

**Walter C. Daugherty**  
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## EDUCATION

Ed.D., Mathematical Education, Harvard University, Cambridge, Massachusetts, 1977. Dissertation: "On the Ordering of Topics in the Teaching of Mathematics." Advisor: Marc Lieberman.

M.A.T., Mathematics, Harvard University, Cambridge, Massachusetts, 1967 (age 20).

B.S., Mathematics, Oklahoma Christian College, Oklahoma City, Oklahoma, 1966 (3 years). Minors: Physics and chemistry, German. Grade point average: 3.68 on a 4.00 scale.

## EXPERIENCE

- 1973 to present      Daugherty Brothers, Inc., (Computer consultants), Bethany, Oklahoma. Co-founder, chairman, and president. Clients include IBM Federal Systems Division, New York Times, Washington Post, Los Angeles Times, Cheyenne and Arapaho Tribes of Oklahoma, Southwestern Bell Telephone, Fulbright & Jaworski (Houston), Texas Department of Agriculture, Phonogram B.V. (Amsterdam), and U. S. Customs Service.
- 1987 to present      Texas A & M University, College Station, Texas. Visiting Assistant Professor/Senior Lecturer, Departments of Computer Science and Engineering and Electrical and Computer Engineering, College of Engineering.
- 1989-91              Texas A & M University System, College Station, Texas. Director, Knowledge Systems Research Center, Computer Science Division of the Texas Engineering Experiment Station.

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

- 1984-87                      Blinn College, Brenham, Texas. Computer science instructor.  
Part-time 1984-86, full-time 1986-87.
- 1978-80                      Rose State College, Midwest City, Oklahoma. Data processing  
instructor (part-time).
- 1971-73                      ECRM, Bedford, Massachusetts. Systems programmer.
- 1970-71                      Harvard Computing Center, Cambridge, Massachusetts.  
Telecommunications specialist.
- 1969-70                      Computer-Aided Instruction Laboratory, Harvard University,  
Cambridge, Massachusetts. Systems programmer.
- 1968-70                      Harvard University, Division of Engineering and Applied  
Physics, Cambridge, Massachusetts. Teaching fellow (for  
George Mealy and Thomas Bartee).
- 1967                          Driscoll Junior High School, Brookline, Massachusetts.  
Mathematics teacher.
- 1967                          University of Oklahoma Medical Center Computing Facility,  
Oklahoma City, Oklahoma. Programmer.
- 1966                          University of Central Oklahoma Data Processing Center,  
Edmond, Oklahoma. Programmer.
- 1965                          Oklahoma Christian University of Science and Arts, Oklahoma  
City, Oklahoma. Statistical programmer.
- 1963                          University of Oklahoma Computer Center, Norman, Oklahoma.  
Lab instructor.

## RESEARCH AND DESIGN

### 1. Refereed Publications

Kish, L. B., and Daugherty, W. C., "Noise-Based Logic Gates by Operations on the Reference System," *Fluctuation and Noise Letters*, Vol. 17, No. 4, 1850033, 2018.

Daugherty, W. C., and Coulson, R. N., "Knowledge Engineering for Sustainable Agriculture Management," *Proceedings of ICAST 2001 Conference* (Beijing, China, November 2001), 2:266, 2001.

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

Coulson, R. N., Saarenmaa, H., Daugherty, W. C., Rykiel, E. J., Saunders, M. C., and Fitzgerald, J. W., "A Knowledge System Environment for Ecosystem Management," book chapter in Klopatek, J. and Gardner, R. (eds.), *Landscape Ecological Analysis: Issues and Applications*, Springer-Verlag, 57-79, 1999.

Coulson, R. N., Daugherty, W. C., Rykiel, E. J., Saarenmaa, H., and Saunders, M. C., "The Pragmatism of Ecosystem Management: Planning, Problem Solving and Decision Making with Knowledge-Based Systems," *Proceedings of Eco-Inforna '96 Global Networks for Environmental Information Conference* (Lake Buena Vista, Florida, November 1996), 10:342-50, 1996.

Coulson, R. N., Fitzgerald, J. W. \*, Daugherty, W. C., Oliveria, F. L., and Wunneburger, D. F., "Using Spatial Data for Integrated Pest Management in Forest Landscapes," *Proceedings of the 11<sup>th</sup> Conference on Geographic Information Systems: Integrating Spatial Information Technologies for Tomorrow* (Vancouver, British Columbia, Canada, 1997).

Daugherty, W. C.; Harris, C. E. , Jr.; and Rabins, M. J., "Introducing Ethics and Professionalism in REU Programs," *Proceedings of the 1995 World Conference on Engineering Education* (Minneapolis, Minnesota, October 1995).

Coulson, R. N., Daugherty, W. C., Vidlak, M. D. \*, Fitzgerald, J. W. \*, Teh, S. H. \*, Oliveria, F. L., Drummond, D. B., and Nettleton, W. A., "Computer-based Planning, Problem Solving, and Decision Making in Forest Health Management: An Implementation of the Knowledge System Environment for the Southern Pine Beetle, ISPBEX-II," *Proceedings of the IUFRO Symposium on Current Topics in Forest Entomology* (Maui, Hawaii), 1995.

Yen, J., Daugherty, W. C., Wang, H. \*, and Rathakrishnan, B. \*, "Self-Tuning and Self-Learning Fuzzy Systems," book chapter in Yen, J., Langari, R., and Zadeh, L. (eds.), *Industrial Applications of Fuzzy Logic and Intelligent Systems*, IEEE Press, 1995.

Daugherty, W. C., Video review of *Introduction to Biological and Artificial Neural Networks for Pattern Recognition*, by Steven K. Rogers, in *IEEE Transactions on Neural Networks*, Vol. 5, No. 5, 1994.

Teh, S. H. \*, Daugherty, W. C., and Coulson, R. N., "A User-Centric Methodology for Building Usable Expert Systems," *Proceedings of the 7th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems* (Austin, Texas, May-June 1994), 45-48, 1994.

\* Graduate Research Assistant I funded

## Curriculum Vitae of Walter C. Daugherity, 9/7/2022

Daugherity, W. C., "A Neural-Fuzzy System for the Protein Folding Problem," *Proceedings of the Third International Workshop on Industrial Fuzzy Control & Intelligent Systems (IFIS '93)* (Houston, Texas, December 1993), 47-49, 1993.

Daugherity, W. C., "A Partially Self-Training System for the Protein Folding Problem," *Proceedings of the World Congress on Neural Networks (WCNN '93)*, (Portland, Oregon, July 1993). Invited paper.

Yen, J., Wang, H. \*, and Daugherity, W. C., "Design Issues of Reinforcement-Based Self-Learning Fuzzy Control," *Proceedings of the World Congress on Neural Networks (WCNN '93)*, (Portland, Oregon, July 1993).

Daugherity, W. C., "Characterizations of Fuzzy Operations," *Proceedings of the Second International Workshop on Industrial Fuzzy Control & Intelligent Systems* (College Station, Texas, December 1992), 234, 1992.

Yen, J., Wang, H. \*, and Daugherity, W. C., "Design Issues of a Reinforcement-Based Self-Learning Fuzzy Controller for Petrochemical Process Control," *Proceedings of North American Fuzzy Information Processing Society* (Puerto Vallarta, December 1992), 1992.

Yen, J., Wang, H. \*, and Daugherity, W. C., "An Adaptive Fuzzy Controller with Application to Petroleum Processing," *Proceedings of IFAC Workshop on Intelligent Manufacturing Systems* (Dearborn, October 1992), 1992.

Yen, J., Daugherity, W. C., and Rathakrishnan, B. \*, "Fuzzy Logic and Its Application to Process Control," *Proceedings of CAPA Technology Conference* (Houston, May 1992), 78-86, 1992.

Daugherity, W. C., Rathakrishnan, B. \*, and Yen, J., "Performance Evaluation of a Self-Tuning Fuzzy Controller," *Proceedings of the IEEE International Conference on Fuzzy Systems (FUZZ-IEEE)* (San Diego, March 1992), 1992.

Daugherity, W. C., "An Application of Geometrical Reasoning to a Combinatorial Problem," *Proceedings of the Seventh Annual Conference on Applied Mathematics* (Edmond, Oklahoma, April 1991), pp. 226-232, 1991.

