% - 1st through 4th class days  
70% - 5th Day  
25% - 6th and 7th class days  
NONE - After 7th class day

### 3-Week Flexible Entry

100% - Prior to 1st class day  
70% - 1st through 3rd  
class days  
25% - 4th 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% 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.

The student's copy of the registration receipt must be presented at the time that a refund is requested. Please allow 30 days for refunds to be processed.

# 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, CLEP, ASE, SSAT 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, CLEP, 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.

### TEXAS HIGHER EDUCATION ASSESSMENT (THEA)

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: Texas Higher Education Assessment, (THEA) formerly TASP, 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 for testing dates. The cost is \$29.00 for each testing session.

## Exemptions/Exceptions

Students can be exempt from the requirements of THEA based on the following:

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:

1. ACT (American College Test) - Composite score of 23 with a minimum of 19 on both the English and mathematics tests:
2. SAT (Scholastic Assessment Test) - a combined verbal and mathematics score of 1070 with a minimum of 500 on both the verbal and the mathematics tests.
3. For a period of three (3) years from the date of testing, a student who is tested and performs on the Texas Assessment of Academic Skills (TAAS) with 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.
4. A student who has graduated with an associate or baccalaureate degree from an institution of higher education.
5. A student who transfers to Midland College from a private or independent institution of higher education or an accredited out of state institution and who has satisfactorily completed college level course work as determined by Midland College.
6. A student who has previously attended any institution and has been determined to have met readiness standards by that institution.
7. A student who is enrolled in a certificate program of one year or less.
8. A student who is serving on active military 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. Documentation will be required.
9. 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. Documentation will be required.
10. Students who are classified as "Casual Students." A Casual Student is a non degree seeking student taking courses for personal enrichment only. Consult with a Midland College Counselor or adviser for course prerequisite and placement requirements. Casual Students are not eligible for Financial Aid.

## 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:

1. 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:

1. 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 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.

**Advanced Standing Examination** - Midland College administers College Level Examination Program (CLEP) examinations. Departmental advanced placement examinations may be prepared by the department chairman for use in cases where CLEP tests are not available. By this means, students may accelerate their college program. A student must have taken, or be taking an equal number of hours at Midland College before they advance place out of a course.

**Credit for Non-traditional Learning** - Midland College may grant credit toward a degree or certificate if an enrolled or previously enrolled credit student has achieved knowledge and skills from non-traditional sources. This knowledge may be demonstrated by: 1) written examination conducted by nationally recognized services or by a Midland College instructional department; 2) professional certification; 3) previous course work at an institutionally accredited vocational school or program; or 4) military training/education. 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.

## Reading Development Placement

| COURSE                             | THEA        | COMPASS | PREREQUISITE   |
|------------------------------------|-------------|---------|--|
| READ 0370 /<br>READ 0170           | 200 or less | 0 - 63  | No prerequisite  |
| READ 0371 /<br>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<br>Restricted Courses | 230+        | 81+     | Specified placement score or "C" or greater in READ 0180             |

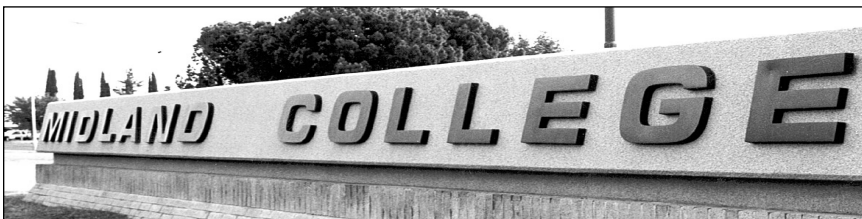


## English Placement and Development Sequence

| 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 60 (Pre-Algebra) |   |
| Math 0390      | 206         | 0390 placement         | "C" or greater in Math 0389                                       |
| Math 0192-0195 | 206         | 0390 placement         | "C" or greater in Math 0389                                       |
| Math 0391      | 230         | 0391 placement         | "C" or greater in Math 0390 or "P" in all sections Math 0192-0195 |
| Math 0196-0199 | 230         | 0391 placement         | "C" or greater in Math 0390 or "P" in all sections Math 0192-0195 |
| Math 1314      | 270         | 1314 placement         | "C" or greater in Math 0391                                       |
| Math 1316      |             | 1316 placement         | "C" or greater in Math 1314                                       |
| Math 1324      | 270         | 1324 placement         | "C" or greater in Math 1314                                       |
| Math 1325      |             |                        | "C" or greater in Math 1324                                       |
| Math 1332      | 270         | 1314 placement         | "C" or greater in Math 0391                                       |
| Math 1333      | 270         | 1314 placement         |   |
| Math 1342      | 270         | 1314 placement         | "B" or greater in Math 0391                                       |
| Math 1348      |             | 1348 placement         | "C" or greater in Math 1316                                       |
| Math 1350      |             |                        | "C" or greater in Math 1314                                       |
| Math 1351      |             |                        | "C" or greater in Math 1350                                       |
| Math 2412      |             |                        | "C" or greater in Math 1314                                       |
| Math 2413      |             | 2413 placement         | "C" or greater in Math 1316                                       |
| Math 2414      |             |                        | "C" or greater in Math 2413                                       |
| Math 2415      |             |                        | "C" or greater in Math 2414                                       |
| Math 2320      |             |                        | "C" or greater in Math 2415                                       |



# 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 includes 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

The Career Center provides services for students with disabilities. These 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 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](http://www.midlandcollegebookstore.com).

## Food Services

Hot and cold food and beverages may be obtained at the snack bar which is located in the Student Center. 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 Blue 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 57,484 [cataloged books](#), 86,880 microforms, 320 videos, 154 CD-ROM programs and 368 magazine, journal and newspaper subscriptions which support the Midland College curriculum. Special subject collections include Health Sciences and Law. Videotapes, audio cassettes, compact discs, and other materials are available for research. The collection is primarily for students, faculty, and staff use. Materials are available for checkout through current ID cards. Library holdings are described by an online catalog enabling author, title, subject, and keyword searches. Labs in the LRC provide computers for word processing and computer-assisted instruction. The LRC's web site is extensive ([www.midland.edu/lrc](http://www.midland.edu/lrc)). Included are links to numerous online databases and to highly recommended web sites for virtually all academic subjects.

## Housing

Midland College offers modern Residence Halls 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 the MC residence halls are expected to behave responsibly, to promote respect for the rights of others, support appropriate study opportunities, and enjoy a positive college experience.

A full-time manager and several student resident assistants live in the residence hall providing supervision and direction for students. They are responsible for the daily operation of residence halls, 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 - 3 meals per day, weekends - 2 meals per day during posted hours of operation. Meal service will not be available Thanksgiving, Christmas, Spring Break and Easter holidays.
- Residence Hall 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 \$1,730 per semester is available. (Applicable sales tax will be charged on the meal charges, current sales tax rate is 8.25%. Current meal charges will be \$830 of the \$1,730.)

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:

|              |         |           |
|--------------|---------|-----------|
| <b>Room</b>  | \$9 day | \$63 week |
| <b>Board</b> | \$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:

- |  | <b>Residence Hall</b>  |
|--|------------------------|
| • <b>Fall Semester</b>   |                        |
| September (date of registration)   | \$880 + applicable tax |
| Second Installment (Prior to 6 <sup>th</sup> class week)   | \$440                  |
| Third Installment (Prior to 11 <sup>th</sup> class week)   | \$440                  |
| • <b>Spring Semester</b>   |                        |
| January (date of registration)   | \$880 + applicable tax |
| Second Installment (Prior to 6 <sup>th</sup> class week)   | \$440                  |
| Third Installment (Prior to 11 <sup>th</sup> class week)   | \$440                  |
| • <b>Meal tickets</b> 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.

## 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 prior to the 3rd after official move-in week  | 75%  |
| Official withdrawal prior to the 6th after official move-in week  | 50%  |
| Official withdrawal prior to the 11th 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.

**Guest Speakers** - The Davidson Distinguished Lecture 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.

**Performing Arts** - The Phyllis and Bob Cowan Performing Arts 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.



# CONTINUING EDUCATION

The Department of Continuing Education offers a large selection of non-credit courses and learning opportunities. Participants are most often individuals who are primarily committed to adolescent and adult responsibilities rather than to a traditional education program. The courses provided by this department are designed to meet specific learning needs, and their format and duration vary accordingly. Courses may be offered on- or off-campus to accommodate special needs and requests.

**Avocational Courses** - These courses are designed for personal enrichment and recreation in a wide range of topics and are developed to respond to needs and requests of the community.

**College Classics** - Classes are offered in response to expressed needs and interests for individuals age 50 and older.

**Kids' College** - A summer enrichment program is offered for students who have completed the first through sixth grades. Our program runs 16 days each summer divided into two sessions.

## HEALTH SCIENCES CONTINUING EDUCATION

A multi-faceted program offering educational courses with clinical experiences for entry level health careers such as certified nurses aide and phlebotomy. In addition to course offerings, this program is approved as a provider by the Texas Nurses Association, Texas State Board of Social Work Examiners, Texas Board of Nursing Facility Administrators, Texas State Board of Licensed Professional Counselors, Texas Department of Health for EMS, National Athletic Trainers Association Board of Certification, and Texas Department of Human Services for Medication Aides, to provide educational activities to those licensed or certified in the State of Texas or nationally.

## WORKFORCE EDUCATION Workforce 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.

### Vocational/Technical Continuing Education

Vocational 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.

# 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.

## PETROLEUM GEOTECHNOLOGY TRAINING CENTER

The Petroleum Geotechnology Training Center (PGTC) located at Midland College is a unique educational facility designed specifically for the local oil and gas industry. The PGTC offers Continuing Education Unit courses designed to help geoscientists and engineers integrate seismic, geologic and engineering information at Linux and PC based computer workstations. Dynamic interaction between the community, the college, and industry enables the PGTC to continue to provide high quality, leading edge workstation education and to meet the professional training needs of the community it serves. For more information please call (432) 686-4242 or (432) 685-4568.

## PERMIAN BASIN ENERGY EDUCATION PROJECT

The Permian Basin Energy Education Project 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.

## 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. 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)** - Preparation classes are available in the Midland College Learning Skills Center to prepare individuals to take the GED examination. GED preparation is also offered at additional sites within the Midland community, including the Midland College Cogdell Learning Center and Casa de Amigos.

**English as a Second Language (ESL)** - Classes provide students with the opportunity to improve their English speaking, reading, and writing skills. ESL classes are offered at different locations throughout the Midland community, including the Midland College Cogdell Learning Center and Casa de Amigos.

**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).

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



# 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 Services.
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<br>Parent | Living in<br>Apartment | Living in<br>Residence Hall |
|----------------|-----------------------|------------------------|-----------------------------|
| Tuition/Fees   | 1,340                 | 1,340                  | 1,340                       |
| Books/Supplies | 821                   | 821                    | 821                         |
| Room/Board     | 2,054                 | 6,073                  | 3,460                       |
| Transportation | 1,255                 | 1,255                  | 1,255                       |
| Personal/Misc. | <u>1,542</u>          | <u>1,542</u>           | <u>1,542</u>                |
| <b>Total</b>   | <b>\$7,012</b>        | <b>\$11,031</b>        | <b>\$8,418</b>              |

## 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 or 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.

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.

| <u>Federal Aid Preference</u> | <u>Priority/Deadline Dates</u> |
|-------------------------------|--------------------------------|
| 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% 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% 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% 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. \$4,000 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; 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% 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 \$500 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 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. 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 veteran benefits should contact the Veterans Coordinator in the Midland College Registrar's 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 when 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.

**Hazelwood Act:** Texas veterans who were residents, joined the military in Texas, and are now residents may be eligible for an exemption of tuition and fees. The Hazelwood Exemption will cover no more than 150 cumulative semester hours. Applicants must provide a DD214 or discharge papers and must complete a short application. A new application must be completed each academic year. If a student uses their Hazelwood Exemption at a school other than Midland College, a Hazelwood 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 a \$1000 exemption from the payment of tuition for students that have completed the requirements of high school graduation (grades 9-12) in no more than 36 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.

**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.tx.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.

**Tuition Rebate Program:** The Texas Education Code authorizes tuition rebates for students who complete baccalaureate degrees with no more than 3 credits in excess of those required for their degrees. Students interested in this program should access the Texas Higher Education Coordinating Board WEB site at: [www.theccb.state.tx.us](http://www.theccb.state.tx.us) or they should contact the financial aid office at the four-year state institution they plan to attend. Midland College does not offer this program because we do not offer a bachelor degree.

# 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 with less than 30 semester hours of credit are classified as freshmen. Students with 30-59 hours of credit are classified as sophomores.

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 standing is dependent upon his/her scholastic performance and is evaluated in relation to the minimum scholastic standard each regular semester. The standard is achievement of a 2.0 grade point average **and completion of at least half of the semester hours attempted**. 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 two consecutive regular semesters will be placed on scholastic enrollment restriction and will not be allowed to enroll for more than two courses 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 3.00 grade point average. This average must be achieved without dropping any classes after the semester census date.

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 be used 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.

# 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, 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.

# Tech Prep Program

The Tech Prep Program is a sequence of study beginning in high school and continuing through college. This cooperative venture between Midland College and several area independent school districts allows students to begin learning technical skills in high school that will eventually lead to employment in high-demand career areas. Students should contact high school counselors or the Associate Vice-President for Instruction, Occupational/Technical Programs to obtain more information.

# 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:**

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 provided by the counselors in the Student Services Office.
2. Withdrawals also can be handled by mail. Students who receive "Warning" letters may complete the drop request portion of the letter and return it to the Office of Student Services. In such cases where the student has moved unexpectedly, a letter stating the desire to withdraw will be accepted. Withdrawals may not be made by telephone.

3. Students who withdrew and have outstanding debts to 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 withdrawal will be the 12th week of a long semester and the 4th week of a summer term.
5. In such cases where the student contracts for an Incomplete "I" rather than a "W", he/she must make up the work within the specified period of time on the contract or the grade will automatically become 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<br>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.

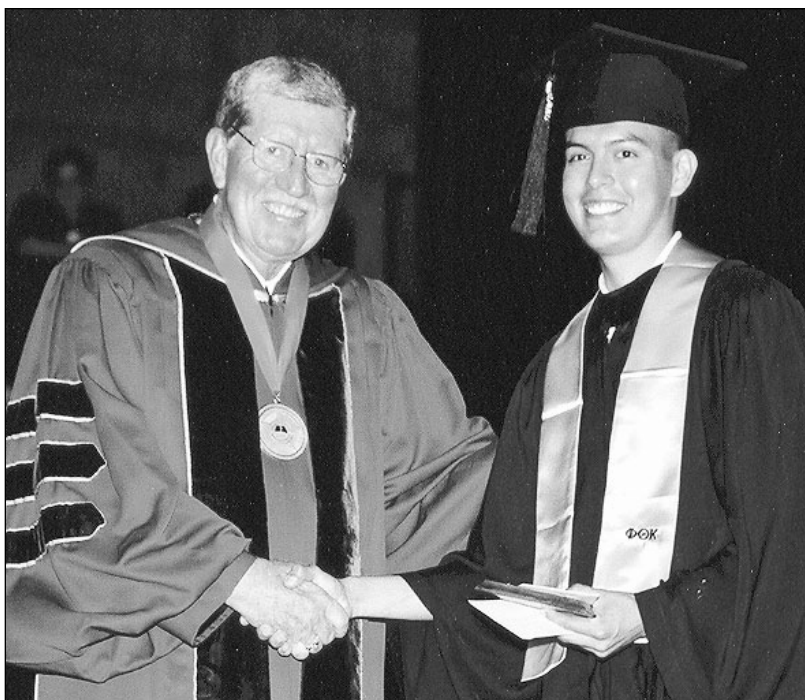
**Honor Roll** - The honor roll is published after the fall and spring semesters. The purpose of the honor roll is to honor full-time students, that is, those who have enrolled in and completed twelve or more semester hours of college level course work and whose academic achievements are worthy of recognition. 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.



***President, Dr. David Daniel, congratulating an MC graduate***



# 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 lower-division courses from other institutions into Midland College certificate and degree plans should be taken directly to the dean responsible for the field of study or program.

**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.

**Non-traditional Education** - Students may request credit for non-traditional education. Determination of the amount of acceptable credit follows a carefully monitored process and begins with a visit to an appropriate faculty member, Dean, or the Registrar. The maximum credit to be awarded is forty (40) semester credit hours. The student must meet THEA requirements before the credit is awarded. Texas law limits the amount of credit for non-traditional learning that may be awarded for courses in American History and Political Science. A maximum of three hours in American History and three hours in Political Science is permitted.

