COLLEGE OF AERONAUTICS AND ENGINEERING

Mission
The mission of the College of Applied Engineering, Sustainability and Technology is to enhance technological literacy, education and training essential to the knowledge economy, socio-economic well-being and to the workforce development of the state of Ohio in general and Northeast Ohio in particular. The college's curricula leads to various certificates in emerging/high-technology areas and to a seamless articulation with technical associate, bachelor's and master's degree programs with global perspectives for careers in business, industry, education and government sectors.

Undergraduate Programs
- Aeronautical Systems Engineering Technology - B.S.
- Aeronautics - B.S.
- Aerospace Engineering - B.S.
- Applied Engineering - B.S.
- Technology - B.S.

Minors
- Aircraft Dispatch
- Aviation Management
- Aviation Weather
- Computer Engineering Technology
- Electronic Technology
- Flight Technology
- Innovation
- Safety, Quality and Lean in Manufacturing
- Sustainability
- Technology
- Unmanned Aircraft Systems

Graduate Programs
- Technology - M.T.E.C.

Center for Comparative and Integrative Programs

College of Aeronautics and Engineering Faculty
- Armann, George (2015), Lecturer, B.S., Ohio University, 2006
- Bigham, George F. (1998), Lecturer, M.S., Clemson University, 1998
- Boergerhoff, Jason T. (2010), Assistant Professor, M.S., University of North Dakota, 2010
- Boyd, Darwin L. (1983), Assistant Professor, Ph.D., Kent State University, 1991
- Chowdhury, Aminur R. (1997), Professor, Ed.D., West Virginia University, 1979
- Darwin, Boyd L. (1983), Assistant Professor, Ph.D., Kent State University, 1991
- Du, Yanhai (2013), Assistant Professor, Ph.D., University of Waikato, 2004
- Duncan, John C. (1988), Assistant Professor, Ph.D., Kent State University, 1996
- Fisch, Michael R. (1998), Assistant Professor, Ph.D., Harvard College, 1982
- Gardner, Brian T. (1999), Lecturer, M.Tech., Kent State University, 2005
- Karpinski, Joseph (1990), Associate Lecturer, M.Tech., Kent State University, 2005
- Koptur, Evren (2003), Lecturer, M.Tech., Kent State University, 2005
- Kunda, Sarath C. (2014), Lecturer, M.Tech., Kent State University, 2015
- Long, Thomas (2014), Assistant Professor, MBA, Golden Gate University, 1988
- Mangrum, Richard L. (2003), Associate Professor, Ed.D., Oklahoma State University, 2003
- McFarland, Maureen R. (2003), Assistant Professor, M.S., Boston University, 2002
- Mirando, Anthony M. (2013), Lecturer, M.S., Colorado State University, 2014
- Nettey, Richmond I. (2001), Associate Professor and Associate Dean, Ph.D., University of Houston, 2000
- Palcho, Timothy L. (2000), Associate Professor, M.S., Mountain State University, 2009
- Priestley, Robert A. (2013), Assistant Professor, M.S., Southeastern Oklahoma State University, 2011
- Ripple, James E. (2008), Assistant Professor, B.A., Kent State University, 1991
- Samba, Augustine S. (2001), Associate Professor, Ph.D., University of Liverpool, 1983
- Sines, Robert G. (1984), Associate Professor and Interim Dean, M.A., Pepperdine University, 1978
- Song, Shin-Min (2012), Professor, Ph.D., The Ohio State University, 1984
- Stringer, David B. (2013), Assistant Professor, Ph.D., University of Virginia, 2008
- True, Trent (2004), Lecturer, M.Tech., Kent State University, 2007
- Uribe-Rendon, Roberto M. (1990), Professor, Ph.D., National Autonomous University of Mexico, 1986
Center for the Study of Gender and Sexuality Faculty
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- Merryman, Molly B. (1996), Associate Professor, Ph.D., Bowling Green State University, 1995
- Vachon, Lauren (2012), Assistant Professor, M.F.A., Kent State University, 2013

Chemical Physics Interdisciplinary Program Faculty
- Bos, Philip J. (1994), Professor, Ph.D., Kent State University, 1978
- Chien, Liang-Chy (1988), Professor, Ph.D., University of Southern Mississippi, 1988
- Hegmann, Torsten (2011), Associate Professor, Ph.D., Martin Luther University, 2001
- Hegmann, Elda (2011), Assistant Professor, Ph.D., Laval University, 2003
- Jakl, Antal I. (1989), Professor, Ph.D., University of Budapest, 1986
- Lavrentovich, Oleg D. (1992), Trustees Research Professor, Kiev University, 1990
- Palffy-Muhoray, Peter (1987), Professor
- Selinger, Jonathan V. (2005), Professor, Ph.D., Harvard College, 1989
- Selinger, Robin L.B. (2005), Professor, Ph.D., Harvard College, 1989
- Wei, Qi-Huo (2006), Associate Professor
- West, John L. (1984), Trustees Research Professor
- Yang, Deng-Ke (1989), Professor, Ph.D., University of Hawaii at Manoa, 1989
- Yokoyama, Hiroshi (2009), Professor, Ph.D., Tokyo International University, 1987

Department of Accounting Faculty
- Alam, Pervaiz (1985), Professor, Ph.D, University of Houston, 1984
- Altieri, Mark P. (1992), Professor, L.L.M., New York University, 1982
- Bolchalk, James R. (2006), Associate Professor, Ph.D., University of Akron, 1996
- Fang, Shunlan (2014), Assistant Professor, Ph.D., Temple University, 2013
- Hinkel, Timothy (2013), Assistant Professor, Ph.D., University of Arizona, 2013
- Hoffman, Benjamin W. (2012), Assistant Professor
- Lakshmana, Indrarini (2004), Associate Professor, Ph.D., Georgia State University, 2004
- Li, Wei (2006), Associate Professor, M.B.A., Washington State University, 2001
- Malbasa, Malinda B. (2009), Assistant Professor, M.Tax., University of Akron, 1995
- Sellers, R. Drew (2011), Assistant Professor, D.M., Case Western Reserve University, 2008
- Tietz, Wendy M. (2000), Professor, Ph.D., Kent State University, 2007
- Zucca, Linda J. (1988), Associate Professor and Chair, Ph.D., Case Western Reserve University, 1989

Department of Anthropology Faculty
- Feinberg, Richard (1974), Professor, Ph.D, University of Chicago, 1974
- Fotiou, Evgenia (2014), Assistant Professor, Ph.D, University of Wisconsin-Madison, 2010
- Lovejoy, Claude Owen (1968), Distinguished Professor, Ph.D., University of Massachusetts-Amherst, 1970
- Manahan, Thomas K. (2006), Associate Professor, Ph.D., Vanderbilt University, 2003
- Meindl, Richard (1979), Professor, Ph.D., University of Massachusetts-Amherst, 1979
- Perusek, David J. (1998), Associate Professor, L.S.M., Kent State University, 1989
- Raghanti, Mary Ann (2000), Associate Professor, Ph.D, Kent State University, 2007
- Spurlock, Linda B. (1993), Assistant Professor, Ph.D., Kent State University, 2001
- Tozi, Anthony J. (2014), Assistant Professor, Ph.D, Columbia University, 2000

Department of Biological Sciences Faculty
- Bade, Darren L. (2006), Associate Professor, Ph.D., University of Wisconsin, 2004
- Bagavandoss, Paul (1993), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1986
- Bailey, Erin L. (2012), Assistant Professor, Ph.D., Kent State University, 2001
- Blackwood, Christopher B (2006), Associate Professor, Ph.D., Michigan State University, 2001
- Blank, James L. (1986), Professor and College Dean, Ph.D., Indiana University, 1982
- Breidenbaugh, Caralisa (2010), Lecturer, M.S., Youngstown State University, 2008
- Brennen, Michael J. (2004), Associate Lecturer, M.Ed., Edinboro University of Pennsylvania, 1985
- Caldwell, Heather (2007), Associate Professor, Ph.D., Georgia State University, 2004
- Carlson, Chris R. (1991), Associate Professor, M.S., Michigan State University, 1981
- Casadesus Smith, Gemma (2014), Associate Professor, Ph.D., Tufts University, 2003
- Case, Andrea L. (2005), Associate Professor, Ph.D., University of Toronto, 2000
- Chen, Yijing (2014), Assistant Professor, Ph.D., University of Wisconsin-Madison, 1997
- Chung, Wilson (2011), Assistant Professor, Ph.D., University of Amsterdam, 2003
- Clements, Robert J. (1997), Assistant Professor, Ph.D., Kent State University, 2004
- Costello, David M. (2014), Assistant Professor, Ph.D., University of Notre Dame, 2010
- Damron, Derek S. (2007), Professor, Ph.D., Kent State University, 1991
- De Szalay, Ferenc A. (1997), Associate Professor, Ph.D., University of California-Berkeley, 1995
- Delorme, Thierry A. (2004), Associate Professor, Ph.D., University of Lyon, 1997
- Ding, Qunxing (2007), Associate Professor
- Engohang-Ndong, Jean (2010), Assistant Professor
- Finer, Kim R. (1993), Professor, Ph.D., Texas A&M University, 1984
- Fraizer, Gail C. (2001), Associate Professor, Ph.D., University of California-Berkeley, 1983
• Freeman, Ernest J. (1990), Associate Professor and School Director, Ph.D., Kent State University, 1991
• Gerbig, Donald G. (1996), Associate Professor, Ph.D., University of Tennessee-Knoxville, 1991
• Glass, David J. (1984), Professor
• Graffon, Brian W. (1994), Associate Professor, Ph.D., Kent State University, 2004
• Groff, Chi-Hua (2009), Assistant Professor, Ph.D., Wayne State University, 1997
• Gupta, Sanhita (2009), Assistant Professor, Ph.D., Case Western Reserve University, 1998
• Hamilton, Robert IV (2005), Associate Professor, Ph.D., Rutgers, State University of New Jersey, 2006
• Hoeh, Walter R. (1998), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1991
• Huang, Songping D. (1998), Professor, Ph.D., Michigan State University, 1993
• Johnson, John D. (2007), Associate Professor, Ph.D., University of Colorado-Boulder, 2002
• Kerschner, Mark W. (1999), Associate Professor, Ph.D., The Ohio State University, 1998
• Kim, Min Ho (2012), Assistant Professor, Ph.D., University of Toledo, 2002
• Kline, Douglas W. (1990), Professor, Ph.D., University of California-Davis, 1985
• Kooijman, Edgar (1998), Associate Professor, Ph.D., Utrecht University, 2006
• Koski, Gary K. (2010), Associate Professor, Ph.D., Johns Hopkins University, 1995
• Leff, Adam A. (1994), Associate Professor, D.V.M., University of Georgia, 1991
• Leff, Laura G. (1994), Professor, Ph.D., University of Georgia, 1992
• Lehner, Matthew S. (2012), Assistant Professor, Ph.D., University of Florida, 2010
• Lovell, John A. (1995), Associate Professor, Ph.D., Kent State University, 1993
• Marcinkiewicz, Jennifer L. (1995), Associate Professor
• McDonough, Jennifer A. (2006), Assistant Professor
• Meek, Leah M. (1995), Associate Lecturer
• Mintz, Eric M. (2002), Professor, Ph.D., University of California-Santa Cruz, 1995
• Model, Michael A. (2002), Assistant Professor, Ph.D., University of Michigan-Ann Arbor, 1995
• Mou, Xiaozhen (2008), Associate Professor, Ph.D., University of Georgia, 2006
• Naji, Josephine W. (1988), Associate Professor, Ph.D., Kent State University, 1994
• Novak Barnett, Colleen M. (2009), Associate Professor, Ph.D., Michigan State University, 1999
• Piontkivska, Olena (2005), Associate Professor, Ph.D., Pennsylvania State University, 2003
• Popescu, Daniela C. (2013), Assistant Professor, Ph.D., Vanderbilt University, 2006
• Proffer, Tyre J. (1991), Professor, Ph.D., Michigan State University, 1985
• Rocha, Oscar J. (2004), Associate Professor, Ph.D., Pennsylvania State University, 1990
• Russell, Mary A. (2003), Associate Professor, Ph.D., The Ohio State University, 1996
• Sikut, Robin M. (2009), Lecturer, M.Ed., University of Akron, 1995
• Smith, Gregory A. (2014), Assistant Professor, Ph.D., University of Oklahoma, 2007
• Soriano, Augusto H. (2001), Assistant Professor, A.A.B., Kent State University, 2007
• Steele, Louise (2012), Assistant Professor, Ph.D., Case Western Reserve University, 2002
• Stone, Jonathan F. (2003), Assistant Professor, B.S., University of Akron, 1985
• Tinkler, Gregory P. (2013), Assistant Professor, Ph.D., Wake Forest University, 2005
• Vash, Sarah R. (2004), Senior Lecturer, M.S., Kent State University, 2003
• Veney, Sean L. (2004), Associate Professor, Ph.D., University of Virginia, 2000
• Vijayaraghavan, Srinivasan (1997), Professor
• Ward, David (2015), Professor, Ph.D., University of KwaZulu-Natal, 1988
• Welshhans, Kristy (2011), Assistant Professor, Ph.D., Georgia State University, 2008
• Zhu, Haiyan (2010), Assistant Professor, M.S., University of Kentucky, 1998

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• Abeywisirunawardena, Sanjaya C. (2015), Assistant Professor, Ph.D., Wayne State University, 2008
• Abraham, Ann C. (2004), Associate Professor, Ph.D., University of Pittsburgh, 1983
• Basu, Soumitra (2005), Associate Professor, Ph.D., Thomas Jefferson University, 1997
• Blaih, Salah M. (1997), Associate Professor, Ph.D., The Ohio State University, 1998
• Bowers, David J. (2013), Assistant Professor
• Bunge, Scott D. (2004), Associate Professor, Ph.D., Georgia Institute of Technology, 2001
• Burns, Andrew (1994), Professor, Ph.D., Brown University, 1990
• Cubon-Bell, Valerie A. (2010), Assistant Professor, Ph.D., Princeton University, 2008
• Datta, Bansidhar (2000), Associate Professor, University of Nebraska-Lincoln, 1989
• Ding, Tang (2006), Associate Professor, Ph.D., University of Akron, 2006
• Dunietz, Barry (2012), Associate Professor
• Earley, Clarke W. (1995), Associate Professor, Ph.D., University of Illinois-Urbana, 1987
• Ekanyake, Sujeewani K. (2012), Assistant Professor
• Fenk, Christopher J. (1990), Professor, Ph.D., University of Pittsburgh, 1987
• Fouad, Faid S. (2008), Associate Professor, Ph.D., Northeastern University, 2003
• Gregory, Roger B. (1984), Professor, Ph.D., Sheffield University, 1980
• Jaroniec, Mietek (1988), Professor
Department of Computer Science Faculty

- Khitrin, Anatoly K. (2002), Professor
- Leslie, Margaret R. (2004), Associate Professor, Ph.D., Rhodes University, 1995
- Mao, Hanbin (2005), Professor, Ph.D., Texas A&M University, 2003
- Motry, Douglas H. (1996), Associate Professor, Ph.D., Michigan State University, 1996
- Pal Chaudhuri, Urmila (2008), Associate Professor, Ph.D., Indian Institute of Technology Madras, 2004
- Sampson, Paul (1985), Professor, Ph.D., University of Birmingham, 1983
- Seed, Alexander J. (1996), Associate Professor
- Shelley, Jacob T. (2014), Assistant Professor, Ph.D., Indiana University-Bloomington, 2011
- Stroup, Diane (2000), Associate Professor, Ph.D., The Ohio State University, 1992
- Subramanian, Pritha (2006), Assistant Professor, Ph.D., The Ohio State University, 2013
- Tandon, Santokh S. (2004), Professor, Ph.D., Guru Nanak Dev University, 1979
- Tubergen, Michael J. (1995), Professor, Ph.D., University of Chicago, 1991
- Twieg, Robert (1997), Professor
- Wang, Zhiqiang (2007), Associate Professor
- Zheng, Yaorong (2015), Assistant Professor, Ph.D., University of Utah, 2011

Department of Economics Faculty

- Barnette, Justin (2011), Assistant Professor, Ph.D., University of Minnesota-Twin Cities, 2012
- Dechenaux, Emmanuel (2004), Associate Professor, Ph.D., Purdue University, 2004
- El-Bahnasawy, Nasr G. (2007), Assistant Professor, Ph.D., Colorado State University, 2008
- Ellis, Michael A. (1990), Associate Professor, Ph.D., Texas A&M University, 1991
- Engelhardt, Lucas M. (2010), Assistant Professor, Ph.D., The Ohio State University, 2010
- Greenhalgh-Stanley, Nadia (2009), Associate Professor, Ph.D., Syracuse University, 2009
- Harris, Jeremiah R. (2014), Assistant Professor, Ph.D., Purdue University, 2014
- Hayduk, Iryna (2014), Assistant Professor, Ph.D., University of Houston, 2014
- Johnson, Eric D. (2005), Associate Professor
- Kang, Wensheng (2009), Associate Professor, Ph.D., University of Missouri, 2009
- Leontieva, Ludmila (2007), Lecturer
- Liu, Dandan (2008), Associate Professor, Ph.D., Texas A&M University, 2005
- Mukherjee, Deepraj (2012), Assistant Professor, Ph.D., University of Memphis, 2010
- Park, Jooyoun (2009), Assistant Professor, Ph.D., University of Michigan, 2009
- Reynolds, Curtis Lockwood (2007), Associate Professor, Ph.D., University of Michigan, 2007
- Rohlin, Shawn M. (2012), Associate Professor
- Williams, Donald R. (1983), Professor and Department Chair, Ph.D., Northwestern University, 1984
- Wilson, Kathryn S. (1996), Professor, Ph.D., University of Wisconsin-Madison, 1996

