

CURRICULUM VITAE

David M. Kender

Department of
Biomedical, Industrial, and Human Factors Engineering
Wright State University
Dayton, Ohio 45435

(937) 775-5044

Current Status: Senior Lecturer of Engineering, Emeritus

Education:

M.S. (Human Factors Engineering), Wright State University, Dayton, Ohio, 1996

M.S. in Education, (Educational Technology), Wright State University, Dayton, Ohio, 1989

B.S. (Electrical Engineering), Air Force Institute of Technology, Dayton, Ohio, 1973

B.S. Education (Mathematics), Miami University, Oxford, Ohio, 1964

Years of Service

2017 - Senior Lecturer, Emeritus	College of Engineering and Computer Science
2016 - Graduate Faculty Re-Appointment	College of Engineering and Computer Science
2011 - Graduate Faculty Re-Appointment	College of Engineering and Computer Science
2010 - Senior Lecturer of Engineering Appointment	College of Engineering and Computer Science
2009 - Lecturer Continuing Appointment	College of Engineering and Computer Science
2006 - Graduate Faculty Appointment	College of Engineering and Computer Science
2003 - Faculty Lecturer of Engineering Appointment	College of Engineering and Computer Science
1997 - Adjunct Instructor Appointment	College of Engineering and Computer Science
1997 - Graduate Faculty Re-Appointment	College of Education and Human Services
1994 - Graduate Faculty Appointment	College of Education and Human Services
1993 - Adjunct Instructor Appointment	College of Education and Human Services
1992 - Adjunct Instructor Appointment	College of Science and Mathematics

Teaching and Industrial Experience:

2017-Present	Senior Lecturer, Emeritus, Department of Human Factors, Industrial Systems, and Biomedical Engineering, Wright State University, Dayton, OH
2010-2017	Senior Lecturer, Department of Human Factors, Industrial Systems, and Biomedical Engineering, Wright State University, Dayton, OH
2003-2010	Lecturer, Department of Human Factors, Industrial Systems, and Biomedical Engineering, Wright State University, Dayton, OH
1997-2003	Adjunct Instructor, Department of Human Factors, Industrial Systems, and Biomedical Engineering, Wright State University, Dayton, OH
1993-2000	Adjunct Instructor, Department of Teacher Education, Wright State University, Dayton, OH
1992-1994	Adjunct Instructor, Department of Mathematics and Statistics, Wright State University, Dayton, OH
1990-1998	Adjunct Instructor, Clark State Community College, Springfield, Ohio (Mathematics, Physical Science, Computer Programming)
1964-1988	Military Officer, United States Air Force (Staff Engineer and Program Manager)

CURRICULUM VITAE

David M. Kender

Page Two

Courses Taught: Wright State University

College of Engineering and Computer Science

Course Numbering Changes Due to Conversion from Quarters to Semesters

BME 1950	Undergraduate Research in Biomedical Engineering
BME 1980	Special Topics in Biomedical Engineering
BME 3511	Bioelectronics I
BME 3512	Bioelectronics II
BME 6010	Ethics in Engineering (Academic Integrity)
IHE 6010	Ethics in Engineering (Research and Practice)
ISE 2211	Statistics for Engineers
BME 195	Introduction to Biomedical Engineering
BME 422/622	Biophysics
BME 460/660	Biomedical Electronics
BME 461/661	Bioinstrumentation
EGR 190	Fundamentals of Engineering and Computer Science
EGR 199	Preparatory Math for Engineering and Computer Science
EGR 482	Engineering Fundamentals
HFE 301/699	Statistical Methods for Testing, Development, and Manufacturing I
HFE 302/699	Statistical Methods for Testing, Development, and Manufacturing II
HFE 306/606	Human Factors in Engineering and Design
HFE 307/607	Industrial Ergonomics
HFE 450/650	Human Factors Engineering Analysis Methods
HFE 451/651	Human Factors Engineering in Computer Systems Design
HFE 471/671	Systems Performance Modeling
HFE 480/680	Engineering in Occupation Safety and Health
HFE 482/682	Operations and Facilities Design
HFE 603	Statistics for Engineers
HFE 723	Human Factors Engineering in Aerospace Medicine
HFE 734	Experimental Research and Evaluation in Human Factors Engineering
HFE 742	Understanding and Aiding Human Decision Making
IHE 677	Systems Process Analysis
IHE 678	Computational Models for Industrial Systems Engineering
ISE 210	Engineering Perspectives
ISE 301	Statistical Methods for Testing, Development, and Manufacturing I
ISE 302	Statistical Methods for Testing, Development, and Manufacturing II
ISE 477	Systems Process Analysis
ISE 478	Computational Models for Industrial Systems Engineering

College of Education and Humans Services

ED 633	Teaching Skills and Strategies
EDL 670	Spreadsheet Applications Across the Curriculum
EDL 731	Statistics and Appraisal in Education
EDL 793	Computer Applications for Educational Leaders
EDT 280	Classroom Application of Computers
EDT 470	Integrating Software Applications
EDT 485	Computers for Educators
EDT 670	Staff Development Institute for Teachers
EDT 786	Application of Computers in Education

College of Mathematics and Science

MTH 105	Mathematics and the Modern world
STT 264	Elementary Statistics I

CURRICULUM VITAE

David M. Kender

Page Three

Scientific and Professional Societies:

Member The Honor Society of Phi Kappa Phi
Member The Engineering Honor Society of Tau Beta Pi

Honors and Awards:

Excellence in Teaching - Most Effective Teacher, College of Engineering and Computer Science,
Wright State University (2012)
Excellence in Teaching - Most Effective Teacher, College of Engineering and Computer Science,
Wright State University (Top Five Nominee 2006, 2007, 2008, 2010, 2011, 2016)
Excellence in Teaching - Most Effective Adjunct Teacher, College of Engineering and Computer Science,
Wright State University, 2001, 2002
Adjunct Faculty Award for Professional Excellence, Clark State Community College, 1993, 1997
Merit Award, Johns Hopkins National Search for Computing to Assist Persons with Disabilities, 1991

Institutional and Professional Service:

Institutional Service

Member	University Classrooms of the Future	2003-2005
Member	University Faculty Affairs Committee	2005-2006
Member	WSU Trebuchet Competition Group	2004-2013
Member	CECS College Teaching Awards Committee	2013-2015
Member	CECS College Academic Computing Committee	2010-2017
Member	CECS College ABET Committee	2009-2010
Member	CECS College Service Courses Committee	2009-2010
Member	CECS College Web-Page Development Committee	2005-2006
Chair	BIE Department ABET Committee	2009-2010
Chair	BIE Continuous Curriculum Improvement Committee	2004-2006
Member	BIE Industrial Systems Curriculum Committee	2003-2017
Member	BIE Biomedical Engineering Curriculum Committee	2003-2017
Member	BIE Alumni/Industrial Advisory Board	2003-2017

Grants:

1. Kender, David M. (Principal Investigator) and Hance Dennis (Co-Investigator):: Transition of BME 3511 Bioelectronics from a Traditional Delivery of Instruction to a Student Success Center SCALE-UP Classroom (Fall 2015) Wright State University Teaching Innovation Grant Proposal – Student Engagement and Alternative Delivery 2015 Funded: (\$6,000)
2. Kender, David M. (Principal Investigator): Transition of ISE 2211 Statistics for Engineers from a Traditional Delivery of Instruction to a Student Success Center SCALE-UP Classroom (Fall 2015) Wright State University Teaching Innovation Grant Proposal – Student Engagement and Alternative Delivery 2015 Funded: (\$6,000)

CURRICULUM VITAE

David M. Kender

Page Four

Journal Publications:

Journal Articles

Phillips, C., Repperger, D., Kinsler, R., Bharwani, G. and Kender, D.: Quantitative Model of the Human-Machine Interaction and Multi-Task Performance: A Strategy Function and the Unity Model Paradigm. Computers in Biology and Medicine, 37:1259-1271, 2007

Phillips, C. A., Kinsler, R. E., Repperger, D. W., Mandal, J., Neidhard-Doll, A. T., & Kender, D. M. (2013). A human-machine interaction strategy function: information throughput and weighting with application to Multiple-Attribute-Task-Battery. *Theoretical Issues in Ergonomics Science*, 14(4), 379-401.

Camden, A. N., Phillips, C.A., McKinley, R.A., Kender, D. M. and Nelson, J.: (2015) Strategy Shifting With Multisensorial Cueing: Theoretical Capability of Multitasking Throughput. IEEE Transactions on Human-Machine Systems 01/2015; DOI:10.1109/THMS. 2015.2470679

Journal Abstracts

Phillips, C.A., Repperger, D.W., Kinsler, R., Bharwani, G. and Kender, D.: Human-Machine-Interaction Parameter Applied to the Multi-Attribute Task Battery. Aviation Space Environmental Medicine, 78:239, 2007

Phillips, C.A., Kinsler, R., Repperger, D.W., and Kender, D.: Human-Machine-Interaction Model: Definition and Application to Multiple Task Information Processing. Aviation Space Environmental Medicine, 81:255, 2010

A N. Camden, C. A. Phillips, R. A. McKinley, D. M. Kender: (2015) The Effect of a Constant MATB Information Input Rate on Human Performance with Increasing Number of Tasks and Task Combinations. Aerospace Medicine and Human Performance, 86(3):206-207, 2015

Conference Papers:

Space, Environmental Medicine

Phillips, C. A., Walters, C. M., Reynolds, D. B., & Kender, D. M. (2012). INFORMATION THROUGHPUT AS A MULTI-TASKING PERFORMANCE METRIC FOR MULTIPLE-ATTRIBUTE-TASK-BATTERY(MATB). *Aviation, Space, and Environmental Medicine*, 83(3). (2013)

Phillips, C., Walters, C., McKinley, A., Kinsler, R., Neidhard, A., & Kender, D. (2013). INFORMATION THROUGHPUT MODEL FOR THE RESOURCE MANAGEMENT COMPONENT OF THE MULTIPLE-ATTRIBUTE-TASK-BATTERY(MATB). *Aviation, Space, and Environmental Medicine*, 84.4 (2013)

Camden, A. N., Walters, C., Phillips, C. A., McKinley, A., Neidhard, A., and Kender, D. Enhancement of Information Throughput Using the Resource Management Component of the Multiple-Attribute Task Battery. 39th AIAA Dayton-Cincinnati Aerospace Sciences Symposium, 5 March 2014, Dayton, OH.