Daugherity, W. C., Review of *Data Communications Dictionary*, by Charles J. Sippl, in *Computing Reviews*, Vol. 17, No. 9, pp. 335-336, 1976.

Daugherity, W. C., "Circuits for Dial-up and Local Use of a Stand-alone PDP-8," *Proceedings of the Digital Equipment Computer Users Society*, Vol. 2, No. 2 (Los Angeles, December 1975), pp. 413-414, 1976.

\* Graduate Research Assistant I funded

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

Daugherty, W. C., Review of *Effective Use of ANS COBOL Computer Programming Language*, by Laurence S. Cohn, in *Computing Reviews*, Vol. 16, No. 10, p. 441, 1975.

Manwell, T., Daugherty, W., Desch, S., and Stolurow, L., "Tom Swift and His Electric Bilingual Grandmother," *ACM SIGCUE Bulletin*, Vol. 7, No. 1, pp. 5-17, 1973.

Daugherty, W. C., "A Telephone Amplifier," *Transactions of the Oklahoma Junior Academy of Science*, Vol. IV, pp. 130-132, 1961.

### 2. Other Publications

Daugherty, W. C., "Honors Section," in Rabins, M. J., and Harris, C. E. Jr. (eds.), *Engineering Ethics Teaching Manual*, 1997.

Daugherty, W. C., "Honors Section," in Rabins, M. J., and Harris, C. E. Jr. (eds.), *Engineering Ethics Teaching Manual*, 1996.

Allen, G. D., Nelson, P., Jarvis, R. D., and Daugherty, W. C., "System Impact of Hit Assessment Capability for NPB Discrimination: Analysis of the Case of No-Hit Assessment," *Weapons Lab/TALN Technical Report*, Kirtland Air Force Base, May, 1990.

### 3. Other Conference Papers and Presentations

Coulson, R. N., and Daugherty, W. C., "A Knowledge Engineering Approach for Ecosystem Management," 11th Annual Landscape Ecology Symposium, International Association for Landscape Ecology - Integration of Cultural and Natural Ecosystems Across Landscapes: Applications of the Science, Galveston, Texas, 1996.

Coulson, R. N., and Daugherty, W. C., "Decision Support Systems for Forest Pests: Where Do All the Knowledge-Based Systems Go?," North American Forest Insect Work Conference, San Antonio, Texas, 1996.

Daugherty, W. C. and Coulson, R. N., SPBEBE (Economic and Environmental Impact Assessment for Southern Pine Beetle Suppression Projects), computer code, developed for the USDA Forest Service, Forest Health Protection, 1996-1997.

Coulson, R. N., and Daugherty, W. C., "Knowledge System Environment for Ecosystem Management," Global Studies Seminar, Battelle Pacific Northwest Laboratories, Richland, Washington, 1995.

Daugherty, W. C. and Coulson, R. N., ISPBEX-II (Integrated Southern Pine Beetle Expert System), computer code, developed for the USDA Forest Service, Forest Health Protection, 1994.

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

Daugherty, W. C., and Yen, J., "Tutorial on Neuro-Fuzzy Systems,"  
Third International Workshop on Industrial Fuzzy Control & Intelligent Systems  
Houston, Texas, December 1993.

Daugherty, W. C., "Introduction to LISP with an On-line Demonstration," Houston  
Geotech '91, Houston, Texas, 1991.

Daugherty, W. C., "The Universal Classification Problem," South Central Regional  
Conference of the Association for Computing Machinery, Austin, Texas, 1984.

### 4. Research Projects

"Remote Laboratory Data Entry and Retrieval System," Texas Department of  
Agriculture, Walter C. Daugherty, 1986, \$3,000 (Daugherty 100%).

"Electrochemical Modeling of a Sinter Plate, Sealed Design Nickel-Cadmium  
(Ni-Cd) Battery Cell," National Aeronautics and Space Administration, Ralph E.  
White, Walter C. Daugherty, 1 graduate student, 1989, 25% of my salary 1989-90  
(Daugherty 100%).

"Application of Reasoning under Uncertainty to Process Control," Texaco, Walter C.  
Daugherty and John Yen, 1 graduate student; competitive and peer-reviewed,  
September 1990, \$18,000.

"Design of a Computational Classroom," Texas A & M University, Walter C.  
Daugherty, September 1990-May 1991, \$60,000 (Daugherty 100%).

"Design of a Second Computational Classroom," Texas A & M University, Walter C.  
Daugherty, January 1991-December 1992, \$153,000 (Daugherty 100%).

"Development of Honors Courses in Artificial Intelligence and Analysis of  
Algorithms," Texas A & M University, Walter C. Daugherty, James Abello and  
Arkady Kanevsky, 2 graduate students, competitive, September 1991-May 1991,  
\$11,000 (Daugherty 50%).

"Integrated Southern Pine Beetle Expert System"; USDA Forest Service; Robert N.  
Coulson, Walter C. Daugherty, and Jeffrey W. Fitzgerald; 5 graduate  
students; competitive and peer-reviewed; 1985-1992, \$974,120.

"Distributed Data-Base Support for the ISPBEX Expert System"; USDA Forest  
Service; Robert N. Coulson, Walter C. Daugherty, and Jeffrey W. Fitzgerald;  
1 graduate student; competitive and peer-reviewed; 1992-93; \$35,000.

"Integrated Southern Pine Beetle Expert System II"; USDA Forest Service; Robert N.  
Coulson, Walter C. Daugherty, and Jeffrey W. Fitzgerald; competitive and peer-  
reviewed; March 1993-February 1994; competitive and peer-reviewed; \$170,000.

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

“Ecological Modelling of Regional Responses to Global Changes: A Knowledge System Environment for Planning, Problem-Solving and Decision Making”; Battelle Pacific Northwest Laboratory; Robert N. Coulson and Walter C. Daugherty; competitive and peer-reviewed; June-December 1995; \$39,996.

“Fitness of a Genetically Modified *Gliocladium virens* in Soil and Rhizosphere”; USDA Cooperative State Research Service; Charles M. Kenerley and Walter C. Daugherty; 1 senior associate, 2 graduate students, and 1 undergraduate student; competitive and peer-reviewed; September 1996-August 2001; \$254,450 (Daugherty 50%).

“Southern Pine Beetle Biological Evaluation and Economic Evaluation Program Conversion”; USDA Forest Service, Forest Health Protection; Robert N. Coulson (PI) and Walter C. Daugherty (Co-PI); competitive and peer-reviewed; 1996-1997; \$16,421.

“The Texas Imported Fire Ant Survey: The Fire Ant Spatial Information Management System (FASIMS)”; Texas Agricultural Experiment Station; Robert N. Coulson (PI) and S. Bradleigh Vinson, Maria D. Guzman, Douglas F. Wunneburger, and Walter C. Daugherty (Co-PI's); competitive and peer-reviewed; January 1998-December 1998; \$50,000.

“Special Topics in Computer Science Concepts and Programming”; Academy for Advanced Telecommunications and Learning Technologies; Walter C. Daugherty; competitive and peer-reviewed; June 1998-May 1999; \$5,000 (Daugherty 100%).

“Object Modeling Techniques Support for National Simulation Center Tactical Directorate”; U. S. Army through prime contractor Cubic Applications, Inc.; Walter C. Daugherty, James A. Wall, and José Salinas; competitive; September 1998-April 1999; \$74,498 (Daugherty 20%).

“The Fire Ant Spatial Information Management System (FASIMS)”; Texas Department of Agriculture, Texas Imported Fire Ant Research and Management Plan; Robert N. Coulson (PI) and Douglas F. Wunneburger, S. Bradleigh Vinson, and Walter C. Daugherty (Co-PI's); competitive and peer-reviewed; 1999-2001; \$220,000.

“Evaluating the Impact of Southern Pine Beetle on Ecologically Sustainable Forest Management”; USDA Forest Service; Robert N. Coulson and Walter C. Daugherty; 1 graduate student and 1 undergraduate student; competitive and peer-reviewed; 2000-2003, \$90,000.

“Honey Bee Initiative”; State of Texas; Robert N. Coulson (PI), Walter C. Daugherty (Consultant); 2 graduate students; competitive; September 2001-August 2002; \$40,000.

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

“Increasing Computer Science Retention by Developing and Deploying Self-Paced Learning Modules”; State of Texas; Jennifer Welch and Frank Shipman (Co-PI's), Lawrence Petersen, Walter C. Daugherty, and Lauren Cifuentes (Key Personnel); 10 undergraduate students; competitive; June 2002-August 2004; \$422,692.