## 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 lower-division 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 80. Core requirements for your specific degree are outlined below.

| Core Area  | AAS, AAGS, and ASGS Degrees  | AA and AS Degrees   |
|--|--|---|
| <b>Mathematics and Natural Sciences</b>          | Minimum of 3 sch*  | 3 sch* Mathematics  |
|  |  | 8 sch* Natural Sciences                                       |
| <b>Visual and Performing Arts and Humanities</b> | Minimum of 3 sch*  | 3 sch* Visual and Performing Arts                             |
|  |  | 3 sch* Humanities   |
| <b>Social and Behavioral Sciences</b>            | 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                                  |
| <b>Communications</b>                            | Competency in reading, writing and speaking - <i>see degree plan</i> | 6 sch* ENGL and 3 sch* SPCH                                   |
| <b>Physical Activity</b>                         | <i>see degree plan</i>   | 1 sch* Physical Activity                                      |
| <b>Total Required</b>                            | Total of 15 sch* selected from Approved Core Courses                 | 42 sch*   |

\* sch = semester credit hours

See APPROVED CORE COURSES on 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 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 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 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 five degrees: Associate of Arts, Associate of Science, Associate of Arts in General Studies, Associate of Science in General Studies, and Associate of Applied Science. 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.

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## 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  
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  | Information Technology—<br><i>Business Computer Applications—<br/>Administrative Assistant</i> |
| Air Conditioning, Heating, and<br>Refrigeration Technology                | <i>Business Computer Applications—<br/>Administrative Clerk</i>                                |
| Alcohol and Drug Abuse  | <i>Computer Maintenance /<br/>Electronics (Basic/Advanced)</i>                                 |
| Counseling  | <i>Data Management</i>   |
| Automotive Technology   | <i>Networking</i>  |
| Aviation Maintenance Technology—<br><i>Airframe<br/>Powerplant</i>        | <i>Programming</i>   |
| Building Science Technology   | Law Enforcement  |
| Business Administration   | Legal Assistant  |
| Child Care and Development  | Long Term Care   |
| Computer Graphics Technology  | Nursing—Vocational   |
| Computer Maintenance  | Radiography—<br><i>Computed Tomography<br/>Magnetic Resonance Imaging</i>                      |
| Diagnostic Medical Sonography   | Transfer Studies   |
| Emergency Medical Services—<br><i>Emergency Medical Technician</i>        | Welding Technology   |
| Fire Protection Technology<br><i>Intermediate<br/>Paramedic</i>           |  |
| Health Information Technology—<br><i>Coding<br/>Medical Transcription</i> |  |

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## 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.

**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 Academic Skills Program.
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 Academic Skills Program.
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.
 

|   | <b>AAGS</b> | <b>ASGS</b> |
|---|-------------|-------------|
| 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 Academic Skills Program.
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 Academic Skills Program 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% 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.

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# DEGREE PLANS AND COURSE DESCRIPTIONS

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## ACCOUNTING

|                    |                 |       |          |
|--------------------|-----------------|-------|----------|
| Dean:              | Nancy Hart      | 142 T | 685-4657 |
| Faculty:           | Dale Westfall   | 158 T | 685-4658 |
| Lab Instructor:    | Glenda Upchurch | 170 T | 686-4208 |
| Division Secretary | Yvonne Hennig   | 142 T | 685-4656 |

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****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.

**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

**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.

**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.

**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.

**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.

# AIR CONDITIONING, HEATING AND REFRIGERATION TECHNOLOGY

|                     |              |       |          |
|---------------------|--------------|-------|----------|
| Dean:               | Curt Pervier | 143 T | 685-4677 |
| Faculty:            | Wayne Young  | 191 T | 685-4687 |
| Division Secretary: |              | 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 75

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 22 Semester Credit Hours

BMGT 1305, DFTG 1309, MCHN 1320, WLDG 1521, two approved related courses, 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 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: | Norma Duran   | 124 SF  | 685-4612 |

Midland College offers an Alcohol and Drug Abuse Counseling (DAAC) 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 TCADA website for licensure requirements [www.tcada.state.tx.us](http://www.tcada.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.

Many of the course prefixes have changed due to the implementation of the Workforce Education Course Manual. Courses previously taken should still apply to these degrees or certificates. Course prefixes and program names are listed in the index. Please check course descriptions carefully and review your schedule with your advisor prior to enrolling.

## Associate of Applied Science

### Core Requirements 16 Semester Credit Hours

See Core Requirements, page 75

Required Core Course(s) for this degree: BIOL 2401, ENGL 1302, one Mathematics course, 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  | 685-4663 |
|          | Warren Taylor       | 187 AFA  | 685-4651 |
|          | Division Secretary: | Lula Lee | 141 AFA  |

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 75

Required Core Course(s) for this degree: ARTS 1303, ARTS 1304

**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 76  
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) (ART 1307)

**ARTS 1303**

**Art History I (3-0)**

**3 Hours**

The student surveys painting, sculpture, architecture, and the decorative arts from pre-historic times to the 14th century. This class requires extensive ability in reading and writing. (5007035230) (ART 1305)

**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) (ART 1306)

**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) (ART 1303)

**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) (ART 1304)

**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. Course fee. (5007055230) (ART 1302)

**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) (ART 2303)

**ARTS 2316**

**Painting I (2-4)**

**3 Hours**

The student explores the potentials of painting media with emphasis on color and composition. Course fee. (5007085230) (ART 2305)

**ARTS 2317**

**Painting II (2-4)**

**3 Hours**

Continuation of Arts 2316 with emphasis on individual student's expression. Prerequisite: ARTS 2316. Course fee. (5007085230) (ART 2306)

**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) (ART 2301)

**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) (ART 2302)

**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. Course fee. (5007095130) (ART 2307)

**ARTS 2327****Sculpture II (2-4)****3 Hours**

A continuation of Arts 2326 with emphasis on student's individual expression. Prerequisite: ARTS 2326. Course fee. (5007095130) (ART 2308)

**ARTS 2333****Printmaking I (2-4)****3 Hours**

An introduction for the student into the basic printmaking processes including etching, monotype, and relief. (5007105130) (ART 2313)

**ARTS 2334****Printmaking II (2-4)****3 Hours**

Opportunities for specialization and experimentation by the student in printmaking processes. Prerequisite: ARTS 2333. (5007105130) (ART 2314)

**ARTS 2341****Art Metals I (2-4)****3 Hours**

Basic techniques for the student working with nonferrous metals. (5007135130) (ART 2321)



**ARTS 2342****Art Metals II (2-4)****3 Hours**

Further investigation by the student of advanced techniques and processes. Prerequisite: ARTS 2341. (5007135130) (ART 2322)

**ARTS 2346****Ceramics I (2-4)****3 Hours**

An introduction for the student to basic ceramic processes. Course fee. (5007115130) (ART 2311)

**ARTS 2347****Ceramics II (2-4)****3 Hours**

Opportunities for specialization by the student in ceramic processes. Prerequisite: ARTS 2346. Course fee. (5007115130) (ART 2312)

**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. Course fee. (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. Course fee. (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. Course fee. (5006055130) (PHOT 1301)

**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. Course fee. (0904015526) (PHOT 1302)

**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. Course fee. (5007085330) (ART 2309)

**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. Course fee. (5007085330) (ART 2310)

**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: |                | 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 75

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

### Specialty Courses

**41 Semester Credit Hours**

AUMT 1280, AUMT 1281, 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 = 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

## 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 1280**

**Cooperative Education - Auto/Automotive Mechanic/Technician (1-0-8) 2 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 1281**

**Cooperative Education - Auto/Automotive Mechanic/Technician (1-0-8) 2 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  | 161 T       | 685-4799 |
|                      |               | MFC         | 684-9800 |

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 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 (\*).

## 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**

## 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**

### **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 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.

# BIOLOGY

|                     |                  |               |          |
|---------------------|------------------|---------------|----------|
| Dean:               | Margaret Wade    | 125 SF        | 685-4615 |
| Faculty:            | Lacye Escamilla  | 147 SF        | 685-5580 |
|                     | Tomas Hernandez  | 105 SF        | 685-6466 |
|                     | Claudia Hinds    | 138 SF        | 685-4630 |
|                     | Paul Mangum      | 128 SF        | 685-4729 |
|                     | Ethel Matthews   | 147 SF        | 685-4635 |
|                     | Lab Instructors: | Cindy Cochran | 157 SF   |
|                     | 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 75

Required Core Course(s) for this degree: CHEM 1411, CHEM 1412, MATH 1314

### Suggested Courses for Field of Study 8 Semester Credit Hours

BIOL 1406 and BIOL 1407\* or BIOL 1411 and BIOL 1413

### Related Courses 16 Semester Credit Hours

PHYS 1401 and PHYS 1402\* or BIOL 2401 and BIOL 2402 or BIOL 2421 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 76

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.

### 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.

**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.

**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.

**BIOL 1411****General Botany (3-3)****4 Hours**

This general biology course is devoted to the study of structure and function of plant cells, tissues, and organs. Includes an evolutionary survey and life histories of the following representative groups: algae, fungi, mosses, liverworts, ferns, and seed producing organisms. Plant reproduction and functional interactions with their environment and with humans. Selected laboratory exercises.

**BIOL 1413****General Zoology (3-3)****4 Hours**

This general zoology course is devoted to the study of the principles of taxonomy, molecular biology, and ecology as they relate to animal form and function, diversity, behavior, and evolution.

**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.

**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.

**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.

**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.

**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 and CHEM 1405 or CHEM 1411 or permission of instructor.

# BUILDING SCIENCE TECHNOLOGY

|                     |              |       |          |
|---------------------|--------------|-------|----------|
| Dean:               | Curt Pervier | 143 T | 685-4677 |
| Faculty:            | Jake Kemper  | 157 T | 685-6428 |
| Division Secretary: |              | 143 T | 685-4676 |

The Building Science Technology program 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 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:              | Nancy Hart      | 142 T  | 685-4657 |
| Faculty:           | Omar Belazi     | 154 T  | 685-4659 |
|                    | Sylvia Brown    | 124 T  | 685-4717 |
|                    | Gavin Frantz    | 105 T  | 685-5517 |
|                    | Doug Johnson    | 119 T  | 685-4665 |
|                    | Adriana Lumpkin | 109 T  | 685-4743 |
|                    | Vickie Pickett  | 107 T  | 686-4204 |
|                    | Andree Rosen    | 115a T | 685-4572 |
| Division Secretary | Yvonne Hennig   | 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 (\*).

## Associate of Science

*Students transferring to another institution should follow this degree plan.*

### **Core Requirements** **42 Semester Credit Hours**

See Core Requirements, page 75

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 Science**

*Students transferring to another institution should follow this degree plan.*

**FRESHMAN YEAR**

| <b>First Semester</b> |                             |                    |
|-----------------------|-----------------------------|--------------------|
| <b>Prefix Number</b>  | <b>Course Name</b>          | <b>Credit Hrs.</b> |
| BUSI 1301             |                             | 3                  |
| ENGL 1301             |                             | 3                  |
| HIST 1301             |                             | 3                  |
| MATH 1324             |                             | 3                  |
| SCIENCE Elec          |                             | 4                  |
| KINE Elec             |                             | 1                  |
|                       | <b>First Semester Total</b> | <b>17</b>          |

| <b>Second Semester</b>              |                              |           |
|-------------------------------------|------------------------------|-----------|
| ENGL 1302 *                         |                              | 3         |
| Visual and Performing Arts Elective |                              | 3         |
| HIST 1302                           |                              | 3         |
| MATH 1325                           |                              | 3         |
| SCIENCE Elec                        |                              | 4         |
|                                     | <b>Second Semester Total</b> | <b>16</b> |

**SOPHOMORE YEAR**

| <b>First Semester</b> |                             |                    |
|-----------------------|-----------------------------|--------------------|
| <b>Prefix Number</b>  | <b>Course Name</b>          | <b>Credit Hrs.</b> |
| ACCT 2401             |                             | 4                  |
| BUSI 2301             |                             | 3                  |
| ENGL (SOPH)           |                             | 3                  |
| GOVT 2301             |                             | 3                  |
| ECON 2301             |                             | 3                  |
|                       | <b>First Semester Total</b> | <b>16</b>          |

| <b>Second Semester</b> |                             |           |
|------------------------|-----------------------------|-----------|
| ACCT 2402 *            |                             | 4         |
| SPCH 1321              |                             | 3         |
| GOVT 2302              |                             | 3         |
| ECON 2302              |                             | 3         |
|                        | <b>First Semester Total</b> | <b>13</b> |

**Associate of Applied Science**

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

See Core Requirements, page 75

Required Core Course(s) for this degree: ECON 2301, ECON 2302

**Specialty 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 1318, two specialty electives and 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: SPCH 1318

Basic Use of Computers: ITSW 1401 or POFI 2401



**Business Administration  
Suggested Degree Plan for Associate in Applied Science**

**FRESHMAN YEAR**

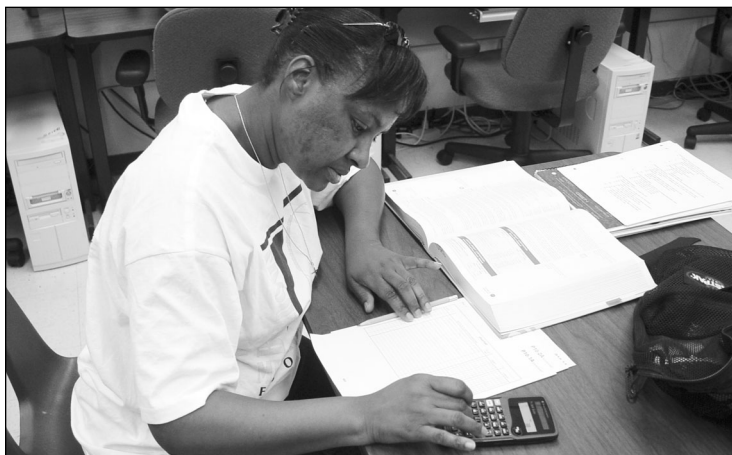
| <b>First Semester</b> |                             |                   |
|-----------------------|-----------------------------|-------------------|
| <b>Prefix Number</b>  | <b>Course Name</b>          | <b>Credit Hrs</b> |
| BUSI 1301             |                             | 3                 |
| ACNT 1403             |                             | 4                 |
| ITSC 1409 or          |                             |                   |
| BCIS 1405             |                             | 4                 |
| SPCH 1318             |                             | 3                 |
| POFT 2312             |                             | 3                 |
|                       | <b>First Semester Total</b> | <b>17</b>         |

| <b>Second Semester</b> |                              |           |
|------------------------|------------------------------|-----------|
| ACCT 2401              |                              | 4         |
| BUSI 2301              |                              | 3         |
| ITSW 1404              |                              | 4         |
| BMGT 1303              |                              | 3         |
|                        | Core Course Elective         | 3         |
|                        | <b>Second Semester Total</b> | <b>17</b> |

**SOPHOMORE YEAR**

| <b>First Semester</b> |                             |                   |
|-----------------------|-----------------------------|-------------------|
| <b>Prefix Number</b>  | <b>Course Name</b>          | <b>Credit Hrs</b> |
| BUSG 2380             |                             | 3                 |
| BUSG 1345             |                             | 3                 |
| ECON 2301             |                             | 3                 |
| BUSA 1313             |                             | 3                 |
| BUSI 2302             |                             | 3                 |
|                       | KINE Elective               | 1                 |
|                       | <b>First Semester Total</b> | <b>16</b>         |

| <b>Second Semester</b> |                              |           |
|------------------------|------------------------------|-----------|
| ECON 2302              |                              | 3         |
| MRKG 1311 or           |                              |           |
| ACCT 2402              |                              | 3         |
|                        | Core Course Elective         | 3         |
|                        | Core Course Elective         | 3         |
|                        | Business Specialty Elective  | 3         |
|                        | Business Specialty Elective  | 3         |
|                        | <b>Second Semester Total</b> | <b>18</b> |



**Certificate Program  
Certificate in Business Administration**

| <b>First Semester</b>        |                    |                   |
|------------------------------|--------------------|-------------------|
| <b>Prefix Number</b>         | <b>Course Name</b> | <b>Credit Hrs</b> |
| BUSI 1301                    |                    | 3                 |
| ITSC 1409 or                 |                    |                   |
| BCIS 1405                    |                    | 4                 |
| ACNT 1403                    |                    | 4                 |
| POFT 2312                    |                    | 3                 |
| POFT 1325                    |                    | 3                 |
| <b>First Semester Total</b>  |                    | <b>17</b>         |
| <br>                         |                    |                   |
| <b>Second Semester</b>       |                    |                   |
| BUSI 2301                    |                    | 3                 |
| ACCT 2401                    |                    | 4                 |
| ITSW 1404                    |                    | 4                 |
| BMGT 1303                    |                    | 3                 |
| <b>Second Semester Total</b> |                    | <b>14</b>         |
| <br>                         |                    |                   |
| <b>Third Semester</b>        |                    |                   |
| BUSG 2380                    |                    | 3                 |
| BUSG 1345                    |                    | 3                 |
| <b>Third Semester Total</b>  |                    | <b>6</b>          |

**General Business Certificate**

**Specialty Courses** **12 Semester Credit Hours**  
 BUSI 1301, BUSI 2301, BUSG 2380, BUSG 1345

**Related Courses** **25 Semester Credit Hours**  
 \*ITSC 1409 or \*BCIS 1405, \*ACNT 1403, \*POFT 2312, POFT 1325, ACCT 2401,  
 \*ITSW 1404, BMGT 1303.