Department of English Faculty

- Abuezeid, Ayham (2007), Lecturer, B.A., Kent State University, 2008
- Bice, Deborah M. (1997), Associate Professor, Ph.D., Case Western Reserve University, 1995
- Bowers, Abigail L. (2011), Assistant Professor
- Bowles, Noelle K. (2001), Associate Professor, Ph.D., University of Miami, 1996
- Bracher, Mark F. (1985), Professor, Ph.D., Vanderbilt University, 1981
- Brodsky, Adam H. (2008), Lecturer, M.A., Kent State University, 2011
- Byrne, Peter M. (2008), Associate Professor, Ph.D., University of California-Irvine, 2004
- Camden, Vera J. (1984), Professor, Ph.D., University of Virginia, 1986
- Canacci, James E. (1995), Associate Lecturer, M.A., Youngstown State University, 1995
- Christen-Syed, Shannon L. (2010), Lecturer, M.A., Kent State University, 2004
• Ciuba, Gary M. (1986), Professor, Ph.D., Fordham University, 1986  
• Clewell, Tammy (2000), Professor, Ph.D., Florida State University, 2000  
• Culleton, Claire A. (1990), Professor, Ph.D., University of Miami, 1989  
• Cunningham, Jennifer M. (2009), Assistant Professor, Ph.D., Kent State University, 2012  
• Cutting, Sara G. (1990), Associate Lecturer, L.S.M., Kent State University, 1990  
• Daniels, Martha E. (2010), Lecturer, Ed.D., Walden University, 2008  
• Dauterich, Edward IV (1997), Professor, Ph.D., Kent State University, 2006  
• Davis Patterson, Kathy S. (2000), Associate Professor, Ph.D., The Ohio State University, 1999  
• Delaney, Laurie E. (1995), Assistant Professor, M.A., Youngstown State University, 1991  
• Devore, Elizabeth E. (2010), Lecturer, M.A., New Mexico Highlands University, 2009  
• Dugas, Don-John (2005), Associate Professor, Ph.D., Pennsylvania State University, 1999  
• Dunnire, Patricia L. (1995), Professor, Ph.D., Carnegie Mellon University, 1995  
• Elder, Dolores M. (2009), Lecturer, M.A., Kent State University, 2010  
• Ellis, Marnie K. (2003), Lecturer, M.F.A., Bowling Green State University, 1999  
• Erritouni, Ali (2005), Associate Professor, Ph.D., University of Miami, 2004  
• Fein, Susanna G. (1985), Professor, Ph.D., Harvard College, 1985  
• Floyd, Kevin R. (1998), Associate Professor, University of Iowa, 1998  
• Gaston, Paul L. (1999), Trustees Professor, Ph.D., University of Virginia, 1970  
• Hakutani, Yoshinobu (1968), Professor, Ph.D., Pennsylvania State University, 1965  
• Hamrick, Phillip M. (2013), Assistant Professor, Ph.D., Georgetown University, 2013  
• Harrison, Denise A. (2005), Lecturer, M.A., Miami University, 2001  
• Hediger, Ryan R. (2011), Associate Professor, Ph.D., University of Oregon, 2005  
• Hendirckx, Jessy A. (2015), Lecturer, M.A., Kent State University, 2002  
• Howard, Elizabeth A. (2000), Professor, B.A., Kent State University, 1987  
• Huot, Brian A. (2004), Professor, Ph.D., Indiana University of Pennsylvania, 1988  
• Judge, Jeffrey W. (2013), Assistant Professor, Ph.D., Walden University, 2010  
• Karman, Barbara A. (1995), Professor, Ph.D., Kent State University, 2013  
• King, Robert J. (1998), Associate Professor, M.F.A., Indiana University-Bloomington, 1998  
• Krishnan, Uma S. (2001), Professor, Ph.D., Kent State University, 2014  
• Li, Hua (2011), Lecturer, M.A., Kent State University, 2013  
• Lieske, Pamela J. (1997), Professor, Ph.D., University of Massachusetts-Amherst, 1996  
• Lloyd, Keith S. (2002), Associate Professor, Ph.D., University of Louisville, 1996  
• Lynch, Michael F. (1981), Associate Professor, Ph.D., Kent State University, 1985  
• Lyons, Janet L. (2010), Lecturer, M.A., Kent State University, 2011  
• Lyons, Jo-Leigh (1991), Senior Lecturer, M.A., Kent State University, 1996  
• M'Baye, Babacar (2006), Associate Professor, Ph.D., Bowling Green State University, 2002  
• Martinez, Ann M. (2014), Assistant Professor, Ph.D., University of Kansas, 2014  
• McVay, Christina M. (1981), Senior Lecturer, M.A., Kent State University, 1984  
• Mechenbier, Mahli X. (1996), Associate Lecturer, J.D., University of Akron, 2002  
• Metz, John (2010), Associate Lecturer, M.A., University of Toledo, 1985  
• Miller, Ryan T. (2014), Assistant Professor, Ph.D., Carnegie Mellon University, 2013  
• Miltner, Robert F. (1987), Professor, Ph.D., Kent State University, 1998  
• Mokros, Molly M. (2009), Lecturer  
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• Neaderhiser, Stephen E. (2009), Assistant Professor, M.A., University of Kansas, 2004  
• Neiderman, Beverly A. (1990), Senior Lecturer, M.A., Bowling Green State University, 1980  
• Newman, Sara J. (1998), Professor, Ph.D., University of Minnesota-Twin Cities, 1998  
• O’Connor, Varley (2007), Associate Professor, M.F.A., University of California-Irvine, 1989  
• Orr, Katherine M. (1990), Professor, Ph.D., Kent State University, 2010  
• Paulenich, Craig F. (1989), Professor, Ph.D., Bowling Green State University, 1989  
• Pfrenger, Andrew M. (2010), Assistant Professor, M.A., University of Connecticut, 2003  
• Pfrenger, Wendy (2010), Lecturer, M.A., University of Connecticut, 2003  
• Piccirillo-Smith, Linda A. (1983), Senior Lecturer, M.A., Kent State University, 1980  
• Powers, Marsha K. (2006), Associate Professor, Ph.D., Miami University, 1999  
• Precht-Byrd, Kristen (2000), Assistant Professor, Ph.D., Northern Arizona University, 2000  
• Prescott, Renate W. (1993), Associate Professor, Ph.D., Bowling Green State University, 1990  
• Raabe, Wesley (2008), Associate Professor, Ph.D., University of Virginia, 2006  
• Remley, Dirk R. (1990), Professor, Ph.D., Kent State University, 2010  
• Rilling, Sarah E. (2002), Associate Professor, Ph.D., Northern Arizona University, 1998  
• Rivers, J.L. (2006), Assistant Professor, Ph.D., Southern Illinois University-Carbondale, 2000  
• Robinson, Carol L. (2000), Associate Professor, Ph.D., University of Georgia, 1994  
• Roman, Christopher M. (1997), Associate Professor, Ph.D., University of Alabama, 2004  
• Rooks, Mary Ann (2005), Assistant Professor  
• Rozner, Debora L. (2010), Lecturer, M.Ed., George Washington University, 2004  
• Sainato, Susan M. (1987), Associate Professor, Ph.D., Kent State University, 2002
Department of Finance Faculty

- Sanders, Michael T. (1995), Assistant Professor, Ph.D., Kent State University, 2006
- Saylor, Derek J. (2012), Lecturer, M.A., University of Akron, 2012
- Schaufler, Charlene B. (1991), Associate Lecturer, M.A., Kent State University, 1994
- Schmitter, Thomas C. (1989), Lecturer, M.A., Youngstown State University, 1986
- Shaker, Bonnie (2013), Assistant Professor
- Shank, Matthew A. (1983), Associate Lecturer, M.A., University of Akron, 1982
- Shaw, Margaret L. (1993), Associate Professor, Ph.D., University of Pittsburgh, 1988
- Simpson, Barry H. (2009), Lecturer, M.Ed., Cleveland State University, 2001
- Sloan, Jay D. (2000), Associate Professor, Ph.D., Marquette University, 1999
- Smith, Brenda R. (2004), Associate Professor, Ph.D., Case Western Reserve University, 2003
- Smith, Jeanne R. (1985), Associate Lecturer, M.A., Binghamton University, State University of New York, 1986
- Stewart, Matthew R. (1998), Associate Lecturer, M.A., Kent State University, 1980
- Stoker, John B. (1974), Assistant Professor, M.A., Kent State University, 1977
- Sturr, Robert D. (1997), Associate Professor
- Takayoshi, Pamela D. (2004), Professor, Ph.D., Indiana University-Purdue University Indianapolis, 1995
- Trogdon, Robert W. (1997), Professor and Department Chair, Ph.D., University of South Carolina-Columbia, 1996
- Uhrig, Mindy D. (2006), Lecturer, M.A., University of Indiana-Bloomington, 1994
- Van Ittersum, Derek (2008), Associate Professor, M.A., Kent State University, 2003
- Vogel, Lauren A. (2001), Lecturer, M.A., Kent State University, 2005
- Walker, Cynthia A. (2015), Lecturer
- Wetzel, Ana M. (2007), Assistant Professor, Ph.D., Indiana University of Pennsylvania, 2011
- Willey, Nicole L. (1997), Associate Professor, Ph.D., University of Alabama, 2003
- Winebrenner, Kimberly C. (1982), Professor, Ph.D., Kent State University, 1991
- Wing, Catherine (2010), Associate Professor, M.F.A., University of Washington, 2004
- Winter, James P. (2008), Lecturer, M.F.A., Kent State University, 2012
- Wollenzien, Michele M. (2005), Lecturer, M.A.T., Kent State University, 2003
- Yoder, Kimberly A. (1988), Senior Lecturer, M.A., Kent State University, 1995
- Dumpe, David A. (1991), Associate Professor, Ph.D., Kent State University, 1996
- Muthuswamy, Jayaram (2007), Associate Professor, Ph.D., University of Chicago, 1990
- Pu, Xiaoling X. (2008), Associate Professor, Ph.D., University of Massachusetts-Amherst, 2008
- Shynkevich, Andrei (2009), Associate Professor, Ph.D., Louisiana State University, 2009
- Thornton, John H. (1999), Associate Professor, Ph.D., Georgia State University, 1999
- Via, Marc (2014), Assistant Professor, Ph.D., University of Alabama, 2014

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- Amey, Katherine S. (2009), Assistant Professor, Ph.D., Kent State University, 2011
- Curtis, Andrew J. (2012), Professor
- Curtis, Jacqueline W. (2012), Assistant Professor, Ph.D., Louisiana State University, 2005
- Haley, Mary Ann (1993), Assistant Professor
- Lee, Jay (1991), Professor, Ph.D., University of Western Ontario, 1989
- Mapes, Jennifer E. (2012), Assistant Professor, Ph.D., University of Southern California, 2009
- Muller, Keith D. (1990), Associate Professor
- Munro-Stasiuk, Mandy (1999), Professor, Ph.D., University of Alberta, 1999
- Parylak, Rebecca P (2008), Associate Professor, Ph.D., Texas State University, 2010
- Post, Christopher (2008), Associate Professor, Ph.D., University of Kansas, 2006
- Schmidlin, Thomas W. (1985), Professor, Ph.D., Cornell University, 1984
- Sheridan, Scott C. (2000), Professor, Ph.D., University of Delaware, 2000
- Smiley, Sarah L. (2010), Associate Professor, Ph.D., University of Kansas, 2007
- Turner, Victoria K. (2013), Assistant Professor, Ph.D., Arizona State University, 2013
- Tyner, James A. (1997), Professor, Ph.D., University of Southern California, 1995
- Widner, Emariana S. (2009), Associate Professor, Ph.D., Texas State University, 2009
- Ye, Xinyue (2013), Assistant Professor, Ph.D., San Diego State University, 2010

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- Clement, Susanne M. (1995), Associate Professor, Ph.D., Kent State University, 2005
- Green, Jeremy L. (2010), Assistant Professor, Ph.D., North Carolina State University, 2009
- Hacker, David B. (1989), Associate Professor, Ph.D., Kent State University, 1998
- Herndon, Elizabeth (2014), Assistant Professor
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- Beier, Lois J. (1985), Associate Professor, J.D., University of Akron, 1980
- Dennis, Steven A. (2014), Professor and Department Chair, Ph.D., University of Kentucky, 1993
Department of History Faculty
- Adams, Kevin J. (2006), Associate Professor, Ph.D., University of California-Berkeley, 2004
- Bindas, Kenneth J. (1995), Professor and Department Chair, Ph.D., University of Toledo, 1988
- Crawford, Matthew J. (2009), Assistant Professor, Ph.D., University of California-San Diego, 2009
- Diacon, Todd A. (2012), Professor and Senior Vice President for Academic Affairs and Provost, Ph.D., University of Wisconsin-Madison, 1987
- Grahn, Lance R. (2015), Campus Dean, Ph.D., Duke University
- Gruenwald, Kim M. (1995), Associate Professor, Ph.D., University of Colorado-Boulder, 1994
- Heaphy, Leslie Anne (1995), Associate Professor, Ph.D., University of Toledo, 1995
- Heiss, Mary Ann (1992), Associate Professor, Ph.D., The Ohio State University, 1991
- Hudson, Leonne M. (1983), Associate Professor, Ph.D., Kent State University, 1990
- Keefer, Bradley S. (1987), Associate Professor, Ph.D., Kent State University, 2006
- Li, Hongshan (1993), Professor, Ph.D., University of Missouri-Columbia, 1992
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- Steigmann-Gall, Richard A. (2000), Associate Professor, Ph.D., University of Toronto, 1999
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• Hogue, Randall L. (2012), Assistant Professor, Ph.D., Gallaudet University, 2011
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- Norton-Smith, Thomas M. (1985), Professor, Ph.D., University of Illinois-Urbana, 1988
- Odell-Scott, David W. (1990), Professor and Associate College Dean, Ph.D., Vanderbilt University, 1989
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- Driscoll, Donald D. (2007), Associate Professor, Ph.D., Case Western Reserve University, 2004
- Dzero, Maxim (2010), Assistant Professor
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- Margetis, Spyridon (1997), Professor, Ph.D., Goethe Universitat, 1991
- Minnick, Stephen A. (2003), Professor, Ph.D., Pennsylvania State University, 2003
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• Vazzana, John E. (1998), Associate Professor, Ph.D., University of Pittsburgh, 1994
• Warren, Deidre M. (2009), Associate Professor, Ph.D., Sam Houston State University, 2009
• Webster, Stephen W. (1983), Associate Professor, Ph.D., University of California-Riverside, 1983
• Wilson, Mary G. (1998), Associate Professor, Ph.D., Kent State University, 2010

School of Art Faculty
• Ball, Martin W. (1997), Associate Professor, M.A., Royal College of Art, 1973
• Buntin, Phillip D. (2006), Associate Professor, M.F.A., University of Connecticut, 2002
• Commito, Gianna E. (2005), Associate Professor, M.F.A., University of Iowa, 2003
• Dietrick, Kelly D. (1998), Lecturer, M.F.A., Savannah College of Art and Design, 2002
• Dorff, Juliann B. (1999), Senior Lecturer, M.A., Kent State University, 1998
• Ebanks, Davin (2005), Assistant Professor, M.F.A., Kent State University, 2010
• Farnsworth, Isabel (1997), Associate Professor, M.F.A., Kent State University, 1995
• Gasper-Hulvat, Marie (2013), Assistant Professor, Ph.D., Bryn Mawr College, 2012
• Hoeptner-Poling, Linda A. (1986), Associate Professor, M.A., Kent State University, 1985
• Johnson, Peter C. (2015), Assistant Professor, M.F.A., Pennsylvania State University, 2003
• Kan, Koon-Hwee (2003), Associate Professor, Ed.D., University of Illinois-Urbana, 2004
• Lessman-Moss, Janice (1981), Professor, M.F.A., University of Michigan-Ann Arbor, 1981
• Loderstedt, Michael J. (1982), Professor, M.F.A., Kent State University, 1985
• McMahon, Taryn (2014), Assistant Professor, M.A., University of Iowa, 2010
• McWhorter, Jack E. (1989), Associate Professor, M.A., Kent State University, 1983
• Medicus, Gustav F. (1989), Associate Professor, Ph.D., Indiana University-Bloomington, 1992
• Polo, Darice M. (2004), Associate Professor, M.F.A., University at Albany-SUNY, 1999
• Reischuck, Albert W. (1990), Associate Lecturer, M.A., Kent State University, 1991
• Salus, O. Carol (1984), Associate Professor, Ph.D., The Ohio State University, 1989
• Schatz, Mark K. (2010), Assistant Professor, M.F.A., University of Texas-Austin, 2005
• Scillia, Diane G. (1985), Professor, Ph.D., Case Western Reserve University, 1975
• Vande Zande, Robin S. (2001), Associate Professor, Ph.D. University of Wisconsin-Milwaukee, 2002
• Warner, John-Michael H. (2015), Assistant Professor, Ph.D., University of Arizona, 2015

School of Biomedical Sciences Faculty
• Dorff, Peter G. (1990), Associate Professor, M.B.A., University of Akron, 1982

School of Communication Studies Faculty
• Bacue, Aaron E. (2015), Assistant Professor, M.A., University of Delaware, 1999
• Beam, Michael A. (2014), Assistant Professor, Ph.D., The Ohio State University, 2012
• Bentley, Laurie S. (1994), Associate Lecturer, M.A., Kent State University, 1996
• Bihn-Coss, Ginger F. (2014), Assistant Professor, Ph.D., Bowling Green State University, 2003
• Cai, Bei (2002), Associate Professor
• Child, Jeffrey T. (2007), Associate Professor, Ph.D., North Dakota State University, 2007
• Cai, Bei (2005), Assistant Professor, M.F.A., Kent State University, 2010

School of Fashion Design and Merchandising Faculty
• Arnett, Joanne M. (2011), Lecturer, M.F.A., Kent State University, 2013
• Benitez, Margarita (2010), Assistant Professor, M.F.A., School of Art Institute of Chicago, 2008
• Bharduri, Gargi (2014), Assistant Professor, Ph.D., University of Missouri-Columbia, 2014
• Campbell, James R. (2009), Professor and School Director, Ph.D., University of California-Davis, 1996
• Chen, Chuanjun (2015), Assistant Professor
• Dancie, Paula K. (2003), Associate Lecturer, B.F.A., Miami University, 1980
• Ellington, Tameka N. (1995), Assistant Professor, M.A., Michigan State University, 2004
• Grieder, Trista L. (2010), Lecturer, M.S., Kaplan University, 2009
• Hahn, Kim H. (2011), Associate Professor, Ph.D., University of Nebraska-Lincoln, 2005
• Hauck, William E. (2000), Assistant Professor, M.A., Northeastern Illinois University, 1981
• Hume, Sara E. (2009), Associate Professor and Museum Curator, M.A., Fashion Institute of Technology, 2013
• Hwang, Ja Young (2015), Assistant Professor, Ph.D., Iowa State University, 2013
• Hyun, Jonghan (2010), Assistant Professor, M.S., University of Missouri-Columbia, 2007
School of Foundations, Leadership and Administration Faculty

- Kim, Jihyun (2013), Associate Professor, Ph.D., Iowa State University, 2004
- LaPolla, Kendra L. (2013), Assistant Professor, M.F.A., The Ohio State University, 2010
- Leslie, Catherine A. (2002), Associate Professor, Ph.D., The Ohio State University, 2002
- McLeod, Harriet J. (2011), Assistant Professor, Ph.D., Iowa State University, 2003
- Mehta, Archana (2001), Lecturer, B.A., Kent State University, 2002
- Ohrn, Linda M. (2004), Associate Professor, M.F.A., University of North Texas, 2003
- Palomo-Lovinski, Noel N. (2001), Associate Professor, M.F.A., Kent State University, 2009
- Perrine, William C. (2006), Associate Lecturer, M.A., Western Michigan University, 2004
- Quevedo, Vincent (2008), Associate Professor, M.A., University of Nebraska-Lincoln, 2004
- Rhodes, Barbara A. (2009), Associate Lecturer, B.F.A., University of Denver, 1968
- Snyder, Sara E. (2008), Assistant Professor, M.F.A., Kent State University, 2014
- Stanforth, Nancy F. (2000), Associate Professor, Ph.D., The Ohio State University, 1993
- Wachowiak, Marjorie (2012), Lecturer, M.S., Franklin University, 2011
- Yoder, Sue J. (2013), Assistant Professor, M.F.A., Syracuse University, 2008
- Young, Kim (2011), Lecturer and Director of New York City Studio, M.A., Columbia College Chicago, 2007