“Facilitating the Transition to Java in High School Computer Programming Classes”; Texas A&M University System Academy for Educator Development; Walter C. Daugherty; 1 graduate student; competitive and peer-reviewed; December 2003-September 2004; \$2,966 (Daugherty 100%).

“Instructional Technology Enhancements for Computer Teaching Labs,” Texas A&M University, Walter C. Daugherty, competitive, January 2004-August 2004, \$20,000 (Daugherty 100%).

“Increasing Computer Science Retention with Peer Teachers and Learning Modules”; State of Texas; Valerie Taylor and Jennifer Welch (Co-PI's), Lawrence Petersen, Walter C. Daugherty, and Joseph Hurley (Key Personnel); undergraduate students; competitive; September 2004-August 2005; \$173,158.

***Cumulative total: \$2,845,801***

### 5. Research Proposals

*Note:* Funded proposals are listed in section 4 above.

“Automated Support for VLSI Standard Cell Optimization,” Texas Advanced Technology Program, Walter C. Daugherty, competitive and peer-reviewed, July 1989, not funded, \$233,887.

“Integration of Computer Software Models for NiCd Battery Design,” National Aeronautics and Space Administration, Ralph E. White and Walter C. Daugherty, competitive and peer-reviewed, 1990, not funded, \$125,000.

“Innovative Use of Supercomputers and Parallel Computers in Grades K-8,” Department of Energy, Paul Nelson, Walter C. Daugherty and Bahram Nassersharif, competitive and peer-reviewed, December 1990, preproposal submitted, \$885,000.

“Integration of Texas Junior Colleges into State and National Computer Networks,” Texas Advanced Technology Program, Walter C. Daugherty and Charles H. Beard, competitive and peer-reviewed, July 1991, not funded, \$174,219.

“Adaptive Fuzzy Control for Industrial Processes,” Texas Advanced Research Program, John Yen and Walter C. Daugherty, competitive and peer-reviewed, July 1991, not funded, \$177,064.

“Development of a Fuzzy Logic Tuner for a PID Controller,” Texaco, John Yen and Walter C. Daugherty, 1992-93, not funded, \$200,000.



## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

“National Center For Ecological Analysis and Synthesis,” National Science Foundation; Robert N. Coulson, Walter C. Daugherty *et al.*, competitive and peer-reviewed, July 1994, not funded, \$10,000,000.

“Development of a Fungal Growth Model for Risk Assessment,” Texas Advanced Research Program, Charles M. Kenerley and Walter C. Daugherty, competitive and peer-reviewed, July 1995, not funded, \$203,792.

“Intelligent Vehicle Navigation System,” Texas Advanced Technology Program, Walter C. Daugherty and Jeffrey W. Fitzgerald, competitive and peer-reviewed, July 1995, not funded, \$195,058.

“Innovative Programs to Increase the Enrollment in Computer Science,” Texas Technology Workforce Development Grant Program, Valerie Taylor and Frank Shipman (co-PI's), Lawrence Petersen, Walter C. Daugherty, and Joseph Hurley (Key Personnel), competitive and peer-reviewed, March 2005, pending, \$69,760.

### 6. New Design Methods, Techniques, or Concepts Developed

#### Null Modem

I independently invented the null modem in 1969 and constructed one for Harvard University (which is still operational!).

#### Computer Keyboard National Standard

As a member of the Harvard-MIT Terminal Committee, I participated in the development of the national standard for computer keyboards (*e.g.*, putting braces above brackets for the benefit of programming languages). Nearly every computer terminal and keyboard since then (*e.g.*, VT100, PC) uses this layout.

#### Integrated User Training

I invented the method of training users about additional features of an application program by integrating the information with the operation of the program (see Manwell, Daugherty, *et al.* under Publications, above). This is now widely adopted, *e.g.*, by Microsoft for its Windows operating systems in the “Getting Started” panel.

#### Object-Oriented Database

I independently invented and implemented an object-oriented database to support arbitrary combinations of data types.

#### Self-Organizing Fuzzy Controller

In collaboration with Balaji Rathakrishnan (a Graduate Research Assistant I funded) and John Yen, I developed a new systematic methodology for constructing and tuning fuzzy logic controllers. The research project was funded by Texaco (see the preceding section for details) for use in its refineries.

## TEACHING

### 1. Teaching Effectiveness

Please see Appendix for student comments.

### 2. Educational Development

#### New Courses Developed

CPSC 111/211/311 Java and C-based sequence - Member of curriculum subcommittee, taught 111 and 211

CPSC 210 (Honors) - Data Structures

CPSC 320 (Honors) - Artificial Intelligence

CPSC 489 - Object-Oriented Programming, Systems, and Languages

CPSC 635 - Natural Language Processing (taught by Dr. P. Mayer)

CPSC 689 - Symbolic and Algebraic Computation (not taught)

CSCE 489/PHIL 382 (with Glen Miller [PHIL]) - Ethics and Cybertechnology

ENGR/PHIL 482 (Honors) - Ethics and Engineering

PHIL 282 (with Glen Miller [PHIL]) – Ethics in a Digital Age

PHYS/ELEN 674 (with David Church [PHYS]) - Special Topics in Quantum Computing (the first course at Texas A&M in quantum computing, and, to the best of my knowledge, the first course in quantum computing anywhere in Texas), taught Spring, 2005, for the fifth time.

A Distance Learning section of CPSC 601 - Programming in C and Java, taught Spring, 2003.

Two sections of CPSC 111 - Computer Science Concepts and Programming taught with student peer teachers as assistants, Fall, 2002.

Honors section of CPSC 111 - Computer Science Concepts and Programming taught with student peer teachers as assistants, Fall, 2004.

Developed (with Lawrence Petersen) an intensive summer training program in Java and Software Engineering for high-school computer science teachers, taught Summer, 2003.

Developing an intensive summer training program in Data Structures for high-school computer science teachers, taught Summer, 2004; I was also completely responsible for recruiting teachers, getting them admitted, arranging for housing, and so on.

#### New Computational Classrooms

Designed, obtained \$213,000 in funding for, and coordinated two new university computational classrooms (Bright 116 and Zachry 006). These are equipped with a total of 43 NeXT computers. While there are several comparable computer labs on campus, none has been equipped or set aside for instruction before. These computational classrooms enable lectures to include complex demonstrations and on-the-spot experimentation with each new topic or technique the instructor introduces. Classes in Aerospace Engineering, Bioengineering, Business Analysis, Chemical Engineering, Computer

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

Science, Mathematics, Music, Nuclear Engineering, and Philosophy have used these computational classrooms.

Wrote a successful proposal for \$20,000 in Engineering Equipment Access Fee funds to equip 4 instructional computer labs with ceiling-mounted projectors.

### Honors Program

Wrote a successful proposal which received \$11,000 in funding from the University Honors Program to develop a CPSC 320 Honors course and for James Abello and Arkady Kanevsky to develop a CPSC 311 Honors course. Two graduate students were funded from this grant.

Developed honors versions of CPSC 210 (Data Structures), CPSC 320 (Artificial Intelligence), and ENGR/PHIL 482 (Ethics and Engineering).

Have also taught the honors section of CPSC 120E (Structured Programming II for Engineers).

Adviser for six senior Honors theses (Clint Fincher, Dave Walvoord, Deidre Kramm, Bryan Armstrong, Robin Dowell, and Steven Sensarn).

Reviewer of senior Honors thesis proposals and the final theses, including ranking them for awards.

Gave an invited talk to the Lechner Honors Overnight Express (a group of potential honors students at Texas A&M) entitled "Pythagoras, Bach, and Steve Jobs."

Developed two positions for the Summer Honors Invitational Program "Pharmocem Grand Debate," involving 4 groups of 25 students each who are National Merit semifinalists (high school seniors in September) and considering A&M when they graduate. Summers of 1994, 1995, 1996, and 1997.

Gave an invited talk to the Lechner Honors Overnight Express (a group of potential honors students at Texas A&M) entitled "The *Challenger* and Pinto Blowups: Ethics and Engineering."

Invited by Honors students to talk to their "Pizza-N-Profes" sessions.

Coordinated 4 discussion groups of 20 students each who are National Merit semifinalists (high school seniors in September) and considering A&M when they graduate, for the Summer Honors Invitational Program. Summers of 2001 and 2003.