**MINIMUM SEMESTER CREDIT HOURS = 37**

**BUSINESS COMPUTER APPLICATIONS:** 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 Computer Applications Associate of Applied Science**

**General Education Core Courses** **A Minimum of 15 Semester Credit Hours**  
 See Core Requirements, page 75

**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 76

Basic Use of Computers: Specialty Courses

**Suggested Class Sequence:****Business Computer Applications AAS**

| Prefix Number          | Course Name                         | Credit Hrs |
|------------------------|-------------------------------------|------------|
| <b>First Year</b>      |                                     |            |
| <b>First Semester</b>  |                                     |            |
| 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          |
|                        | <b>First Semester Total</b>         | <b>16</b>  |
| <b>Second Semester</b> |                                     |            |
| 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          |
|                        | <b>Second Semester Total</b>        | <b>18</b>  |
| <b>Second Year</b>     |                                     |            |
| <b>Third Semester</b>  |                                     |            |
| 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          |
|                        | <b>Third Semester Total</b>         | <b>17</b>  |
| <b>Fourth Semester</b> |                                     |            |
| POFT 2431              | Administrative Systems              | 4          |
|                        | Core Course Elective                | 3          |
|                        | Specialty Elective                  | 3          |
|                        | Specialty Elective                  | 3          |
|                        | Specialty Elective                  | 3          |
|                        | <b>Fourth Semester Total</b>        | <b>16</b>  |
| <b>Program Total</b>   |                                     | <b>67</b>  |

## Business Applications Certificate

The Business Applications 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.

**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 maybe 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

### Suggested Class Sequence:

#### First Semester

|           |                                     |           |
|-----------|-------------------------------------|-----------|
| CPMT 1303 | Introduction to Computer Technology | 3         |
| POFT 1301 | Business Communications I           | 3         |
| ITSW 1401 | Introduction to Word Processing     | 4         |
| POFT 1309 | Administrative Office Procedure I   | 3         |
|           | <b>First Semester Total</b>         | <b>13</b> |

#### Second Semester

|           |                               |              |
|-----------|-------------------------------|--------------|
| POFT 1325 | Business Machine Applications | 3            |
|           | Specialty Elective            | 3/4          |
|           | Specialty Elective            | 3/4          |
|           | IT/ACNT Elective              | 3/4          |
|           | <b>Second Semester Total</b>  | <b>12/15</b> |

#### Third Semester

|           |                         |   |
|-----------|-------------------------|---|
|           | <b>Desktop Emphasis</b> |   |
| POFI 2431 | Administrative Systems  | 4 |
| IMED 1291 | Web Design I            | 2 |

*or*

|           |                          |   |
|-----------|--------------------------|---|
|           | <b>Medical Emphasis</b>  |   |
| POFM 1302 | Computers in Health Care | 3 |
| HPRS 1106 | Medical Terminology      | 1 |

*or*

|           |                             |            |
|-----------|-----------------------------|------------|
|           | <b>Legal Emphasis</b>       |            |
| LGLA 1345 | Civil Litigation            | 3          |
| LGLA 1317 | Law Office Technology       | 3          |
|           | <b>Third Semester Total</b> | <b>4/6</b> |

**Program Total** **29/32**

# LONG-TERM CARE CERTIFICATE

## *(See Long-Term Care Administration)*

### **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 1291****Special Topics in Educational/Instructional Design (2-0)****2 Hours**

Instruction in web design and related graphic design issues. The student will learn how the internet functions with specific attention to the World Wide Web, and apply design techniques in the creation of graphics and other embedded elements for use in a web page.

**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

**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. Prerequisite: POFT 1429 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 skill and ITSW 1401 or proficiency in a word processing software application.

**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.

**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 Communications I (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 Math 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 Communications II (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, ITSW 1404, ITSW 1401 and either ITSW 1407 or ITSW 1410.



# CHEMISTRY

|                     |                 |        |          |
|---------------------|-----------------|--------|----------|
| Dean:               | Margaret Wade   | 125 SF | 685-4615 |
| Faculty:            | John Anderson   | 127 SF | 685-4620 |
|                     | 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 75

Required Core Course(s) for this degree: MATH 1316 or higher, PHYS 2425, 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 76

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)

### 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)

### 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)

### 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)

### 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)

# 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 75  
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 1357, CDEC 1358, CDEC 1359, 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

CDEC 1396, CDEC 2326, \*CDEC 2328

9 Semester Credit Hours

**MINIMUM SEMESTER CREDIT HOURS = 9**

## Academic Transfer Certificate

### Core Requirements

See Core Requirements, page 75

42 Semester Hours

### Suggested Courses for Field of Study

TECA 1303, TECA 1311, TECA 1318, TECA 1354

12 Semester Credit Hours

**MINIMUM SEMESTER CREDIT HOURS = 54**

### CDEC 1223

#### Observation and Assessment (1-2-0)

2 Hours

A study of the observation techniques of child development assessment skills and techniques of children.

### CDEC 1313

#### Curriculum Resources for Early Childhood Programs (2-2-0)

3 Hours

Fundamentals of curriculum design and implementation in developmentally appropriate programs for young children.

### CDEC 1319

#### Child Guidance (2-2-0)

3 Hours

An exploration of guidance strategies for promoting prosocial behaviors in children. Emphasis on positive guidance principles and techniques, family involvement and cultural influences. Practical application through direct participation with children.

### CDEC 1321

#### The Infant and Toddler (2-2-0)

3 Hours

A study of appropriate infant and toddler (birth to 3 years) programs, including an overview of development, quality caregiving routines, appropriate environments, materials and activities, teaching/guidance techniques and observation methods.

### CDEC 1356

#### Emergent Literacy for Early Childhood (2-2-0)

3 Hours

An exploration of principles, methods, and materials for teaching young children language and literacy through a play-based, integrated curriculum.

### CDEC 1357

#### Math and Science for Early Childhood (2-2-0)

3 Hours

An exploration of principles, methods, and materials for teaching young children math and science concepts through discovery and play.

### CDEC 1358

#### Creative Arts for Early Childhood (2-2-0)

3 Hours

An exploration of principles, methods, and materials for teaching young 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

A survey of information regarding children with special needs including possible causes and characteristics of exceptionalities, educational intervention, available resources, referral processes, the advocacy role and legislative issues.

- CDEC1396**  
**Special Topics in Administration of Programs for Children (2-4-0)** **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.
- CDEC 2315**  
**Diverse Cultural/Multilingual Education (2-2-0)** **3 Hours**  
 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**  
 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**  
 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 2341**  
**The School Age Child (2-2-0)** **3 Hours**  
 A study of appropriate age (5 to 13 years) programs, including an overview of development, appropriate environments, materials and activities, teaching/guidance techniques and observation methods.
- CDEC 2366**  
**Practicum in Child Development and Early Childhood (0-0-21)** **3 Hours**  
 A basic or intermediate type of non-health professions work-based instruction that provides basic career exploration or helps students gain practical experience in the discipline, enhance skills, and integrate knowledge. The emphasis is on practical work experience. Indirect supervision is provided by the work supervisor. A practicum may be a paid or unpaid learning experience. Prerequisite: Director approval.
- TECA 1303**  
**Family and the Community (3-0-0)** **3 Hours**  
 A study of the relationship between the child, family, community, and childhood educators, including a study of parent education and involvement, family and community, lifestyles, child abuse, and current family life issues.
- TECA 1311**  
**Introduction to Early Childhood Education (3-0-0)** **3 Hours**  
 An introduction to the profession of early childhood education, focusing on developmentally appropriate practices, types of programs, historical perspectives, ethics and current issues.
- TECA 1318**  
**Nutrition, Health, and Safety (3-0-0)** **3 Hours**  
 A study of nutrition, health, and safety including community health, universal health precautions, and legal implications. Practical application of these principles in a variety of settings.
- TECA 1354**  
**Child Growth and Development (3-0-0)** **3 Hours**  
 A study of the principles of child growth and development from conception through adolescence. Focus on physical, cognitive, social, and emotional domains of development.

# 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 75

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 1335, COMM 2305, COMM 2327, 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 76

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. Course fee. (0904015406) (JOUR 1101, 1102, 2101, 2102)

### 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. Course fee. (0904035106) (JOUR 1300)

### COMM 1318 (ALSO ARTS 2356)

#### Photography I (2-4)

**3 Hours**

An introductory camera course for beginners in black and white photography. Students learn basic techniques of camera functions, film development, print processing and design fundamentals. Course fee. (5006055126) (PHOT 1301)

**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 with more complex subjects and techniques in order to communicate their ideas through photographic images. Prerequisite: COMM 1318. Course fee. (5006055226) (PHOT 1302)

**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. Course fee. (0904035206)

**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. Course fee. (0904015306) (JOUR 1302, COMM 2310)

**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. Course fee. (0904015306) (JOUR 1301, COMM 2309)

**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. Course fee. (0904015806) (JOUR 2304, COMM 2311)

**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. Course fee. (0902015126) (JOUR 2305)

**COMM 2332****Radio/Television News (3-0)****3 Hours**

Preparation and analysis of news styles for the electronic media. Course fee. (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. Course fee. (0904025106)

# COMPUTER GRAPHICS TECHNOLOGY (DRAFTING)

|                     |              |       |                    |
|---------------------|--------------|-------|--------------------|
| Dean:               | Curt Pervier | 143 T | 685-4677           |
| Faculty:            | Joseph Nye   | ATC   | 697-5863 ext. 3614 |
| Division Secretary: |              | 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 75

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.

## Basic Computer Graphics Certificate

### Specialty Courses 18 Semester Credit Hours

\*DFTG 1302, DFTG 1305, \*DFTG 1309, \*DFTG 2340, and two DFTG electives

**MINIMUM SEMESTER CREDIT HOURS = 18**

Students who complete the Basic Computer Graphics Certificate (18 hours) can choose from the following options.

## Desktop Publishing Certificate

### Specialty Courses 6 Semester Credit Hours

GRPH 1359, ARTC 1313

**MINIMUM SEMESTER CREDIT HOURS = 24**



## Architectural Graphics Certificate

### Specialty Courses

\*DFTG 1317, \*DFTG 2331

6 Semester Credit Hours

MINIMUM SEMESTER CREDIT HOURS = 24

## Exploration Graphics Certificate

### Specialty Courses

\*DFTG 2321, \*DFTG 2330 or 2371

6 Semester Credit Hours

MINIMUM SEMESTER CREDIT HOURS = 24

## Piping Certificate

### Specialty Courses

\*DFTG 2323, \*DFTG 2345

6 Semester Credit Hours

MINIMUM SEMESTER CREDIT HOURS = 24

## Computer Integrated Manufacturing Certificate

### Specialty Courses

\*DFTG 1309, MCHN 1308, MCHN 1319, MCHN 1320, RBTC 2235, RBTC 2447, RBTC 2345

21 Semester Credit Hours

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.

### 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, VIZ Capstone Course

### DFTG 1305

#### Technical Drafting (2-4)

3 Hours

Introduction to the principles of drafting to include terminology and fundamentals, including size and shape descriptions, 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 2004

### 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 2004, Architectural Desktop 2004

- 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
- 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 2004
- 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: AUTO-CAD 2004, Inventor
- DFTG 2319**  
**Intermediate Computer-Aided Drafting (2-4)** **3 Hours**  
 A continuation of practices and techniques used to basic computer-aided drafting emphasizing advanced dimensioning techniques, the development and use of prototype drawings, construction of pictorial drawings, construction of 3 dimensional drawings, interfacing 2d and 3d environments and extracting data. Prerequisite: DFTG 1309 Software: AUTOCAD 2004
- 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 2004
- 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 2004
- 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 2004, 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 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 2004

**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 2004, 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 2004, 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**

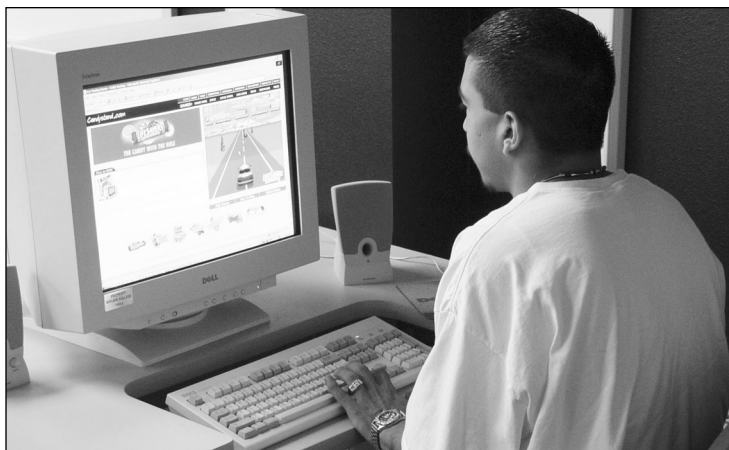
Mastery of the tools and transformation options of an industry standard draw program to create complex illustrations and follow them through to the color output stage. Mastery in the use of basic elements of good layout and design principles and use of the capabilities specific to vector (object oriented) 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.

## COMPUTER INFORMATION SYSTEMS

*(See Information Technology)*

## CO-OPERATIVE WORK EXPERIENCE

|                     |               |      |          |
|---------------------|---------------|------|----------|
| Dean & Director:    | Nancy Hart    | 142T | 685-4657 |
| Division Secretary: | Yvonne Hennig | 142T | 685-6447 |

The co-operative work experience program at Midland College allows vocational-technical students to combine classroom knowledge with on-the-job experience. Students attend seminars on a variety of work-related topics and work as an intern in local businesses and government offices. The classroom topics include interviewing, career development, time management, and resume preparation. Students also discuss applied ethics problems. The internship part of the course is individually designed by the student's supervisor and a faculty coordinator. The course requires 320 hours of on-the-job training (approximately 20 hours per week). Enrollment is flexible; students may start the course at any time during the semester with the consent of the program director.

Co-operative work experience may count towards a degree in the following programs. See individual programs for detailed course descriptions.

- Accounting (ACNT 2382, 2383)
- Air Conditioning, Heating and Refrigeration (HART 1380, 2380)
- Building Science Technology (CNBT 2381)
- Business (BUSG 2380, 2381)
- Automotive Technology (AUMT 1280)
- Computer Graphics (DFTG 2380, 2381)
- Computer Maintenance (CPMT 2380)
- Law Enforcement (CJSA 1382, 2382)
- Information Technology (ITNW 1380)
- Legal Assistant/Paralegal (LGLA 2380, 2381)
- Business Computer Applications (POFT 2380)
- Fire Protection Technology (FIRT 2380)

# CRIMINAL JUSTICE

|                     |   |       |          |
|---------------------|---|-------|----------|
| Dean:               | Nancy Hart                                | 142 T | 685-4657 |
| Faculty:            | Robert Peetz<br><i>rpeetz@midland.edu</i> | 174 T | 685-4685 |
| Division Secretary: | Yvonne Hennig                             | 142 T | 685-6447 |

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 in Science (AS) option is designed for students wishing to pursue 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) option focuses on law enforcement, and is designed for students desiring a two-year college degree. This option has a greater concentration of criminal justice courses, and fewer academic courses, than the AS option. A certificate in law enforcement is also offered for students who need to document certain course work but do not 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** **38 Semester Credit Hours**

See Core Requirements, page 75

Required Core Course(s) for this degree: MATH 1314, PSYC 2301, SOCI 2301, SPCH 1311

### **Criminal Justice Field of Study** **21 Semester Credit Hours**

Required: CRIJ 1301, CRIJ 1306, CRIJ 1310, CRIJ 2313, and CRIJ 2328 and any two of the following: CRIJ 1307, CRIJ 1313, CRIJ 2301, CRIJ 2314, CRIJ 2323

### **Related Courses** **5 Semester Credit Hours**

One KINE activity course, one course from the Natural Sciences section of the Approved Core Courses, page 76

**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 in Applied Science - Law Enforcement (AAS) option serves a dual purpose. It gives students greater flexibility in course work, having more electives than the AS option. Also, a student who takes the proper courses, as described below, may be eligible to take the examination for licensure as a Texas Peace Officer (see note below). Eligibility is determined by the Texas Commission on Law Enforcement.