- Boske, Christa A. (2008), Associate Professor, Ed.D., Northern Illinois University, 2006
- Chuang, Ning Kuang (2005), Associate Professor, Ph.D., Texas Tech University, 2006
- Clark, Debra L. (1995), Associate Professor, Ph.D., Kent State University, 2003
- Damrow, Amy (2014), Assistant Professor, Ph.D., Michigan State University, 2011
- Dees, David M. (1991), Ph.D., Associate Professor, Kent State University, 2000
- Devine, Mary Ann (1997), Professor, Ed.D., University of Georgia, 1997
- Donnelly, Michele K. (2015), Assistant Professor
- Donnelly, Michelle K. (2015), Assistant Professor
- Eckert, Erica L. (2005), Assistant Professor and College Assistant Dean, Ph.D., Kent State University, 2012
- Eckert, Erica L. (1998), Assistant Professor and College Assistant Dean, Ph.D., Kent State University, 2012
- Gonzalez, Gloria L. (1998), Assistant Professor, Ph.D., University of Iowa, 1994
- Gornik, Rosemary (2003), Assistant Professor, Ph.D., Kent State University, 2003
- Hoegler, Edward M. (2008), Associate Lecturer, M.S., Johnson & Wales University-Charlotte, 1994
- Hoegler, Edward M. (2008), Associate Lecturer, M.S., Johnson & Wales University, 1994
- Israeli, Aviad A. (2012), Associate Professor, Ph.D., Kent State University, 1997
- Jindra-Parman, Jane M. (1990), Lecturer, M.A., Central Michigan University, 1986
- Karpinski, Aryn C. (2010), Assistant Professor, Ph.D., The Ohio State University, 2010
- Kretovics, Mark A. (2001), Associate Professor and Interim College Dean, Ph.D., Colorado State University, 1998
- Kretovics, Mark A. (2001), Associate Professor and College Interim Dean, Ph.D., Colorado State University, 1998
- Lara Hilton, Tracy M. (2008), Associate Professor, Ph.D., Idaho State University, 2004
- Lara Hilton, Tracy M. (2008), Assistant Professor, Ph.D., Idaho State University, 2004
- Lee, Seon Jeong (2014), Assistant Professor, Ph.D., University of Massachusetts-Amherst, 2014
- Lepp, Andrew P. (2004), Associate Professor, Ph.D., University of Florida, 2004
- Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 2001
- Li, Jian (2012), Assistant Professor, Ph.D., The Ohio State University, 2012
- Lyberger, Mark R. (1996), Associate Professor, Ph.D., The Ohio State University, 1996
- Merrill, Martha C. (2008), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1982
- Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
- Niesz-Kutsch, Tricia (2004), Associate Professor, Ph.D., University of Pennsylvania, 2003
- Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1992
- Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1992
- Ravichandran, Swathi (2002), Associate Professor, M.B.A., Iowa State University, 2002
- Ravichandran, Swathi (2005), Associate Professor, M.B.A., Iowa State University, 2002
- Schenker, Jason D. (2000), Associate Professor, Ph.D., Kent State University, 2007
- Schenker, Jason D. (2000), Associate Professor, Ph.D., Kansas State University, 2007
- Scheule, Barbara A. (1997), Associate Professor, Ph.D., Kansas State University, 1995
- Scheule, Barbara M. (1997), Associate Professor, Ph.D., Kansas State University, 1995
- Schimmel, Kimberly S. (1995), Professor and School Director, Ph.D., University of North Carolina-Greensboro, 1994
- Seeberg, Vilma (1989), Associate Professor
- Siler, Greta Y. (2004), Lecturer, M.S., Kent State University, 2007
- Ulicney, Mandy L. (2010), Lecturer, M.S., Kent State University, 2011
- Walton-Fisette, Theresa A. (2003), Associate Professor, Ph.D., University of Iowa, 2002
- Israeli, Aviad A. (2012), Associate Professor, Ph.D., Kent State University, 1997
- Jindra-Parman, Jane M. (1990), Lecturer, M.A., Central Michigan University, 1986
- Karpinski, Aryn C. (2010), Assistant Professor, Ph.D., The Ohio State University, 2010
- Kretovics, Mark A. (2001), Associate Professor and Interim College Dean, Ph.D., Colorado State University, 1998
- Kretovics, Mark A. (2001), Associate Professor and College Interim Dean, Ph.D., Colorado State University, 1998
- Lara Hilton, Tracy M. (2008), Associate Professor, Ph.D., Idaho State University, 2004
- Lara Hilton, Tracy M. (2008), Assistant Professor, Ph.D., Idaho State University, 2004
- Lee, Seon Jeong (2014), Assistant Professor, Ph.D., University of Massachusetts-Amherst, 2014
- Lepp, Andrew P. (2004), Associate Professor, Ph.D., University of Florida, 2004
- Levinson, Natasha (1997), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 2001
- Li, Jian (2012), Assistant Professor, Ph.D., The Ohio State University, 2012
- Lyberger, Mark R. (1996), Associate Professor, Ph.D., The Ohio State University, 1996
- Merrill, Martha C. (2008), Associate Professor, Ph.D., University of Michigan-Ann Arbor, 1982
- Mulrooney, Aaron L. (1992), Associate Professor, J.D., University of Akron, 1990
- Niesz-Kutsch, Tricia (2004), Associate Professor, Ph.D., University of Pennsylvania, 2003
- Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1992
- Parr, Mary G. (1992), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1992
- Ravichandran, Swathi (2002), Associate Professor, M.B.A., Iowa State University, 2002
- Ravichandran, Swathi (2005), Associate Professor, M.B.A., Iowa State University, 2002
- Schenker, Jason D. (2000), Associate Professor, Ph.D., Kent State University, 2007
- Schenker, Jason D. (2000), Associate Professor, Ph.D., Kansas State University, 2007
- Scheule, Barbara A. (1997), Associate Professor, Ph.D., Kansas State University, 1995
- Scheule, Barbara M. (1997), Associate Professor, Ph.D., Kansas State University, 1995
- Schimmel, Kimberly S. (1995), Professor and School Director, Ph.D., University of North Carolina-Greensboro, 1994
- Seeberg, Vilma (1989), Associate Professor
- Siler, Greta Y. (2004), Lecturer, M.S., Kent State University, 2007
- Ulicney, Mandy L. (2010), Lecturer, M.S., Kent State University, 2011
- Walton-Fisette, Theresa A. (2003), Associate Professor, Ph.D., University of Iowa, 2002
School of Health Sciences Faculty

- Wang, Philip C. (1990), Associate Professor, Ph.D., Pennsylvania State University, 1991
- Yim, Hyong Il (2015), Assistant Professor, Ph.D., University of Georgia, 2015

School of Health Sciences Faculty
- Arnold, Hayley S. (2010), Assistant Professor, Ph.D., Vanderbilt University, 2007
- Audet, Lisa R. (1995), Assistant Professor, Ph.D., Kent State University, 2000
- Axiotis, Irene R. (1985), Associate Professor, Ph.D., Kent State University, 1996
- Backus, Angela S. (2003), Assistant Professor, Ph.D., Kent State University, 2010
- Barkley, Jacob E. (2006), Associate Professor, Ph.D., State University, 2007
- Berk, Lynn V. (2008), Associate Lecturer, M.A., Cleveland State University, 1981
- Bernert, Donna J. (2007), Assistant Professor, Ph.D., Southern Illinois University, 2005
- Blakely-Adams, Carmen M. (2007), Lecturer, M.Ed., Cleveland State University, 2004
- Burke, Amanda J. (2000), Assistant Professor, Ph.D., Kent State University, 2015
- Burzminski, Nancy H. (2001), Associate Professor, Ph.D., Saint Mary’s University, 2003
- Caine-Bish, Natalie L. (1997), Associate Professor, Ed.D., Kent State University, 2002
- Chinn, Lisa (2012), Assistant Professor, Ph.D., University of Virginia, 2012
- Ding, Kele (2005), Associate Professor, Ph.D., Indiana University-Bloomington, 2000
- Falcone, Tanya R. (2007), Lecturer, M.S., Kent State University, 2009
- Forbes, Myrna A. (1998), Associate Lecturer, Au.D., University of Florida, 2005
- Glickman, Ellen L. (1995), Professor, Ph.D., University of Pittsburgh, 1988
- Gordon, Karen R. (1988), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1988
- Grogan-Johnson, Susan L. (1988), Associate Professor, Ph.D., Kent State University, 1993
- Ha, Eun-Jeong (2004), Associate Professor, Ph.D., The Ohio State University, 1999
- Hale, Catherine C. (2000), Associate Lecturer, M.S., Indiana University-Bloomington, 1995
- Hawks, John W. (1991), Associate Professor, Ph.D., Washington University in St. Louis, 1990
- Huston, Jeffrey L. (2007), Associate Lecturer
- Huyck, Julia J. (2013), Assistant Professor, Ph.D., Northwestern University, 2010
- Kerr, Dianne L. (1988), Professor, Ph.D., The Ohio State University, 1992
- Kingsley, James D. (2013), Assistant Professor, Ph.D., Florida State University, 2009
- Krumm, Mark P. (2005), Associate Professor, Ph.D., Wichita State University, 1990
- Malone, Megan (2012), Lecturer, M.A., Case Western Reserve University, 2000
- Matthews, Jamie C. (2014), Lecturer, M.S., Kent State University, 2004
- McDaniel, John (2011), Assistant Professor, Ph.D., University of Utah, 2009
- Miracle, Amy L. (2012), Assistant Professor, Ph.D., University of Nevada-Las Vegas, 2013
- Mitchell, Pamela R. (1993), Associate Professor, Ph.D., University of Wisconsin-Madison, 1988
- O’Flannigan, Cara M. (2016), Lecturer, M.A., Case Western Reserve University, 2007
- Peer, Kimberly S. (1999), Associate Professor, Ed.D., University of Akron, 2001
- Reed, Ashley (2009), Associate Lecturer, M.S., University of Kentucky, 2009
- Ridgel, Angela L. (2008), Associate Professor, Sc.D., Marshall University, 2000
- Roche, Jennifer M. (2014), Assistant Professor, Ph.D., University of Memphis, 2011
- Rowan, Lynne E. (1994), Associate Professor and School Director, Ph.D., Purdue University, 1982
- Schmidt, Anna M. (1994), Associate Professor, Ph.D., University of Florida, 1988
- Sharp, David E. (2015), Assistant Professor, Ph.D., Cornell University, 2015
- Tribuzi, Scot B. (2006), Senior Lecturer, Ph.D., Kent State University, 2015
- Vaughn, Amy L. (2012), Lecturer, M.A., Case Western Reserve University, 1995
- Visker, Jennifer N. (2016), Lecturer, M.A., Case Western Reserve University, 2001
- Wagner, Laurie M. (1997), Assistant Professor, Ph.D., Kent State University, 2008

School of Journalism and Mass Communication Faculty

- Bailey, Evan B. (2003), Assistant Professor, M.A., Kent State University, 2009
- Bowen, Candace P. (1995), Associate Professor, M.A., Northern Illinois University, 1980
- Coombs, Danielle S. (2007), Associate Professor, Ph.D., Louisiana State University-Baton Rouge, 2007
- Dworzynski, Gretchen J. (2015), Assistant Professor, Ph.D., Kent State University, 2008
- Ewing, Michele E. (2002), Associate Professor, M.A., Kent State University, 1989
- Foster, David A. (2014), Assistant Professor, M.A., Kent State University, 2014
- Fruit, Jeffrey W. (1998), Professor, M.A., The Ohio State University, 1977
- Goodman, S. Mark (2008), Professor, J.D., Duke University, 1985
- Idsvoog, Karl A. (2004), Associate Professor
- Lambert, Cheryl A. (2016), Assistant Professor
School of Library and Information Science Faculty

- Leach, Janet C. (2003), Associate Professor, M.A., Kent State University, 2006
- Marino, Jacqueline A. (1990), Associate Professor, M.A., Johns Hopkins University, 2002
- McKenney, Mitchell J. (2001), Associate Professor, M.B.A., Kent State University, 2008
- Moore, Stefanie A. (2001), Associate Professor, M.S., Kent State University, 2007
- Murray, Gordon J. (1982), Associate Professor, Ph.D., Kent State University, 1998
- Roberts, Timothy A. (2003), Lecturer, M.A., Kent State University, 2010
- Schultz, Connie M. (2016), Professional in Residence, B.A., Kent State University, 1979
- Shelton, Eugene Jr. (2001), Professor, M.A., Kent State University, 2004
- Sledzik, William E. (1992), Associate Professor, M.S., University of New York at Buffalo, 1992
- Smeltzer, David F. (2005), Associate Professor, M.F.A., Ohio University, 2007
- Smith, Stephanie D. (2012), Assistant Professor, M.P.A., Harvard University, 1994
- Wasbotten, Thor L. (2012), Professor and School Director, M.S., University of Oregon, 1995
- Williams, Traci E. (1999), Senior Lecturer, L.S.M., Kent State University, 2005
- York, Chance A. (2014), Assistant Professor, Ph.D., Louisiana State University-Baton Rouge, 2014
- Zake, Susan K. (2007), Assistant Professor, M.A., Kent State University, 2011

School of Lifespan Development and Educational Sciences Faculty

- Albritton, Kizzy (2014), Assistant Professor, Ph.D., Georgia State University, 2014
- Alexander, Donna C. (2008), Lecturer, B.A., Kent State University, 1992
- Anhalt, Karla (2003), Associate Professor, Ph.D., West Virginia University, 2000
- Balan, Christine M. (1986), Professor, Ph.D., Kent State University, 1994
- Barber, Brian R. (2013), Assistant Professor, Ph.D., Kent State University, 2014
- Barton, Lyle (1984), Professor, Ed.D., Northern Illinois University, 1981
- Bedesem, Pena L. (2010), Assistant Professor, Ph.D., University of Central Florida, 2010
- Bergh, Kathleen A. (2000), Associate Lecturer, M.Ed., University of Akron, 1985
- Blankemeyer, Maureen S. (1996), Associate Professor, Ph.D., Oklahoma State University, 1996
- Burgess, Sloan R. (2008), Associate Professor, Ph.D., Case Western Reserve University, 2007
- Byrd, Janice (2016), Assistant Professor, Ph.D., The University of Iowa, 2016
- Chen, Ching-I (2014), Assistant Professor
- Cichy, Kelly E. (2008), Associate Professor, Ph.D., Pennsylvania State University, 2007
- Cimera, Robert E. (2007), Professor, Ph.D., University of Illinois-Urbana-Champaign, 1998
- Cowan, Richard J. (2003), Associate Professor, Ph.D., University of Nebraska, 2003
- Cox, Jane A. (2007), Associate Professor, Ph.D., Kent State University, 1997
- Cureton, Jenny (2016), Assistant Professor, Ph.D., University of Northern Colorado, 2016
- Curry, Dale H. (1988), Professor, Ph.D., Kent State University, 1997
- Dellmann-Jenkins, Mary M. (1981), Professor and School Director, Ph.D., University of Wisconsin-Madison, 1982
- Ferdig, Richard (2009), Professor, Ph.D., Michigan State University, 2000
- Guilhot-Miller, Lynne M. (2003), Associate Professor, Ph.D., University of New Orleans, 2003
- Hallaman, Lisa M. (2007), Associate Lecturer, M.A., Kent State University, 1996
- Harjusola-Webb, Sanna M. (2006), Associate Professor, Ph.D., University of Kansas, 2006
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- Hines, Laura A. (2000), Assistant Professor, Ph.D., Indiana University-Bloomington, 2000
- Ingram, Albert L. (1996), Associate Professor, Ph.D., Arizona State University, 1984
- Jencius, Martin J. (2000), Associate Professor, Ph.D., University of South Carolina, 1996
- Kenyon, Cynthia (2009), Lecturer, M.Ed., Kent State University, 2010
- Kritzer, Karen (2007), Associate Professor, Ph.D., University of Pittsburgh, 2007
- Kuo, Chia-Ling (2005), Associate Professor, Ph.D., Ohio University, 2005
- Liou, Chih-Ling (2014), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2011
- Luft, Pamela J. (1995), Associate Professor, Ph.D., University of Illinois-Urbana-Champaign, 1995
- McCartney, Jamie L. (2007), Assistant Professor, Ph.D., University of Akron, 2004
- McGlothlin, Jason M. (2000), Associate Professor, Ph.D., Ohio University, 2001
- McLoughlin, Caven S. (1981), Professor, Ph.D., University of Utah, 1981
- McWilliams-Woods, Wendy (1984), Assistant Professor, M.Ed., Kent State University, 1988
- Miller, Jennifer (2016), Lecturer, M.Ed., Kent State University, 2016
- Moore, Alma J. (2012), Lecturer, M.Ed., Malone University, 2004
- Morris, Bradley J. (2012), Associate Professor, Ph.D., The Ohio State University, 1998
- Morrison, Anne B. (1993), Professor, Ph.D., Kent State University, 2001
- Morsefield, Rebecca H. (1998), Associate Lecturer, M.Ed., Kent State University, 1997
- Mupinga, Emily E. (2008), Lecturer, M.S., Louisiana State University-Baton Rouge, 1999
- Novak, Elena (2015), Assistant Professor, Ph.D., Florida State University, 2012
- Osborn, Cynthia J. (1997), Professor, Ph.D., Ohio University, 1996
- Page, Betsy J. (1996), Associate Professor, Ed.D., University of Maine, 1996
- Pieper, Alicia (1969), Assistant Professor, M.A., Kent State University, 1968
- Rainey, John S. (2002), Assistant Professor, Ph.D., Texas A&M University, 2001
- Richardson, Rhonda A. (1984), Professor, Ph.D., Pennsylvania State University, 1984
- Rumrill, Phillip D. (1996), Professor, Ph.D., University of Arkansas, 1983
- Sansosti, Frank J. (2006), Associate Professor, Ph.D., University of South Florida, 2005
- Smith, Gregory C. (2001), Professor, Ph.D., University of Rochester, 1983
- Stevenson, Nathan (2015), Assistant Professor, Ph.D., University of Rochester, 2015
- Storlie, Cassandra A. (2013), Assistant Professor, Ph.D., Michigan State University, 2013
- Tankersley, Melody J. (1993), Professor and Senior Associate Provost, Ph.D., University of Virginia, 1992
- Tobias, Scott A. (2009), Assistant Professor, D.Sc., University of Missouri, 2009
- Toepfer, Steven M. (2004), Associate Professor, Ph.D., The Ohio State University, 2001
- Walker, Kathleen K. (2002), Associate Professor, Ph.D., Kansas State University, 2002
- Wiley, Andrew L. (2008), Associate Professor, Ed.D., University of Virginia, 2008
- Wisdom, Sonya L. (2012), Assistant Professor, Ph.D., Kent State University, 2010

School of Music Faculty

- Albrecht, Theodore J. (1992), Professor, Ph.D., University of North Texas, 1975
- Anderson, Ian (2015), Assistant Professor, M.F.A., Middle Tennessee State University, 2009
- Berg, Marla (2009), Assistant Professor
- Birch, Sebastian A. (2006), Associate Professor, Ph.D., Cleveland Institute of Music, 1997
- Brown, Dana A. (1984), Associate Professor, M.M., Kent State University, 1986
- Chunn, Michael W. (1983), Professor
- Culver, Timothy M. (1999), Associate Professor, M.M., Kent State University, 2002
- Devere, Richard O. (1983), Associate Professor, Ph.D., University of Iowa, 1985
- Dressler, Jane K. (1987), Professor, Ph.D., University of North Carolina-Greensboro, 1989
- Fowler, Krishna (2015), M.M., Assistant Professor, Juilliard School of Music, 1995
- Franklin, John D. (2013), Assistant Professor, Ph.D., Indiana University-Bloomington, 2007
- Fucci, Melissa D. (2002), M.M., Assistant Professor, Kent State University, 2009
- Johnstone, Jennifer L. (2002), Assistant Professor, Ph.D., Kent State University, 2012
- Larmee, Kent D. (1989), Associate Professor, M.M., The Ohio State University, 1981
- Latshaw, Charles W. (2013), Assistant Professor, Ph.D., Indiana University-Bloomington, 2014
- Lee, Donna (1999), Professor, Ph.D., Johns Hopkins University, 1999
- Leyva, Jesse (2013), Associate Professor
- Lorenz, Ralph (1997), Associate Professor, M.A., California State University-Long Beach, 1984
- MacPherson, Scott A. (2008), Professor, D.M.A., University of Southern California, 1992
- McCloskey, Diane L. (1991), Associate Professor, M.M., University of Cincinnati, 1983
- McPherson, Eve (2011), Assistant Professor, Ph.D., University of California-Santa Barbara, 2009
- Mitchell, David E. (2001), Assistant Professor
- Mukuna, Kazadi W. (1989), Professor
- Nanongkham, Priwan (1998), Assistant Professor, Ph.D., Kent State University, 2011
- Resta, Craig M. (2008), Associate Professor, Ph.D., University of Maryland-University College, 2008
- Robinson, Cathy M. (2003), Assistant Professor
- Robinson, Keith H. (2003), Assistant Professor
School of Peace and Conflict Studies Faculty

- Bleak, Jaquelyn K. (2012), Assistant Professor, Ph.D., Kent State University
- Bortz, William P. (2004), Professor
- Burghart, Lisa (2007), Associate Professor, Ph.D., Iowa University
- Burdick, Jane (2004), Associate Professor
- Buya, Patricia A. (2008), Assistant Professor, Ph.D., Kent State University
- Caniglia, Joanne C. (2007), Associate Professor, Ph.D., Kent State University
- Carnagey, J. L. (2005), Assistant Professor, Ph.D., Kent State University