Named to represent the College of Engineering on the University's Honors Program Advisory Committee (3-year term).

Nominated as Honors Fellows Advisor of the Year.

Nominated for Honors Teacher-Scholar Award.

Five CSCE 121 students did Honors contracts with me (2015).

### Multimedia

Online and standalone computer demonstrations with projector in classroom

Animated color graphics computer presentations of my research at conferences

Produced videotape describing one of my research projects

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Participated with my students in live interactive satellite presentations  
Supervised honors students developing sophisticated World-Wide Web pages  
Use electronic news and e-mail to communicate assignments, seminar announcements, course information, etc., to students

### Professional Development

“Winning at Work” seminar, Dallas, Texas, February 1995.  
“Seven Habits of Highly Effective People” seminar, College Station, Texas, Spring 1995.  
“First Things First” seminar, College Station, Texas, January 1996.  
Participated in the CPSC 665 Advanced Network Security class, 1999-2002.  
Attended a 128-hour training seminar on Neuro-Linguistic Programming at my own expense in order to improve my communication skills as a teacher (Spring 2002), and received practitioner certification from INLPTA, the International NLP Trainers Association.  
Named by the TAMU System to The Academy for Educator Development, a major component of The Texas A&M University System's Regents' Initiative for Excellence in Education (one of only two faculty members selected from the entire College of Engineering).  
Participated in three conferences of The Academy for Educator Development, sponsored by the Texas A&M University System.  
Participated in the Center for Teaching Excellence's seminar “How to Effectively Manage Your Large Class.”

### Departmental Assistance

Completed courses when instructors left in midterm: CPSC 206 (2 sections), CPSC 210, and CPSC 464.

## 3. Courses Taught

### A. Graduate

CPSC 601	Programming in C and Java
CPSC 602	Object-Oriented Programming, Development, and Software Engineering
CPSC 614	Computer Architecture
CPSC 625	Artificial Intelligence
CPSC 632	Expert Systems
CPSC 681	Graduate Seminar
CPSC 685	Problems
CPSC 691	Research
PHYS/ELEN 674	Quantum Computing (co-teacher)

### B. Undergraduate

CPSC 111	Computer Science Concepts and Programming
CPSC 111H	Computer Science Concepts and Programming (Honors)
CPSC 120	Programming II

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CPSC 120H	Programming II (Honors)
CPSC 203	Introduction to Computing
CPSC 206	Structured Programming in C
CPSC 210	Data Structures
CPSC 210H	Data Structures (Honors)
CPSC 211	Data Structures and Implementations
CPSC 211H	Data Structures and Implementations (Honors)
CPSC 285	Special Topics - Data Structures for Teachers
CPSC 289	Special Topics - Java and Software Engineering for Teachers
CPSC 311	Analysis of Algorithms
CPSC 320/420	Artificial Intelligence
CPSC 320H/420H	Artificial Intelligence (Honors)
CPSC 321	Computer Architecture
CPSC 464	Integrated Systems Design Automation
CPSC 485	Problems
CPSC/ELEN 485H	Problems (Honors theses)
CPSC 489	Object-Oriented Programming, Systems, and Languages
CSCE 113	Intermediate Programming and Design
CSCE 121	Introduction to Program Design and Concepts
CSCE 121H	Introduction to Program Design and Concepts (Honors)
CSCE 315	Programming Studio
CSCE 410	Operating Systems
CSCE 489	Cyberethics (co-teacher)
ENGR 112	Foundations of Engineering II
ENGR 112H	Foundations of Engineering II (Honors)
ENGR/PHIL 482H	Ethics and Engineering (Honors)

### 4. Student Research Advising (Cumulative)

Have funded 19 graduate students and two undergraduate students

Committee co-chair, 1 Master's degree student

Committee member, 13 Doctor's and 23 Master's degree students

Adviser for 6 senior Honors theses

Adviser, Research Careers for Minority Participation (RCMS)

University Mentor: many students contact me for advice and help,

including many students who are not in my classes. When the Department assigned me a group of students, I contacted each of them by e-mail and then responded to their questions. 5-10 students per day contact me, in person, by phone, or by e-mail.

### 5. Teaching Improvement

Teaching Portfolio seminar, Center for Teaching Excellence

Attended a 128-hour training seminar on Neuro-Linguistic Programming at my own expense in order to improve my communication skills as a teacher (Spring 2002), and received practitioner certification from INLPTA, the International NLP Trainers Association.

Participated in three conferences of The Academy for Educator Development, sponsored by the Texas A&M University System.

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Participated in the Center for Teaching Excellence's seminar "How to Effectively Manage Your Large Class."

## SERVICE

### 1. Professional Service

*Computing Reviews*, reviewer, appointed, 1975-76.

Reviewer, numerous textbooks, journal articles, and conference papers.

Consultant on mathematics portion of the Texas Academic Skills Program test.

Association for Computing Machinery, Intercollegiate Programming Contest

Director, appointed, South Central Region (Texas, Oklahoma, Arkansas and Louisiana), 1990-92.

Abilene Christian University, Department of Computer Science Visiting Committee, 1993, Abilene, Texas.

World Congress on Neural Networks, Neural Systems Session Co-chair, 1993, Portland, Oregon.

### 2. University and Community Service

Have funded 16 graduate students and one undergraduate student

Committee co-chair, 1 Master's degree student

Committee member, 13 Doctor's and 23 Master's degree students

Adviser for 6 Honors theses

Blinn College, Faculty Council Secretary-elect, 1985, Brenham, Texas

Harvard University, 350th Anniversary Choir, 1986, Cambridge, Massachusetts

ACM/IEEE-CS Student Chapter

Faculty cosponsor, 1988-95

Directed TAMU Scholastic Programming Contest and wrote problems, 1988-92

Coached, sponsored, and accompanied winning TAMU team to regional Scholastic Programming Contest, 1988-91

Directed Scholastic Programming Contest and wrote problems for South Central Region (Texas, Oklahoma, Arkansas and Louisiana), 1991 and 1992

Organized a Symbolics Users' Group; elected President 1989-90

Organized a NeXT Users' Group; elected Vice-President 1990-91; faculty sponsor 1991-93

Coordinated Computational Classroom planning for the University (two classrooms with \$213,000 in equipment)

Faculty Senate:

2007 Senator for College of Engineering

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- 2008 Senator for College of Engineering; Elected to Executive Committee
- 2009 Senator for College of Engineering; Elected as Secretary-Treasurer
- 2010 Senator for College of Engineering; Elected as Secretary-Treasurer
- 2011 Senator for College of Engineering; Elected as Secretary-Treasurer
- 2012 Senator for College of Engineering; Elected as Speaker-Elect
- 2013 Senator for College of Engineering, Speaker
- 2014 Senator for College of Engineering, Speaker
- 2015 Senator for College of Engineering; Elected to Executive Committee
- 2016 Senator for College of Engineering; Elected to Executive Committee
- 2017 Senator for College of Engineering
- 2018 Parliamentarian (Appointed)

Also served on Core Curriculum Council, Academic Affairs Committee, Government Relations Committee, Legislative Affairs Committee, Personnel and Welfare Committee, Workplace Climate and Diversity Committee, Subcommittee on Non-Tenured/Non-Tenure-Track Faculty, System Employees Benefits Advisory Committee, and Expanded Presidential Search Advisory Committee