Graduates from an accredited college or university holding a baccalaureate degree may receive an Associate in Applied Science Degree in Criminal Justice upon successful completion of thirty (30) semester hours of criminal justice courses, and by appropriate leveling courses as determined by the Dean. Students interested in the program should contact either the Dean or the Criminal Justice Coordinator.

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. 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 75  
Required Core Course(s) for this degree: ENGL 1302, GOVT 2301, PSYC 2301, SOCI 1301

#### Specialty Courses 36 Semester Credit Hours

Required (CJ Field of Study): CRIJ 1301, CRIJ 1306, CRIJ 1310, CRIJ 2313, CRIJ 2328;  
Plus the following: CRIJ 2314, CRIJ 2323, CJSJ 2323; 4 specialty course electives.

#### Related Courses 14 Semester Credit Hours+

ENGL 1301, SPCH 1311, GOVT 2302, one non-major elective, KINE 1101, KINE 1101 (may be repeated for credit).

#### 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.

**NOTE:** Licensed peace officers seeking the AAS degree may be awarded credit for the following courses: CJLE 1506, CJLE 1512, CJLE 1518, CJLE 1524. This credit applies only towards the AAS - Law Enforcement degree option. Individuals seeking a peace officer license through the academic alternative must earn the Associate of Applied Science - Law Enforcement Degree and meet the following requirements: Complete the following courses with a grade of B or better: CRIJ 1301, CRIJ 1306, CRIJ 1307, CRIJ 1310, CRIJ 2314, CRIJ 2323, CRIJ 2328; complete the following courses with a grade of B or better after having completed the sequence of CRIJ courses: CJLE 1506, CJLE 1512, CJLE 1518, and CJLE 1524; prior to enrolling in the CJLE courses submit to a background check including fingerprinting, criminal history, driving history and military history (if applicable) (§ 215.40, TCLE Rules). Individuals not qualified to become Texas Peace Officers may not enroll in these courses.

## Law Enforcement Certificate

### Specialty Courses

**21 Semester Credit Hours**

Required: (CJ Field of Study): CRIJ 1301, CRIJ 1306, CRIJ 1310, CRIJ 2313, CRIJ 2328;

Plus any two CRIJ/CJCR/CJSA/CJLE courses. Other courses may be substituted with approval of the Program Coordinator and Division Dean.

### Related Courses

**5 Semester Credit Hours\***

GOVT 2301, KINE 1101, KINE 1101 (may be repeated for credit).

\*The student must demonstrate the ability to use computers. The requirements can be met by ITSC 1409, testing, or a college or high school course. All course work must be approved by the Dean.

**MINIMUM SEMESTER CREDIT HOURS = 26**

### CJLE 1506

#### Basic Peace Officer I (4-6)

**5 Hours**

Introduction to fitness and wellness, history of policing, professionalism and ethics, United States Constitution and Bill of Rights, criminal justice system, Texas Penal Code, Texas Code of Criminal Procedure, civil process, and stress management

### CJLE 1512

#### Basic Peace Officer II (4-6)

**5 Hours**

Basic preparation for a new peace officer. Covers field note taking, report writing, "use of force" law and concepts, problem solving, multiculturalism, professional policing approaches, patrol procedures, victims of crime, family violence, MHMR, crowd management, HAZMAT, and criminal investigation

### CJLE 1518

#### Basic Peace Officer III (4-6)

**5 Hours**

Basic preparation for a new peace officer. Covers laws pertaining to controlled substances, crowd management, personal property, and crime scene investigation.

### CJLE 1524

#### Basic Peace Officer IV (4-6)

**5 Hours**

Basic preparation for a new peace officer. Covers laws directly related to police field work. Topics include Texas Transportation Code, intoxicated driver, Texas Penal Code, elements of crimes, Texas Family Code, Texas Alcoholic Beverage Code, and civil liability. Requires the demonstration and practice of the skills of a police officer including patrol, driving, traffic stop skills, use of force, mechanics of arrest, firearm safety, and emergency medical care. Also includes study of the techniques and procedures used by police officers on patrol. Includes controlled substance identification, handling abnormal persons, traffic collision investigation, note taking and report writing, vehicle operation, traffic direction, crowd control, and jail operations.



**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 1393****Special Topics in Criminal Justice Studies (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 students.

**CJSA 2323****Criminalistics (3-0)****3 Hours**

Theory and practice of crime scene investigation. Topics include report writing, blood and other body fluids, document examination, etchings, casts and molds, glass fractures, use of microscope, and firearms identification.

**CRIJ 1301 (CJSA 1322)****Introduction to Criminal Justice (3-0)****3 Hours**

Introduction to the criminal justice system, including the history and philosophy of criminal justice, the definition of crime, its nature and impact, the components of the criminal justice system, and an introduction to law and legal concepts. (CJSA 1322)

**CRIJ 1306 (CJSA 1313)****Courts Systems and Practices (3-0)****3 Hours**

An examination 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, pre-trial release, grand jury process, adjudication of crimes, rules of evidence and sentencing.

**CRIJ 1307 (CJSA 1312)****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 character of specific crimes, and crime prevention.

**CRIJ 1310 (CJSA 1327)****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 crime and penalties, and criminal responsibility.

**CRIJ 1313 (CJSA 1317)****Juvenile Justice Systems (3-0)****3 Hours**

A study of the juvenile justice process. Topics include specialized juvenile law and the roles of the juvenile court, police agencies, correctional agencies, and theories concerning delinquency.

**CRIJ 2301 (CJCR 2324)****Community Resources in Corrections (3-0)****3 Hours**

Overview of diversionary practices and treatment programs available to offenders in a local context. Topics include selected recognized models and future trends in community treatment.

**CRIJ 2313 (CJCR 1307)****Correctional Systems and Practices (3-0)****3 Hours**

A study of the role of corrections in the criminal justice system. Topics include organization and theory of correctional systems, institutional operations, alternatives to institutionalization, treatments and rehabilitation, and current and future issues.



**CRIJ 2314 (CJSA 1342)**  
**Criminal Investigation (3-0)** **3 Hours**

Study of the investigative theory, the collection and preservation of evidence, sources of information, concepts of interviewing and interrogation, the use of forensic sciences, and trial preparation.

**CRIJ 2323 (CJSA 2300)**  
**Legal Aspects of Law Enforcement (3-0)** **3 Hours**

Exploration of police authority. Topics include responsibilities and constitutional restraints, law of arrest, search and seizure, and police liability.

**CRIJ 2328 (CJSA 1359)**  
**Police Systems and Practices (3-0)** **3 Hours**

Exploration of the profession of police officers. Topics include organization of law enforcement systems, police discretion, ethics, police-community interaction, and current and future issues.

**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 and balances, governmental structures and processes, and individual rights in relation to government.

## 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. Open only to non-native speakers. (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 15 Semester Credit Hours**

See Core Requirements, page 75

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 1302, 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**

Basic acoustical physics and acoustical waves in human tissue. 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**

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**

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**

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**

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**

Advanced sonographic procedures and special topics. Review of previously covered material is included. Vascular methodology, case studies, and film critique are 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**

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**

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**

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**

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**

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 75

Required Core Course(s) for this degree: DRAM 2361, 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 76

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 (3-0)****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. Course fee. (5006025130)



# ECONOMICS

|                     |                 |       |          |
|---------------------|-----------------|-------|----------|
| Dean:               | Nancy Hart      | 142 T | 685-4657 |
| Faculty:            | Omar Belazi     | 154 T | 685-4656 |
|                     | Chloice Shofner | 153 T | 685-4611 |
| Division Secretary: | Yvonne Hennig   | 142 T | 685-6447 |

## 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. The course of study below is suggested for students who wish to receive an associate degree at Midland College and transfer to a four-year college. Please note that courses that require prerequisites are denoted by an asterisk (\*).

## Associate of Science or Associate of Arts

### Core Requirements **42 Semester Credit Hours**

See Core Requirements, page 75

Required Core Course(s) for this degree: MATH 1314\*

### Suggested Courses for Field of Study **6 Semester Credit Hours**

PSYC 2308, EDUC 1301

### Related Courses **14 Semester Credit Hours**

For an Associate of Science add 14 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 3-5 semester credit hours of "field of study" electives.

### 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 76

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

"Field of study" electives will depend on the grade level of certification sought.

Suggested:

6 additional hours in Mathematics, Beginning or Intermediate Spanish, Physical Science, Principles of Geography, Children with Special Needs, Principles and Practices of Multi-cultural Education



Since teacher certification requires a “major” other than Education, please contact one of the following Deans for academic advising. An official degree check should be completed the semester before graduation.

**Social Studies:** Anthropology, Education, Government/Political Science, History, Kinesiology/Physical Education, Philosophy, Psychology, Sociology

*William Morris*                      141a AFA                      685-4640

**Language Arts and the Fine Arts:** Art, Drama, English, Journalism, Modern Languages, Music, Speech

*William G. Feeler*                      141b AFA                      685-4626

**Math and Sciences:** Biology, Chemistry, Geology/Earth Sciences, Mathematics, Physics

*Margaret Wade*                      125 SF                      685-4615

**Early Childhood Education:**

*Becky Hammack*                      209a DHS                      685-4600

**General Business:** Economics, Computer Information Systems

*Nancy Hart*                      142 T                      685-4657

**Industrial Arts:**

*Curt Pervier*                      143 T                      685-4677

**EDUC 1301**

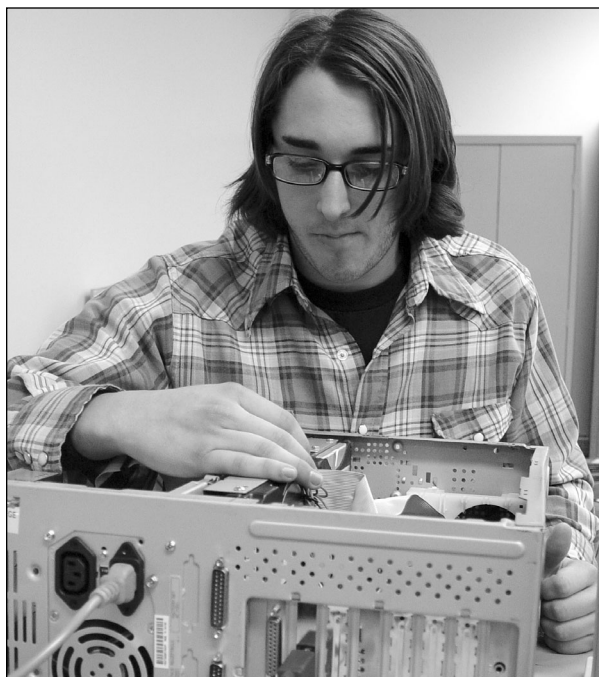
**Introduction to Education (3-0)**

**3 Hours**

This course is designed to provide students with an orientation to the profession of teaching. It explores and investigates the theories, foundations, social roles, structures, and current trends and issues in education. It discusses the characteristics of effective teachers and diversity among learners.

**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 six (6) semester hours and the Texas Department of Health exam for EMT-Paramedic after completion of EMT training and an additional 16 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 15 Semester Credit Hours

See Core Requirements, page 75

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 = 68**

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 (Summer)*

EMSP 1261, EMSP 1356, EMSP 1438

#### *Second Semester (Fall)*

EMSP 1262, EMSP 1455, EMSP 2434, EMSP 2544

#### *Third Semester (Winter Interim)*

EMSP 2248

#### *Fourth Semester (Spring)*

EMSP 2160, EMSP 2135, 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**

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**

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**

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 1455, 2434 and 2544.

#### **EMSP 1356**

##### **Patient Assessment and Airway Management (2-2-0)**

**3 Hours**

A detailed study of the knowledge and skills required to perform patient assessment and airway management. Corequisites: EMSP 1261 and 1438.

#### **EMSP 1438**

##### **Introduction to Advanced Practice (3-1-0)**

**4 Hours**

An exploration of the foundations necessary for mastery of the advanced topics of clinical practice out of the hospital. Corequisites: EMSP 1261 and 1356.

#### **EMSP 1455**

##### **Trauma Management (2-2-0)**

**4 Hours**

A detailed study of the knowledge and skills in the assessment and management of patients with traumatic injuries. Corequisites: EMSP 1262, 2434, and 2544.

- EMSP 1501**  
**Emergency Medical Technician - Basic (4-4-0)** **5 Hours**  
 Introduction to the level of Emergency Medical Technician (EMT) - Basic. 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**  
 Skill development for professional personnel practicing in critical care units, emergency departments, and paramedic ambulances. Establishes a system of protocols for management of the patient experiencing cardiac difficulties. Corequisites: EMSP 2160, 2243, 2261 and 2430.
- EMSP 2160**  
**Paramedic Clinical III (0-0-5)** **1 Hour**  
 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. Designed to provide for teaching and evaluating comprehensive, assessment-based patient care management. Corequisites: EMSP 2160, 2135, 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. Course is designed to compliment Cardiology, Special Populations, and Medical Emergency courses.
- EMSP 2261**  
**Paramedic Clinical IV (0-0-6)** **2 Hours**  
 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**  
 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, 2135, 2243, and 2261.
- EMSP 2434**  
**Medical Emergencies (3-2-0)** **4 Hours**  
 A detailed study of the knowledge and skills in the assessment and management of patients with medical emergencies. Corequisites: EMSP 1262, 1455, and 2544.
- EMSP 2544**  
**Cardiology (3-2-0)** **5 Hours**  
 A detailed study of the knowledge and skills in the assessment and management of patients with cardiac emergencies. Corequisites: EMSP 1262, 1455 and 2434.
- HPRS 1106**  
**Medical Terminology (1-0-0)** **1 Hour**  
 A study of common medical terminology, word origin, structure, and application.