School of Teaching, Learning and Curriculum Faculty

- Rounds, Theodore P. (1995), Associate Professor, B.M., University of Rochester, 1978
- Seachrist, Denise A. (1988), Professor and Campus Dean, Ph.D., Kent State University, 1993
- Seeds, Laurel M. (2000), Associate Professor, M.M., Kent State University, 1986
- Selvaggio, Robert (2010), Assistant Professor, B.M., Kent State University, 1992
- Shahriari, Andrew C. (1993), Associate Professor, M.M., Kent State University, 2001
- Sundet, Danna S. (2002), Assistant Professor, M.M., Kent State University, 2002
- Venesile, Christopher J. (2010), Assistant Professor
- Walker, Linda B. (1990), Professor, Ph.D., University of Kansas, 1983
- White, Jay G. (2011), Associate Professor
- Wong, Jerry T. (2003), Associate Professor, Ph.D., Manhattan School of Music, 2002
- Hawley, Todd (2008), Associate Professor, Ph.D., University of Georgia, 2008
- Henderson, James G. (1990), Professor, Ed.D., Stanford University, 1980
- Heron, Michele L. (2004), Assistant Professor, Ph.D., Kent State University, 2010
- Hollstein, Matthew S. (2015), Assistant Professor, Ph.D., Ohio University, 2015
- Hostler, Rochelle (2008), Lecturer, B.S., Kent State University, 2000
- Hutchins, Pamela K. (1993), Lecturer, M.Ed., Kent State University, 1992
- Irving, Sonya E. (2013), Assistant Professor, Ph.D., University of Illinois-Urbana-Champaign, 2014
- Kenyon, Elizabeth (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- Kidder, Melanie K. (1995), Associate Lecturer, M.A., California State University-San Marcos, 2004
- Kim, Insook (2012), Assistant Professor, Ph.D., The Ohio State University, 2011
- Kist, William (1992), Professor, Ph.D., Kent State University, 1999
- Knapp, Kathryn A. (2007), Assistant Professor, Ph.D., Kent State University, 2013
- Kosko, Karl W. (2012), Assistant Professor, Ph.D., Virginia Polytechnic Institute and State University, 2010
- Kroeger, Janice (2002), Associate Professor, M.S., Eastern Illinois University, 1990
- Lash, Martha J. (2003), Associate Professor, M.S., Indiana University-Bloomington, 2004
- Miller-Marsh, Monica A. (2012), Associate Professor, Ph.D., University of Wisconsin-Madison, 1997
- Mitchell, Stephen A. (1992), Associate Professor, Ph.D., Syracuse University, 1992
- Monobe, Gumiko (2010), Assistant Professor
- Morgan, Denise N. (2004), Associate Professor
- Mulvey, Bridget K. (2012), Assistant Professor, Ph.D., University of Virginia, 2012
- Mupinga, Davison M. (2008), Associate Professor, Ph.D., Louisiana State University-Baton Rouge, 1999
- Myers, Casey Y. (2009), Assistant Professor, Ph.D., Kent State University, 2015
- Nurnberger-Haag, Julie (2015), Assistant Professor, Ph.D., Michigan State University, 2015
- O'Connor, Patrick J. (1988), Associate Professor, Ed.D., Virginia Polytechnic Institute and State University, 1982
- Pytash, Kristine E. (2006), Assistant Professor, Ph.D., Kent State University, 2009
- Rasinski, Timothy V. (1988), Professor, Ph.D., The Ohio State University, 1985
- Raven, Sara P. (2013), Assistant Professor, Ph.D., University of Georgia, 2013
- Sandmann, Alexa L. (2004), Professor and School Director, Ed.D., University of Cincinnati, 1990
- Sato, Takahiro (2010), Associate Professor
- Stoll, Julia A. (2000), Associate Professor, Ph.D., Kent State University, 2015

School of Teaching, Learning and Curriculum Faculty

- Bedrosian, Wendlyn K. (1998), Assistant Professor, Ph.D., Kent State University, 2004
- Bintz, William P. (2004), Professor
- Borgerding, Lisa (2007), Associate Professor, Ph.D., Indiana University-Bloomington, 2007
- Caniglia, Joanne C. (2008), Associate Professor, Ph.D., Kent State University, 1994
- Courtney, Scott A. (2010), Assistant Professor, Ph.D., Arizona State University, 2010
- Crowe, Alicia R. (2001), Professor, Ph.D., Vanderbilt University, 2001
- Dever, Robin (2007), Ph.D., Assistant Professor, Kent State University, 2008
- Dowdy, Joanne K. (2001), Professor, Ph.D., University of North Carolina-Chapel Hill, 1997
- Froehlich, Larry G. (2002), Associate Professor, Ed.D., West Virginia University, 1984
- Gershon, Walter S. (2006), Associate Professor, Ph.D., University of California-Riverside, 2007
- Gorecky, Jennifer J. (2011), Assistant Professor, O.D., University of South Carolina, 2000
- Gruhler, Danielle M. (1999), Associate Professor, Ph.D., Kent State University, 2004
School of Theatre and Dance Faculty

- Testa, Elizabeth A. (2013), Associate Professor, Ph.D., University of Akron, 2014
- Turner, Steven L. (2005), Associate Professor, Ph.D., University of Virginia, 2005
- Walton-Fisette, Jennifer L. (2008), Associate Professor, Ed.D., University of Massachusetts-Amherst, 2008
- Wilfong, Lori G. (2002), Associate Professor, Ph.D., Kent State University, 2006
- Zimmerman, Belinda S. (1992), Associate Professor, Ph.D., Kent State University, 2003

School of Visual Communication Design Faculty

- Auld, William I. (2010), Assistant Professor, M.F.A., Northern Illinois University, 2005
- Bauer, Kerry J. (2014), Assistant Professor, M.F.A., Ohio University, 2007
- Black, Maryann P. (2002), Assistant Professor, M.F.A., Kent State University, 2007
- Brown, Courtney (2014), Assistant Professor, M.F.A., University of Southern Mississippi, 2008
- Campbell, Sharon S. (1989), Associate Professor, M.F.A., The Ohio State University, 1982
- Crawford-Spinelli, John R. (1988), Professor and College Dean, Ed.D., Temple University, 1989
- Drasher, Nicholas D. (2015), Assistant Professor, M.F.A., University of California-San Diego, 2012
- Fritsche, Amy (2013), Assistant Professor, M.F.A., San Diego State University, 2010
- Huya, Natalie J. (2003), Assistant Professor, M.A., Villanova University, 2001
- Kent, Therese J. (1991), Professor, M.F.A., Michigan State University, 1987
- Kildow, Eric S. (2015), Assistant Professor, M.F.A., Savannah College of Art and Design, 2009
- Korecki, Jennifer S. (2012), Assistant Professor, M.M., Kent State University, 1996
- Kurahashi, Yuko (2001), Associate Professor, Ph.D., Indiana University-Bloomington, 1996
- Meggitt, Joan (2005), Assistant Professor, M.F.A., Case Western Reserve University, 1999
- Nadon, Daniel R. (1993), Professor, Ph.D., University of Colorado-Boulder, 1993
- Newberg, Brian S. (2010), Assistant Professor, M.F.A., University of California-Irvine, 1999
- Pauna, Steven R. (2013), Associate Professor, M.F.A., Kent State University, 2000
- Polanco, Fabio J. (2009), Associate Professor, M.F.A., Case Western Reserve University, 1997
- Rockland, Jeffrey M. (2015), Associate Professor, M.F.A., University of California-Irvine, 1992
- Seo, Jakyung (2009), Associate Professor, M.F.A., University of Illinois-Urbana-Champaign, 2004
- Seo, Jakyung (2009), Associate Professor, M.F.A., University of Illinois-Urbana-Champaign, 2004
- Stillings, Cynthia R. (1992), Professor, M.F.A., University of Wisconsin-Madison, 1988
- Swoboda, Jonathan F. (2008), Associate Professor, M.M., University of Nebraska-Omaha, 1997
- Van Baars, Frans E. (1993), Associate Professor, M.F.A., Kent State University, 2002
- Verlezza, Barbara A. (2002), Associate Professor, M.F.A., Northern Illinois University, 2005

School of Aeronautics (AERN)

AERN 15000  INTRODUCTION TO AERONAUTICS  3 Credit Hours

Introduction to aeronautical and aerospace technology, including historical development, underlying science and technical applications. The past, present and future social, economic, technical and political impact of aviation are also explored.

Prerequisite: none.

Schedule Type: Lecture

Contact Hours: 3 lecture

Grade Mode: Standard Letter
AERN 15250  FAA ORIENTATION  3 Credit Hours
Introduction to the Federal Aviation Administration with particular emphasis on its role and impact on air traffic management and the National Airspace System (NAS). Course addresses the unique aspects and requirements of federal employment, as well as federal regulations affecting flight operations and the FAA’s associated supporting agencies.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 15300  INTRODUCTION TO ENGINEERING ANALYSIS USING MATLAB®  3 Credit Hours
Introduction to basic concepts in engineering analysis using the Matlab® computing language, the industry-standard “first language” for engineers. Introduction to problem solving, algorithm coding and development, debugging, analysis and interpretation.
Pre/corequisite: MATH 12002.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

AERN 15500  INTRODUCTION TO AEROSPACE ENGINEERING  3 Credit Hours
fundamentals of fluid mechanics, applied aerodynamics, propulsion systems, airplane performance, stability, orbital motion, and launch vehicle performance.
Prerequisite: MATH 12002.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 15740  ELEMENTS OF FLIGHT THEORY  5 Credit Hours
Basic instruction in all areas which gives the student aeronautical knowledge required for a private pilot certificate.
Corequisite: AERN 15741.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter-IP

AERN 15741  PRIVATE PILOT FLIGHT  3 Credit Hours
Flight course designed to fulfill FAA requirements for private pilot certificate. This course may be repeated only twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirement of 30 hours of ground instruction has been attained. When not flying, the student goes through personalized ground instruction with the flight instructor. Minimum FAA flight time requirements towards the private pilot certificate is 48 hours. Actual flight training may exceed 48 hours. Special course fees may apply. Please visit www.kent.edu/acs/flighttechnology and click on the Flight Course Fees link for more information. Students must obtain Student Pilot Certificate prior to starting course. Students must also have and maintain valid medical and TSA approval prior to starting course.
Prerequisite: minimum 2.500 overall GPA; and must be a Flight Technology (FLGT) concentration within the Aeronautics (AERN) major.
Corequisite: AERN 15740.
Schedule Type: Flight Training
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

AERN 15742  PRIVATE PILOT HELICOPTER FLIGHT  3 Credit Hours
Flight course designed to fulfill Federal Aviation Administration (FAA) requirements for the private pilot helicopter certificate. This course may only be repeatable twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Minimum FAA flight time requirements towards the Private Pilot Helicopter Flight Certificate is 40 hours. Actual flight training may exceed 40 hours. Students must obtain Student Pilot Certificate prior to starting course. Students must also have and maintain valid medical and TSA approval prior to starting course.
Prerequisite: 2.500 cumulative GPA; and AERN 15740; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 35101.
Schedule Type: Flight Training
Contact Hours: 5.5 other
Grade Mode: Standard Letter-IP

AERN 15743  PRIVATE PILOT HELICOPTER FLIGHT ADD-ON  2 Credit Hours
Flight course designed to fulfill Federal Aviation Administration (FAA) requirements for the private pilot helicopter certificate. This course may be repeatable twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Minimum FAA flight time requirements towards the Private Pilot Helicopter Flight Certificate is 40 hours. Actual flight training may exceed 30 hours.
Prerequisite: 2.500 cumulative GPA; and AERN 15740 and 15741; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 35101.
Schedule Type: Flight Training
Contact Hours: 4.86 other
Grade Mode: Standard Letter-IP

AERN 15745  NON-PILOT ELEMENTS OF FLIGHT THEORY  3 Credit Hours
Basic instruction in areas to include: Federal Regulations, navigation, communication, airspace, weather, basic aerodynamics, and aero-medical factors which give the student a foundation in aeronautics. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for a the private pilot nor does it satisfy the Aircraft Dispatch minor.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 20000  PROFESSIONAL DEVELOPMENT IN AERONAUTICS I  1 Credit Hour
The course will provide an overview of the current state of the aeronautics industry while preparing students for various internship and scholarship opportunities. Students will begin preparation for a career in the aeronautics industry by establishing a professional foundation in the areas of career planning and goal setting.
Prerequisite: aeronautics (AERN) major and sophomore standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter
AERN 25200  STATICS  2 Credit Hours
Forces and moments; equilibrium in two and three dimensions; multi-force members; equilibrium, centroids and friction.
Prerequisite: MATH 12003 and PHY 23101.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 25250  ELEMENTS OF AVIATION WEATHER  3 Credit Hours
Aviation weather provides a comprehensive look at the Earth's atmosphere, general patterns and specific phenomena, and a focus on weather as related to flight.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25251  WEATHER INFORMATION SYSTEMS  3 Credit Hours
Introduction to various weather sensing equipment and the systems that deliver weather information to various users. An in-depth look at the National Weather Service, NOAA, NASA, FAA and commercially available weather information systems.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25252  THUNDERSTORMS AND SEVERE WEATHER  3 Credit Hours
Analysis and forecast of thunderstorm and severe convective weather activity development and movement. Analysis of atmospheric information and clouds, radar, computer models, and charts. A study of mid-latitude cyclones and some focused study on tropical depressions, hurricanes, tornadoes, dust and sand storms. Study includes georaphic effects and cyclone life cycles. Provides an in-depth look at the development of severe weather products for aviation such as AIRMET, SIGMET and Convective SIGMET.
Prerequisite: GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25350  FUNDAMENTALS OF AIR TRAFFIC CONTROL  2 Credit Hours
Introduction to the National Airspace System (NAS) and the orders, manuals, and procedures associated with the purposes and directives of the air traffic control environment. Introduces and discusses those areas of required knowledge of the AT-Basics needed to become an Air Traffic Controller. These topics include the principles of flight, the FARs, navigation, aviation weather and other ATC related areas.
Prerequisite: aeronautics (AERN) major.
Corequisite: AERN 25351.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 25351  FUNDAMENTALS OF AIR TRAFFIC CONTROL LABORATORY  1 Credit Hour
Introductory laboratory course on air traffic management and the National Airspace System, the orders, manuals and procedures associated with the purposes and directives of the air traffic control environment. To include purposes and responsibilities of the ATC system.
Prerequisite: aeronautics (AERN) major.
Corequisite: AERN 25350.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 25400  DYNAMICS  3 Credit Hours
Kinematics and kinetics of rigid bodies in planar motion and an introduction to the kinematics and kinetics of rigid bodies in three-dimensional motion.
Prerequisite: AERN 25200 and MATH 12003.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25500  AERODYNAMICS FOR ENGINEERS  3 Credit Hours
Basic fluid dynamics concepts, conservation laws, potential, airfoil and wing analysis. Boundary layers on plates and airfoils. Pressure gradients. Introduction to turbulent and vortex-dominated flows.
Prerequisite: AERN 15500 and MATH 22005.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 25743  COMMERCIAL PILOT FLIGHT I  2 Credit Hours
Advanced flight course providing flight instruction for the commercial pilot. Primary emphasis is on cockpit resource management, advanced navigational practices and basic instrument instruction. This course may be repeated only twice. Student is required to spend two hours daily, three days a week, at the airport until the FAA minimum requirement of 20 hours ground instruction has been attained. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees may apply. Please visit www.kent.edu/caest/flight-tech for more information.
Prerequisite: AERN 15740 and AERN 15741; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 25740.
Schedule Type: Flight Training
Contact Hours: 2 other
Grade Mode: Standard Letter

AERN 25800  INTRODUCTION TO UNMANNED AIRCRAFT SYSTEMS  3 Credit Hours
An overview of unmanned aircraft systems. Course topics include the history, development, and evolution of unmanned aircraft; current and forecast trends and issues; capabilities and performance of unmanned aircraft; UAS applications; regulations governing unmanned aircraft systems; unmanned aircraft flight operations; and opportunities and career paths in unmanned aircraft systems.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
AERN 30000  PROFESSIONAL DEVELOPMENT IN AERONAUTICS II  1 Credit Hour
The course will build upon the lessons learned in Professional Development in Aeronautics I by providing direct opportunities for interviewing and networking with professionals working in the aeronautics industry. Students will continue preparation for a career in the aeronautics industry by revising and implementing their career plan and goals.
Prerequisite: AERN 20000; and junior standing.
Schedule Type: Seminar
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AERN 35021  AIRCRAFT FABRICATION  3 Credit Hours
The study and laboratory practice of government approved procedures used in the fabrication, repair and testing of certificated aircraft.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35020  AIRCRAFT PROPULSION SYSTEMS  3 Credit Hours
A study of basic reciprocating and gas turbine engine theory. Course investigates powerplant construction, component function, including propeller and fuel systems, ancillary systems that support aircraft propulsive systems and performance characteristics.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35021  RADAR SATELLITE WEATHER INFORMATION  3 Credit Hours
A study of satellite and radar imagery. A focus on both passive and active remote sensing systems. Student develops an understanding of the properties of meteorological radar sensing, signal propagation and estimating precipitation. Provides an in-depth look at radar and satellite products and their application to aircrew operations. Emphasis is placed on real-time identification of weather phenomena affecting a flight in progress.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35022  WEATHER STRATEGY FOR AIRCREWS  3 Credit Hours
A study of various weather conditions to include low ceilings and visibility, turbulence, cold weather, thunderstorms, and wind shear. An exploration of basic and advanced weather theory and how to get the best use of FAA and commercially available forecast products and briefing services. Course takes a condition-by-condition look at various hazardous weather phenomena.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35200  THERMAL FLUID ENGINEERING  3 Credit Hours
First and Second Law of Thermodynamics for closed and open systems. Fundamentals of fluid mechanics and heat transfer.
Prerequisite: MATH 22005 and PHY 23101.
Corequisite: AERN 35201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35030  INTRODUCTION TO CORPORATE AVIATION  3 Credit Hours
Introduces students to the business and corporate sectors of commercial aviation. Examines business and corporate aviation from the joint perspectives of operations and maintenance management as well as flight operations.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35031  AVIATION INDUSTRY REGULATIONS  3 Credit Hours
This course will examine the functions of the regulatory agencies in the aviation industry. The evolution of Administrative Regulation, Federal Aviation Regulation and the rule making process.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35040  AIRCRAFT SYSTEMS I  3 Credit Hours
In-depth study of various aircraft systems including electrical systems, environmental control systems, and fuel systems as applied to aircraft.
Prerequisite: PHY 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35095  SPECIAL TOPICS IN AERONAUTICS  1-3 Credit Hours
(Repeatable for credit) Specialized offerings of interest in response to emerging or needed curricular needs in aeronautics. Topics will be announced in the schedule of classes.
Prerequisite: Aeronautics (AERN) major and sophomore standing.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

AERN 35101  HELICOPTER FLIGHT THEORY  3 Credit Hours
Study of helicopter flight and operations that includes rotor system dynamics, control functions, major components, operation and performance.
Prerequisite: aeronautics (AERN) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35150  AIRCRAFT STRUCTURES I  3 Credit Hours
Aircraft structural design investigations dealing with theory and applications in aviation.
Prerequisite: PHY 13001.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 35151  AVIATION INDUSTRY REGULATIONS  3 Credit Hours
This course will examine the functions of the regulatory agencies in the aviation industry. The evolution of Administrative Regulation, Federal Aviation Regulation and the rule making process.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35152  AIRCRAFT SYSTEMS I  3 Credit Hours
In-depth study of various aircraft systems including electrical systems, environmental control systems, and fuel systems as applied to aircraft.
Prerequisite: PHY 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35250  AIRCRAFT PROPULSION SYSTEMS  3 Credit Hours
A study of basic reciprocating and gas turbine engine theory. Course investigates powerplant construction, component function, including propeller and fuel systems, ancillary systems that support aircraft propulsive systems and performance characteristics.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35251  WEATHER STRATEGY FOR AIRCREWS  3 Credit Hours
A study of various weather conditions to include low ceilings and visibility, turbulence, cold weather, thunderstorms, and wind shear. An exploration of basic and advanced weather theory and how to get the best use of FAA and commercially available forecast products and briefing services. Course takes a condition-by-condition look at various hazardous weather phenomena.
Prerequisite: AERN 25250 or GEOG 31062.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35252  THERMAL FLUID ENGINEERING  3 Credit Hours
First and Second Law of Thermodynamics for closed and open systems. Fundamentals of fluid mechanics and heat transfer.
Prerequisite: MATH 22005 and PHY 23101.
Corequisite: AERN 35201.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
AERN 35201 THERMAL-FLUID ENGINEERING LABORATORY 1 Credit Hour
Laboratory demonstrations and experiments for various heat transfer and fluid dynamics concepts.
Prerequisite: none.
Corequisite: AERN 35200.
Schedule Type: Lecture
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 35300 AEROSPACE VEHICLE PERFORMANCE 3 Credit Hours
Prerequisite: AERN 25500 and MATH 32044.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35339 FIXED BASE OPERATOR OPERATIONS 3 Credit Hours
A study of general aviation operations and the role of Fixed Base Operators in the National Aviation System; management functions; marketing; profit; cash flow; financing; human resources; organization; administration; management information systems; operations; maintenance; safety; liability; physical facilities; and the future of general aviation.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35340 AIRPORT MANAGEMENT 3 Credit Hours
Introduction to the many functions that are involved in the operation and management of an airport. Includes an analysis of the development of the airport-airway system, airport legislation, airport planning and airport operations.
Prerequisite: AERN 15740 or 15745; and AERN 25250.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35341 AIR TRANSPORTATION SYSTEMS 3 Credit Hours
Descriptive course in airline operations as seen from the air carrier’s business perspective. Emphasis is on business practices and techniques unique to aviation.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35342 TERMINAL OPERATIONS I 2 Credit Hours
Intermediate level terminal operations course. Emphasis on tower operations at the clearance delivery, ground control, and local control positions. Topics covered will include, but not be limited to phraseology, procedures, LOAs and weather.
Prerequisite: AERN 25350 and AERN 25351; and AERN 15740 or AERN 15745; and aeronautics (AERN) major.
Corequisite: AERN 35345.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 35343 EN ROUTE I 3 Credit Hours
Introduction to en route operations of air traffic control. Focus on the non-RADAR foundations of en route operations. Topics covered include, but are not limited to phraseology, maps, LOAs, rules and procedures in a non-RADAR environment.
Prerequisite: AERN 25250, AERN 25251, AERN 35342 and AERN 35345; and aeronautics (AERN) major.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35345 TERMINAL OPERATIONS I LABORATORY 1 Credit Hour
Application of terminal air traffic control operating principles explored in AERN 35342 Terminal Operations I.
Prerequisite: AERN 253550 and AERN 25351; and AERN 15740 or AERN 15745; and aeronautics (AERN) major.
Corequisite: AERN 35342.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 35400 SYSTEM DYNAMICS AND CONTROL 3 Credit Hours
Dynamic modeling and response of systems with mechanical, hydraulic, electrical, and/or thermal elements. Classical methods of feedback control system design and analysis.
Prerequisite: AERN 25500 and MATH 32044 or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35500 SIGNALS AND CIRCUITS 3 Credit Hours
An introduction to electric circuit elements and electronic devices and a study of circuits containing such devices. Both analog and digital systems are considered.
Prerequisite: AERN 35400 and PHY 23102.
Corequisite: AERN 35501.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35501 SIGNALS AND CIRCUITS LABORATORY 1 Credit Hour
Laboratory demonstrations and experiments for electrical circuits, data acquisition, and signal measurements.
Corequisite: AERN 35500.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 35600 HIGH-SPEED AERODYNAMICS 3 Credit Hours
Compressibility effects on airfoil and wing aerodynamics; supersonic potential flow; method of characteristics; boundary layer effects on aircraft performance.
Prerequisite: AERN 25500, AERN 35200 and MATH 32044 or MATH 32052.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
AERN 35644  INSTRUMENT FLIGHT THEORY  3 Credit Hours
Course instruction on Instrument Flight to include, navigation facilities (both ground and aircraft), weather theory and weather specific to instrument meteorological conditions, weather charts and sources, cross-country flight planning for IFR, FAA regulations specific to IFR flight, Charts for Instrument Flight, Aircraft Performance, Decision Making, Aircraft Systems and Instruments related to IFR Flight, and Instrument Flight techniques and procedures. This course meets the requirements for endorsement to take the FAA Airman Knowledge Exam for an Instrument Rating and satisfies the requirements of the Training Course Outline approved by the FAA.
Prerequisite: AERN 15740 and AERN 25250; and aeronautics (AERN) major.
Corequisite: AERN 35645.
Schedule Type: Flight Training
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35645  INSTRUMENT PILOT FLIGHT  2 Credit Hours
Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA instrument rating. This course may be repeated only twice. Student is required to spend two hours each day, three days a week, at the airport until the FAA minimum requirement of 25 hours ground instruction has been attained. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees may apply. Please visit www.kent.edu/caest/flight-technology and click on the Flight Course Fees link for more information.
Prerequisite: AERN 25743; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 35644.
Schedule Type: Flight Training
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

