# CURRICULUM VITA

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**Education:**
Ph.D. in Business Administration, University of Colorado - Boulder, 1991.
M.S. in Accounting/Information Systems, Middle Tennessee State University, 1981.
B.B.A. in Information Systems, Middle Tennessee State University, 1980.

**Most Recent Professional Experience:**
2019 – Present        Associate Professor (affiliated), Business Information Technology, Virginia Tech
2021 – Present        Member, Calhoun Discovery Program Design Team, Virginia Tech
2019 – 2021           Research Associate, Calhoun Center for Higher Education Innovation, Virginia Tech
2013 – 2016           Darrell D. and Betty R. Martin Junior Faculty Fellow, Virginia Tech
2010 – 2020           Associate Professor (courtesy), Computer Science, Virginia Tech
2000 – Present        Associate Professor, Accounting and Information Systems, Virginia Tech

**Sample Refereed Journal Publications:**
- J.H. Williams, D.J. Jaskowak, D.P. Tegarden, The Effects of Match Congestion on Gait Complexity in Female Collegiate Soccer Players. Translational Sports Medicine, 2(3) (2019) pp. 130-7.
- J.H. Williams, S. Hoffman, D.J. Jaskowak, D.P. Tegarden, Physical Demands and Physiological Responses of Extra Time Matches in Collegiate Women's Soccer. Science and Medicine in Football, 3 (2019), pp. 307-12.
- D.P. Tegarden, L.F. Tegarden, W. Smith, S.D. Sheetz, De-Fusing Organizational Power Using Anonymity and Cognitive Factions in a Participative Strategic Planning Setting. Group Decision and Negotiation, 25(1) (2016), pp. 1-29.
- D.P. Tegarden, L.S. Schaupp, R.B. Dull. Identifying Ontological Modifications to the Resource-Event-Agent (REA) Enterprise Ontology Using a Bunge-Wand-Weber Evaluation. Journal of Information Systems, 27(1) (2013), pp. 105-128.
- D.P. Tegarden, S.D. Sheetz, and D. Henderson. Strategic Planning in an Accounting Information Systems Department using Cognitive Factions and Causal Maps. Accounting Education: An International Journal, 19(5) (2010), pp. 473-500.
- J. Teets, D. Tegarden, and R. Russell. Using Cognitive Fit Theory to Evaluate the Effectiveness of Information Visualizations: An Example Using Quality Assurance Data. IEEE Transactions in Visualization and Computer Graphics, 16(5) (2010), pp. 841 - 853.
- P. Ghandforoush, T.K. Sen, and D. Tegarden, R. Ramaswamy. Designing Systems Using Business Components: A Case Study in Call Center Automation. International Journal of Electronic Customer Relationship Management, 4(2) (2010), pp. 161-179.
- D.P. Tegarden, L.F. Tegarden, S.D. Sheetz. Cognitive Factions in a Top Management Team: Surfacing and Analyzing Cognitive Diversity using Causal Maps. Group Decision and Negotiation, 18(6) (2009), pp. 537-566.
- R. Ravichandar, J. D. Arthur, S. A. Bohner, and D. P. Tegarden. "Improving Change-Tolerance through Capabilities Based Design: An Empirical Analysis," Journal of Software Maintenance and Evolution: Research and Practice, 20(2) (2008), pp. 135-170.
- R.B. Dull, D.P. Tegarden, and L.S. Schleifer. "ACTVE: A Proposal for an Automated Continuous Transaction Verification Environment," Journal of Emerging Technologies in Accounting, 3 (2006), pp. 81-96.
- R.B. Dull and D.P. Tegarden. "Using Control Charts to Monitor Financial Reporting of Public Companies," International Journal of Accounting Information Systems, 5(2) (2004), pp. 109-127.

- D.P. Tegarden and S.D. Sheetz. "Group Cognitive Mapping: A Methodology and System for Capturing and Evaluating Managerial and Organizational Cognition," <u>Omega</u>, 31 (2003), pp. 113-125.
- D. P. Tegarden and S. D. Sheetz. "Cognitive Activities in OO Development." <u>International Journal of Human-Computer Studies</u>, V. 54 (2001), pp. 779-798.
- S. D. Sheetz and D. P. Tegarden. "Illustrating the Cognitive Consequences of Object-Oriented Systems Development." <u>Journal of Systems and Software</u>, V. 59 (2001), pp. 163-179.
- R.B. Dull and D.P. Tegarden. "A Comparison of Three Visual Representations of Complex Multi-Dimensional Accounting Information." <u>Journal of Information Systems</u>, 13(2) (Fall 1999), pp. 117-131.
- D.P. Tegarden. "Business Information Visualization." <u>Communications of the AIS (Association for Information Systems)</u>, V. 1, No. 1, Paper 4, January, 1999, http://cais.isworld.org/articles/default.asp?vol=1&art=4.
- D.P. Tegarden, S.D. Sheetz and D.E. Monarchi. "A Software Complexity Model of Object-Oriented Systems." <u>Decision Support Systems</u>, v. 13 (March 1995), pp. 241-262.
- B. Henderson-Sellers and D.P. Tegarden. "The theoretical extension of two versions of cyclomatic complexity to multiple entry/exit modules." <u>Software Quality Journal</u>, v. 3 (December 1994), pp. 253-269.