## **ENGINEERING**

**(See Physics)**

# ENGLISH

|          |                      |          |          |
|----------|----------------------|----------|----------|
| Dean:    | William G. Feeler    | 141b AFA | 685-4626 |
| Faculty: | Russell Goodyear     | 118 SF   | 685-4605 |
|          | Pamela Howell        | 119 SF   | 685-4628 |
|          | Melissa Jackson      | 131 AFA  | 685-6458 |
|          | 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  |

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 75

Required Core Course(s) for this degree: one English Literature course (Humanities)

### **Suggested 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 76

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. Course fee. (3201085312) (0190)

### **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. Course fee. (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. Course fee. (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. Course fee. (3201085312) (0390)
- 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. Course fee. (3201085312) (0391)
- 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. 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. Course fee. (2304015112)
- ENGL 1302**  
**Composition and Literature (3-0)** **3 Hours**  
A course designed to enable students to further their composition skills by writing multi-paragraph essays, including a research paper; to write logically; and to read, research, analyze, and discuss the literary genres of poetry, short fiction, and drama. Prerequisite: ENGL 1301. Course fee. (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 fee. (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. Prerequisite: ENGL 1301. Course fee. (2305015112) (ENGL 2307)
- 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. Prerequisite: ENGL 1301. Course fee. (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; also, to enable students to analyze audience and report orally. Prerequisite: ENGL 1301. Course fee. (2311015112) (ENGL 2303)

- 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. Prerequisite: ENGL 1301. Course fee. (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. Prerequisite: ENGL 2314. Course fee. (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 fee. (2308015112)
- ENGL 2322**  
**Literature of England I (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 Old English Period through the Neo-classical Age. Students will develop their critical thinking, research, and writing skills. Prerequisite: ENGL 1302. Course fee. (2308015112) (ENGL 2305)
- ENGL 2323**  
**Literature of England II (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 late 18th century through the 20th century. Students will develop their critical thinking, research and writing. Prerequisite: ENGL 1302. Course fee. (2308015112) (ENGL 2306)
- 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. Prerequisite: ENGL 1302. Course fee. (2307015112) (ENGL 2312)
- ENGL 2327**  
**Survey of American Literature I (3-0)** **3 Hours**  
 A course designed to acquaint the student with the varied works of American literature from the Colonial Period through 1865 within the historical and multicultural influences that shaped those works. Students will discuss, research, and write about literature from the period. Prerequisite: ENGL 1302. Course fee. (2307015112) (ENGL 2309)
- ENGL 2328**  
**Survey of American Literature II (3-0)** **3 Hours**  
 A course designed to acquaint the student with the varied works of American literature from 1865 to the present within the historical and multicultural influences that shaped those works. Students will discuss, research, and write about literature from the period. Prerequisite: ENGL 1302. Course fee. (2307015112) (ENGL 2310)
- ENGL 2331**  
**Multicultural 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. Prerequisite: ENGL 1302. Course fee. (2303015212)

**ENGL 2332****Masterpieces of the Western World I (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. Prerequisite: ENGL 1302. Course fee. (2303015212) (ENGL 2301)

**ENGL 2333****Masterpieces of the Western World II (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. Prerequisite: ENGL 1302. Course fee. (2303015212) (ENGL 2302)

**ENGL 2342****Forms of Literature I (3-0)****3 Hours**

The study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film. Prerequisite: ENGL 1302. Course fee. (2303015112)

**ENGL 2343****Forms of Literature II (3-0)****3 Hours**

The study of one or more literary genres including, but not limited to, poetry, fiction, drama, and film. Prerequisite: ENGL 1302. Course fee. (2303015112)





# FIRE PROTECTION TECHNOLOGY

|                     |                       |       |          |
|---------------------|-----------------------|-------|----------|
| Dean:               | Curt Pervier          | 143 T | 685-4677 |
| Director:           | Marion "Ollie" Oliver | 156 T | 685-4663 |
| Division Secretary: |                       | 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 75

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

### **Specialty Courses** **33 Semester Credit Hours**

FIRS 1329, FIRS 1391, FIRS 1401, FIRS 1407, FIRS 1413, FIRS 1419, FIRS 1423, FIRS 1433, and FIRT 1353

### **Related Courses** **20 Semester Credit Hours**

HRPO 1311, 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 75

### **Specialty Courses** **33 Semester Credit Hours**

FIRT 1309, FIRT 1335, FIRT 1331, FIRT 1353, 2 FIRT electives, FIRT 1349, FIRT 2331, FIRT 1392, FIRT 2351, FIRT 2380

### **Related Courses** **17 Semester Credit Hours**

ENGL 1312, 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, FIRT 1353

**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 1391**

**Special Topics in Fire Science/Firefighting (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.

#### **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****Firefighter Certification III (2-4)****4 Hours**

General principles of fire apparatus, pump operations, fire streams, and public operations as they relate to fundamental development of basic firefighter skills. Lab required. Prerequisite: College entrance level math skills, FIRS 1407. **\*\*\*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 1329****Firefighter Certification VI (2-2)****3 Hours**

The study of fire inspection techniques and practices, public transportation, fire cause determination. Topics include fire protection systems, wildland fire, and pre-incident planning, preparation for certification as a basic firefighter. Lab required. Prerequisite: FIRS 1423. **\*\*\*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.

**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.

**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.

- 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.
- 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.
- 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.
- 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.

**FIRT 1391****Special Topics in Fire Protection and Safety  
Technology/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.

**FIRT 1392****Special Topics in Fire Services Administration (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.

**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 75

Required Core Course(s) for this degree: CHEM 1411 AND CHEM 1412, MATH 1314, PHYS 1401, PHYS 1402

### **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\*, 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 76

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.

**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.

**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.

**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.

**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.

**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 75

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 76  
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:   | Betty Dodson  | A33 AMS  | 685-5573 |
| Division Secretary: | Kay Floyd     | 209b DFH | 685-4600 |

This program is designed to prepare students to work with medical records 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. 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 Council on Accreditation of 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

See Core Requirements, page 75

Required Core Course(s) for this degree: BIOL 2401, BIOL 2402, ENGL 1301, PSYC 2301

### A Minimum of 15 Semester Credit Hours

### Specialty Courses

**38 Semester Credit Hours**  
\*HITT 1166, HITT 1249, 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

ITSC 1409, POFM 1302, SPCH 1318, ENGL 1302

### 13 Semester Credit Hours

**MINIMUM SEMESTER CREDIT HOURS = 68**

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 1249, 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 = 41**

## Medical Transcription Certificate

**Specialty Courses** **18 Semester Credit Hours**  
HITT 1249, 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 = 32**

## 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 1249, HITT 1305

*First Year, Fall Semester*

HITT 1401

*First Year, Spring Semester*

HITT 1166, HITT 1225, 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**

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 1255, HITT 1345 and HPRS 2301.

### **HITT 1167**

#### **Field Experience - Coding (0-0-7)**

**1 Hour**

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 1249**

#### **Pharmacology (2-0-0)**

**2 Hours**

An overview of the basic concepts of the pharmacological treatment of various diseases affecting major body systems. Corequisite: BIOL 2401.

### **HITT 1253**

#### **Legal and Ethical Aspects of Health Information (2-0-0)**

**2 Hours**

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**  
General principles of health care statistics with emphasis in hospital statistics. Skill development in computation and calculation of health data. Prerequisite: HITT 1401.
- HITT 1305**  
**Medical Terminology (3-0-0)** **3 Hours**  
Study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures.
- HITT 1345**  
**Health Care Delivery Systems (3-0-0)** **3 Hours**  
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**  
Introduction to systems and processes for collecting, maintaining, and disseminating primary and secondary health related information. 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**  
The application of basic coding rules, principles, guidelines, conventions and the assigning of appropriate 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**  
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**  
Principles of organization and supervision of human, fiscal, and capital resources. Prerequisite: BMGT 1301.
- HITT 2343**  
**Quality Assessment and Performance Improvement (2-3-0)** **3 Hours**  
Study of the many facets of quality standards and methodologies in the health information management environment. Topics 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**  
Development of advanced 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**  
Study of the pathology and general health management of disease and injuries across the life span. Topics include etiology, symptoms, 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**

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**

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. Utilizes transcribing and information processing equipment compatible with industry standards. 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**

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.

| <b>Program</b>                       | <b>English<br/>1301</b> | <b>Visual and<br/>Performing Arts/<br/>Humanities<br/>Elective</b> | <b>Biology<br/>2421</b> | <b>Speech<br/>1318</b> |
|--------------------------------------|-------------------------|--|-------------------------|------------------------|
| <i>Health Careers Field of Study</i> | X                       | X  | X                       |                        |
| <i>Associate Degree Nursing</i>      | X                       | X  | X                       |                        |
| <i>Diagnostic Medical Sonography</i> | X                       |  |                         | X                      |
| <i>Emergency Medical Services</i>    | X                       | X  |                         | X                      |
| <i>Health Information Technology</i> | X                       |  |                         | X                      |
| <i>Radiography</i>                   | X                       | X  |                         | X                      |
| <i>Respiratory Care</i>              | X                       | X  | X                       | X                      |
| <i>Veterinary Technology</i>         | 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 75

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

A study of word origin and structure through the introduction of prefixes, suffixes, root words, plurals, abbreviations and symbols, surgical procedures, medical specialties, and diagnostic procedures. The course is taught in a self-paced format.

### HPRS 1201

#### Introduction to Health Professions (2-0-0) 2 Hours

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 |
|                     | Monica Sosa    | 141 AFA  | 685-4640 |
| Division Secretary: |                |          |          |

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 75

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 76

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 socio-cultural 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:               | Nancy Hart       | 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 |          |
|                     | Gavin Frantz     | 105 T          | 685-5517 |          |
|                     | 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: | Yvonne Hennig    | 142 T          | 685-6447 |          |

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.

## BUSINESS COMPUTER APPLICATIONS (See Business Administration section)

**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. Special emphasis is placed on the introduction of new methodology and technical advances, which enables the student to understand and apply this knowledge to current industry practices.

### Information Technology/Computer Maintenance and Electronics Associate of Applied Science

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

See Core Requirements, page 75  
Required Core Course(s) for this degree: MATH 1314

**Specialty Courses** **47 Semester Credit Hours**

ITSC 1409, CPMT 1303, ITCC 1402, CETT 1409, ITSC 1407, CETT 1425,  
ELMT 2339, ITNW 1454, ITSY 2400,\*CPMT 2445, three 3 hr specialty electives.

**Related Courses** **6 Semester Credit Hours**

ENGL 1301 or POFT 1302, SPCH 1318 or BMGT 1305

**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 1318 or BMGT 1305.  
Basic Use of Computers: Specialty courses.



**Suggested Class Sequence:**

**Information Technology-Computer Maintenance & Electronics**

**First Year**

**First Semester**

| <b>Prefix Number</b> | <b>Course Name</b>                       | <b>Credit Hrs</b> |
|----------------------|--|-------------------|
| 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 1409            | DC-AC Circuits                           | 4                 |
|                      | <b>First Semester Total</b>              | <b>18</b>         |

**Second Semester**

|              |                                    |           |
|--------------|------------------------------------|-----------|
| ITSC 1407    | UNIX Operating System I            | 4         |
| CETT 1425    | Digital Fundamentals               | 4         |
|              | Specialty Elective                 | 3         |
| SPCH 1318    | Interpersonal Communications       |           |
| or BMGT 1305 | Communications in Management (ORC) | 3         |
|              | Core Course Elective               | 3         |
|              | <b>Second Semester Total</b>       | <b>17</b> |

**Second Year**

**Third Semester**

|           |                                      |           |
|-----------|--------------------------------------|-----------|
| MATH 1314 | College Algebra (MNS)                | 3         |
| ELMT 2339 | Advanced Programmable Logic Controls | 3         |
| ITNW 1454 | Implementing and Supporting Servers  | 4         |
|           | Specialty elective                   | 3         |
|           | Core Course Elective                 | 3         |
|           | <b>Third Semester Total</b>          | <b>16</b> |

**Fourth Semester**

|           |                                  |           |
|-----------|----------------------------------|-----------|
| ITSY 2400 | Operating System                 | 4         |
| CPMT 2445 | Computer Systems Troubleshooting | 4         |
|           | Specialty Elective               | 3         |
|           | Two Core Courses electives       | 6         |
|           | <b>Fourth Semester Total</b>     | <b>17</b> |

**Program Total 68**

**Basic Computer Maintenance/Electronics Certificate**

**Specialty Courses . . . . . 18 Semester Credit Hours**

ITSC 1409, CPMT 1303, ITCC 1402 CETT 1409, one three- or four-hour specialty course elective.

**MINIMUM SEMESTER CREDIT HOURS = 18**

**Suggested Class Sequence:**

**Information Technology-Basic Computer Maintenance/Electronics Certificate**

**First Year**

**First Semester**

| <b>Prefix Number</b> | <b>Course Name</b>                          | <b>Credit Hrs</b> |
|----------------------|---|-------------------|
| ITSC 1409            | Integrated Software Applications I          | 4                 |
| CPMT 1303            | Introduction to Computer Technology         | 3                 |
| ITCC 1402            | Local Area Networks Design & Protocols:     | 4                 |
| CETT 1409            | DC-AC Circuits                              | 4                 |
|                      | Specialty Elective                          | 3                 |
|                      | <b>First Semester Total / Program Total</b> | <b>18</b>         |

**Advanced Computer Maintenance/Electronics Certificate**

**Specialty Courses . . . . .38 Semester Credit Hours**

ITSC 1409, CPMT 1303, ITCC 1402 CETT 1409, \*CPMT 2445, CETT 1425, ITNW 1454, ITSC 1407, ITSY 2400, one 3 hr specialty elective.

**MINIMUM SEMESTER CREDIT HOURS = 38**

**Suggested Class Sequence:**

**Information Technology-Advanced Computer Maintenance/Electronics Certificate**

**First Year**

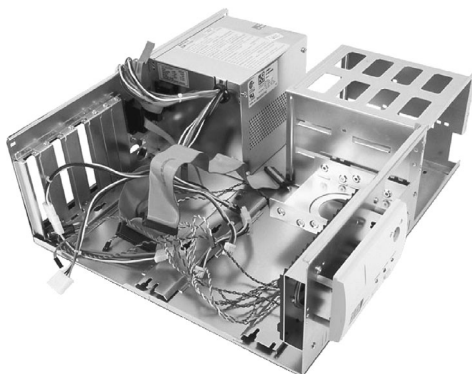
**First Semester**

| <b>Prefix Number</b> | <b>Course Name</b>                     | <b>Credit Hrs</b> |
|----------------------|--|-------------------|
| ITSC 1409            | Integrated Software Applications I     | 4                 |
| CPMT 1303            | Introduction to Computer Technology    | 3                 |
| ITCC 1402            | Local Area Networks Design & Protocols | 4                 |
| CETT 1409            | DC-AC Circuits                         | 4                 |
| ITSC 1407            | UNIX Operating System I                | 4                 |
|                      | <b>First Semester Total</b>            | <b>19</b>         |

**Second Semester**

|           |                                     |          |
|-----------|-------------------------------------|----------|
| CPMT 2445 | Computer Systems Troubleshooting    | 4        |
| CETT 1425 | Digital Fundamentals                | 4        |
| ITNW 1454 | Implementing and Supporting Servers | 4        |
| ITSY 2400 | Operating System Security           | 4        |
|           | Specialty Elective                  | 3        |
|           | <b>Second Semester Total</b>        | <b>9</b> |

**Program Total 38**



**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. In addition, special courses in e-commerce are offered in conjunction with the business administration department.

**Information Technology/Data Management  
Associate of Applied Science**

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

See Core Requirements, page 75

Required Core Course(s) for this degree: MATH 1314, MATH 1324

**Specialty Courses** . . . . . **42 Semester Credit Hours**

ITSC 1409, ITSE 1191, \*ITSE 1431, \*COSC 1420, CPMT 1303, \*ITSE 1445, ITSE 2409, ITSC 1407, \*ITSE 2446, \*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.

**Suggested Class Sequence:**

**Information Technology-Data Management AAS**

**First Year**

**First Semester**

| <b>Prefix Number</b>      | <b>Course Name</b>   | <b>Credit Hrs</b> |
|---------------------------|--|-------------------|
| ITSC 1409                 | Integrated Software Applications I   | 4                 |
| BUSI 1301                 | Business Principles  | 3                 |
| ITSE 1191                 | Special Topics: Intro Programming Logic<br>(This class can be waived by IT dept) | 1                 |
| ITSE 1431<br>or COSC 1420 | Intro to Visual Basic Programming<br>Fundamentals of Computer Programming        | 4                 |
| CPMT 1303                 | Introduction to Computer Technology  | 3                 |
| ITSE 1445<br>or ITSE 2409 | Intro Oracle<br>Introduction to Database Programming                             | 4                 |
|                           | <b>First Semester Total</b>  | <b>19</b>         |

**Second Semester**

|                           |  |           |
|---------------------------|--|-----------|
| ENGL 1301<br>or POFT 1302 | Composition & Rhetoric<br>Business Communications I              | 3         |
|                           | Core Course Elective   | 3         |
| MATH 1314                 | College Algebra (MNS)  | 3         |
| ITSC 1407                 | UNIX Operating System I  | 4         |
| ITSE 2446<br>or ITSE 2447 | Oracle Applications Development<br>Advanced Database Programming | 4         |
|                           | <b>Second Semester Total</b>                                     | <b>17</b> |

**Second Year****Third Semester**

|              |                                      |           |
|--------------|--------------------------------------|-----------|
| BMGT 1305    | Communications in Management         |           |
| or SPCH 1318 | Interpersonal Communication (ORC)    | 3         |
| COSC 1420    | Fundamentals of Computer Programming |           |
| or ITSE 1431 | Intro to Visual Basic Programming    | 4         |
| MATH 1324    | Business Math I (MNS)                | 3         |
| ITSE 1445    | Intro Oracle                         |           |
| or ITSE 2409 | Introduction to Database Programming | 4         |
|              | Core Course Elective                 | 3         |
|              | <b>Third Semester Total</b>          | <b>17</b> |

**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 2446    | Oracle Applications Development |           |
| or ITSE 2447 | Advanced Database Programming   | 4         |
|              | Core Course Elective            | 3         |
|              | <b>Fourth Semester Total</b>    | <b>17</b> |

**Program Total 70****Data Management Certificate****Specialty Courses . . . . . 33 Semester Credit Hours**

ITSC 1409, ITSE 1191, \*ITSE 1431 or \*COSC 1420, CPMT 1303, ITSE 1445 or ITSE 2409, ITSC 1407, \*BCIS 2390, ITSE 2446 or \*ITSE 2447, ITSE 2313, one three or four-hour specialty elective.