AERN 35646  INSTRUMENT HELICOPTER FLIGHT  2 Credit Hours
Flight course designed to fulfill FAA requirements for the Instrument Helicopter Rating. This course may only be repeatable twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Minimum FAA flight time requirements towards the Instrument Helicopter Flight Rating is 15 hours of actual or simulated instrument time. Actual flight training may exceed 15 hours.
Prerequisite: AERN 35645; and cumulative 2.500 GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 35101.
Schedule Type: Flight Training
Contact Hours: 2.43 other
Grade Mode: Standard Letter-IP

AERN 35648  INSTRUMENT HELICOPTER FLIGHT ADD-ON  1 Credit Hour
Flight course designed to fulfill FAA requirements for the Instrument Helicopter Rating. This course may only be repeatable twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Minimum FAA flight time requirements towards the Instrument Helicopter Flight Rating is 15 hours of actual or simulated instrument time. Actual flight training may exceed 15 hours.
Prerequisite: AERN 35645; and cumulative 2.500 GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 35101.
Schedule Type: Flight Training
Contact Hours: 2.43 other
Grade Mode: Standard Letter-IP

AERN 35649  INSTRUMENT FLIGHT THEORY  3 Credit Hours
Course instruction on Instrument Flight to include, navigation facilities (both ground and aircraft), weather theory and weather specific to instrument meteorological conditions, weather charts and sources, cross-country flight planning for IFR, FAA regulations specific to IFR flight, Charts for Instrument Flight, Aircraft Performance, Decision Making, Aircraft Systems and Instruments related to IFR Flight, and Instrument Flight techniques and procedures. This course meets the requirements for endorsement to take the FAA Airman Knowledge Exam for an Instrument Rating and satisfies the requirements of the Training Course Outline approved by the FAA.
Prerequisite: AERN 15740 and AERN 25250; and aeronautics (AERN) major.
Corequisite: AERN 35645.
Schedule Type: Flight Training
Contact Hours: 3 lecture
Grade Mode: Standard Letter-IP

AERN 35650  NON-PILOT INSTRUMENT FLIGHT THEORY  3 Credit Hours
Course instruction for instrument flight to include: navigation facilities and equipment (both ground and aircraft), general weather theory and weather related to instrument meteorological conditions, weather charts and sources, FAA regulations pertinent to the conduct of instrument flight, aeronautical charts for instrument flight and techniques and procedures unique to the conduct of instrument flight. This course does not satisfy the Federal Aviation Regulation requirement for endorsement to take the Airman Knowledge Exam for an Instrument Rating nor does it satisfy the Aircraft Dispatch minor.
Prerequisite: AERN 15740 or AERN 15745; and AERN 25250.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35746  COMMERCIAL PILOT THEORY  2 Credit Hours
Comprehensive instruction covering all areas necessary to exercise the privileges of a commercial pilot.
Prerequisite: AERN 35644.
Corequisite: AERN 35747.
Schedule Type: Flight Training
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 35747  COMMERCIAL PILOT FLIGHT III  2 Credit Hours
Comprehensive flight course for the professional pilot candidate to meet the requirements of the FAA commercial pilot certificate. This course may be repeated only twice. Student is required to spend two hours daily, three days a week, at the airport until the FAA minimum requirement of 25 hours ground instruction has been attained. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees may apply. Please visit www.kent.edu/caest/flight-technology and click on the Flight Course Fees link for more information.
Prerequisite: AERN 35644; and AERN 35645; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Pre/corequisite: AERN 35647.
Corequisite: AERN 35746.
Schedule Type: Flight Training
Contact Hours: 2 other
Grade Mode: Standard Letter-IP
AERN 35748 COMMERCIAL PILOT HELICOPTER FLIGHT ADD-ON 2 Credit Hours
Flight course designed to fulfill Federal Aviation Administration (FAA) requirements for the commercial pilot helicopter certificate. This course may only be repeatable twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Minimum FAA flight time requirements towards the Commercial Pilot Helicopter Add-On Flight Certificate is 35 hours. Actual flight training may exceed 35 hours.
Prerequisite: AERN 35747; and AERN 15742 or AERN 15743; and cumulative 2.500 GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 35101.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4.86 other
Grade Mode: Standard Letter-IP

AERN 35749 COMMERCIAL PILOT HELICOPTER FLIGHT 3 Credit Hours
Flight course designed to fulfill FAA requirements for the Commercial Pilot Helicopter certificate. This course may only be repeatable twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the FAA minimum requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Minimum FAA flight time requirements towards the Commercial Pilot Helicopter Flight Certificate is 150 hours. Actual flight training may exceed 150 hours.
Prerequisite: AERN 15742 or 15743; and minimum cumulative 2.500 GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 35746.
Schedule Type: Flight Training
Contact Hours: 5.5 other
Grade Mode: Standard Letter-IP

AERN 35810 UNMANNED AIRCRAFT SYSTEMS 3 Credit Hours
Provides an understanding of the theory of operation, architecture, and performance characteristics of various airborne-onboard systems and subsystems utilized in unmanned aerial vehicles. Also includes examination of aircraft materials, structural components, and configuration.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35830 UNMANNED AIRCRAFT SYSTEMS SENSING AND SENSOR SYSTEMS 3 Credit Hours
An in-depth study of sensors and remote sensing systems used to support Unmanned Aircraft operations. Course emphasizes the theory, technical characteristics, capabilities, and operational use of various sensors and sensing systems. Course also investigates sensor data generation and sensing system image interpretation and analysis.
Prerequisite: AERN 25800.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 35840 UNMANNED AIRCRAFT SYSTEMS COMMAND, CONTROL AND COMMUNICATIONS 3 Credit Hours
Explores the technological and operational aspects of ground-based and airborne command, control, and communications systems used in unmanned aircraft systems. Topics include UAV sense-and-avoid systems, data link systems, voice communications systems, telemetry systems, navigation systems, and manual and automatic flight control systems.
Prerequisite: AERN 35644 or AERN 35650; and AERN 35810.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45010 AIRCRAFT DISPATCH I 3 Credit Hours
First of two courses designated for the practical application of knowledge necessary to perform aircraft dispatcher functions. Topics include decision making, human error and teamwork. This course is required for endorsement to take the FAA aircraft dispatcher knowledge exam. Special course fees may apply. Please visit www.kent.edu/caest-flight for more information.
Prerequisite: AERN 35644 or AERN 35650.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45020 AIRCRAFT DISPATCH II 3 Credit Hours
Second of two courses designated for the practical application of previously acquired knowledge necessary to perform aircraft dispatcher functions. Topics as applied to dispatcher functions include briefing techniques, preflight, weather analysis and flight planning. Required for an endorsement to take the FAA aircraft dispatcher practical test. Special course fees may apply. Please visit www.kent.edu/caest-flight for more information.
Prerequisite: AERN 45010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45025 DISPATCH LABORATORY 1 Credit Hour
Practical Aircraft Dispatch application and preparation for the ADX written, oral and practical exam
Prerequisite: AERN 45010.
Corequisite: AERN 45020.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 45030 AIRCRAFT SYSTEMS II 3 Credit Hours
Continuation of AERN 35040. An in-depth study of various aircraft systems including auxiliary systems, undercarriage, hydraulics, flight controls, instruments, and integrated systems as applied to aircraft.
Prerequisite: AERN 35040.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
AERN 45040  LABOR RELATIONS IN THE AVIATION INDUSTRY     3 Credit Hours
Legislation governing labor relations in the private sector of the United States Economy consist of two separate and distinct pieces of legislation: the Railway Labor Act and the National Labor Relations Act. This course focuses on the examination of air transport labor relations in the context of these key laws. As the student of aviation management comes in contact with both Acts though this course, the student will learn similarities and differences of each and their resultant impact. The student will actively apply this knowledge in a mock labor relations negotiation.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45092  AERONAUTICAL INTERNSHIP/COOPERATIVE EDUCATION (ELR)     1-3 Credit Hours
(Repeatable for a total of 6 hours) Work experience in aerospace/aviation industry or related activity, laboratory or student professional organization.
Prerequisite: special approval.
Schedule Type: Practicum or Internship
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement

AERN 45096  INDIVIDUAL INVESTIGATION IN AERONAUTICS     1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Work study of an individual nature on a topic relating to professional aviation.
Prerequisite: Sophomore standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

AERN 45100  OPERATIONAL PLANNING IN AVIATION     3 Credit Hours
Focus on both airport and airline operations through planning, design and management. Students function as project managers and work with simulation to run their own airport design and airline operations with respect to financial and economic variables.
Prerequisite: AERN 35340 and AERN 35341.
Schedule Type: Lecture, Research
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45121  AEROSPACE PROPULSION FOR ENGINEERING AND ENGINEERING TECHNOLOGY     3 Credit Hours
An in-depth study of gas turbine engines, rockets, and hypersonic propulsion systems used in aerospace applications. Includes propulsion system design and operation, and the analysis of performance characteristics.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45130  PHYSIOLOGY AND HUMAN FACTORS OF FLIGHT     3 Credit Hours
A study of the interaction of the human body with flight and those human factors that affect flight operations.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45135  AVIATION SAFETY THEORY     3 Credit Hours
(Slashed with AERN 55135) Provides an in-depth study into aviation human safety theories and the basics of risk and safety management.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45150  APPLIED FLIGHT DYNAMICS I     3 Credit Hours
Cross-listed with AERN 55150) An applied aircraft flight dynamics course that demonstrates aircraft, engine and propeller performance with the overall flight performance and stability of the typical subsonic airplane. Emphasis is placed on the aerodynamics of flight.
Prerequisite: PHY 13001 or PHY 23101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45151  APPLIED FLIGHT DYNAMICS II     3 Credit Hours
Aerodynamics, flight dynamics, and flight performance of high performance aircraft. Course includes supersonic aerodynamics, flight stability and handling, and an in-depth investigation and analysis of flight performance parameters including lift, drag, load factor, climb performance, and turn performance.
Prerequisite: AERN 45150.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45200  STRATEGIC AVIATION MANAGEMENT (ELR)     3 Credit Hours
Serves as the capstone course for the aviation management area of concentration in aeronautics. As such, it is designed to address evolving issues and challenges in aviation management with a particular emphasis on airlines and airports through an application of previously mastered aviation management courses. Students must pass the course with a minimum grade of "C" (2.00).
AERN 45250  AVIATION LAW  3 Credit Hours
Involves a study of the origins of Western jurisprudence, common law and aviation law as an integral part of law in the U.S. Also introduces international aviation law by lateral agreement as well as U.S. Constitutional law and its amendments as they relate to the structure and process of aviation law. Criminal and civil law as they relate to civil aviation are also addressed. Case studies are included.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45300  AIR TRAFFIC CONTROL CAPSTONE (ELR)  3 Credit Hours
The culminating experience for the Air Traffic Control program of study. Students will work in groups to research and present a possible solution to a current event in the world of aviation and air traffic control. Students participate in realistic simulations where students take the roles within all three areas (Tower, TRACON, En Route). These scenarios often involve all three domains simultaneously where the students must work together to successfully finish the scenario, simulating a normal controller's day.
Prerequisite: AERN 45343 and AERN 45344; and aeronautics (AERN) major.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45320  TERMINAL OPERATIONS II  2 Credit Hours
Advanced terminal course that focuses on the TRACON environment. Emphasis in vectoring and sequencing for approach at the primary airport. Topics covered will include, but not be limited to phraseology, procedures, maps, LOAs, and airspace.
Prerequisite: AERN 35342 and AERN 35345; and aeronautics (AERN) major.
Corequisite: AERN 45321.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45321  TERMINAL OPERATIONS II LABORATORY  1 Credit Hour
Application of terminal air traffic control operating principles explored in AERN 45320 Terminal Operations II.
Prerequisite: AERN 35342 and AERN 35345; and aeronautics (AERN) major.
Corequisite: AERN 45320.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 45340  AIRCRAFT MAINTENANCE  3 Credit Hours
Fundamentals of aircraft maintenance and resolving maintenance problems on the flight line.
Prerequisite: Aeronautics (AERN) major and senior standing and special approval.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 45343  EN ROUTE II  2 Credit Hours
Advanced en route course that focuses on low altitude, en route operations. Some time is spent on high altitude and special operations as well. Topics covered include, but not limited to phraseology, procedures, LOAs and maps.
Prerequisite: AERN 45320 and AERN 45321; and aeronautics (AERN) major.
Corequisite: AERN 45344.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45344  EN ROUTE II LABORATORY  1 Credit Hour
Application of en route air traffic control operating principles explored in AERN 45343 En Route II.
Prerequisite: aeronautics (AERN) major.
Corequisite: AERN 45343.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 45349  SYSTEMS MAINTENANCE AND RELIABILITY  5 Credit Hours
Combines theories of systems and operations with practical experience to meet FAA standards for an airframe and powerplant license (300 hours shop experience).
Prerequisite: AERN 45340.
Schedule Type: Lecture
Contact Hours: 5 lecture
Grade Mode: Standard Letter

AERN 45350  AVIONICS  3 Credit Hours
(Cross-listed with AERN 55350) A study of aviation electronic systems in flight vehicles that pertain to communication, navigation and air traffic control systems.
Prerequisite: PHY 13001 and PHY 13012.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45360  PROFESSIONAL DEVELOPMENT IN AERONAUTICS III  1 Credit Hour
Seminar on selected topics relating to problems, issues and conditions of employment within aviation. Prerequisite: AERN 30000; and senior standing.
Schedule Type: Lecture
Contact Hours: 1 lecture
Grade Mode: Standard Letter

AERN 45600  AIRCRAFT STABILITY AND CONTROL  3 Credit Hours
Prerequisite: AERN 25500 and AERN 35400.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
AERN 45601  AIRCRAFT STABILITY AND CONTROL LABORATORY  1 Credit Hour
Laboratory demonstrations and experiments for various aspects of aircraft stability and control.
Prerequisite: none.
Corequisite: AERN 45600.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Standard Letter

AERN 45648  THEORY OF FLIGHT INSTRUCTION (ELR)  3 Credit Hours
Detailed fundamentals of teaching flight and ground instruction and the analysis of flight techniques, in order to meet requirements of FAR's part 61.185(a).
Prerequisite: AERN 35040, 35746, 35747 and 45150.
Corequisite: AERN 45649.
Schedule Type: Flight Training
Contact Hours: 3 lecture
Grade Mode: Standard Letter Attributes: Experiential Learning Requirement

AERN 45649  FLIGHT INSTRUCTOR/AIRPLANES  2 Credit Hours
Flight course with emphasis on instructing techniques in aircraft from right seat. Includes student evaluation techniques to meet Federal Aviation Regulation for certified flight instructor. This course may be repeated only twice. Student is required to spend two hours daily, three days a week, until the FAA minimum requirement of 30 hours ground instruction has been attained. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees may apply. Please visit www.kent.edu/caest/flight-training and click on the Flight Course Fees link for more information.
Prerequisite: AERN 35746 and AERN 35747; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Corequisite: AERN 45648.
Schedule Type: Flight Training
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

AERN 45650  CERTIFIED FLIGHT INSTRUCTOR HELICOPTER FLIGHT  2 Credit Hours
Flight course designed to fulfill FAA requirements for the Flight Instructor Helicopter certificate. This course may be repeated only twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the course requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Certified Flight Instructor Helicopter Certificate is 15 hours. Actual flight training may exceed 15 hours.
Prerequisite: AERN 35646 or 35648; and AERN 45650 or 45659; and 2.500 cumulative GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 1.1 other
Grade Mode: Standard Letter-IP

AERN 45651  FLIGHT INSTRUCTOR-INSTRUMENTS  2 Credit Hours
Flight course with emphasis on flight instructing techniques involved with instrument flight and air traffic control procedures. This course may be repeated only twice. Special course fees may apply. Please visit www.kent.edu/caest/flight-training and click on the Flight Course Fees link for more information.
Prerequisite: AERN 45648 and AERN 45649; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 2 lecture, 9 other
Grade Mode: Standard Letter-IP

AERN 45652  CERTIFIED FLIGHT INSTRUCTOR INSTRUMENT HELICOPTER FLIGHT  1 Credit Hour
Flight course designed to fulfill FAA requirements for the Flight Instructor Instrument Helicopter certificate. This course may only be repeated twice. Student is required to spend 1.5 hours each day, five days a week, at the airport, until the course requirements are attained. When not flying, the student goes through personalized ground instruction with an assigned flight instructor. Certified Flight Instructor Instrument Helicopter Certificate is 15 hours. Actual flight training may exceed 15 hours.
Prerequisite: AERN 35646 or 35648; and AERN 45650 or 45659; and 2.500 cumulative GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 1.1 other
Grade Mode: Standard Letter-IP

AERN 45653  MULTI-ENGINE PILOT FLIGHT  1 Credit Hour
Course provides the required ground and flight instruction necessary to qualify students for the multi-engine rating from the FAA. This course may be repeated only twice. Student is required to spend two hours daily, three days a week, at the airport until the FAA minimum requirement of 20 hours ground instruction has been attained. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees may apply. Please visit www.kent.edu/caest/flight-training and click on the Flight Course Fees link for more information.
Prerequisite: AERN 35747; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 1 lecture, 9 other
Grade Mode: Standard Letter-IP

AERN 45654  CERTIFIED FLIGHT INSTRUCTOR HELICOPTER FLIGHT ADD-ON  1 Credit Hour
Flight course designed to fulfill FAA requirements for the Flight Instructor Helicopter Add-on certificate.
Prerequisite: AERN 45649; and 2.500 cumulative GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 1.1 other
Grade Mode: Standard Letter-IP

AERN 45655  ADVANCED MULTI-ENGINE PILOT FLIGHT  1 Credit Hour
Ground flight instruction for proficiency and required hours in preparation for multi-engine instruction. Special course fees may apply. Please visit www.kent.edu/caest/flight-training and click on the Flight Course Fees link for more information.
Prerequisite: AERN 45653; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