- Faculty Senate Liaison to the Blinn College Faculty Senate (appointed)
- Member, Departmental Undergraduate Curriculum Committee (appointed)
- Faculty representative to SACS Reaffirmation Committee regarding TAMU's Quality Enhancement Program (QEP) (appointed)
- Member, TAMU System Administrative Review Advisory Committee (appointed)
- Member, University Email Advisory Committee (appointed)
- Member, University Committee on Massive Open Online Courses (MOOCs) (appointed)
- Member, University Information Policy Committee (appointed)
- Member, Vice President for Student Affairs Faculty Advisory Committee
- Member, University Network Operations Planning and Evaluation Committee, 1991-95
- Member, University Information Risk, Policy, and Security Committee, 2018-19
- Member, University Computer Users Group Executive Board
- Member, University Honors Program Advisory Committee (3-year term)
- Mentor (University program)
- Mentor (Departmental program) - From 5 to 10 students a day contact me
- Reviewer for Honors theses
- Chairman, Departmental Display Committee, 1990-93
- Member, Departmental Promotion and Tenure Committee (elected), 2017
- Member, University Chief Information Security Officer Search Committee (appointed), 2017
- Member, Departmental Committee on a Center for Fuzzy Logic and Intelligent Systems
- Member, Departmental Equipment Committee, 1988-89, 1993-95
- Member, Departmental Computing Services Advisory Committee, 1996-present
- Member, Departmental Colloquium Committee, 1991
- Administrative chair, International Workshops on Industrial Applications of Fuzzy Control and Intelligent Systems, 1991 and 1992
- Publicity chair, International Workshops on Industrial Applications of Fuzzy Control and Intelligent Systems, 1993
- Developed new Honors sections for CPSC 210 CPSC 320, and ENGR/PHIL 482
- Participated in the Honors Scheduling Colloquium, 1990, 1991, 1992
- Developed CPSC 320 (Artificial Intelligence) section of ABET/CSAB accreditation report, 1991-92

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

CPSC 120 Honors, 320, 489 (OOP), 625, and 632 - Selected textbooks

CPSC 485, 685 and 691 supervision

Taught CPSC 681 as an overload (fourth course) for Spring, 1991

Taught ENGR/PHIL 482 as an overload (fourth course) for Spring, 1994

Obtained \$4,000 in matching funds for the Departmental workstation program

Arranged for the Department to receive one of the first new NeXTstation demonstrations in the country

Participated in the selection of the MasPar parallel computer

Arranged Career Day display for the Department, 1989, 1990, 1991

Arranged TAME Day display to recruit Hispanic students, 1991

Drafted a graduate student recruitment poster for the Department

Helped coordinate activities for the dedication of the Harvey R. Bright Building, 1990

Organized a computer checkers contest (with Craig Boyle), 1991

Investigated software packages for ENGR 109

Represented the Center for Fuzzy Logic at MCC

Arranged Departmental program for 12 visitors from Texaco's Advanced Technology Group

Prepared a videotape of my research for the Department head to present to the Texas Engineering Experiment Station

Represented the Department at the Motorola University Symposium, Austin, 1988

Recruited National Science Foundation grantee Anne Breene to the Department

Assisted faculty and staff with electronic mail, MACSYMA, etc.

Assisted Professor Cannon (Department of English) with a computerized etymological dictionary

Hosted a delegation from Kazan, U.S.S.R.

Hosted international professors and assisted them in locating positions in the U.S.

Hosted campus visits by faculty and staff from Texas A&I and Abilene Christian University

Recruited for graduate students at Central State University (Edmond, Oklahoma) and Oklahoma Christian University

Advised building proctor on problems with conditioned power isolated ground system

Made presentation on the NeXT computer to Petroleum Engineering

Represented the Department at University Parents' Social

Taught computers to gifted and talented 5th-8th-graders in the Summer Engineering Enrichment Seminar, June 1993

Member, official Texas A&M delegation to ICAST 2001, Beijing, China; chaired a session and presented a paper.

Briefed the Core Curriculum Revision Committee on computer-related course options, 2002.

Volunteered as a judge at St. Michael's Academy Science Fair, 2004.

On several occasions I have advised the Student Senate on parliamentary procedure.



## PROFESSIONAL OUTREACH

### 1. Knowledge Systems Research Center

Director, Knowledge Systems Research Center

Hired and supervised 6 employees, including 2 Hispanic and 1 other minority  
Secured \$115,500 in TEES funding for September 1989-December 1990;  
managed fiscal 1990 budget down to 0.1% accuracy (\$114 balance)  
Planned approximately 200 seminars and short courses (and delivered about 20  
myself) to approximately 2000 faculty, staff and students  
Saved the University approximately \$320,000 in software discounts, etc.  
Obtained commitments for \$21,000 from four departments to help fund KSRC

### 2. Invited Significant Seminars or Lectures

Daugherty, W. C., "Computers and Privacy," Phi Theta Kappa Honor Society State  
Convention, Blinn College, Brenham, Texas, 1985.

Daugherty, W. C., and DeSoi, J. F., "Objected-Oriented Programming," Second  
Annual Texaco Artificial Intelligence Symposium, Houston, Texas, 1989.

Daugherty, W. C., "A Self-Tuning Fuzzy Controller," ARRI Conference on Fuzzy  
Logic, Arlington, Texas, March 1992.

Daugherty, W. C., Yen, J., and Langari, R., "Tutorial on Fuzzy Logic," Second  
International Workshop on Industrial Fuzzy Control & Intelligent Systems, College  
Station, Texas, December 1992.

Daugherty, W.C., "A Partially Self-Training System for the Protein Folding  
Problem," World Congress on Neural Networks, Portland, Oregon, July 1993.

Daugherty, W.C., "Neuro-fuzzy Systems," Third International Workshop on  
Industrial Fuzzy Control & Intelligent Systems, Houston, Texas, December 1993.

Daugherty, W.C. and Harris, C.E., "Ethics and Engineering," NSF Research  
Experience for Undergraduates, College Station, Texas, Summer 1994.

Daugherty, W.C. and Harris, C.E., "Ethics and Engineering," NSF Research  
Experience for Undergraduates, Austin, Texas, Summer 1994.

Daugherty, W.C. and Harris, C.E., "Ethics and Engineering," NSF Research  
Experience for Undergraduates, College Station, Texas, Summer 1995.

Daugherty, W.C. and Harris, C.E., "Ethics and Engineering," NSF Research  
Experience for Undergraduates, Austin, Texas, Summer 1995.

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

Daugherty, W.C., "Public-Key Cryptography Meets Quantum Computing: Why Secret Agencies are Quaking in their Boots." Quantum Computing Seminar, Texas A&M University, April 9, 2001.

Daugherty, W.C., "Quantum Computing 101: How to Crack RSA." DefCon X, Las Vegas, NV, August 4, 2002.

Daugherty, W.C., "Computer Ethics." ENGR 482 Ethics and Engineering, Texas A&M University, April 14-16, 2003.

Daugherty, W.C., "Incorporating Computer Ethics into an Engineering Ethics Course." University of Texas Ethics Conference, Austin, Texas, April 16, 2004.

Daugherty, W.C., "Computer Ethics." ENGR 482 Ethics and Engineering, Texas A&M University, November 8-10, 2004.

Daugherty, W.C., "[My] 53 Years of Computing History," CSCE 681 Open Graduate Seminar, Texas A&M University, November 18, 2015.

### 3. Review of Papers

Reviewer, numerous textbooks, manuscripts, journal articles, and conference papers.

### 4. Consulting

St. Joseph's Hospital, Bryan, Fall 1990, at no charge.

Other clients include IBM Federal Systems Division, New York Times, Washington Post, Los Angeles Times, Cheyenne and Arapaho Tribes of Oklahoma, Southwestern Bell Telephone, Fulbright & Jaworski (Houston), Texas Department of Agriculture, Phonogram B.V. (Amsterdam), and U. S. Department of the Treasury.

### 5. Other Professional Outreach

Mentored new faculty in the Department

Recruited new faculty

Center for Fuzzy Logic, Robotics, and Intelligent Systems Research

Founding member, treasurer, and administrative chair for the First International Workshop on Industrial Applications of Fuzzy Control and Intelligent Systems. This workshop, held November 21-22, 1991, in College Station, featured most of the leaders in the field (including Lotfi Zadeh and a number of Japanese researchers), and attracted an international audience of over 200.

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

Administrative Chair, International Workshop on Industrial Applications of Fuzzy Control and Intelligent Systems, 1991 and 1992; Publicity Chair, 1993

Designed conference brochure

Coordinated registration

Organized student volunteer workers

Arranged for computers and videotaping

Selected menus suitable for international attendees

Hosted invited speakers

Designed (with J. Yen) remodelling plan for the Center for Fuzzy Logic and Intelligent Systems Research

Appeared as a computer expert on the nationally-broadcast "Richard Hogue - Sunday Night" television show (Trinity Broadcasting Network), February, 1985.