**MINIMUM SEMESTER CREDIT HOURS = 33****Suggested Class Sequence:****Information Technology-Data Management Certificate****First Year****First Semester**

| <b>Prefix Number</b> | <b>Course Name</b>  | <b>Credit Hrs</b> |
|----------------------|---|-------------------|
| ITSC 1409            | Integrated Software Applications I  | 4                 |
| ITSE 1191            | Spec Topics: Intro Programming Logic<br>(This class can be waived by IT dept) | 1                 |
| ITSE 1431            | Intro to Visual Basic Programming   |                   |
| or COSC 1420         | Fundamentals of Computer Programming  | 4                 |
| CPMT 1303            | Introduction to Computer Technology   | 3                 |
| ITSE 1445            | Intro Oracle  |                   |
| or ITSE 2409         | Introduction to Database Programming  | 4                 |
|                      | <b>First Semester Total</b>   | <b>16</b>         |

**Second Semester**

|              |                                 |           |
|--------------|---------------------------------|-----------|
| ITSC 1407    | UNIX Operating System I         | 4         |
| BCIS 2390    | Systems Analysis                | 3         |
| ITSE 2446    | Oracle Applications Development |           |
| or ITSE 2447 | Advanced Database Programming   | 4         |
| ITSE 2313    | Web Authoring                   | 3         |
|              | Specialty Elective              | 3         |
|              | <b>Second Semester Total</b>    | <b>17</b> |

**Program Total 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

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

See Core Requirements, page 75  
Required Core Course(s) for this degree: MATH 1314

**Specialty Courses** . . . . . **38 Semester Credit Hours**

ITSC 1409, ITCC 1402, CPMT 1303, \*ITCC 1406, ITNW 1454, \*ITCC 1442,  
ITSC 1407, ITSY 2400, \*ITCC 1446, one 3 hr \*specialty elective,

**Related Courses** . . . . . **14 Semester Credit Hours**

CETT 1409, CETT 1425, 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.

**Suggested Class Sequence:**

#### Information Technology-Networking AAS

**First Year**

**First Semester**

| Prefix Number             | Course Name   | Credit Hrs |
|---------------------------|---|------------|
| ITSC 1409                 | Integrated Software Applications I                  | 4          |
| ENGL 1301<br>or POFT 1302 | Composition & Rhetoric<br>Business Communications I | 3          |
| ITCC 1402                 | Local Area Networks Design & Protocols              | 4          |
| CPMT 1303                 | Introduction to Computer Technology                 | 3          |
|                           | Core Course Elective                                | 3          |
|                           | <b>First Semester Total</b>                         | <b>17</b>  |

**Second Semester**

|                           |  |           |
|---------------------------|--|-----------|
| ITCC 1406                 | Basic Router Configuration: CISCO 2                                | 4         |
| CETT 1409                 | DC-AC Circuits   | 4         |
| SPCH 1318<br>or BMGT 1305 | Interpersonal Communications<br>Communications in Management (ORC) | 3         |
| ITNW 1454                 | Implementing and Supporting Servers                                | 4         |
|                           | Core Course Elective   | 3         |
|                           | <b>Second Semester Total</b>                                       | <b>18</b> |

**Second Year**

**Third Semester**

|           |                                      |           |
|-----------|--------------------------------------|-----------|
| ITCC 1442 | Local Area Management (LAN): CISCO 3 | 4         |
| CETT 1425 | Digital Fundamentals                 | 4         |
| MATH 1314 | College Algebra (MNS)                | 3         |
| ITSC 1407 | UNIX Operating System I              | 4         |
|           | Core Course Elective                 | 3         |
|           | <b>Third Semester Total</b>          | <b>18</b> |

|                        |                                     |           |
|------------------------|-------------------------------------|-----------|
| <b>Fourth Semester</b> |                                     |           |
| ITSE 2417              | Operating System                    | 4         |
| ITCC 1446              | Wide Area Management (WAN): CISCO 4 | 4         |
|                        | Specialty Elective                  | 3         |
|                        | Core Course Elective                | 3         |
|                        | <b>Fourth Semester Total</b>        | <b>14</b> |

**Program Total 67**

### Networking Certificate

**Specialty Courses . . . . . 34 Semester Credit Hours**

ITSC 1409, CPMT 1303, one 3 hr specialty elective, ITCC 1402, ITSC 1407, ITSY 2400, ITNW 2405, ITNW 1454, \*ITCC 1406.

**MINIMUM SEMESTER CREDIT HOURS = 34**

**Suggested Class Sequence:**

### Information Technology-Networking Certificate

**First Year**

**First Semester**

| <b>Prefix Number</b> | <b>Course Name</b>                    | <b>Credit Hrs</b> |
|----------------------|---------------------------------------|-------------------|
| ITSC 1409            | Integrated Software Applications I    | 4                 |
| CPMT 1303            | Introduction to Computer Technology   | 3                 |
|                      | Specialty Elective                    | 3                 |
| ITCC 1402            | Local Area Networks Design & Protocol | 4                 |
| ITSC 1407            | UNIX Operating System I               | 4                 |
|                      | <b>First Semester Total</b>           | <b>18</b>         |

**Second Semester**

|           |   |           |
|-----------|---|-----------|
| ITSY 2400 | Operating System Security                 | 4         |
| ITNW 2405 | Network Administration for Novell Netware | 4         |
| ITNW 1454 | Implementing and Supporting Servers       | 4         |
| ITCC 1406 | Basic Router Configuration: CISCO 2       | 4         |
|           | <b>Second Semester Total</b>              | <b>16</b> |

**Program Total 34**



**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**

**Core Requirements** **A Minimum of 15 Semester Credit Hours**  
 See Core Requirements, page 75  
 Required Core Course(s) for this degree: MATH 1314

**Specialty Courses** . . . . . **52 Semester Credit Hours**  
 ITSE 1191, \*ITSE 1431, \*COSC 1420, CPMT 1303, ITSE 2409, ITSE 1445, ITSC 1409,  
 \*ITSE 2449, \*COSC 2420, ITSC 1407, ITSE 2313, \* BCIS 2390, ITNW 1454, two 3 hr  
 specialty electives

**Related Courses** . . . . . **3 Semester Credit Hours**  
 SPCH 1318

**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: SPCH 1318  
 Basic Use of Computers: Specialty courses

**Suggested Class Sequence:**

**Information Technology-Programming AAS**

| <b>First Year</b>         |   | <b>Credit Hrs</b> |
|---------------------------|---|-------------------|
| <b>Prefix Number</b>      | <b>Course Name</b>  |                   |
| <b>First Semester</b>     |   |                   |
| ITSE 1191                 | Special Topics Intro Programming Logic<br>(This class can be waived by IT dept) | 1                 |
| ITSE 1431<br>or COSC 1420 | Intro to Visual Basic Programming<br>Fundamentals of Computer Programming       | 4                 |
| CPMT 1303                 | Introduction to Computer Technology   | 3                 |
| ITSE 2409<br>or ITSE 1445 | Introduction to Database Programming<br>Intro Oracle                            | 4                 |
| ENGL 1301                 | Composition & Rhetoric  | 3                 |
|                           | Core Course Elective  | 3                 |
|                           | <b>First Semester Total</b>   | <b>18</b>         |
| <b>Second Semester</b>    |   |                   |
| ITSC 1409                 | Integrated Software Applications I  | 4                 |
| ITSE 2449<br>or COSC 2420 | Advanced Visual Basic Programming<br>C Programming II                           | 4                 |
| SPCH 1318                 | Interpersonal Communication (ORC)   | 3                 |
| MATH 1314                 | College Algebra (MNS)   | 3                 |
|                           | Specialty Elective  | 3                 |
|                           | <b>Second Semester Total</b>  | <b>17</b>         |
| <b>Second Year</b>        |   |                   |
| <b>Third Semester</b>     |   |                   |
| COSC 1420<br>or ITSE 1431 | Fundamentals of Computer Programming<br>Intro to Visual Basic Programming       | 4                 |
| ITSE 1445<br>or ITSE 2409 | Intro Oracle<br>Introduction to Database Programming                            | 4                 |
| ITSC 1407                 | UNIX Operating System I   | 4                 |
| ITSE 2313                 | Web Authoring   | 3                 |
|                           | Core Course Elective  | 3                 |
|                           | <b>Third Semester Total</b>   | <b>18</b>         |

**Fourth Semester**

|              |                                     |           |
|--------------|-------------------------------------|-----------|
| COSC 2420    | C Programming II                    | 4         |
| or ITSE 2449 | Advanced Visual Basic Programming   | 3         |
| BCIS 2390    | System Analysis and Design          | 4         |
| ITNW 1454    | Implementing and Supporting Servers | 3         |
| ENGL 2311    | Technical Writing                   | 3         |
|              | Specialty Elective                  | 3         |
|              | <b>Fourth Semester Total</b>        | <b>17</b> |

**Program Total 70**

**Programming Certificate**

**Specialty Courses . . . . . 30 Semester Credit Hours**  
 ITSC 1409, ITSE 1191, CPMT 1303, \*ITSE 1431, \*COSC 1420, \*COSC 2420, \*ITSE 2449, ITSE 2313, ITSC 1407 or ITNW 1454, one 3 hr specialty elective.

**MINIMUM SEMESTER CREDIT HOURS = 30**

**Suggested Class Sequence:**

**Information Technology Programming Certificate**

**First Year**

| <b>Prefix Number</b>  | <b>Course Name</b>  | <b>Credit Hrs</b> |
|-----------------------|---|-------------------|
| <b>First Semester</b> |   |                   |
| ITSC 1409             | Integrated Software Applications I  | 4                 |
| ITSE 1191             | Special Topics Intro Programming Logic<br>(This class can be waived by IT dept) | 1                 |
| CPMT 1303             | Introduction to Computer Technology   | 3                 |
| ITSE 1431             | Intro to Visual Basic Programming   | 4                 |
| COSC 1420             | Fundamentals of Computer Programming  | 4                 |
|                       | <b>First Semester Total</b>   | <b>16</b>         |

**Second Semester**

|              |                                     |           |
|--------------|-------------------------------------|-----------|
| COSC 2420    | C Programming II                    | 4         |
| ITSE 2449    | Advanced Visual Basic Programming   | 4         |
| ITSE 2313    | Web Authoring                       | 3         |
| ITSC 1407    | UNIX Operating System I             | 4         |
| or ITNW 1454 | Implementing and Supporting Servers | 4         |
|              | Specialty Elective                  | 3         |
|              | <b>Second Semester Total</b>        | <b>17</b> |

**Program Total 33**





**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 1409****DC-AC Circuits (3-3)****4 Hours**

Fundamentals of DC circuits and AC circuits operation including Ohm's law, Kirchoff's laws, networks, transformers, resonance, phasors, capacitive and inductive and circuit analysis techniques. The student will analyze DC and AC circuits from simple to complex; construct and make measurements for DC and AC circuits from simple to complex; utilize a multimeter and oscilloscope and describe the difference between two AC signals that are 120 degrees out of phase; and describe an AC signal with respect to voltage, current, and power as seen across a parallel resistive circuit.

**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 on circuit logic analysis and troubleshooting digital circuits.

**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. Prerequisite: CETT 1409

**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 students 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. Prerequisite: 12 semester credit hours.

**CPMT 1445 (replaced by CPMT 1303)****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 concepts in programmable logic controllers including advanced processors, programming and interfacing techniques, and specialized applications. The student will describe, demonstrate, and apply intermediate and advanced processors, programming and interfacing techniques, and specialized applications. 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****Local Area Networks Design and Protocols: Cisco 1 (3-3)****4 Hours**

Skill development in the design and installation of local area networks to ensure optimal throughput. Topics include cabling, cable closets, management devices, selection, and installation of network devices, protocols, and subnetting. 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 network (LAN) and configure network devices and nodes; define the five steps of data encapsulation, and identify the functions of the TCP/IP network-layer protocol.

**ITCC 1406****Basic Router Configuration: Cisco 2 (3-3)****4 Hours**

An introduction to Cisco basic router configuration for local area networks. Topics include initial router configuration for TCP/IP, management of the configuration, backup of router configuration files, routing protocols, and the use of security features. The student will configure 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****Local Area Management (LAN): Cisco 3 (3-3)****4 Hours**

Skill development in managing traffic in local area networks (LAN) and in the management of network devices for LANs. This course includes configuring of routers for IPX protocol, filtering traffic in an IPX environment, and identifying and resolving network congestion problems. 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****Wide Area Management (WAN) : Cisco 4 (3-3)****4 Hours**

An introduction to wide area networking (WAN) services and management. 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.

**ITMC 1441 (replaced by ITNW 1448)****ITMC 2430 (replaced by ITNW 1454)****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 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: 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 1454****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 for Novell NetWare (3-3)****4 Hours**

Preparation to effectively manage a Novell NetWare network. 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 (1-0)****1 Hour**

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**

Advanced study of the UNIX operating system. Includes advanced concepts of system management and communication, the installation and maintenance of software, network security, and data integrity issues. The student will perform a successful UNIX system installation; analyze the performance of a UNIX operating system; demonstrate an understanding 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 1380, 2380****Cooperative Education-****Data Processing 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 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. 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: 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 and PL/SQL (3-3)****4 Hours**

An introduction to the design and creation of relational databases. Topics include storing, retrieving, updating, and displaying data using Structured Query Language (SQL) and Procedure Language (PL). The student will write Structured Query Language (SQL) statements 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****Introduction to 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 2446****Oracle Applications Development - Forms I (3-3)****4 Hours**

Skill development in the use of Forms in a Developer/2000 environment. Topics include the use of Object Navigator and Virtual Graphics System (VGS), Layout Editor and Menu options. The student will describe the main components in a Form application; retrieve, display, modify, and store data using the forms operator interface; create a basic Form; create and modify triggers using PL/SQL; create usable objects and codes in PL/SQL; create and modify basic tabular reports. 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 Hour**

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 |
|                     | Shanon Hays     | 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 75

Required Core Course(s) for this degree: BIOL 1406, BIOL 1407 or BIOL 2401, BIOL 2402, MATH 1314\*, 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 76

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.