AERN 45656  CERTIFIED FLIGHT INSTRUCTOR INSTRUMENT HELICOPTER FLIGHT ADD-ON  1 Credit Hour
Flight course designed to fulfill FAA requirements for the Flight Instructor Instrument Helicopter Add-on certificate.
Prerequisite: AERN 45651; and cumulative 2.500 GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 1.1 other
Grade Mode: Standard Letter-IP
AERN 45657  MULTI-ENGINE FLIGHT INSTRUCTOR  1 Credit Hour
Course provides the necessary ground and flight instruction to professionally qualify students for the multi-engine instructor rating by the FAA. This course may be repeated only twice. Student is required to spend two hours daily, three days a week, at the airport. When not flying, the student goes through personalized ground instruction with the flight instructor. Special course fees may apply. Please visit www.kent.edu/caest/flight-technology and click on the Flight Course Fees link for more information.
Prerequisite: AERN 45649 and AERN 45655; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 9 other
Grade Mode: Standard Letter-IP

AERN 45659  UPSET RECOVERY TRAINING  1 Credit Hour
Consisting of both ground school and hands-on flight components, this upset recovery training course prepares pilots for emergency situations they may encounter that cannot properly be replicated in a typical GA aircraft. Extensive piston driven and swept wing jet aerodynamic characteristics, accident analysis and recovery profile. Special course fees may apply. Please visit www.kent.edu/caest/flight-technology and click on the Flight Course Fees link for more information.
Prerequisite: AERN 15741; and minimum 2.500 overall GPA; and must be in the Flight Technology (FLGT) concentration in the Aeronautics (AERN) major.
Schedule Type: Flight Training
Contact Hours: 9 other
Grade Mode: Standard Letter

AERN 45700  AIRCRAFT DESIGN (ELR)  3 Credit Hours
(Cross-listed with AERN 55700) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft, and spacecraft. Primary focus on introduction to design, decision-making in design, and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation.
Prerequisite: (AERN 45030 and AERN 45150 and AERN 45121) or (AERN 35300 and AERN 35500 and AERN 45121).
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

AERN 45710  TURBINE ENGINE THEORY AND OPERATION  2 Credit Hours
An in-depth study of the theory, operation and performance of turbine turboprop engines and associated systems.
Prerequisite: AERN 35020.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter

AERN 45711  TURBINE ENGINE THEORY AND OPERATION LABORATORY  1 Credit Hour
Laboratory using a turboprop flight simulator to provide instruction and demonstration of the operating characteristics and procedures associated with turbine/turboprop engines. Special course fees may apply. Please visit www.kent.edu/caest/flight-technology and click on the Flight Course Fees link for more information.
Prerequisite: AERN 35020; and aeronautics (AERN) major.
Pre/corequisite: AERN 45710.
Schedule Type: Private Lesson
Contact Hours: 1 other
Grade Mode: Standard Letter

AERN 45720  CREW RESOURCE MANAGEMENT  2 Credit Hours
An in-depth study of the common principles of aviation crew resource management (CRM) and human factors as utilized by air transport flight crews.
Prerequisite: AERN 45130.
Schedule Type: Lecture
Contact Hours: 2 lecture
Grade Mode: Standard Letter-IP

AERN 45721  CREW RESOURCE MANAGEMENT LABORATORY  1 Credit Hour
Flight simulator-based laboratory that includes flight simulator experiences that integrate crew resource management (CRM) and line-oriented flight training (LOFT) in a multicrew environment. Special course fees may apply. Please visit www.kent.edu/caest/flight-technology and click on the Flight Course Fees link for more information.
Prerequisite: AERN 45130.
Pre/corequisite: AERN 45720.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1 other
Grade Mode: Standard Letter-IP

AERN 45730  APPLIED TRANSPORT CATEGORY AIRCRAFT SYSTEMS  3 Credit Hours
Course examines various systems in use on air transport aircraft. The course emphasis is on the principles, operation and limitations of complex, integrated systems found in modern aircraft.
Prerequisite: AERN 35020 and AERN 45030.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 45740  FLIGHT MANAGEMENT SYSTEMS  3 Credit Hours
Course examines various advanced avionics systems used on air transport type aircraft. The course emphasis is on the principles, operation and limitations of integrated avionics related to the "glass cockpit" found on modern aircraft.
Prerequisite: AERN 45030 and 45350.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter
AERN 45791 AVIATION SECURITY AND POLICY SEMINAR (WIC) 3 Credit Hours
(Cross-listed with AERN 55791) Examines policies, practices, procedures and regulatory provisions developed to create and enhance security in civil aviation with a special emphasis on airlines, airports, airspace and agencies responsible for civil aviation security.
Prerequisite: AERN 45250.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

AERN 45800 UNMANNED AIRCRAFT SYSTEMS FLIGHT OPERATIONS THEORY 4 Credit Hours
Classroom instruction to provide the general information and knowledge necessary to prepare students to pilot and operate unmanned aircraft. Emphasis is placed on the acquisition of knowledge required to engage in UAS flight operations, specifically focused on piloting UAVs and managing UAV sensors. This course provides students with the background knowledge required to begin flight training and to perform real-time mission management operations for high performance unmanned aircraft systems.
Prerequisite: AERN 25350; and AERN 25351; and AERN 35644 or AERN 35650; and AERN 35830; and AERN 35840; and AERN 45150.
Schedule Type: Lecture
Contact Hours: 4 lecture
Grade Mode: Standard Letter

AERN 45850 AIRCRAFT DESIGN II (WIC) 3 Credit Hours
Second of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft, and spacecraft. Primary focus on sub-system design (i.e., propulsion, structure, controls, etc.), and overall vehicle integration of these subsystems. Cost analysis and safety analysis. Final technical report and/or model prototype.
Prerequisite: AERN 45600 and AERN 45700.
Corequisite: AERN 45900.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Writing Intensive Course

AERN 45900 AEROELASTICITY 3 Credit Hours
Review of beam analysis. Structural dynamics of one-dimensional systems. Analysis of static aeroelastic phenomena, unsteady aerodynamics and flutter. Equations of motion for complete aeroelastic systems; solution techniques.
Prerequisite: AERN 35150 and TECH 33111.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 55135 AVIATION SAFETY THEORY 3 Credit Hours
(Previously slaved with AERN 45135) An in-depth study of aviation human safety theories and the basics of risk and safety management.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 55150 APPLIED FLIGHT DYNAMICS I 3 Credit Hours
(Cross-listed with AERN 45150) A course relating aircraft, engine and propeller performance to the overall flight performance of the typical light airplane. Includes flight test project participation. Special course fee $10 cr./Hr. Subject to change.
Prerequisite: MATH 11012 or MATH 12002, PHY 13001 and 13002 or PHY 23101 and 23102, and AERN 15000; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 55235 HUMAN ERROR ANALYSIS IN AVIATION 3 Credit Hours
Provides an in-depth look at human error and its implications in the realm of safety using examples from the aviation industry. Includes a basic overview of human error, discussion on the models available to examine error, provides knowledge on how to classify and provide recommendations of intervention strategies. A focus will be on the SHELL Model, the Human Factors Analysis and Classification System, and the 5M model. This course will use real examples of accidents and incidents for students to apply these strategies.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 55350 AVIONICS 3 Credit Hours
(Cross-listed with AERN 45350) A descriptive course that covers electronic systems in aviation, particularly from the standpoint of aircraft equipment and operational theory and practical use by the pilot.
Prerequisite: PHY 13001 and 13002 or PHY 23101 and 23102; AERN 15000; and TECH 21021; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 55700 AIRCRAFT DESIGN 3 Credit Hours
(Cross-listed with AERN 45700) First of a two-course series of aerospace design. Preliminary design or case study of an aerospace vehicle, including but not limited to aircraft, rotorcraft, and spacecraft. Primary focus on introduction to design, decision-making in design, and preliminary sizing of an aerospace vehicle to meet customer requirements. Final technical report and presentation.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 55791 AVIATION SECURITY AND POLICY SEMINAR 3 Credit Hours
(Repeatable for credit) (Cross-listed with AERN 45791) Analytical review of policies, practices, procedures and regulatory provisions designed to create and enhance security in civil aviation with a special emphasis on the impact of emerging technologies on aviation security.
Prerequisite: graduate standing.
Schedule Type: Seminar
Contact Hours: 3 other
Grade Mode: Standard Letter

AERN 61091 AEROSPACE SEMINAR 1 Credit Hour
(Repeatable for a maximum of three semesters) Discussions of selected technical topics related to aerospace technology.
Prerequisite: Graduate standing.
Schedule Type: Seminar
Contact Hours: 1 other
Grade Mode: Standard Letter
AERN 65095  SPECIAL TOPICS IN AERONAUTICS  1-4 Credit Hours
(Repeatable for a maximum of 15 credit hours) Study of special topics that focus on subjects and issues in aeronautics.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

AERN 65240  AVIATION SAFETY MANAGEMENT SYSTEMS  3 Credit Hours
An in-depth study of the concepts and principles of aviation safety management and aviation Safety Management Systems (SMS). Provides a fundamental knowledge of SMS safety policy, safety risk management, safety assurance, and safety promotion. Also includes a thorough analysis of the design, implementation, and management of Safety Management Systems and its incorporation into various aviation sectors.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 65300  AIRLINE TRANSPORTATION OPERATIONS  3 Credit Hours
The study of scheduled and charter airline transport operations under Federal Air Regulations (FAR) Part 135.
Prerequisite: Special approval and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

AERN 65496  INDIVIDUAL INVESTIGATION IN AERONAUTICS  1-4 Credit Hours
(Repeatable for a maximum of 9 credit hours) Individual investigation of various aeronautics-related topics.
Prerequisite: Special approval and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

Technology (TECH)

TECH 10001  INFORMATION TECHNOLOGY  3 Credit Hours
Introduction to the operation and use of computer systems in technology-related applications. Laboratory assignments include the use of microcomputers for solving technical problems.
Prerequisite: None.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 13580  ENGINEERING GRAPHICS I  3 Credit Hours
Technique of engineering drawing, lettering, instrument use, freehand drawing, orthogonal projection, sections, single and double auxiliaries, dimensioning, screw threads, charts and graphs.
Prerequisite: None.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 20001  ENERGY/POWER  3 Credit Hours
Study of basic thermodynamic laws and how they apply to the conversion and transfer of heat energy into useful power.
Prerequisite: TECH 21021.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

TECH 20002  MATERIALS AND PROCESSES  3 Credit Hours
Study and practice addressing the nature of basic manufacturing materials and the processes by which they are converted into manufactured products. Includes laboratory experience.
Prerequisite: None.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 4 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

TECH 20004  FUNDAMENTALS OF ELECTRONIC CIRCUITS  4 Credit Hours
Introduction to electronic circuits consisting of resistors, capacitors and inductors. Calculation of voltages and currents in the circuits for the case of constant and time varying currents.
Prerequisite: MATH 11010 and 11022.
Corequisite: MATH 12002.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: TAG Engineering Technology

TECH 21021  SURVEY OF ELECTRICITY AND ELECTRONICS  4 Credit Hours
Survey of DC and AC circuits, semiconductors, and electronic devices, including diodes and transistors. Includes laboratory.
Prerequisite: PHY 13002.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

TECH 21046  GRAPHIC COMMUNICATIONS TECHNOLOGY I  3 Credit Hours
An orientation to layout, composition and press operations as applied to the graphic communications processes of lithography screen and relief printing.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

TECH 22095  SPECIAL TOPICS IN TECHNOLOGY  1-4 Credit Hours
(repeated registration permitted) various special topics to be announced in the schedule of classes, offering current topics in technology based areas of study.
Prerequisite: Permission.
Schedule Type: Combined Lecture and Lab
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP
TECH 23010  COMPUTER HARDWARE I  3 Credit Hours
Introduction to the hardware, architecture and operation of the personal
computer and associated devices. Topics include personal computer
architecture and operation fundamentals; basic hardware; data
buses and ports; hardware component packaging; auxiliary hardware
components; computer assembly; basic hardware installation and
configuration; and basic troubleshooting.
Prerequisite: DSCI 26010 or TECH 26010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 23200  ELECTRONIC CIRCUIT FABRICATION LABORATORY  1
Credit Hour
Covers the common methods and items used in electronics to fabricate,
repair and test electronic component connections and circuits. Topics
include electrical safety, printed circuit board design and fabrication,
soldering, wiring characteristics, cabling, wire connectors, splices, wire
wrapping, crimping, network cable fabrication, fabrication and repair of
fiber optic cables and connectors, and integrated circuit fabrication.
Prerequisite: TECH 20004 or 21021.
Schedule Type: Laboratory
Contact Hours: 2 lab
Grade Mode: Satisfactory/Unsatisfactory

TECH 23224  ELECTRICAL CIRCUITS II  3 Credit Hours
Intermediate electric circuit analysis. Reactance, impedance, network
theorems and analysis. Resonance in series and parallel circuits.
Applications. Includes laboratory.
Prerequisite: TECH 20004.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 23581  COMPUTER-AIDED ENGINEERING GRAPHICS  3 Credit
Hours
Study of working drawings, descriptive geometry, geometrical tolerancing,
structural/weldments, cams, gears, piping and considerable time with the
Hewlett Packard 900 CAD system.
Prerequisite: TECH 10001 or TECH 26010; and TECH 13580.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 26010  INTRODUCTION TO COMPUTER ENGINEERING
TECHNOLOGY  3 Credit Hours
Describes Computer Engineering Technology concepts and
principles. Topics include computer hardware, computer hardware
operations, digital systems design, networking hardware, technology of
networking, computer aided design and embedded systems.
Pre/corequisite: MATH 11022.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 26301  NETWORKING HARDWARE I  3 Credit Hours
A hands-on, applied engineering-focused course emphasizing the
operation, maintenance, and performance aspects of personal computer
networking hardware. Topics include networking hardware operation,
characteristics, configuration, and troubleshooting fundamentals. Course
also includes network standards, protocols, configuration, topologies, and
administrative fundamentals as related to networking hardware systems.
Note: This course is part of the Networking Hardware course sequence
required for students enrolled in the Computer Engineering Technology
concentration.
Prerequisite: DSCI 26010 or TECH 21021 or TECH 26010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 26310  WEB DESIGN AND DEVELOPMENT  3 Credit Hours
An introduction to Web Programming. Concepts, principles, techniques,
and methods associated with the design and implementation of Web
pages and Internet-based applications. Includes fundamentals of web
site and web page creation, development, and maintenance; Web page
programming languages; Web design software and production tools;
creation of dynamic, interactive web-based multimedia presentations;
and Web client and server technologies.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 27210  INTRODUCTION TO SUSTAINABILITY  3 Credit Hours
Introduces the students to the concepts of sustainability and its three
pillars, namely, economic growth, environmental protection, and social
equality. Students taking the course will understand the language and
concepts of sustainability and will acquire the knowledge to further study
sustainability.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 31000  CULTURAL DYNAMICS OF TECHNOLOGY (DIVD) (WIC)
3 Credit Hours
Study of technology and the forces it exerts upon society.
Prerequisite: ENG 21011.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 31010  ENGINEERING AND PROFESSIONAL ETHICS  3 Credit
Hours
Applications of codes of ethics in the engineering and technology
professions reflective of social and moral responsibilities to the public,
and accountability in engineering practice.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
TECH 31016  MANUFACTURING TECHNOLOGY  3 Credit Hours
Classroom, laboratory and field experiences involving the major aspects of a manufacturing enterprise including product design, production financing and marketing.
Prerequisite: TECH 10001 and TECH 13580 and TECH 20002.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

TECH 31020  AUTOMATED MANUFACTURING  3 Credit Hours
Theory and operation of computer controlled machine tools, robots and processes.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 31032  POWER TECHNOLOGY  3 Credit Hours
Principles of energy conversion and power application. Overview of basic heat engines, machines and transmission devices. Alternative energy systems and conservation techniques.
Prerequisite: TECH 20001 and TECH 20004.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 31043  PRINCIPLES OF CONCRETE CONSTRUCTION  3 Credit Hours
An introductory course on the use of concrete in the construction industry. Students will gain a basic understanding of the strength and behavior of reinforced concrete members and simple reinforced concrete structural systems.
Prerequisite: TECH 21071.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 31065  CAST METALS  3 Credit Hours
Principles and processes of metal casting with a focus on current industrial practices. Includes laboratory experience with nonferrous metals and industrial tours.
Prerequisite: TECH 20002.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

TECH 31067  MACHINING TECHNOLOGY I  3 Credit Hours
Lecture and laboratory experiences in basic machine tool principles and processes.
Prerequisite: None.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

TECH 31071  WOODS TECHNOLOGY II  2 Credit Hours
Emphasis on basic woodworking machinery processes, fundamental construction and materials. Project design and development.
Prerequisite: TECH 11071.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

TECH 31087  DESIGN FOR TECHNOLOGY  3 Credit Hours
Design as creative process. Individual and group experiences in problem solving. Relevance to art industry and education.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 32002  MATERIALS AND PROCESSES II  3 Credit Hours
Advanced study and practice in materials and processes. Emphasis will be upon developing skills and knowledge in producing a product and conducting problem solving activities.
Prerequisite: TECH 20002.
Schedule Type: Combined Lecture and Lab
Contact Hours: 7 other
Grade Mode: Standard Letter

TECH 32101  POLYMERS I  3 Credit Hours
Description of various polymers, thermoplastics and thermosets. Processes used to produce products. Outline of polymer chemistry including methods of testing and identification.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 32102  POLYMERS II  3 Credit Hours
Comprehensive review of resin systems and fiber reinforcement for use in production of FRP products; fabrication procedures; comparative properties.
Prerequisite: TECH 32101.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 32105  CONSTRUCTION JOBSITE MANAGEMENT  3 Credit Hours
Course concentrates on the procedures and methods that are used by the construction contractor during the construction and post-construction phases of a project.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 33010  COMPUTER HARDWARE  3 Credit Hours
Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data busses and ports, hardware component packaging, auxiliary hardware components, computer assembly, basic hardware installation, configuration and troubleshooting.
Prerequisite: junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
TECH 33016 PC/NETWORK ENGINEERING AND TROUBLESHOOTING 3 Credit Hours
Covers the service, maintenance, upgrade and optimization of personal computers. Specification, installation and maintenance of local area networks are covered. Students learn communication protocols and network architecture. Two lectures and two labs a week.
Prerequisite: EERT 22014 or TECH 33010.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 33020 COMPUTER HARDWARE II 3 Credit Hours
An in-depth look at personal computer design and hardware components, and an introduction to the fundamentals of personal computer networks. Topics include the operation, assembly, configuration, diagnosis, and unit-level troubleshooting of personal computers and their associated hardware components. Also includes an introduction to PC network configuration, hardware, and troubleshooting fundamentals. Prerequisite: TECH 23010
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 33030 COMPUTER PERIPHERALS AND SPECIAL USE HARDWARE 3 Credit Hours
Operation, installation, hardware configuration, software configuration, fault analysis, troubleshooting, and repair of various peripheral devices, interface cards, and special use hardware components used by personal computers.
Prerequisite: TECH 23010 and TECH 26301.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 33031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
An introduction to programmable logic controllers (PLCS) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS).
Prerequisite: TECH 10001 and TECH 21021.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 33032 PROGRAMMABLE LOGIC CONTROLLERS II 3 Credit Hours
Advanced principles and applications of programmable logic controllers with a focus on using sequential function charts to control complex industrial processes. Includes real time control issues, PLC networking, programming languages other than ladder logic, standards, motion control, supervisory control and data acquisition, process control, alarm management, power failure strategies and safety.
Prerequisite: TECH 33031.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 33033 HYDRAULICS/PNEUMATICS 3 Credit Hours
Fluid properties, hydraulic design, viscosity, hydraulic components, pumps, systems and circuits, maintenance and safety, pneumatics, air systems control and design.
Prerequisite: MATH 11022, and PHY 13001 or PHY 23101.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

TECH 33040 MOTORS AND CONTROLLERS 3 Credit Hours
AC and DC motors, motor control, and machine operations in mechatronic systems. Includes introduction to basic control system terms and devices, input and output transducers, signal conditioning, open loop and closed loop control, stability and performance.
Prerequisite: TECH 21021.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 33092 COOPERATIVE EDUCATION - PROFESSIONAL DEVELOPMENT (ELR) (WIC) 1-3 Credit Hours
(Repeatable for a maximum of 6 credit hours) Supervised work-study experience in approved business or industrial environment relative to the student's major. The 3 credit hour co-op experience must be for a period of at least 12 consecutive weeks at 40 hours per week, or 30 hours per week for 15 weeks, totaling not less than 450 hours. Most co-ops occur during the summer. Students can earn up to an additional 3 credit hours (one to three per co-op – 150 work hours per credit hour) over the course of their college career as long as each co-op has a different focus.
Prerequisite: sophomore standing; 2.25 GPA; and special approval.
Schedule Type: Field Experience
Contact Hours: 10-30 other
Grade Mode: Standard Letter-IP
Attributes: Experiential Learning Requirement, Writing Intensive Course