## HONORS AND AWARDS

Oklahoma Junior Academy of Science, elected to membership, 1961, Oklahoma State University

National Science Foundation, Institute for High Ability Secondary School Students, 1962, University of Oklahoma

Westinghouse, Science Talent Search national finalist, 1963

National Merit Scholarship test, highest score in Oklahoma, 1963

Frontiers of Science, scholarship, 1963, Oklahoma City, Oklahoma

Engineering Club of Oklahoma City, award, 1963, Oklahoma City, Oklahoma

Oklahoma Christian College, full scholarship (top entering freshman), 1963, Oklahoma City, Oklahoma

National Science Foundation, Undergraduate Research Participation Program, 1965, University of Oklahoma, Norman, Oklahoma

Alpha Delta Tau, National Honor Society, 1966

Who's Who in American Colleges and Universities, 1966

Graduate Record Exam in Mathematics, scored 800, 1966

Harvard University, Prize Fellowship, 1966

National Science Foundation, Academic Year Institute, 1967

Phi Delta Kappa, National Honor Society, 1967

Harvard University, Class Marshal for the Graduate School of Education, 1967

Harvard University, Bowdoin Prize, bronze medal and cash award for outstanding writing, 1973

Association for Computing Machinery, selected as a reviewer for *Computing Reviews*, 1975

Association for Computing Machinery, Outstanding Regional Intercollegiate Programming Contest Director Award, 1993, Indianapolis, Indiana

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

World Congress on Neural Networks, Neural Systems Session Co-chair,  
1993,

Portland, Oregon

Graduate Student Council, 1997 Outstanding Graduate Faculty Award  
citation: "For your time and dedication to graduate students at Texas  
A&M."

Named by the TAMU System to The Academy for Educator Development, a  
major component of The Texas A&M University System's Regents'  
Initiative for Excellence in Education, 2003 (one of only two faculty  
members selected from the entire College of Engineering).

Winner, \$500 cash prize, Texas A&M University Academic Integrity Week  
Essay Competition (Faculty Category), 2004.

Texas A&M University, Department of Computer Science & Engineering, 2009  
Undergraduate Faculty Award citation: "In grateful appreciation of  
dedicated service, exemplary attitude, and significant contribution."

Qualified for American MENSA, 2015.

Oklahoma Christian University, Department of Mathematics and Computer Science, 2015  
Distinguished Alumnus Award citation: "For outstanding vision, dedication, and  
commitment to excellence."

## DIVERSITY ACTIVITIES

1. Honors thesis adviser, 3 minority and/or female students.
2. Adviser, Research Careers for Minority Participation.
3. As Director of the Knowledge Systems Research Center, hired 6 staff members, of whom 3 were Hispanic and/or female.
4. Arranged TAME Day display to recruit Hispanic students, 1991.
5. Facilitated discussion sections for the Summer Honors Invitational Program, approximately 1500 students over 6 years, of whom two-thirds were minority and/or female.
6. Developed a fictional ethics case study for the Summer Honors Invitational Program involving a pharmaceutical company's "exploitation" of indigenous tribes, used 4 years.
7. Co-taught the engineering ethics portion of National Science Foundation Research Experience for Undergraduates programs at Texas A&M University and The University of Texas at Austin; about two-thirds of the participants were minority and/or female, 3 years.
8. Informed other faculty of the need to schedule around Jumah.
9. Nominated a female computer scientist as a Distinguished Lecturer.
10. Member of the Core Curriculum Council Subcommittee to develop and implement the new cultural discourse (CD) requirements in the University core curriculum.
11. Member of the Core Curriculum Council to develop and implement the revised international and cultural diversity (ICD) requirements in the University core curriculum.
12. Mentoring international and transfer students, graduate and undergraduate.

## Curriculum Vitae of Walter C. Daugherty, 9/7/2022

13. International collaboration of my CSCE 121 Honors class and my ENGR 112 Honors class with Dr. Ronnie Ward's computer science classes in Indonesia when he was a Fulbright Senior Scholar; Indonesian and Aggie students did team projects together.

## IMPACT

Research: See section 6 under RESEARCH AND DESIGN above.

Teaching: In my 32 years at Texas A&M, I have impacted some 14,000 students by my teaching, research, work with student groups and professional societies, advising, and career development mentoring. See APPENDIX below for some of their comments over the years.

Service: See SERVICE section above.

# APPENDIX

Some student comments (1995):

Object-oriented Programming, Systems, and Languages:

“This is one of the most exciting courses we have ever taken. Your excellent lecture materials and your very organized lecturing style have helped us greatly in mastering the OOP techniques. I am happy that I took this course which was very useful. I learnt a lot and certainly now appreciate the power of Object Oriented Language.

I have a suggestion...write your own [book]. Thanks for offering this course.” “Thank you so much for all the very useful information sent by e-mail. Also I enjoyed your class on OOP.”

“I'm in your 489 OOP class (enjoying it too). ... Thanks for the help, and thanks for taking the time to pass along job info to us.”

Ethics and Engineering (Honors):

“I also wanted to tell you that I really enjoyed the class. I learned a lot about how to handle certain real-life situations. I have recommended the class to other engineering majors because this was my favorite class.”

Data Structures (Honors):

“I just wanted to tell you that I really enjoy class. Yours is the only 8:00 I have this semester, and you really make it enjoyable.”

“I want you to know you are a great instructor. Thanks.”

“The class was great, and I hope to take a few more classes from you in the future. Thanks for a great semester.”

Artificial Intelligence

(Honors): “Doesn't make AI a dry topic.” “Great course!”

“I most liked his knowledge. He knows everything.”

“Knows tons of info on this subject and related subjects.” “Well versed in subject. Cares about students.”

“Very friendly, very knowledgeable.”

“He seems interested and enjoys the subject matter.” “He knows so much about everything.”

“Friendly, good at communicating ideas.”

Analysis of Algorithms:

“He made a very uninteresting class at least somewhat interesting. Gives very fair tests.”

“He addressed practical, implementation issues even in a theory-heavy class.”

“He introduces current topics related to the course into his lectures. This makes the class more interesting and gives the students some useful knowledge.”

“He's clear in lectures and very fair in testing.”

“I particularly liked the way Dr. Daugherty stressed *practical* aspects of programming instead of a lot of useless mathematical rhetoric.”  
“Easy-going attitude, related examples, and past experience give a 'bright' effect to the class. Jokes were a plus.”

Computer

Architecture:

“Enthusiastic.”

“I most liked his ability and willingness to answer questions.” “Good effort and interesting lectures.”

“He knows the information very well, and conveys it in a good manner.”

“Interesting, enjoys sharing with students, enjoys talking to students--rare in [the Department of Computer Science].”

“Good job! Always loved Dr. D's classes!”

Former students:

“I remember your class vividly -- as you were truly an inspiration to myself (and judging from my peers' reactions, a great inspiration to many). This was at a time when I was considering dropping school completely and joining the ranks of the working population.”

“I really enjoyed your class... you are a great instructor, it's a shame you won't be teaching 210 [non-Honors] any more (this view would be reflected by a number of my peers).”

Some student comments (1996):

Object-oriented Programming, Systems, and Languages:

“Good teaching style (rather excellent) and friendly atmosphere.” “I like the class participation and the way of teaching.”

“I like the professor's systematic teaching.”

“I like the capability and knowledge of the professor.”

“The lecture format is clear and does a good job of condensing the material--very informative. Also, OOP is a very interesting topic and the lectures capture that.”

“This class provides a great learning environment.” “I like the breadth of the class.”

“Professor covers leading-edge technology and theoretical view of OOP.” “I like the discussion in class about the big picture.”

“I like the easy and informative way of teaching.”

“The lecturer explains the concepts very clearly. There is a lot of interaction and discussion in class, which is very helpful.”

“It is a very informative class and presents OOP techniques which are in demand on the current job market.”

“Organization is very good. Teaching is excellent.”

“I like the way Dr. Daugherty teaches, by explaining the practical cases, in order to clarify many points. He makes the class very interesting, making it one of the few courses at Texas A&M that is worth the money.” “Interesting topic, proficient instructor.”

Data Structures (Honors):

"I really think you are a good teacher. You seem like you have been around and dealing with computers your whole life and you are very knowledgeable about them."

"The lectures have been good."

"Interesting lectures keep me awake in the morning."

"Your lectures are fresh and interesting; I particularly enjoy the extensive mathematical background you bring to this class."

"I find the lectures enjoyable and interesting as well as challenging mentally." "Lectures are interesting and informative. Dr. Daugherty is very approachable and helpful inside and outside the classroom."

Artificial Intelligence (Honors):

"I like the programming assignments."