"Physical Fitness" as a part of the overall Kinesiology offering is designed to develop in the student a holistic approach to living. Specifically these courses cover the components of cardiorespiratory conditioning, muscular strength, endurance training, flexibility development, nutrition and weight control, and other related topics. (3601085128)

**KINE 1100, 2100**  
**Physical Fitness:**  
**Coed (0-3)**  
(3601085128)

**KINE 1101, 2101**  
**Physical Fitness:**  
**Women (0-3)**  
(3601085128)

**KINE 1102, 2102** **1 Hour**  
**Physical Fitness:**  
**Men (0-3)**  
(3601085128)

**ACTIVITY COURSES (continued)**

|   |   |   |               |
|---|---|---|---------------|
| <b>KINE 1103, 2103</b><br><b>Physical Fitness:</b><br><b>Circuit Weight Training (0-3)</b><br>(3601085128)  | <b>KINE 1104, 2104</b><br><b>Physical Fitness:</b><br><b>Walk/Jog (0-3)</b><br>(3601085128) | <b>KINE 1105, 2105</b><br><b>Physical Fitness:</b><br><b>Individualized (0-3)</b><br>(3601085128) | <b>1 Hour</b> |
| <b>KINE 1108, 2108</b><br><b>Step Aerobics (0-3)</b><br>(3601085128)  | <b>KINE 1109, 2109</b><br><b>Kick-boxing Aerobics (0-3)</b><br>(3601085128)                 | <b>KINE 1110, 2110</b><br><b>Water Aerobics (0-3)</b><br>(3601085128)                             | <b>1 Hour</b> |
| <b>KINE 1113, 2113</b><br><b>Yoga (0-3)</b><br>(360185128)  | <b>KINE 1115, 2115</b><br><b>Swimming (0-3)</b><br>(360105128)                              | <b>KINE 1117, 2117</b><br><b>Aikido (0-3)</b><br>(360105128)                                      | <b>1 Hour</b> |
| <b>KINE 1118, 2118</b><br><b>Tae Kwon Do (0-3)</b><br>(360105128)   | <b>KINE 1119, 2119</b><br><b>Judo (0-3)</b><br>(3601085128)                                 | <b>KINE 1120, 2120</b><br><b>Self Defense (0-3)</b><br>(3601085128)                               | <b>1 Hour</b> |
| <b>KINE 1123, 2123</b><br><b>Gymnastics (0-3)</b><br>(3601085128)   | <b>KINE 1125, 2125</b><br><b>Basketball (0-3)</b><br>(3601085128)                           | <b>KINE 1126, 2126</b><br><b>Bowling (0-3)</b><br>(3601085128)                                    | <b>1 Hour</b> |
| <b>KINE 1127, 2127</b><br><b>Golf (0-3)</b><br>(3601085128)   | <b>KINE 1128, 2128</b><br><b>Racquetball (0-3)</b><br>(3601085128)                          | <b>KINE 1129, 2129</b><br><b>Soccer (0-3)</b><br>(3601085128)                                     | <b>1 Hour</b> |
| <b>KINE 1130, 2130</b><br><b>Tennis (0-3)</b><br>(3601085128)   | <b>KINE 1131, 2131</b><br><b>Volleyball (0-3)</b><br>(3601085128)                           |   | <b>1 Hour</b> |
| <b>KINE 1151</b><br><b>Scuba (1-2)</b>  |   |   | <b>1 Hour</b> |
| 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. (3601085328)                         |   |   |               |
| <b>KINE 1171, 2171</b><br><b>Athletic Training Practicum (0-3)</b>  |   |   | <b>1 Hour</b> |
| 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. (3105015128) |   |   |               |
| <b>KINE 1172, 2172</b><br><b>Men's</b><br><b>Basketball (0-3)</b><br>(3601085128)   | <b>KINE 1173, 2173</b><br><b>Women's )</b><br><b>Basketball (0-3)</b><br>(3601085128)       | <b>KINE 1174, 2174</b><br><b>Varsity</b><br><b>Softball (0-3)</b><br>(3601085128)                 | <b>1 Hour</b> |
| <b>KINE 1175, 2175</b><br><b>Varsity Baseball (0-3)</b><br>(3601085128)   | <b>KINE 1176, 2176</b><br><b>Varsity Golf (0-3)</b><br>(3601085128)                         | <b>KINE 1177, 2177</b><br><b>Varsity Volleyball (0-3)</b><br>(3601085128)                         | <b>1 Hour</b> |
| <b>KINE 1178, 2178</b><br><b>Drill Dance &amp;</b><br><b>Cheerleading (0-3)</b><br>(3601085128)   |   |   | <b>1 Hour</b> |



## 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. (3105015228)

### **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. (5103015116)

### **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. (1202045109)

### **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. (1202045109)

### **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. (310506128)

**The following courses, KINE 1136 - 1141, are introductions to the theories and techniques of coaching specific sports.**

### **KINE 1136**

**Coaching  
Baseball (1-0)**  
(310506128)

### **KINE 1137**

**Coaching  
Basketball (1-0)**  
(310506128)

### **KINE 1138**

**Coaching  
Football (1-0)**  
(310506128)

**1 Hour**

### **KINE 1139**

**Coaching  
Soccer (1-0)**  
(310206128)

### **KINE 1140**

**Coaching  
Softball (1-0)**  
(310206128)

### **KINE 1141**

**Coaching  
Volleyball (1-0)**  
(310506128)

**1 Hour**

### **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. (3101015128)

**This course covers programs for teaching and performing Kinesiology activities for:**

### **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. (51030105316)

# LEGAL ASSISTANT

|                     |               |        |          |
|---------------------|---------------|--------|----------|
| Dean:               | Nancy Hart    | 142 T  | 685-4657 |
| Faculty:            | Andree Rosen  | 115a T | 686-4572 |
| Division Secretary: | Yvonne Hennig | 142 T  | 685-6447 |

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 75

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, LGLA 2305, 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.

### **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: | Beverly Prichard | 228 DFH  | 685-6440 |
| Faculty:          | Ed Penz          | 210 DFH  | 685-6408 |
| HSCE Specialist:  | Julie Costilla   | 228a DFH | 685-6486 |

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](http://www.midland.edu)) using the Blackboard program. For details regarding the internship through Midland College call 685-6440.

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

**Related Courses** **10 Semester Credit Hours**  
BUSI 1301, ACCT 2401 or ACNT 1403, BMGT 1301

**MINIMUM SEMESTER CREDIT HOURS = 41**

### LTCA 1311

#### **Introduction to Long Term Care Administration (3-0-0)**

**3 Hours**

An overview of the long-term health care industry. Includes a survey of the history and philosophy of nursing facility administration. Provides an introduction to and application of regulatory standards. Specializations within the long term health care industry are discussed.

### LTCA 1312

#### **Resident Care in the Long Term Care Facility (3-0-0)**

**3 Hours**

A study of the delivery of quality services to residents of long-term health care facilities. An overview of the methods for assessing and implementing strategies to promote quality resident care. A presentation of philosophical and ethical considerations.

### 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**

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**

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**

An examination of the types and sources of law relating to the long-term care industry. A study of federal, state and local statutes and regulations affecting the long-term care industry.

**LTCA 2315****Financial Management of a Long Term Care Facility (3-0-0)****3 Hours**

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, and inventory controls. Topics include the special accounting requirements of Medicare, Medicaid, and other third-party payment systems.

**LTCA 2688****Internship III (0-0-24)****6 Hours**

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**

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.



# 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          | 138D T      | 685-4680 |
|          | Division Secretary: | Norma Duran | 124 SF   |

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 75

Required Core Course(s) for this degree: MATH 1314

### Suggested Courses for Field of Study 15 Semester Credit Hours

MATH 1316\*, 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 76

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 for MATH 0391. 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 0290 or 200 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 0290 or 200 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 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 or a satisfactory score on an algebra placement test or 270 on THEA course fee. (MATH 1301)

**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. (MATH 1302)

**MATH 1324****Finite Mathematics (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. Prerequisite: Requires a "B" or greater in MATH 0391 or a satisfactory score on an algebra placement test. Course fee. (MATH 1324)

**MATH 1325****Business Calculus (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 probability theory, expected values, statistics, and elementary differential and integral calculus. Prerequisite: Requires a "C" or greater in MATH 1324. Course fee. (MATH 1325)

**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. Course fee.

**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. Course fee.

**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 or a higher level Math course or a satisfactory score on an Algebra placement test. Course fee. (MATH 2332)

**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. (MATH 1303)

**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.

**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.

**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 2415. Course fee.

**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.

**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. (MATH 2313)

**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. (MATH 2314)

**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. (MATH 2315)

**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. (MATH 2310)

# 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 |
| Lab Instructor:     | 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 75

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 76

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. Course fee. (1609015131) (FREN 1401)

## **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. Course fee. (1609015131) (FREN 1402)

## **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. Course fee. (1609015331) (FREN 2303)

## **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. Course fee.

## **FREN 2312**

### **Intermediate French II (3-2)**

**3 Hours**

Continuation of French 2311. Prerequisite: FREN 2311. Course fee. (1609015231) (FREN 2302)

# 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. Course fee. (1605015113) (GERM 1401)

## **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. Course fee. (1605015113) (GERM 1402)

## **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. Course fee. (1605015213) (GERM 2301)

**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. Course fee. (1605015213) (GERM 2302)

## Latin

**LATI 1411****Beginning Latin (4-0)****3 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. Course fee. (1612035113) (LATI 1301)

**LATI 1412****Beginning Latin II (4-0)****3 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 Course fee. (1612035113) (LATI 1302)

**LATI 2311****Intermediate Latin I (3rd semester Latin) (3-0)****3 Hours**

Review of grammar and readings in Roman literary works. Prerequisite: LATI 1412. Course fee. (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. Course fee. (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. Course fee. (1609055413) (SPAN 1303)

**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. Course fee. (1609055113) (SPAN 1401)

**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. Course fee. (1609055113) (SPAN 1402)

**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. Course fee. (1609055213) (SPAN 2301)

**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. Course fee. (1609055213) (SPAN 2302)

**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. Course fee. (1609055313) (SPAN 2303)

**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. Course fee. (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 75

Required Core Course(s) for this degree: MATH 1314, MUSI 1306, MUSI 1308, MUSI 1309, MUSI 1310, one English Literature course (Humanities)

### 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 76

Basic Use of Computers: Testing, college or high school courses. All course work must be approved by the Dean.

## Class Instruction

### MUSI 1301 3 Hours Fundamentals of Music (3-0)

For music majors. A preparatory course not applicable toward the music degree, in the fundamentals of rhythm, melody, harmony, ear-training, sight singing, and keyboard. (5009045530) (MUSI 1303)

### MUSI 1304 3 Hours Public School Music Methods and Materials (3-0)

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 2303)



**MUSI 1306**  
**Music Appreciation (3-0)** **3 Hours**  
Overview of music in the context of social and cultural history. Antiquity to present. (5009025130)

**MUSI 1308**  
**Survey of Music Literature I (3-0)** **3 Hours**  
Critical examination of music, its development, and its function in culture. From antiquity to 1750. Use of primary sources and listening selections. (5009025230)(MUSI 2306)

**MUSI 1309**  
**Survey of Music Literature II (3-0)** **3 Hours**  
Critical examination of music, its development, and its function in culture. From 1750 to present. Use of primary sources and listening selections. (5009025230)(MUSI 2307)

**MUSI 1310**  
**American Music: History of Country Music** **3 Hours**  
Traces 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**  
Course examines genesis and history of Jazz in America and probes 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**  
Course examines the effect of historical events on American popular music culture. Includes listening and reporting on music in context of recent American History. Credit will be given only once for MUSI 1310. (5009025330)

## **Instrumental Technique**

**MUAP 1166, 1167**  
**Woodwind Instruments I, II, (2-1)** **1 Hour**  
Course fee. (5009035130) (MUSI 1113, 1114)

**MUAP 1168**  
**Brass Instruments (2-1)** **1 Hour**  
Course fee. (5009035130) (MUSI 1108)

**MUAP 1188**  
**Percussion Instruments (2-1)** **1 Hour**  
Course fee. (5009035130) (MUSI 1112)

**MUAP 1190, 2190**  
**String Instruments I, II (2-1)** **1 Hour**  
Course fee. (5009035130) (MUSI 1115, 1116)

**MUAP 2240**  
**Instrumental Techniques (2-2)** **2 Hours**  
Course fee.

## Individual Instruction Minor Emphasis

|   |               |
|---|---------------|
| <b>MUAP 1169, 1170, 2169, 2170</b><br><b>Brass Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1121, 1122, 2121, 2122)   | <b>1 Hour</b> |
| <b>MUAP 1171, 1172, 2171, 2172</b><br><b>String Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1123, 1124, 2123, 2124)  | <b>1 Hour</b> |
| <b>MUAP 1173, 1174, 2173, 2174</b><br><b>Percussion Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1125, 1126, 2125, 2126)  | <b>1 Hour</b> |
| <b>MUAP 1175, 1176, 2175, 2176</b><br><b>Woodwind Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1127, 1128, 2127, 2128)  | <b>1 Hour</b> |
| <b>MUAP 1177, 1178, 2177, 2178</b><br><b>Keyboard Instruction I, II, III, IV (0-2)</b><br>Intermediate piano. Prerequisite: MUSI 2182 or instructor's permission.<br>Course fee. (5009035430) (MUSI 1129, 1130, 2129, 2130) | <b>1 Hour</b> |
| <b>MUAP 1179, 1180, 2179, 2180</b><br><b>Voice Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1131, 1132, 2131, 2132)   | <b>1 Hour</b> |

## Individual Instruction Major Emphasis

|   |                |
|---|----------------|
| <b>MUAP 1269, 1270, 2269, 2270</b><br><b>Brass Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1221, 1222, 2221, 2222)   | <b>2 Hours</b> |
| <b>MUAP 1271, 1272, 2271, 2272</b><br><b>String Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1223, 1224, 2223, 2224)  | <b>2 Hours</b> |
| <b>MUAP 1273, 1274, 2273, 2274</b><br><b>Percussion Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1225, 1226, 2225, 2226)  | <b>2 Hours</b> |
| <b>MUAP 1275, 1276, 2275, 2276</b><br><b>Woodwind Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1227, 1228, 2227, 2228)  | <b>2 Hours</b> |
| <b>MUAP 1277, 1278, 2277, 2278</b><br><b>Keyboard Instruction I, II, III, IV (0-2)</b><br>Advanced Piano. Prerequisite: MUSI 2178 or instructor's permission.<br>Course fee. (5009035430) (MUSI 1229, 1230, 2229, 2230) | <b>2 Hours</b> |
| <b>MUAP 1279, 1280, 2279, 2280</b><br><b>Voice Instruction I, II, III, IV (0-2)</b><br>Course fee. (5009035430) (MUSI 1231, 1232, 2231, 2232)   | <b>2 Hours</b> |

## Ensembles

|   |               |
|---|---------------|
| <b>MUEN 1121, 1122, 2121, 2122</b><br><b>Wind Ensemble I, II, III, IV (0-5)</b><br>Course fee. (5009035530) (MUSI 1133, 1134, 2133, 2134)       | <b>1 Hour</b> |
| <b>MUEN 1123, 1124, 2123, 2124</b><br><b>Band I, II, III, IV (0-5)</b><br>Course fee. (5009035530) (MUSI 1135, 1136, 2135, 2136)                | <b>1 Hour</b> |
| <b>MUEN 1125, 1126, 2125, 2126</b><br><b>Orchestra I, II, III, IV (0-5)</b><br>Course fee. (5009035530) (MUSI 1137, 1138, 2137, 2138)           | <b>1 Hour</b> |
| <b>MUEN 1131, 1132, 2131, 2132</b><br><b>Studio Ensemble I, II, III, IV (0-4)</b><br>Course fee. (5009035630) (MUSI 1139, 1140, 2139, 2140)     | <b>1 Hour</b> |
| <b>MUEN 1133, 1134, 2133, 2134</b><br><b>Brass Ensemble I, II, III, IV (0-4)</b><br>Course fee. (5009035630) (MUSI 1141, 1142, 2141, 2142)      | <b>1 Hour</b> |
| <b>MUEN 1135, 1136, 2135, 2136</b><br><b>String Ensemble I, II, III, IV (0-4)</b><br>Course fee. (5009035630) (MUSI 1143, 1144, 2143, 2144)     | <b>1 Hour</b> |
| <b>MUEN 1137, 1138, 2137, 2138</b><br><b>Woodwind Ensemble I, II, III, IV (0-4)</b><br>Course fee. (5009035630) (MUSI 1145, 1146, 2145, 2146)   | <b>1 Hour</b> |
| <b>MUEN 1139, 1140, 2139, 2140</b><br><b>Percussion Ensemble I, II, III, IV (0-4)</b><br>Course fee. (5009035630) (MUSI 1147, 1148, 2147, 2148) | <b>1 Hour</b> |
| <b>MUEN 1141, 1142, 2141, 2142</b><br><b>Chamber Singers I, II, III, IV (0-5)</b><br>Course fee. (5009035730) (MUSI 1149, 1150, 2149, 2150)     | <b>1 Hour</b> |
| <b>MUEN 1143, 1144, 2143, 2144</b><br><b>Chorale I, II, III, IV (0-5)</b><br>Course fee. (5009035730) (MUSI 1151, 1152, 2151, 2152)             | <b>1 Hour</b> |
| <b>MUEN 1145, 1146, 2145, 2146</b><br><b>Women's Choir I, II, III, IV (0-5)</b><br>Course fee. (5009035730) (MUSI 1153, 1154, 2153, 2154)       | <b>1 Hour</b> |
| <b>MUEN 1147, 1148, 2147, 2148</b><br><b>Men's Choir I, II, III, IV (0-5)</b><br>Course fee. (5009035730) (MUSI 1155, 1156, 2155, 2156)         | <b>1 Hour</b> |
| <b>MUEN 1151, 1152, 2151, 2152</b><br><b>Jazz Singers I, II, III, IV (0-4)</b><br>Course fee. (5009035830) (MUSI 1157, 1158, 2157, 2158)        | <b>1 Hour</b> |

## Additional Classes

### **MUSI 1159, 2159**

#### **Musical Theatre I, II (1-2)**

**1 Hour**

Study and performance of works from the musical theatre repertoire. Course fee. (5009036130) (MUSI 1104, 1105)

### **MUSI 1162, 1165**

#### **Diction I, II (1-1)**

**1 Hour**

Course fee. (5009085330) (MUSI 1159, 1160)

### **MUSI 1163, 1164**

#### **Jazz Improvisation I, II (0-3)**

**1 Hour**

Course fee. (5009036530) (MUSI 1165, 1166)

### **MUSI 1181, 1182, 2181, 2182**

#### **Class Piano I, II, III, IV (2-1)**

**1 Hour**

Elementary piano. Course fee. (5009075130) (MUSI 1119, 1120, 2119, 2120)

### **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. Course fee. (5009085130) (MUSI 1117, 1118, 2117, 2118)

### **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 1207, 1208, 2207, 2208)

### **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) (MUSI 1301)



# NURSING-ASSOCIATE DEGREE

|                   |                     |           |          |
|-------------------|---------------------|-----------|----------|
| Dean:             | Becky Hammack       | 209a DFH  | 685-4600 |
| Program Director: | Dorothy Joy         | 212 DFH   | 685-4602 |
| Faculty:          | Kim Bezinque        | 214 DFH   | 685-4741 |
|                   | Juanita Coldiron    | 216 DFH   | 685-4598 |
|                   | Lea Keesee          | 205 DFH   | 685-4595 |
|                   | Debbie Korbach      | 218 DFH   | 685-4590 |
|                   | Helen Peetz         | 215 DFH   | 685-4599 |
|                   | Ed Penz             | 219 DFH   | 685-4591 |
|                   | Patti Richard       | 207 DFH   | 685-4593 |
|                   | Lenora Sevcik       | 213 DFH   | 685-4597 |
|                   | Valerie Steiner     | 217 DFH   | 686-4822 |
|                   | Division Secretary: | Kay Floyd | 209b DFH |

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-CAT) 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-CAT 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. Only students admitted to the Associate Degree Nursing Program can enroll in courses with the RNSG prefix. 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 15 Semester Credit Hours**

See Core Requirements, page 75

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 15 Semester Credit Hours**

See Core Requirements, page 75

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: POFI 1170

## 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**

Dosage calculations includes reading, interpreting and solving calculation problems encountered in the preparation of medications, and conversion of measurements within the metric, apothecary and avoirdupois systems.