TECH 33095 SPECIAL TOPICS:APPLIED SCIENCE AND TECHNOLOGY 1-3 Credit Hours
(Repeatable for credit)Special topics of immediate interest in applied science and technology.
Prerequisite: Junior standing and special approval.
Schedule Type: Lecture
Contact Hours: 1-3 lecture
Grade Mode: Standard Letter

TECH 33111 STRENGTH OF MATERIALS 3 Credit Hours
An analytical study of the relation between the external forces applied to elastic materials and the resulting deformations and stresses.
Prerequisite: PHY 13001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 33220 ELECTRONIC DEVICES 4 Credit Hours
Introduction to electronic non-linear devices including, diodes, transistors, opto-electronic devices and operational amplifiers. Use and application of these devices in different types of application like rectifiers, amplifiers and linear integrated circuits.
Prerequisite: TECH 20004.
Corequisite: TECH 23200.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
TECH 33222  DIGITAL DESIGN FOR COMPUTER ENGINEERING  3
Credit Hours
Introduction to digital design. The operation and use of digital devices and components as used in microprocessors and digital computers. Topics include binary arithmetic operations, Boolean algebra, logic gates, combinational and sequential logic, buffers, registers, memory devices, counters, latches, timers, comparators, encoders, decoders, multiplexers and demultiplexers.
Prerequisite: TECH 21021.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 33223  ELECTRONIC COMMUNICATION  3 Credit Hours
Principles of digital and analog telecommunications and data signals. Topics include electromagnetic signal time and frequency characteristics, signal propagation, signal modulation, transmission lines, wireless signals, antennas, digital signal characteristics and protocols, signal multiplexing, microwave devices and applications.
Prerequisite: TECH 21021.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 33225  INDUSTRIAL CONTROL SYSTEMS  3 Credit Hours
The application of electronics to the control of industrial machines and processes. Includes laboratory.
Prerequisite: TECH 33220.
Schedule Type: Laboratory, Lecture
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 33363  METALLURGY AND MATERIALS SCIENCE  3 Credit Hours
Scientific study of modern manufacturing materials (metals, plastics and ceramics) and the laboratory test methods used to determine their manufacturing specifications and properties.
Prerequisite: Junior standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 3357 INTRODUCTION TO LEAN SIX SIGMA  3 Credit Hours
An introduction to lean six sigma. Including understanding the systems, measuring and defining performance, analyzing, improving, and controlling processes, and leading six sigma initiatives.
Prerequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 33700  QUALITY TECHNIQUES  3 Credit Hours
Introduction to quality management and the tools and techniques including the basic tools identified by ASQ (American Society for Quality) as well as an introduction to Lean and Six Sigma. Information presented helps prepare the student to qualify for the Quality Process Analyst Certification.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 33870  FACILITY DESIGN AND MATERIAL HANDLING  3 Credit Hours
Provides students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for complete approach to facility design and material handling.
Prerequisite: Junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 34002  ADVANCED COMPUTER-AIDED DESIGN II  3 Credit Hours
Continuation of CADT 22000 with an emphasis on the use of a Parametric-based CAD software (PRO-ENGINEER) for the design and modeling of industrial products.
Prerequisite: MERT 12001 and CADT 22000; or TECH 23581.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 35765  QUALITY AND RELIABILITY ENGINEERING  3 Credit Hours
Introduction to reliability and quality engineering with an emphasis on manufacturing and techniques for improving quality and reliability. Includes reliability, reliability prediction, quality techniques, modeling statistical process control, control charts, sampling, experimental design, and designing and manufacturing for quality and reliability.
Prerequisite: MATH 11010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 36302  NETWORKING HARDWARE II  3 Credit Hours
Continuation of TECH 26301. In-depth coverage of personal computer-based enterprise networking systems hardware with a focus on network hardware and software configuration, fault analysis, diagnostics, and troubleshooting. Topics include router and switch operation, programming, configuration, and troubleshooting, along with overall enterprise network maintenance, troubleshooting, and repair. Course also includes WAN and VLAN fundamentals, intermediate TCP/IP and network administration and maintenance as related to fielding and maintaining networking hardware components and systems.
Prerequisite: TECH 26301.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 36620  PROJECT MANAGEMENT IN ENGINEERING AND TECHNOLOGY  3 Credit Hours
The planning, organizing, directing, and controlling of company technology resources for project-based management functions. Includes project coordination requirements, management and planning methods and the use of various management and planning tools.
Prerequisite: Junior standing or Senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
TECH 41003  METHODS AND ORGANIZATION IN TECHNOLOGY
EDUCATION  3 Credit Hours
Curriculum development, organization, and evaluation for technology education's role in STEM. Includes demonstration techniques and safety instruction, lesson plan development and facility design principles.
Prerequisite: junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 41055  INDUSTRIAL PRACTICE  1-8 Credit Hours
(Slashed with TECH 51055) (Repeatable for credit) Practical experience in industry of cooperative work-study nature. R
Prerequisite: junior standing.
Schedule Type: Practicum or Internship
Contact Hours: 1-8 other
Grade Mode: Standard Letter

TECH 41093  VARIABLE TITLE WORKSHOP IN TECHNOLOGY  1-3 Credit Hours
(Repeatable for credit) Specialized instructional unit oriented toward the application of current technology concepts.
Prerequisite: None.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TECH 41096  INDIVIDUAL INVESTIGATION IN TECHNOLOGY
EDUCATION  1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Individual investigation course.
Prerequisite: Special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

TECH 41196  INDIVIDUAL INVESTIGATION IN TECHNOLOGY
EDUCATION  1-4 Credit Hours
(Repeatable for a maximum of 4 credit hours) Individual investigation course.
Prerequisite: Special approval by department.
Schedule Type: Individual Investigation
Contact Hours: 1-4 other
Grade Mode: Standard Letter-IP

TECH 42100  TRAINING TOPICS IN TECHNOLOGY  1-4 Credit Hours
(Repeatable for credit) Specialized advanced instruction oriented primarily to the theoretical base and application of current technology developed by experts in the specific technology. This course requires substantial base knowledge.
Prerequisite: Permission.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

TECH 42103  CONSTRUCTION SPECIFICATIONS AND SERVICES  3 Credit Hours
Edicates the student in the fundamental tenants that all the stakeholders in the design and construction industry hold to. With a firm understanding of what the roles and responsibilities that each stakeholder has to the others the student participates in the process of construction confident that they understand what they are expected to do in their role as well as what they can expect of the architect, the owner and the various trades.
Prerequisite: TECH 22200.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 42200  RADIATION PROCESSING OF MATERIALS  3 Credit Hours
Description of the radiation sources used in radiation technology and the study of the effects of electrons and gamma rays on materials of technological interest. Experiments deal with the effects of radiation in different materials.
Prerequisite: PHY 13002 or PHY 12202; and MATH 12002 or MATH 19002; and TECH 32100 and TECH 33363.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 42300  RADIATION DOSIMETRY AND SAFETY  3 Credit Hours
(Slashed with TECH 52400) Basic concepts of dosimetry and its units as applied to radiation technology, including theory of dosimeter response. Safety principles and practices followed in radiation environments, including terminology, policies and procedures to minimize exposure to radiation.
Prerequisite: TECH 42200.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 43016  ADVANCED PC-NETWORK ENGINEERING AND TROUBLESHOOTING  3 Credit Hours
An in-depth look at the architecture, operation, configuration, fault analysis, troubleshooting and repair of personal computer and computer network hardware components. Topics include the operation, assembly, configuration, diagnosis, and unit-level troubleshooting of personal computer hardware, computer networking hardware, and related hardware components.
Prerequisite: TECH 33020 and TECH 36302.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 43026  MICROPROCESSOR SYSTEMS  4 Credit Hours
Introduction to the architecture, operation and applications of an advanced microprocessor, focusing on assembly language programming and interfacing of standard programmable peripherals.
Prerequisite: TECH 33222 and TECH 46330.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter
TECH 43030  MECHATRONICS  3 Credit Hours
Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming including modeling, interfacing and signal conditioning.
Prerequisite: PHY 23102, TECH 33032 and TECH 33040.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

TECH 43031  MECHATRONICS II  3 Credit Hours
Advanced modeling, system response, closed loop control and system software for mechatronic systems.
Prerequisite: TECH 43030.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

TECH 43050  INVENTIVE PROBLEM SOLVING  3 Credit Hours
Theory of Inventive Problem Solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. Capstone web-based course for students finishing their bachelor's degree. Assists students in utilizing material learned in earlier courses to solve many real world problems in multiple disciplines.
Prerequisite: junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 43060  MANAGEMENT OF TECHNOLOGY INNOVATION  3 Credit Hours
Subjects covered in this course are case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development and elements of patents. A project is included that utilizes TRIZ software and innovation model elements.
Prerequisite: Junior or senior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 43080  INDUSTRIAL AND ENVIRONMENTAL SAFETY  3 Credit Hours
Examines the occupational safety and health act and fundamentals of industrial safety programs.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 43096  INDIVIDUAL INVESTIGATION IN APPLIED SCIENCE AND TECHNOLOGY  1-3 Credit Hours
(Repeatable for credit)Work study of an individual nature on a topic in a field of applied science and technology.
Prerequisite: Junior standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 1-3 other
Grade Mode: Standard Letter-IP

TECH 43132  MANUFACTURING ENGINEERING PROJECT  2 Credit Hours
Problem selected by students and instructors to develop students in desired specialty, or strengthen students in lesser field or prepare students for specific employment.
Prerequisite: Permission of instructor.
Schedule Type: Individual Investigation
Contact Hours: 4 other
Grade Mode: Standard Letter-IP

TECH 43220  ELECTRICAL MACHINERY  3 Credit Hours
Principles of operation and application of motors, generators, transformers and other magnetic devices; electrical power generation, distribution and use.
Prerequisite: TECH 23224.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 43221  DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION  4 Credit Hours
Focuses on applications of instrumentation and control systems using computers and cirocontrollers including sensors, transducers, instruments, data acquisition boards, software programs, signal conditioning and transmission methods.
Prerequisite: TECH 43026 and MATH 12003 and PHY 23102.
Corequisite: TECH 33223.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

TECH 43222  COMPUTER HARDWARE ENGINEERING AND ARCHITECTURE  3 Credit Hours
Internal architecture and operation of digital computers. Topics include computer processor datapaths and control, computer memory datapaths and control, pipelining and parallel processing, memory architecture and management, IO control, system bus architecture and properties, and computer control timing and synchronization.
Prerequisite: DSCI 26010 or TECH 33222.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 43350  COMPUTER-AIDED MANUFACTURING  3 Credit Hours
The application of computers to the preparation of machine tool control programs.
Prerequisite: TECH 10001 or TECH 26010; and TECH 20002.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

TECH 43580  COMPUTER-AIDED MACHINE DESIGN  3 Credit Hours
Description and Prerequisite Data Currently in Banner:Application of the principles of mechanics and strength of materials, with computer assistance to the design and selection of machine components under both static and dynamic loads.
Prerequisite: TECH 10001 or TECH 26010; and TECH 33111 and TECH 34002 and MATH 12002 and PHY 13001.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
TECH 43700 COMPUTER INTEGRATED MANUFACTURING 3 Credit Hours
Study of the computer integrated manufacturing system as it relates to product design, estimating inventory, machining and assembly, quality control and distribution.
Prerequisite: TECH 43550.
Schedule Type: Combined Lecture and Lab
Contact Hours: 5 other
Grade Mode: Standard Letter

TECH 43800 APPLIED ENGINEERING TECHNOLOGY SEMINAR (ELR) 3 Credit Hours
As the capstone course in Applied Engineering, students will develop and participate in all aspects of a project involving the solution of a problem through application of technology. Students must pass the ATMAE Certified Technical Manager (CTM) exam.
Prerequisite: Applied engineering technology (AENG) major and senior standing.
Schedule Type: Individual Investigation, Lecture
Contact Hours: 1 lecture, 2 other
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

TECH 46000 COMPUTER ENGINEERING TECHNOLOGY CAPSTONE (ELR) 3 Credit Hours
The course provides students with an integrative experience, applying aspects of the student's required coursework in computer engineering technology. Students gain experience in developing requirements in engineering specifications for a practical problem in networking and/or telecom-related projects. This course will address emerging issues, capabilities and challenges in the current field of study. A minimum C grade TECH 46330 or an approved object-oriented programming language is required for enrollment in the course.
Prerequisite: senior standing.
Corequisite: TECH 36620 and TECH 46350.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter
Attributes: Experiential Learning Requirement

TECH 46312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS 3 Credit Hours
Topics covered include the Public Switch Telephone Network infrastructure, electronic switching systems, transmission systems and emerging wireless networks. Note: This course is part of the Networking Hardware course sequence required for students enrolled in the Computer Engineering Technology concentration. Prerequisites: TECH 36302
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 46316 SERVER ADMINISTRATION AND CONFIGURATION 3 Credit Hours
This course emphasizes on administering and configuring server operating systems to solve engineering problems. Students are expected to learn Server OS, AD, OUs and virtualization.
Prerequisite: TECH 36302.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 46330 VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY 3 Credit Hours
The course content includes programming in a high-level object-oriented, event-driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms.
Prerequisite: TECH 26010 or DSCI 26010.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

TECH 46350 NETWORK MANAGEMENT AND DESIGN TECHNOLOGY 3 Credit Hours
Course covers the technical aspects of centrally managed and distributed Wide Area Networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students will use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management, and accounting management). Examples of current specific network management products are reviewed.
Prerequisite: TECH 36302.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 46411 REQUIREMENTS ENGINEERING AND ANALYSIS 3 Credit Hours
Describes requirements engineering concepts for practical systems. Topics include identifying stakeholders and how to work with them effectively, requirements elicitation techniques, requirements engineering in the Problem Domain, developing Use-Case scenarios, reference models, systems requirements specifications, validating and prototyping requirements and case study presentations by Industry SMEs. Some knowledge of a programming language or good analytical background is assumed. Prerequisite may be waived for students with industry experience in software development or consent from the instructor.
Prerequisite: minimum C (2.000) grade in TECH 26010 or DSCI 26010.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 46510 APPLIED INFORMATION TECHNOLOGY SECURITY 3 Credit Hours
The purpose of the course is to provide the student with an overview of the field of information security and assurance. Students will be exposed to the spectrum of security activities, methods, methodologies, and procedures. Coverage will include inspection and protection of information assets, detection of and react to threats to information assets, and examination of pre and post incident procedures and an overview of the information technology security.
Prerequisite: none.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
TECH 47200  SYSTEMS ENGINEERING  3 Credit Hours
(Slashed with TECH 57200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods, and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.
Prerequisite: junior standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 47210  SUSTAINABLE ENERGY I  3 Credit Hours
A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of present U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.
Prerequisite: None.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 47211  SUSTAINABLE ENERGY II  3 Credit Hours
An in-depth study of the analysis, selection, and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic and environmental impact associated with the development, implementation and use of various forms of energy.
Prerequisite: TECH 47210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 49525  INQUIRY INTO PROFESSIONAL PRACTICE  3 Credit Hours
Seminar during student teaching to explore issues and techniques appropriate to teaching technology education.
Corequisite: TECH 46031.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 50000  QUALITY STANDARDS  3 Credit Hours
This course introduces students to issues in quality standards, quality assurance and statistical inference in applied technology and process control. Topics include systems reliability, quality control, SPC, control charts, principles and methods of statistical analysis and prediction, and hypothesis testing.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 50092  INDUSTRIAL PRACTICE  1-4 Credit Hours
Practical experience in industry of a cooperative work-study nature.
Prerequisite: graduate standing; and special approval.
Schedule Type: Practicum or Internship
Contact Hours: 3-12 other
Grade Mode: Standard Letter

TECH 51001  METHODS IN TECHNOLOGY EDUCATION  3 Credit Hours
Methods of teaching curriculum development and evaluation which are unique to the profession of technology education.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 51002  ORGANIZATION IN TECHNOLOGY EDUCATION  3 Credit Hours
Principles and practices involved in curriculum and facility design appropriate for technology education including equipment maintenance.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 51003  METHODS AND ORGANIZATION IN TECHNOLOGY EDUCATION  3 Credit Hours
Curriculum development, organization, and evaluation for technology education's role in STEM. Includes demonstration techniques and safety instruction, lesson plan development and facility design principles.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 51051  FOUNDATIONS AND CONTEMPORARY THEORIES OF TECHNOLOGY EDUCATION  3 Credit Hours
This course explores the history, contemporary theories and practices of technology education. Included are site visits to exemplary technology education programs.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 51052  TECHNOLOGY AND ENGINEERING FOR K TO 8 STEM  3 Credit Hours
Using discussion, laboratory experience and field experiences this course explores technology education as it relates to all content areas of the K-12 curriculum.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter
TECH 51093 VARIABLE TITLE WORKSHOP IN TECHNOLOGY  1-3 Credit Hours
(Repeatable for credit) Specialized instructional unit oriented toward the
application of current technology concepts.
Prerequisite: Graduate standing.
Schedule Type: Workshop
Contact Hours: 1-3 other
Grade Mode: Satisfactory/Unsatisfactory

TECH 52200 RADIATION PROCESSING OF MATERIALS  3 Credit Hours
Description of the radiation sources used in radiation technology and
the study of the effects of electrons and gamma rays on materials of
technological interest. Experiments deal with the effects of radiation in
different materials.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 52400 RADIATION DOSIMETRY AND SAFETY  3 Credit Hours
Basic concepts of dosimetry and its units as applied to radiation
technology, including theory of dosimeter response and use of
dosimeters in radiation environments. Safety principles and practices
followed in radiation environments, including terminology, maximum
exposure limits, and procedures to minimize exposure to radiation.
Prerequisite: TECH 52200 and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 53026 INTRODUCTION TO MICROPROCESSORS  4 Credit Hours
Introduction to the architecture, operation and applications of an
advanced microprocessor, focusing on assembly language programming
and interfacing of standard programmable peripherals.
Prerequisite: TECH 33222 and 46330.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

TECH 53221 DIGITAL CONTROL SYSTEMS AND INSTRUMENTATION  4 Credit Hours
Focuses on applications of instrumentation and control systems
using computers and microcontrollers including sensors, transducers,
instraments, data acquisition boards, software programs, signal
conditioning and transmission methods.
Prerequisite: TECH 33223; and TECH 43026 or 53026; and graduate
standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 3 lecture, 2 lab
Grade Mode: Standard Letter

TECH 53222 COMPUTER HARDWARE ENGINEERING AND
ARCHITECTURE  3 Credit Hours
Internal architecture and operation of digital computers. Topics include
computer processor datapaths and control, computer memory datapaths
and control, pipelining and parallel processing, memory architecture
and management, IO control, system bus architecture and properties,
computer control timing, and synchronization of controls.
Prerequisite: graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 53550 COMPUTER-AIDED MANUFACTURING  3 Credit Hours
The application of computers to the preparation of machine tool control
programs, rapid prototyping and robotic control. Two hours lecture and
two hours lab.
Prerequisite: TECH 23581 and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

TECH 53700 COMPUTER INTEGRATED MANUFACTURING  3 Credit Hours
The study of computer integrated manufacturing as system control,
product design, machining, assembly, material logistics, quality,
information usage and system integration relates to it.
Prerequisite: TECH 31020 and TECH 53550 and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 4 other
Grade Mode: Standard Letter

TECH 53800 APPLIED ENGINEERING TECHNOLOGY SEMINAR  2 Credit Hours
An individual or group project involving the solution of a problem through
the application of technology.
Prerequisite: Special approval and graduate standing.
Schedule Type: Seminar
Contact Hours: 2 other
Grade Mode: Standard Letter