**Sample Edited Journal Publications:**
- D.J. Jaskowak, J.H. Williams, D.P. Tegarden, Use of a GPS-Embedded Accelerometer to Evaluate the Complexity of the Running Gait. Part 2: Effects of Fatiguing Activity. <u>Sport Performance & Science Reports</u>, 1 (Jan 3, 2019), pp. 1-3.
- J.H. Williams, D.J. Jaskowak, D.P. Tegarden, Detecting Structured Variability in the Running Gait Using a GPS-Embedded, Trunk-Mounted Accelerometer. Part 1: Method Description. <u>Sport Performance & Science Reports</u>, 1 (December 24, 2018), pp. 1-4.
- J.H. Williams, S. Hoffman, D.P. Tegarden, M. Russell, Halftime Re-Warm Up Influences Second Half Soccer Performance: A Competitive Match Analysis. <u>Sport Performance & Science Reports</u>, 1 (April 24, 2018), pp. 1-4.

**Textbook:**
- A. Dennis, B.H. Wixom, D. Tegarden. Systems Analysis and Design: An Object-Oriented Approach With UML, 6th Ed., John Wiley, 2021.

**Sample Book Chapters:**
- A. Arnold, T. Rikakis, J. Keyel, D. Tegarden, K. Carlson. "The Integrative Professional and Personal Development (IPPD) and 21st Century Knowledge" in <u>Adaptive Lifelong Learning for an Inclusive Knowledge Economy</u>, Virginia Tech Publishing, 2020, pp. 13-35.
- T Rikakis, K. Carlson, J. Keyel, O. Cardwell, D. Tegarden, R. Swearer, B. Lockee, Feng Hou, G. Holmes, S. Johnson. "Adaptive Approaches to Integrative Professional and Personal Development" in <u>Adaptive Lifelong Learning for an Inclusive Knowledge Economy</u>, Virginia Tech Publishing, 2020, pp. 37-57.
- D. Tegarden, L. Tegarden, S. Sheetz. "Using Causal Mapping to Uncover Cognitive Diversity Within a Top Management Team." in <u>Causal Mapping for Information Systems and Technology Research: Approaches, Advances and Illustrations</u>, ed. by D. Armstrong and V. Narayanan, Idea Group, 2005.
- R. Dull and D. Tegarden. "Visual Representations of Accounting Information." in <u>Business Intelligence Techniques: A Perspective from Accounting and Finance</u>, ed. by M. Anandarajan, A. Anandarajan and C.A. Srinivasan, Springer, 2004, pp. 149-166.
- B. Henderson-Sellers and D. Tegarden. "Chapter 51: A critical re-examination of cyclomatic complexity measures." in <u>Software Quality and Productivity: Theory, practice, education, and testing</u>, ed. by M. Lee, B-Z. Barta, and P. Juliff, Chapman & Hall, 1995, pp. 328-335.

**Sample Funded Research:**
- John Lee Pratt Animal Nutrition Program Grant, Technology tools for horse owners, trainers and riders." 2020-2024 ($156,000)
- Pamplin Summer Research Grant, Virginia Tech, Summers 1995, 1996, 1997, 2003, 2004. ($45,000)
- Virginia Tech Center for Human Computer Interaction, Summer 2002. ($5,389)
- Virginia Tech Dominion Power Center, Summer 2002 ($2,150.54)
- Virginia Tech Center for Excellence in Undergraduate Teaching, Spring, 1999. ($3,000)
- AT&T Center for the Scientific Visualization of Organizations, Summers, 1997, 1998, 1999. ($31,000)
- ASPIRES Research Grant, Virginia Tech, 1997. ($65,000)
- IBM Graduate Predoctoral Fellowship Award from T. J. Watson Research Center, 1985-1986 academic year ($18,000)