"I like the small, open atmosphere provided by the fact that this is an honors class."

"Discussion is very interesting and insightful."

"I like the interesting stories that relate to the subject matter." "The professor is a captivating lecturer with unique anecdotes." "The programming assignments are fun."

"I like your lecture style. It keeps the student interested the entire class."

Former students:

"Thanks for the class. I enjoyed it."

"I have taken one of your classes before, and found your teaching style one of the easier ones in the department for me to learn from, so I have been looking for the chance to take another course from you."

"Great computer ethics lecture, by the way."

Some student comments (1997):

Object-oriented Programming, Systems, and Languages: "Great professor."

"I like the instructor's concern for student questions, mastery of the subject matter, detailed explanations, and concern for an overall view of OOP, not just one language."

"I like the knowledgeability, politeness, and understanding of the professor."

"The instructor is very friendly--good feedback."

"Good lecture material and presentation."

"Lectures are well prepared and delivered in an entertaining yet informative manner."

"Interesting topics, taught so that students can understand with ease."

"Teaching is excellent. Encourages student participation."

"The teaching and the way each concept is explained is excellent. The instructor thoroughly knows what he is teaching."

"I like the instructor's interaction with students."

"I believe this will prove to be one of the most important classes that I take at A&M."



“I like the relaxed, open lecture style.”  
“Good explanation.”  
“Good lecture.”  
“The instructor is very much willing to help students understand. Very fair, willing to help. His way of teaching is excellent. The class is never boring.”  
“He's terrific, knowledgeable, and great!”  
“Instructor simplifies concepts to make it understandable.”  
“Interesting course. Instructor is good at teaching.”  
“Knowledgeable.”  
“I enjoyed the class. Very good teacher. I learned a lot.”  
“I liked the instructor's availability and willingness to help.”  
“The professor was awesome!”  
“Instructor is good in communicating with the students and clear in putting through the concepts.”  
“I like his patience.”  
“Very diverse knowledge. Instructor is too smart!”  
“Terrific fellow. Great lecturer. Superlative!”  
“I liked the instructor's willingness to answer questions.”  
“It is a very good course and a good instructor. His class is interactive and lively.”  
“I like the structured approach followed by the instructor.”  
“Very practical and simple approach to grasping OOP basics.”

#### Data Structures (Honors):

“The lectures are well put together. The atmosphere of the class makes asking questions easy.”  
“It's extremely interesting.”  
“Friendly atmosphere. You are always helpful when we have questions.”  
“I like the discussion and the inclusion of relevant current topics.”  
“Very interesting.”

#### Artificial Intelligence (Honors):

“He shared lots of interesting facts. The lectures were very informative. Dr. Daugherty is very intelligent.”  
“I like the real-life examples/situations that are occurring in recent AI research and the instructor's knowledge of information from everyday work and examples.”

#### Ethics and Engineering (Honors):

“Great computer ethics lecture, by the way.”

#### Former students:

“In three years as a graduate student at A&M, your OOP course was the very best course I had.”  
“I have taken one of your classes before, and found your teaching style one of the easier ones in the department to understand, so I have been looking for the chance to take another course from you.”  
“Thank you for being a great and kind professor.”

“Your ENGR 482 ‘Ethics and Engineering’ class was the single best class I took--it prepared me for my coop experience.”

“I really enjoyed your class and the OOP concepts helped me in my interviews.”

Science, Technology & YOUth Symposium participants  
(1997): 3.67 on a 4.00 scale

Graduate Student Council, 1997 Outstanding Graduate Faculty Award  
citation: “For your time and dedication to graduate students at Texas A&M.”

Some student comments (1998):

Object-oriented Programming, Systems, and Languages:

“I enjoyed your class. You are a very good teacher and I learned a lot. Although I am not a CS major I did not feel lost in the class (which means I was not asleep because you held my attention).”

Artificial Intelligence (Honors):

“I’m learning a lot about AI.”

“Relaxed environment; fun professor.”

Computer Science Concepts and Programming:

“The professor does a really good job of explaining the things he goes over.” “It is not boring and the prof is accessible and answers questions.”

“I think the class atmosphere is very open and friendly.”

“I like the lecture. It is always interesting and informative.”

Some student comments

(1999): C and Java:

“That’s a very good course and I learned a lot from it.”

“Thank you very much for your excellent teaching. In fact, your teaching was very [impressive] to me in many aspects.”

“Very good, informative, interesting.” “I like his teaching method.”

“He has a good understanding of programming.” “A very pleasant teacher.”

“He talks about unusual things of C, history and tricks.”

Artificial Intelligence

(Honors): “Good speaker.”

“Discussed interesting topics.”

“Instructor is very experienced in the field. Knows a lot about the subject.” “I liked his enthusiasm for the subject matter.”

Data Structures and Implementations:

“Willing to answer questions.”

“Professor has wide knowledge base.”

“He talks about interesting and new things.” “He explains material well.”

“Entertaining.”

“Friendly.”

“Has complete knowledge of every aspect of Java, C, and computer science in general.”

Some student comments

(2000): C and Java:

“Your lectures are very clear, much better than the book. Thank you.” “I have enjoyed taking this course and the project.”

Data Structures and Implementations:

“You are the best computer science professor I have ever had. I plan to take your section of CPSC 320 a year from now.”

“I wish I had been on ‘Who Wants to be a Millionaire?’ the other day because I knew the answer to ‘What was the first computer bug?’ thanks to your frequent bits of history and knowledge.”

“I appreciate your professionalism in [handling a possibly copied homework], and the amount of aid you provided to me over the semester.”

“I learned more in the first week of your class than I did all last semester in [CPSC] 111!!”

Former student:

“I was your student in CPSC 489, graduated with my Masters in Dec 1998 and joined Microsoft. PS: I benefited very much from your OOP class - thanks -and I do think they should bring it back as a regular class.”

Some student comments

(2001): C and Java:

“Credit goes back to you; because you taught well. I had ‘zero’ knowledge on C and Java before getting in the class. It was a nice experience to take this class despite several warnings from friends.”

“I like the class very much and it establishes a good foundation for my future career. I really appreciate it.”

“I consider your lecture the best I have ever had....”

Artificial Intelligence:

“Thanks for making the class so interesting, you teach my only class that I hate to miss a day in.”

“I just want to say thanks for a great semester. Your class was my favorite this semester. I especially liked all the interesting facts that I would pick up; it made for very interesting lectures.”

Some student comments

(2002): Computer Science

Concepts:

“I would like to thank you for your sincere effort in helping me learning this course. Your help during the class and your immediate response via email is highly appreciated. Especially the off and on jokes you used to crack during the class gave vent to our imaginations towards the humor part of the Computer Science field. Once again thanks for all your support during the semester.”

“ ...enjoyed it.”

C and Java:

“I really enjoyed it...your coverage of object-oriented programming was excellent.”

“Thanks a lot for all help you provided me all this while. I really appreciate your efforts to help me out for this CPSC 601...I have learned a lot from you all this time. Thanks again.”

Quantum Computing:

“I enjoyed your class.”

Artificial Intelligence:

“I have really enjoyed your lectures so far. I look forward to your class...”

Former student:

“I remember taking your intro CPSC class my first semester at A&M and really enjoying it. In the fall I am going to grad. school at CMU, studying robotics.”

Some student comments

(2003): C and Java:

“...thank you so much for leading me into the programming world.”

Data Structures:

“...really enjoyed it.”

Distance Learning:

“ The lecture recordings are very clear; I've enjoyed them. Looking forward to the rest of the semester.”

“ I appreciate all your help and patience this semester.”

Quantum Computing:

“ I also wanted to say that I really enjoyed your class. Although it was pretty tough for me, I learned so much and found it extremely interesting. I appreciate all your hard work for the class.”

Artificial Intelligence:

“ Thanks for you help and realize this was only a concern. I really enjoyed the class and learned much. Thanks for a great semester.”

Engineering Ethics:

“ Your guest lecture on computer ethics was the best lecture in this class the entire semester!”

“ I was really impressed by your presentation regarding network safety. Along with many other students, I agreed upon the fact that yours was the only lecture throughout the entire semester which made any sense. I hope I get to attend some of you classes in [near] future. Thank you.”

(Course coordinator) “ I'm excited to learn that Dr. Daugherty will be the instructor for the course this spring. He has come highly recommended.”