### **RNSG 1162**

#### **Clinical I (0-0-3)**

**1 Hour**

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**

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**

Introduction to the science of pharmacology with emphasis on the actions, interactions, adverse effects, and nursing implications of each drug classification. Topics 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**

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**

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 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**

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. 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**

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. 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.

**RNSG 1247****Concepts of Clinical Decision Making I (2-1-0)****2 Hours**

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. 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**

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. 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**

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.



**RNSG 1462****Clinical II (0-0-12)****4 Hours**

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**

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. Review of trends and issues impacting nursing and health care today and in the future. Topics 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**

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.

**RNSG 2261****Clinical - Transition Option (0-0-6)****2 Hours**

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**

Application of advanced concepts and skills for development of the professional nurse's role in complex client/nursing situations. Emphasis 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. Focus will be given to 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**

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**

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**

A study of common medical terminology, word origin, structure, and application.

# NURSING-VOCATIONAL

## Midland Program:

|                     |               |          |          |
|---------------------|---------------|----------|----------|
| Dean:               | Becky Hammack | 209a DFH | 685-4600 |
| Program Director:   | Susan Jones   | 140 T    | 685-6437 |
| Faculty:            | Linda Jordan  | 140 T    | 685-4270 |
|                     | Lynn Mock     | 140 T    | 685-5594 |
|                     | Tracie Wood   | 140 T    | 685-4787 |
| 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:             | Karla 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**

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. Corequisite: VNSG 1119 and VNSG 2261.

### **VNSG 1136**

#### **Mental Health (1-0-0)**

**1 Hour**

An introduction to the principles and theories of positive mental health and human behaviors, including emotional responses, coping mechanisms, and therapeutic communication skills. Corequisite: VNSG 1238 and VNSG 2160.

### **VNSG 1219**

#### **Professional Development (2-0-0)**

**2 Hours**

The study of the importance of professional growth and development of added nursing skills. Topics include the role of the licensed vocational nurse in the multi-disciplinary health care team, professional organizations, and continuing education. Corequisite: VNSG 1126 and VNSG 2261.

### **VNSG 1230**

#### **Maternal-Neonatal Nursing (2-0-0)**

**2 Hours**

The utilization of the nursing process in the assessment and management of the child-bearing family. Emphasis is on the bio-psycho-socio-cultural needs of the family during the phases of pregnancy, childbirth, and the neonate period including abnormal conditions. Corequisite: VNSG 1262.

### **VNSG 1234**

#### **Pediatrics (2-0-0)**

**2 Hours**

The 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. Corequisite: VNSG 1263.

### **VNSG 1238**

#### **Mental Illness (2-0-0)**

**2 Hours**

The study of human behavior with emphasis on emotional and mental abnormalities and modes of treatment incorporating the nursing process. Corequisites: VNSG 1136 and VNSG 2160.

### **VNSG 1304**

#### **Foundations of Nursing I (3-0-0)**

**3 Hours**

Introduction to the nursing profession including history, standards of practice, legal and ethical issues, and role of the vocational nurse. Topics 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**

The 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. Midland - Prerequisite: BIOL 2402, VNSG 1222. Ft. Stockton - Prerequisite: HPRS 1106, VNSG 1420, VNSG 1115. Corequisite: VNSG 1222.

**VNSG 1509**  
**Nursing in Health and Illness II (4-3-0)** **5 Hours**  
Introduction to common health problems requiring medical and surgical interventions

**VNSG 2431**  
**Advanced Nursing Skills (2-6-0)** **4 Hours**  
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**  
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**  
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**  
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**  
A study of common medical terminology, word origin, structure and application.

**HPRS 2200**  
**Pharmacology for Health Professions (2-0-0)** **2 Hours**  
A study of drug classifications, actions, therapeutic uses, adverse effects, routes of administration, and calculation of dosages. Prerequisite: 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 life-long 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 42 Semester Credit Hours

See Core Requirements, page 75

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\* (2314), MATH 2415\* (2315), MATH 2320\*

### Related Courses 4 Semester Credit Hours

Four semester credit hours of science in addition to the core courses.

### 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 course from Communications area of the Approved

Core Courses, page 76

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 (MATH 2314).

### 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 2315).

### 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. (PHYS 1401)

### 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. (PHYS 1402)

**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.

**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.

**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 (2313). (PHYS 1403)

**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 (2314). (PHYS 2401)





# PROFESSIONAL PILOT

|           |                      |              |          |
|-----------|----------------------|--------------|----------|
| Dean:     | Curt Pervier         | 143 T        | 685-4677 |
| Director: | L.C. Durham          | 163T         | 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 | 161 T    |
|           |                      | 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 75

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

### 12 Semester Credit Hours

AIRP 1301, AIRP 1307, AIRP 1315, AIRP 1317

## Instrument Pilot Certificate

### Specialty Courses

### 19 Semester Credit Hours

AIRP 1341, AIRP 1345, AIRP 2335, AIRP 1451, AIRP 2333, AIRP 2350

## Commercial Pilot Certificate

### Specialty Courses

### 15 Semester Credit Hours

AIRP 1355, AIRP 2337, AIRP 2339, AIRP 2346, AIRP 2357

- 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 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 (0-6)** **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 2336**  
**Certified Flight Instructor (1-6)** **3 Hours**  
 Flight instruction necessary to qualify for the Federal Aviation Administration Certified Flight Instructor-Airplane Certificate. Topics include ground and flight instruction.
- 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 (1-6)** **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 pre-flight, 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.
- AIRP 2449**  
**Instructor Ground School (4-1)** **4 Hours**  
 Skill development in the fundamentals of teaching and learning in an aviation-oriented environment. Introduction to the techniques of instruction and analysis of flight maneuvers. Topics include flight instructor responsibilities and federal aviation regulations relating to the instructor rating.
- 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: | Todd Kirk, <i>Social Work Advisor</i> | 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 75

Required Core Course(s) for this degree: BIOL 1406, BIOL 1407, MATH 1314\*, 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 76

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. (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. 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. Applicants are encouraged (but not required), to complete support courses such as Anatomy and Physiology prior to enrolling in the program. 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. Applicants completing all admission procedures by May 10th will be scheduled for an admission interview in May, and will be notified of acceptance by the end of May. Late applicants may be placed on an alternate list for consideration should openings occur during the summer.

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. Specialty 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 15 Semester Credit Hours

See Core Requirements, page 75

Required Core Course(s) for this degree: BIOL 2401, BIO 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 1160

### 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

RADR 2240, CTMT 2232, CTMT 2236, CTMT 2360, \*CTMT 2361

12 Semester Credit Hours

**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 2223, 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.

### 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. Core requirements  | 15        |
| -3 hours in Visual and Performing Arts or Humanities                                      |           |
| -3 hours in Social and Behavioral Sciences  |           |
| -3 hours in Mathematics or Natural Sciences   |           |
| -3 additional hours in Social and Behavioral Sciences or Mathematics and Natural Sciences |           |
| -3 hours in oral competency requirement   |           |
| 3. Credits selected from "Certificate Options", management courses or other courses       | 7         |
| <b>Total Credit Hours Required</b>  | <b>62</b> |

### 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 Performing Arts or Humanities elective                          | 3         |
| <b>Total Credit Hours Required</b>  | <b>70</b> |

### 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

In-depth coverage of computed tomography imaging techniques. Image quality assurance and radiation protection are emphasized. Prerequisite: General certification by the Texas MRT Board.

#### CTMT 2236

#### Computed Tomography Equipment and Methodology (2-0-0) 2 Hours

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

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

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. Focuses on building a sound understanding of the underlying scientific theory and practice leading to magnetic resonance imaging. 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 emphasized. Prerequisite: General certification by the Texas MRT Board.

**MRIT 2234****Magnetic Resonance Equipment and Methodology (2-0-0)****2 Hours**

A study of the actual operation and operational control of magnetic resonance imaging equipment. 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. Prerequisite: General certification by the Texas MRT Board.

**MRIT 2360****Clinical I: Magnetic Resonance Imaging (0-0-9)****3 Hours**

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**

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**

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**

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**

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**

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**

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**  
 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**  
 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**  
 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**  
 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**  
 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**  
 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**  
 An exploration of specialized imaging modalities.
- RADR 2240**  
**Sectional Anatomy for Medical Imaging (2-0-0)** **2 Hours**  
 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**  
 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)** **2 Hours**  
 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**  
 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**  
 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**

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**

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**

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**

A study of common medical terminology, word origin, structure, and application.



# READING

|                     |                   |          |          |
|---------------------|-------------------|----------|----------|
| Dean:               | William G. Feeler | 141b AFA | 685-4626 |
| Faculty:            | 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. Course fee (3201085235) (0192)

## 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. Course fee (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. Course fee. (3201085235) (0190)

## 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. Course fee. (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. Course fee. (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. Course fee. (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) (0392)

## 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) (0393)

# 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. 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 15 Semester Credit Hours

See Core Requirements, page 75

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 1206, 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**

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**  
 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**  
 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**  
 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**  
 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**  
 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, CPT, 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**

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**

The student will understand 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**

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**

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**

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**

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:            | 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 75

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 2301 or 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 76

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 adaptations. 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 socio-cultural 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:            | Tyler Tindall     | 125 AFA  | 685-4637 |
| 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 75

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 2320, 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 76

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. Course fee. (2310016035) (SCOM 1103, 1104, 2103, 2104)

### **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) (SCOM 1300)

### **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) (SCOM 1302)

### **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) (SCOM 2307)

### **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) (SCOM 2304)

**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) (SCOM 2306)

**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) (SCOM 2308)

**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) (SCOM 2303)

**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) (SCOM 2302)

## VETERINARY TECHNOLOGY

|                     |                   |        |          |
|---------------------|-------------------|--------|----------|
| Dean:               | Margaret Wade     | 125 SF | 685-4615 |
| Program Director:   | Kerry Coombs      | 187 T  | 685-4619 |
|                     | Adrian Hernandez  | PB06-A | 686-4218 |
|                     | Michele McDermott | PB06-A | 686-4219 |
| Division Secretary: | Norma Duran       | 124 SF | 685-4612 |

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 2266 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. New classes begin each Fall and courses must be taken sequentially for progression in the program. 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 (\*).

*Many of the course prefixes have changed due to the implementation of the Workforce Education Course Manual. Courses previously taken should still apply to these degrees or certificates. Course prefixes and program names are listed in the index. Please check course descriptions carefully and review your schedule with your advisor prior to enrolling.*

### Associate of Applied Science

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

See Core Requirements, page 75

Required Core Course(s) for this degree: BIOL 2421, CHEM 1405, ENGL 1301, SPCH Elective

**Specialty Courses** **49 Semester Credit Hours**

VTHT 1105, VTHT 1125, \*VTHT 1166, VTHT 1209, VTHT 1301, VTHT 1317, \*VTHT 1345, \*VTHT 1349, VTHT 1413, \*VTHT 1441, VTHT 2201, \*VTHT 2209, \*VTHT 2213, \*VTHT 2217, \*VTHT 2266, \*VTHT 2323, VTHT 2325, VTHT 2421, \*VTHT 2435

**Related Courses** **3 Semester Credit Hours**

ENGL 1301

**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: SPCH 1311, SPCH 1315, SPCH 1318, or SPCH 1321**

**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: |               | 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 75

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 1302

**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 18/20 Semester Credit Hours

WLDG 1521, WLDG 1553, \*WLDG 1557, \*WLDG 1525 or MCHN1320

**MINIMUM SEMESTER CREDIT HOURS = 18/20**

## Intermediate Certificate

### Specialty Courses 15 Semester Credit Hours

\*WLDG 1530, \*WLDG 1534, \*WLDG 2543

**MINIMUM SEMESTER CREDIT HOURS = 15**

## Advanced Certificate

### Specialty Courses 20 Semester Credit Hours

\*WLDG 2506 or 2553, \*WLDG 2535, \*WLDG 2539, \*WLDG 2547 or \* WLDG 2551

**MINIMUM SEMESTER CREDIT HOURS = 20**

**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 utility.

**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.



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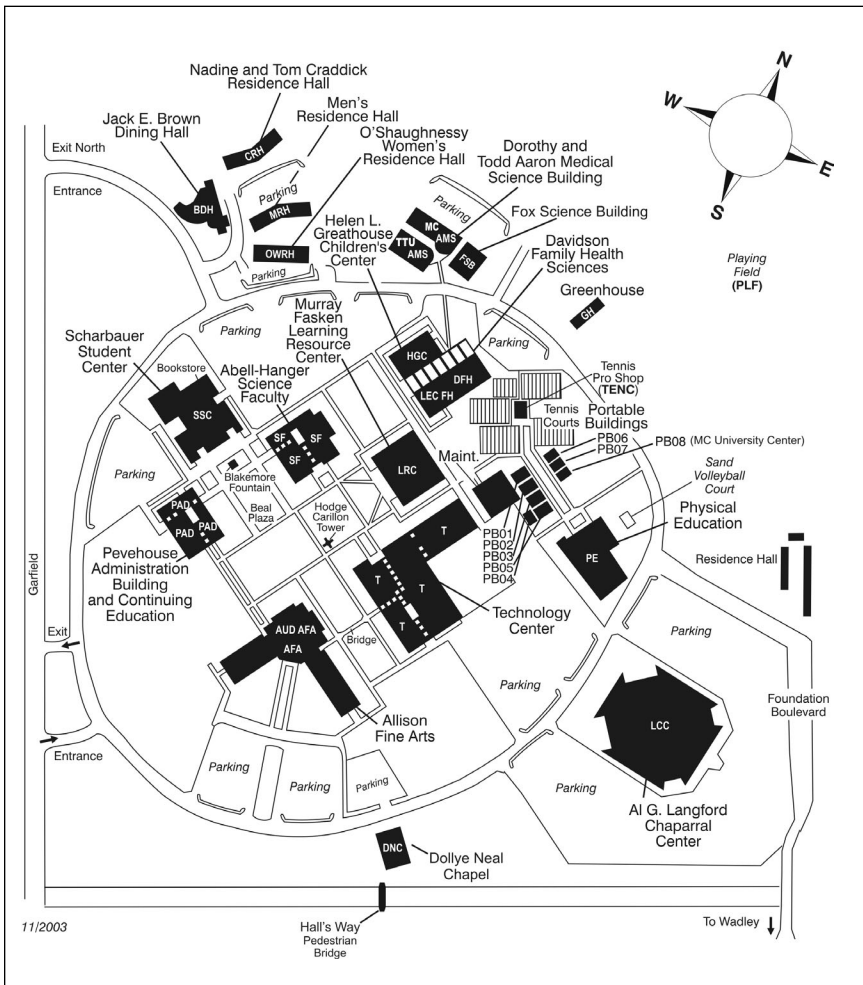
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# Midland College

## Main Campus Map



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