

DAVID EDWARD HALL

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COURSES TAUGHT LAST FIVE YEARS

I'm missing my evaluations from this past fall ... I wasn't able to locate them for this application.

quarter	course name	course number	# SCH	Q15 evaluation
243	Applied Manufacturing Systems	ENGT 322 001	3	In Progress
243	Applied Engr Problem Solving III	ENGT 122 001	2	In Progress
243	Manufacturing Processes	MEEN 321 002	2	In Progress
242	Statics and Mechanics of Materials	ENGR 220 001	3	Not Received
242	Manufacturing Processes	MEEN 321 001	2	Not Received
242	Manufacturing Processes	MEEN 321 002	2	Not Received
241	Statics and Mechanics of Materials	ENGR 220 001	3	Not Received
241	Applied Engr Problem Solving I	ENGT 120 001	2	Not Received
241	Applied Engineering Mechanics	ENGT 220 001	3	Not Received
233	Finite Element Analysis	MEMT 508 001	3	3.0
233	Finite Element Methods for Engineers	MEEN 497 001	3	3.8
232	Statics and Mechanics of Materials	ENGR 220 003	3	4.0
231	Applied Engineering Mechanics	ENGT 220 001	3	2.7
223	Finite Element Analysis	MEMT 508 001	3	3.4
223	Finite Element Methods for Engineers	MEEN 497 001	3	3.6
222	Engineering Problem Solving II	ENGR 121 005	2	4.0
221	Applied Engineering Mechanics	ENGT 220 001	3	3.4
213	Engineering Problem Solving III	ENGR 122 005	2	3.8
212	Honors Engr Problem Solving II	HNRS 121 H01	2	Not Received
211	Applied Engineering Mechanics	ENGT 220 001	3	3.8
203	Applied Thermodynamics	ENGT 222 001	3	4.0
201	Engr Problem Solving I	ENGR 120 002	2	3.1
193	Engr Problem Solving III	ENGR 122 005	2	2.9
193	Applied Engr Problem Solving III	ENGT 122 001	2	3.8
192	Circuits Lab for Engr Tech	ENGT 226 001	1	4.0
192	Finite Element Analysis	MEMT 508 001	3	4.0
192	Finite Element Analysis for Engr	MEEN 497 001	3	4.0
191	Engr Mechanics With Applications	ENGR 289C 001	3	3.4

IMPORTANCE OF TEACHING, RESEARCH, & SERVICE

A great university is like a great ice cream store where passion and care has gone into creating each flavor. Each faculty member has their own flavor. Some excel in research, some service, and some teaching. All are needed for exceptional overall impact of the university. While my emphasis between these three has moved around through the years, my heart has always been pulled toward teaching.

I believe that two of the most important things about an effective faculty member is that they care deeply and are never satisfied. They continue to evaluate and change their recipe to reach their students, while also keeping it fresh for themselves. My specific recipe for teaching seeks student engagement and practical engineering applications, with emphasis on design and hands-on work when possible. I find that students respond best to my teaching when I involve them in activities where they build useful skills, design and render working systems, and solve interesting problems. I find great joy in looking ahead to see what's coming next and then trying to work these things into my courses. In summary, a great education involves faculty who strive to "bring it" in their own unique way, pushing students to become competent and thoughtful practitioners in their chosen discipline.

PUBLICATIONS LAST FIVE YEARS

Cresap, C., Monceaux, A., Cruse, K., Hall, D., "Weekly Professional Development Lunches to Build Community Among an S-STEM Cohort," ASEE Annual Conference and Exposition, June 2024. Final Revisions Accepted.

Cruse, K., Hall, D., Caldorera-Moore, M., Desselles, M., "SUCCESS Scholars: Early Findings from an NSF S-STEM Project," ASEE Annual Conference and Exposition, June 2024. Final Revisions Accepted.

Niemirowski, J., Hall, D., Cruse, K., "Implementation and Evaluation of a Predictive Maintenance Course Utilizing Machine Learning," ASEE Annual Conference and Exposition, June 2023.

Cruse, K., Hollins, B., Hall, D., Long, W., Kidd, C., "A Thermoelectric Cooling Project to Improve Student Learning in an Engineering Technology Thermodynamics Course," ASEE Annual Conference and Exposition, June 2023.

Campos, U., Hall, D., Robison, J. and Castleberry, G., "An Overview of Cyclic Loading and Fatigue on Steel and PE Product Pipe During HDD Installations," ASCE Pipelines 2021 Conference, July 2021.

Campos, U., Hall, D., Azimi, M., Matthew, J., Alam, S., Morgan, C. and Baghi, H., "Experimental and Numerical Analysis of the Assembly and Disassembly of an Interlocking Joint with Large Diameter Pipe Applications," Tunnelling and Underground Space Technology, Volume 98, April 2020.

Campos, U.A. and Hall, D.E., "Simplified Lamé's Equations to Determine Contact Pressure and Hoop Stress in Thin-walled Press-fits," Thin-Walled Structures, 138 (May 2019) 199-207.

GRANTS LAST FIVE YEARS

Co-Principal Investigator for the National Science Foundation grant entitled "S-STEM SUCCESS: Supporting Undergraduates through Curricular and Co-Curricula Engagement and Student Scholarships," 10/2022-9/2027, \$1,499,870.

Co-Principal Investigator for the National Science Foundation grant entitled "Sophomore Fast-Forward: A Summer Bridge Program to Support Retention in Engineering," 07/16-06/21, \$999,234.

Co-Principal Investigator for the National Science Foundation grant entitled “STEM-Discovery,” 02/14 – 01/19, \$708,415.

SERVICE

- Currently advising about 30 students; advised 78 students in 2019
- Serve as a reviewer for the annual American Society for Engineering Education Annual Conference & Exposition
- Serve on search & promotion committees
- Help with various needs related to the Instrumentation and Control Systems Engineering Technology Program
- Served as the Student Technology Fee Board Faculty Representative, 2013-2023
- Member of the American Society for Engineering Education

Over the years, I have led or assisted students in leading a number of community service projects in and around the City of Ruston. Most of the projects involve installing commercial playground equipment.



Installed Playground Equipment at Memorial Park with the Engineering and Science Association (2003)



Reworked Interior of Greenwood Recreation Center with the Engineering and Science Association (2004)



Relocated Play System to Greenwood Park with the Engineering and Science Association (2005)



Erected Play System at Cypress Springs with the Engineering and Science Association (2007)



Erected Play System at Lincoln Parish Park with LA Tech and Community Volunteers (2007)



Erected Play System at Cook Park with the Engineering and Science Association (2008)



Erected Play System at Lincoln Parish Park with LA Tech and Community Volunteers (2008)



Erected Play System at Duncan Park with the Engineering and Science Association (2009)



Erected Play System at Glenview Elementary with LA Tech Volunteers (2011)



Erected Playground at Greenwood Park with Construction Engineering Technology Students (2015)



Moved a Play System across the Road at Mayfield Park with Construction Engineering Technology Students and Bulldogs Without Borders (2016)