TECH 55551 INTRODUCTION TO NANOTECHNOLOGY  3 Credit Hours
Provides an in-depth overview of the fundamentals of nanoscience and
nanotechnology. Includes a survey of developments within the breadth
of the nanotechnology in various fields such as electronics, materials,
energy, and biomedical science, etc.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 56312 WIRELESS NETWORK AND TELECOMMUNICATION SYSTEMS  3 Credit Hours
Wireless and telecommunication electronic systems technologies. Topics
covered include the Public Switch Telephone Network infrastructure,
electronic switching systems, transmission systems, and emerging
wireless networks.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 56321 WEB DATABASE INTEGRATION  3 Credit Hours
Laboratory course focused on integrating data sources into web sites.
Current topics include server-side processing principles, Web forms,
database programming objects and structured query language.
Prerequisite: COMT 21005 and COMT 21036 and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter
TECH 56330  VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY  3 Credit Hours
The course content programming in a high-level object-oriented, event- driven visual programming language, Visual Basic 2010 Express, conditional statements, iterative statements, arrays, object oriented programming, classes, objects, methods, inheritance, exception handling, graphical user interfaces with Windows Forms. Includes a graduate-level VB programming project.
Prerequisite: graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 56350  NETWORK MANAGEMENT AND DESIGN TECHNOLOGY  3 Credit Hours
The technical aspects of centrally managed and distributed Wide Area Networks, with an emphasis on the techniques used to maintain and improve the performance of telecommunications and data networks. Students will use software packages to monitor the real-time performance of a network and to diagnose various networking hardware and software problems. Topics include the five stacks of network management (fault management, configuration management, performance management, security management, and accounting management). Examples of current specific network management products are reviewed.
Prerequisite: graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 56411  REQUIREMENTS ENGINEERING AND ANALYSIS TECHNOLOGY  3 Credit Hours
Techniques to conceptualize, develop and analyze requirements engineering specifications for software and telecommunications systems. Topics covered include identifying stakeholders and how to effectively work with them, requirements elicitation techniques; requirements engineering in the problem and solution domains. Strong analytic skills, algorithms or programming experience is recommended.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 57000  SUSTAINABLE SYSTEMS AND TECHNOLOGY  3 Credit Hours
Introduction to the fundamental concepts and principles of sustainability, sustainable technologies and sustainable systems. Provides students with an understanding of the basic principles and key issues of environmental, social and economic sustainability. Closely examines sustainability as it applies to the relationships among human beings, technology and the environment, with a special emphasis on sustainability in the context of "meeting humanity's current needs." Also stresses the ethics and importance of sustainability and the use of sustainable systems.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-S/U-IP

TECH 57010  ETHICS, TECHNOLOGY AND THE ENVIRONMENT  3 Credit Hours
Explores the fundamental issues of the interconnections between human beings and the environment, with an emphasis on the ethics and the importance of the sustainability. Takes an in-depth look at basic environmental concepts, ethics and values, as they relate to a wide range of practical subject matters, including technology, from global and national perspectives. Provides an in-depth look at sustainable systems and the ethical issues associated with sustainability as it relates to technology by focusing on common and future impacts as they apply to ethics, values and justice. Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-S/U-IP

TECH 57200  SYSTEMS ENGINEERING  3 Credit Hours
(Slashed with TECH 47200) Systems engineering as a method to solve problems. Introduction to the fundamental systems engineering principles, processes, and methodologies used to analyze, design, develop, and deploy complex, sustainable systems. Focuses on systems engineering as a logical, disciplined, systematic, and coherent approach to the design and the development of a system, across the full life cycle of the system. Special emphasis is made on the concepts, methods and activities used to analyze systems, to define and allocate requirements, to transform requirements into a system design, and to verify and validate the system.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-S/U-IP

TECH 57210  SUSTAINABLE ENERGY I  3 Credit Hours
(Cross-listed with TECH 47210) A comprehensive overview of energy sources and energy systems, with an emphasis on renewable energy and the implementation and sustainability of various forms of energy. Examines the characteristics of conventional non-renewable energy systems, along with alternate, renewable energy sources and systems. Includes fundamental energy concepts and the conversion, delivery, distribution, and storage of energy. Explores the technological application of various sources of energy and compares their benefits and limitations. Also presents an overview of presents U.S. and global energy needs and demands, and the sustainable energy technologies that may be used to meet future energy demands.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-S/U-IP

TECH 57211  SUSTAINABLE ENERGY II  3 Credit Hours
(Cross-listed with TECH 47211) An in-depth study of the analysis, selection, and implementation of various energy and power sources, with an emphasis on the use of renewable, sustainable energy systems. Focuses on determining energy needs, and on assessing and comparing energy systems with respect to efficiency, technical feasibility, available resources, cost and sustainability characteristics. Includes economics of energy systems, methods for determining costs, and cost-benefit analysis of various energy and power systems. Also includes the social, economic, and environmental impact associated with the development, implementation, and use of various forms of energy.
Prerequisite: graduate standing and TECH 57210.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-S/U-IP
TECH 60000  PROJECT MANAGEMENT IN A TECHNOLOGICAL ENVIRONMENT  3 Credit Hours
The planning, organizing, directing and controlling of company technology resources for relatively short term objectives. Students will also learn to make application of current projects.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 60001  QUANTITATIVE METHODS IN TECHNOLOGY  3 Credit Hours
Descriptive and inferential statistics used in technology and engineering. Emphasis is on the methods of analysis and the interpretation of data associated with research and development in technological and engineering environments. Course topics include representation of data, descriptive statistics, probability and probability distributions, inferential statistics, statistical design, and the analysis of experiments. No previous familiarity with probability or statistics is assumed. The ability to utilize basic algebra is required.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 60003  SIX-SIGMA: TOOLS AND APPLICATIONS FOR TECHNOLOGY MANAGEMENT  3 Credit Hours
Principles and concepts of six-sigma to improve organizational efficiency, effectiveness and productivity by improving quality, reducing waste, defects and failures.
Prerequisite: TECH 50000 and 60001; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 60078  RESEARCH METHODS IN TECHNOLOGY  3 Credit Hours
Research techniques for the technologist. Methods for designing, conducting, analyzing and interpreting results of technological research.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 61000  INDUSTRIAL TECHNOLOGY EDUCATION  3 Credit Hours
This course provides students with an understanding of the rationale and issues related to developing the industrial technology education program.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 61095  SPECIAL TOPICS IN APPLIED ENGINEERING  1-4 Credit Hours
(Repeatable for credit) Study of significant and current issues in various Applied Engineering topics not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

TECH 61098  RESEARCH  1-15 Credit Hours
(Repeatable for credit) Research or individual investigation for master's level graduate students. Credits earned may be applied toward meeting degree requirements if department approves.
Prerequisite: Graduate standing.
Schedule Type: Research
Contact Hours: 1-15 other
Grade Mode: Standard Letter-S/U

TECH 61199  THESIS I  2-6 Credit Hours
Thesis option student must register for a total of 6 hours, 2 to 6 in a single semester or to be distributed over several semesters if desired.
Prerequisite: Advisor's special approval and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2-6 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TECH 61299  THESIS II  2 Credit Hours
Thesis students must continue registration each semester until all degree requirements are met.
Prerequisite: TECH 61199 and graduate standing.
Schedule Type: Masters Thesis
Contact Hours: 2 other
Grade Mode: Satisfactory/Unsatisfactory-IP

TECH 62396  INDIVIDUAL INVESTIGATION IN ELECTRONIC TECHNOLOGY  2 Credit Hours
(Repeatable for credit) Individual investigation of a student-selected topic oriented toward the technical aspects of electronics.
Prerequisite: TECH 53221 and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

TECH 63010  COMPUTER HARDWARE  3 Credit Hours
Introduction to the hardware, architecture and operation of the personal computer and associated devices. Topics include personal computer architecture and operation fundamentals, basic hardware, data busses and ports, hardware component packaging, auxiliary hardware components, and computer assembly, basic hardware installation, configuration and troubleshooting.
Prerequisite: graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 63020  FIBER OPTIC SYSTEMS  3 Credit Hours
Principles and characteristics of fiber optics, fiber optic system components and applications of fiber optics in electronic communication systems.
Prerequisite: TECH 33220 and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
TECH 63031 PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
Programmable logic controllers (PLCs) covering hardware, ladder logic programming, networking and communications. Programming timers, counters and sequencers and an introduction to human machine interfaces (HMIS). An understanding of basic electricity and computer technology is required.
Prerequisite: graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 1 lab
Grade Mode: Standard Letter

TECH 63032 ADVANCED PROGRAMMABLE LOGIC CONTROLLERS 3 Credit Hours
Advanced principles and applications of programmable logic controllers with a focus on using sequential function charts to control complex industrial processes. Includes real time control issues, PLC networking, programming languages other than ladder logic, standards, motion control, supervisory control and data acquisition, process control, alarm management, power failure strategies and safety.
Prerequisite: TECH 33032 or TECH 63031; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 63040 ELECTRONIC COMMUNICATIONS 3 Credit Hours
Study of electronic communications systems fundamentals, characteristics, design considerations and implementation. Topics include signal modulation and demodulation, multiplexing, noise, transmitters, receivers, signal propagation, digital communications, transmission lines, antennas and practical applications.
Prerequisite: graduate standing.
Schedule Type: Laboratory, Lecture, Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 63041 MOTORS AND CONTROLLERS 3 Credit Hours
Theory and application of AC and DC motors, motor control, and machine operations in mechatronic systems. Includes introduction to basic control system terms and devices, input and output transducers, signal conditioning, open loop and closed loop control, stability and performance.
Prerequisite: TECH 21021 and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 63045 MECHATRONICS 3 Credit Hours
Application of automation concepts in motion control, electrical circuits, fundamental mechanics, control systems and programming including modeling, interfacing and signal conditioning.
Prerequisite: TECH 33032 or TECH 63932; and TECH 33040 or TECH 63040; and PHY 23102; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 63046 ADVANCED MECHATRONICS 3 Credit Hours
Advanced modeling, system response, closed loop control and system software for mechatronic systems.
Prerequisite: TECH 43030 or TECH 63045; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 63050 TRIZ-THEORY OF INVENTIVE PROBLEM SOLVING 3 Credit Hours
Theory of Inventive Problem Solving, TRIZ, is a collection of powerful problem-solving tools for a broad range of inventive problems. The theory originated in Russia by the study of over 2 million patents. Web-based capstone for students finishing their master’s degree. Students utilize material learned in earlier courses to solve real world problems in multiple disciplines.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 63060 MANAGEMENT OF TECHNOLOGY INNOVATION 3 Credit Hours
Subjects covered in this course include: case studies of innovative companies, elements of an innovation process, review of major problem solving methods, technical opportunity analysis, technical planning, technological forecasting, concept development and elements of patents. A project is included that utilizes TRIZ software and innovation model elements.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 63070 COMPUTER HARDWARE DESIGN AND INTEGRATION 3 Credit Hours
In-depth study of personal computer (PC) and computer networking hardware. Topics include PC design, basic and auxiliary PC hardware components, PC assembly, PC upgrade and optimization, and PC repair, diagnosis and troubleshooting. Additional topics include computer networking hardware, network architecture, network communication protocols, and network installation, configuration and maintenance. Includes laboratory.
Prerequisite: EERT 22014 or TECH 33010; and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 63100 COMPUTER-AIDED DESIGN 3 Credit Hours
Study of modern industrial practice using computers in advanced graphics, design and analysis including geometric dimensioning and tolerancing, parametric design, solid modeling and finite element analysis. Two hours lecture and two hours lab.
Prerequisite: TECH 23581 and graduate standing.
Schedule Type: Laboratory, Lecture
Contact Hours: 1 lecture, 3 lab
Grade Mode: Standard Letter

TECH 63496 INDIVIDUAL INVESTIGATION IN ENERGY/POWER TECHNOLOGY 1-4 Credit Hours
(Repeatable for credit) Individual investigation of selected topics associated with energy and power technology.
Prerequisite: graduate standing and special approval.
Schedule Type: Individual Investigation
Contact Hours: 3-12 other
Grade Mode: Standard Letter-IP
TECH 63870 FACILITY DESIGN AND MATERIAL HANDLING  3 Credit Hours
Intended to provide students with a fundamental understanding of how layout affects the flow through a system. Both qualitative and quantitative tools are presented for a complete approach to facility design and material handling.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 64010 CONNECTIVITY AND INTEROPERABILITY IN INDUSTRY  3 Credit Hours
This course focuses on integrating and administering multiple systems in an industrial environment. Two-and-a-half-hour lecture and 30-minute lab weekly.
Prerequisite: TECH 46311 and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 64012 INFORMATION TECHNOLOGY AND AUTOMATION IN INDUSTRY  3 Credit Hours
This course will focus on developing systems that analyze and automate industrial processes and provide decision support. Two and one half hours lecture and one half hour lab.
Prerequisite: Special approval and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 64095 SPECIAL TOPICS IN COMPUTER ENGINEERING TECHNOLOGY  1-4 Credit Hours
(Repeatable for credit) Study of significant and current issues in computer and network engineering technologies not covered in regular courses. Offered when opportunities and resources permit; the topic is announced when the course is scheduled.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 1-4 lecture
Grade Mode: Standard Letter

TECH 64312 ADVANCED WIRELESS TELECOMMUNICATION SYSTEM AND NETWORK TECHNOLOGIES  3 Credit Hours
Describes technologies associated with wireless and telecommunications systems. Topics covered include Public Switch Telephone Network Infrastructures, Intelligent Networks, Wireless Technologies in Manufacturing Enterprises, 3GPP Standards, ITU Standards.
Prerequisite: TECH 56350; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 64396 INDIVIDUAL INVESTIGATION IN COMMUNICATION TECHNOLOGY  2 Credit Hours
(Repeatable for credit) Independent research consisting of a problem statement followed by literature search and application of an industrial practice. A proposal must be developed and a written paper project presented to faculty and industrial representatives.
Prerequisite: Special approval and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 2 other
Grade Mode: Standard Letter

TECH 65330 ADVANCED VISUAL BASIC PROGRAMMING IN ENGINEERING TECHNOLOGY  3 Credit Hours
Advanced concepts in Visual Basic Programming for solving engineering problems. Topics covered include classes and objects; SQL server databases, Language Integrated Query, creating web apps, programming web forms, and security. Familiarity with Visual Basic Programming in Engineering Technology (TECH 56330) is strongly recommended.
Prerequisite: graduate standing and TECH 56330.
Schedule Type: Combined Lecture and Lab
Contact Hours: 2 lecture, 2 lab
Grade Mode: Standard Letter

TECH 65400 EVALUATING QUALITY SYSTEM THROUGH PROCESS CONTROL  3 Credit Hours
Evaluating industrial quality through statistical process control. Methods to produce design process control and process capability are analyzed and evaluated for industrial quality control. Use of inspection equipment and assurance of receiving fabricating and shipping acceptable materials products and systems. Scientific management.
Prerequisite: Graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 65500 QUALITY SYSTEMS AND INDUSTRIAL PRODUCTIVITY  3 Credit Hours
Tools and techniques for increasing industrial productivity through total quality management. Productivity improvement techniques involving human, technology, material, product and processes, utilizing value engineering, analytical models and scientific management tools in high-technology environment.
Prerequisite: Graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 65550 DESIGN AND ANALYSIS OF EXPERIMENTS IN TECHNOLOGY  3 Credit Hours
Introduces planning and conducting experiments, as well as analyzing the resulting data using statistical techniques to obtain valid and objective conclusions. Also focuses on experiments performed in areas such as product design, manufacturing process development and process improvement.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 65700 APPLIED RELIABILITY ENGINEERING  3 Credit Hours
Introduction to Reliability Engineering for Engineering-Technology Management Professionals. Course includes design for reliability, failure mode and failure effect analysis, reliability testing and measurement, statistical and mathematical modeling, assessment and forecasting.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter
TECH 65800  BURN-IN/STRESS TESTING FOR RELIABILITY  3 Credit Hours
Comprehensive course on reliability testing to analyze and establish reliability standards for components, products and systems. Specific emphasis on burn-in and stress testing procedures to perform effective reliability statistical calculations will be the major focus of the course.
Prerequisite: TECH 65700 and graduate standing.
Schedule Type: Combined Lecture and Lab
Contact Hours: 3 other
Grade Mode: Standard Letter

TECH 66350  ADVANCED NETWORK MANAGEMENT AND DESIGN TECHNOLOGY  3 Credit Hours
Covers network management techniques including the TMN framework and the ISO Model for managing WAN communication networks. Topics covered include network management technologies, TMN protocols, Common Management Information Protocol, ISO Model, Management Information Base (MIB) architecture, Network Operations Center and Network Design. Examples of current network management tools are reviewed. Upon completion of this course, students will have a good understanding of network management framework and network management technologies for communication networks.
Prerequisite: TECH 56350; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 66380  ADVANCED NETWORKING  3 Credit Hours
Provides student with experience in advanced computer networking techniques including network architectures, network security, network virtualization and storage area networks.
Prerequisite: TECH 56350; and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 66382  NETWORK SECURITY  3 Credit Hours
Provides student with experience in fundamental and advanced computer networking techniques including network architectures, LAN systems, network security, and network management and administration.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 66384  COMPUTER FORENSICS  3 Credit Hours
Provides students with experience in proper computer forensic techniques including incident response, forensic preparation, and data recovery and analysis.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 66411  WIRELESS AND TELECOMMUNICATION SYSTEMS REQUIREMENTS ENGINEERING  3 Credit Hours
Methods and techniques to develop requirements engineering specifications for wireless and telecommunication systems. Topics covered include Industry standards for telecom and wireless communications, reference data models, functional requirements specifications, performance analysis, the requirements review process, and systems verification. Familiarity with Requirements Engineering and Analysis (TECH 56411) concepts is recommended.
Prerequisite: TECH 66411 and graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter

TECH 66596  INDIVIDUAL INVESTIGATION IN MATERIALS TECHNOLOGY  2 Credit Hours
(Repeatable for credit)Research directed toward the study and application of metallic and nonmetallic materials.
Prerequisite: TECH 20002 or TECH 33363 and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 2 other
Grade Mode: Standard Letter-IP

TECH 66796  INDIVIDUAL INVESTIGATION IN INDUSTRIAL PROCESSES  2 Credit Hours
(Repeatable for credit)Individual investigation of a student-selected topic oriented towards industrial/manufacturing processes.
Prerequisite: TECH 20002 and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

TECH 67220  LIFE CYCLE DESIGN I  3 Credit Hours
An in-depth investigation of Life Cycle Design of sustainable systems. Explores the cradle to cradle path of products with an emphasis on system Life Cycle stages and processes from a sustainability perspective. Examines how environmentally conscious system design can be accomplished by considering the environmental impact of technology and engineering as the part of the sustainable design process. Includes the study of sustainable development with respect to Green Technologies, hazardous materials and processes and reducing the environmental impact of product development and utilization. Also includes an introduction to Life Cycle Assessment and various Environmental and Life Cycle standards.
Prerequisite: graduate standing.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-S/U-IP
TECH 67221  LIFE CYCLE DESIGN II  3 Credit Hours
An in-depth study of environmental performance, environmentally
conscious design and sustainable development. Focuses on Life
Cycle Analysis and Assessment as a means to determine the potential
economic, environmental, and ecological impact of products, processes,
and activities across their entire life cycle. Takes a close look at the
beneficial and detrimental effects of various technologies, materials,
products and processes with special attention to the reduction of harmful
effects to human beings, the ecosystem, and the environment. Covers
the analysis and assessment of energy consumption, natural resource
depletion, and environmental degradation, and ways to minimize
detrimental effects on the environment. Includes the use of various life
cycle engineering and assessment processes, models and analytical
tools to identify, evaluate, and compare the environmental consequences
associated with various products/activities, across a wide range of
impact categories, to assist in design and decision making.
Prerequisite: graduate standing and TECH 67220.
Schedule Type: Lecture
Contact Hours: 3 lecture
Grade Mode: Standard Letter-S/U-IP

TECH 67596  INDIVIDUAL INVESTIGATION IN MANUFACTURING
TECHNOLOGY  2 Credit Hours
(Repeatable for credit) Independent study related to manufacturing
industries. The study may include the development of a product for
manufacture (or service) or the in depth examination of an element of
manufacturing.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

TECH 68196  INDIVIDUAL INVESTIGATION IN ENGINEERING GRAPHICS
  2 Credit Hours
(Repeatable for credit) Investigation of selected topics within engineering
graphics including computer-aided design.
Prerequisite: TECH 31087 and graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP

TECH 68796  INDIVIDUAL INVESTIGATION IN INDUSTRIAL
TECHNOLOGY SYSTEMS DESIGN  2 Credit Hours
(Repeatable for credit) The study of two-and three dimensional design as
related to manufacturing construction communication and energy power
including patents creativity and problem solving approaches.
Prerequisite: Graduate standing.
Schedule Type: Individual Investigation
Contact Hours: 3 other
Grade Mode: Standard Letter-IP