Former students:

“ I had you for both 211 and 320 (now 420 so I hear) and enjoyed them both.” “ I wish I could come hear you lecture again--I always enjoyed your lectures, which is the only class I can say that about.”

“ Will you be teaching any CPSC electives/489's next semester? (Please say Yes!)”

Some student comments (2004):

Computer Science Concepts and Programming:

“[My program] works great now. Thanks for your continual support.”

“Thanks for teaching!”

“The aside stories are sometimes nice. Also, the instructor is very enthusiastic, and tends to keep my attention.”

Computer Science Concepts and Programming

(Honors): “I am really enjoying the lectures.”

“I like the thoroughness with which we are taught the Java language.”

“Interesting material, in-depth background info, willing to answer even the just curious questions.”

C and Java:

“I want to say Thank you for your instructions for the whole term. Your teaching is easy to understand and make[s] me understand the basic

language. You cultivated my strong interest in programming, although in my undergraduate study, [I] have taken C/C++, But that time I don't have deep understanding of it.”

“Course is extremely well organized and interesting. Instructor is very friendly, knowledgeable and interactive with students. My best teacher in A&M so far! Fabulous teacher!!”

“Instructor is easy to understand; willing to answer questions thoroughly (even stupid questions). Was patient with students who had a hard time understanding the material.”

Quantum Computing:

“[Instructor is] enthusiastic about subject, knows a lot about material, [is] very helpful outside of class.”

Artificial Intelligence:

“Thank you so much for your time. I really appreciate your help even when it was not your office hours. I am so glad to be in your class.”

“I really appreciate you[r] going out of your way to accommodate me.... Everything that you've done is really appreciated by me and has helped me a ton. Thanks.”

“Thanks for everything this semester! I really enjoyed the class.”

Ethics and Engineering:

“Your lectures are engaging (as opposed to the rather dry lectures from the other professors) and very informative.”

“He brings the lectures to life and is genuinely excited about knowledge. He is very knowledgeable and often shows how what [we] are learning in class relates to several day-to-day events/situations.”

“Great lecturer, good speaker.”

“He's willing to spend time to help you.”

Former students:

“I remember when taking your class, 211, that we were all convinced that you are one of the smartest professors we've ever seen. You seem to know a lit[tle] bit about everything out there....”

“Great to know that you are teaching 211. I would have loved to [have] taken this course with you, but I already took 211 H last semester.”

“I really enjoyed your 111 Honors class in fall 03 and the learning experience was wonderful. I'm from India, and I had no trouble understanding you and I

really appreciate the kind of learning atmosphere I got. I would have really loved to know this news before I took my course. Well thanks !!”

Some written student comments received in 2015 (in addition to those on the evaluation forms):

- (CSCE 121) “5 stars! Thanks for a great class. I definitely learned a lot. Also, thank you for letting me do that Twin Towers of Hanoi project. That was really awesome.”
- (CSCE 121 Honors Contract) Thank you very much for your time and consideration, and for the great work you do.”
- (CSCE 121) ”Your class was a great experience for me and I learned C++ with much more depth than before. Your final project was a great challenge and I am so happy I ended up with an A in this class.”
- (CSCE 121) “I am a senior mechanical engineering student and I am currently taking your CSCE 121 class. I decided to take this class just for fun (it is not required) and I have really enjoyed my experience so far. In fact, I have enjoyed it so much that I think I might want to continue pursuing education in CS in the future.”
- (CSCE 121) “I had never written a line of code before taking your class and I disobeyed your advice to leave and let me say that I have enjoyed greatly so far. Also, I have been enjoying homework and drills so far and I would like joining the more complex project than the one you are normally assigned.”
- (CSCE 121) “Thank you so much for taking the extra time to accommodate me: it is truly appreciated!”
- (CSCE 121) “I really enjoyed your class, and I would really enjoy if I ever get to take another class with you!”
- (CSCE 121) “The last half of your course was pretty intense, with all the stuff about pointers and linked lists and queues, but now in data structures that I'm taking this semester I understand it and can handle it, whereas some other students who didn't have your 121 are struggling. Thanks for the good preparation!”
- (Former student) “I saw the recent news item about your well-deserved Alumnus of the Year award. I was one of your students back in the 80s and your Algorithms class was one of the reasons I stuck it out in Computer Science....”

Some written student comments received in 2016 (in addition to those on the evaluation forms):

- (CSCE 121) “Absolute and full thanks for having the patience to deal with this...as I bounce back and am able to continue...you were a good prof.”
- (Former student) “I took your computer science 121 course (and loved it, that was great).”

- (Former student) “Thank you very much for editing my letter to MIT!”
- (CSCE 121) “I really like this class not because programming will be very useful in my future learning, but I like all logic works.”
- (CSCE 121) “I truly appreciate it your help. I enjoyed your class this last semester!”
- (Former student) “I took your CSCE 121-517 class last Fall, learned lots of new programming concepts, and really enjoyed the class. Hope I will have an opportunity to take one of your classes again. Thank you!”
- (CSCE 121) “I was originally signed up for your class this semester however when I checked my schedule I realized that I am no longer in your class. I wanted to take your class because my friends highly recommended you. If it would be possible could I be forced into your CSCE 121 section 522 at 9:10 MWF. I would greatly appreciate it.”
- (CSCE 121) “I have enjoyed learning from you and attending class, and will continue to use my knowledge of programming and advance it as my education furthers....”
- (CSCE 121) “Thank you so much, it was a pleasure having you as a professor this semester.”
- (CSCE 121) “I have always found your course interesting and admired your way of giving a lecture and explaining concepts. Also the computer science history and stories you shared are behind the screen and I would never learn them from textbooks. To some extent you stimulated me to dig deeper in this field. So I am applying for a computer science master degree recently.”

Some written student comments received in 2017 (in addition to those on the evaluation forms):

- (CSCE 489 Cyberethics) “It’s a vastly superior version of ENGR 482.”
- (Prospective CSCE 121 student) “I’ve heard only good things about you and your love for teaching.”
- (CSCE 121) “I really enjoyed your class!”
- (CSCE 420) “Thank you again for how many times you have met with me and for being responsive and supportive.”
- (CSCE 420) “I really enjoyed your class!”
- (CSCE 121) “I appreciate your time last semester, coding is very interesting and exciting! What other classes do you teach?”



- (CSCE 121) "...thank you; I have enjoyed your class and have learned a lot about new approaches to programming and to life. ... Once again I thank you for a wonderful class this past semester. I enjoyed the challenge of the problems and was enthused to dedicate the time to work hard and diligently through each problem."
- (CSCE 121) "I took your class last semester. I enjoyed your class, especially the final project, which made me start loving programming. I never thought I could program a video game by only studying one semester! I remember I went to your office hour to ask about a problem that I couldn't solve for a week, and you were so patiently helping me debugging and taught me more about the pointers. I appreciated your explanations, which was really helpful for our group to finish our project. I have learned so much in your class, and I decided to minor in computer science because of this great experience."

Some written student comments received in 2018 (in addition to those on the evaluation forms):

- (CSCE 315) I wish to thank you for your discussion of the project with me on Thursday, as that helped me tremendously.
- (CSCE 315) I really appreciate the way you lecture and hold my attention. You're a good prof!
- (prospective CSCE 315 student) I have heard great things about you, and I would love to be a part of your class. Unfortunately, it is full, and I have had to compromise and sign up for a different professor. I would strongly prefer that I be in your class instead, both because of the great things I have heard, and scheduling conflicts. Is there any way I could be a part of your CSCE 315-507 class next semester? I greatly appreciate your consideration.
- (CSCE 420) I'm in your CSCE 315 class and because of that I just had to take your CSCE 420 Artificial Intelligence class too. It was full but then a seat opened up on the very last day to add courses, so I got in!
- (CSCE 420) I just wanted to thank you for an amazing semester. I never thought I would learn how to build a neural network from scratch as an undergrad. Also, your lectures were informative and entertaining.
- (CSCE 420) Thank you for a great semester!
- (CSCE 420) I am really glad you were my teacher; I appreciate all the things I learned from you in this course. Thanks!
- (CSCE 420) Thanks for an interesting course!
- (CSCE 420) Thank you for this semester, I have learned so much and plan on integrating concepts I've learned in the research I'll be doing this fall. Thank you for your time and help.

- (former student) I have peer taught for your 121 classes in the past and always had a fun time doing it.