Curriculum Vitae

Lawrence Chung

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Employment Experience:

Associate Professor	Dept. of Computer Science, The University of Texas at Dallas, Fall 2000–
Assistant Professor	Dept. of Computer Science, The University of Texas at Dallas, Fall 1994–Summer 2000.
Visiting Scholar	Center for Strategic Technology Research (CSTaR), Andersen Consulting, Arthur Andersen & Co., Chicago, Summer 1994. Investigation of a systematic approach to systems reengineering, using qualitative and quantitative modeling and reasoning techniques..
Lecturer	Department of Computer Science, University of Toronto, Fall 1993–Spring 1994.
Software Development	Department of Computer Science, University of Toronto, 1984–1986. Supervised several programmers for the Taxis implementation project, involving definition of an Object-Oriented design language with assertions and long-term processes (based on the Augmented Petri-net formalism) and compilation of the language into a relational database programming language (DBPL).

Education:

Ph.D., Department of Computer Science, University of Toronto, November 1993.
Thesis title: Representing and Using Non-Functional Requirements: A Process-oriented Approach
Supervisor: Professor John Mylopoulos.

M.Sc., Department of Computer Science, University of Toronto, March 1984.
Thesis title: An Extended Taxis Compiler.
Supervisor: Professor John Mylopoulos.

B.Sc., Honours Computer Science Specialist in Data Management,
University of Toronto, June 1981.

Research Interests

Software Engineering, Requirements Engineering, Non-Functional Requirements, Software Architecture, Electronic Commerce/Business, Information Systems (Re-)Engineering.

Membership

Institute of Electrical and Electronics Engineers

Publications:

Research Monograph:

Lawrence Chung, Brian A. Nixon, Eric Yu and John Mylopoulos, *Non-functional Requirements in Software Engineering,* Kluwer Academic Publishing, 1999.

Book Chapters:

Lawrence Chung, Daniel Gross and Eric Yu, "Architectural Design to Meet Stakeholder Requirements", in Patrick Donohoe (Ed.) *Software Architecture*, pp. 545 – 564. Kluwer Academic Publishing, 1999. (*Proc., The 1st Working IFIP Conference on Software Architecture (WICSA1),* Feb. 22–24, 1999, San Antonio, TX.)

Lawrence Chung, Panagiotis Katalagarianos, Manolis Marakakis, Michalis Mertikas, John Mylopoulos and Yannis Vassiliou, "From Information System Requirements to Designs: A Mapping Framework." In Matthias Jarke (Ed.), *Database Application Engineering with DAIDA,* Berlin: Springer-Verlag, 1993.

Brian Nixon, Lawrence Chung, David Lauzon, Alex Borgida, John Mylopoulos and Martin Stanley, "Design of a Compiler for a Semantic Data Model." In Joachim W. Schmidt and Costantino Thanos (Eds.), *Foundations of Knowledge Base Management,* Berlin: Springer-Verlag, 1989, pp. 293–343.

Journal Papers:

Narayanan Subramanian and Lawrence Chung, "Testable Embedded System Firmware Development: The Out-In Methodology," *Computer Standards & Interfaces (CS&I),* To appear.

John Mylopoulos, Lawrence Chung, Stephen S. Y. Liao, Huaiqing Wang and Eric Yu, "Extending Object-Oriented Analysis to Explore Alternatives", *IEEE Software*, To appear.

Tae-Ho Kim, Yeong-Tae Song, Lawrence Chung and Dung Huynh, "Software Architecture Analysis: A Dynamic Slicing Approach," *International Journal of Information Systems*, Vol. 1, No. 3, August 2000.

John Mylopoulos, Lawrence Chung and Eric Yu, "From Object-Oriented to Goal-Oriented Requirements Analysis", *Communications of the ACM,* **42**(1), pp. 31 – 37. Jan. 1999.

Lawrence Chung, Brian A. Nixon and Eric Yu, "Dealing with Change: An Approach Using Non-Functional Requirements." *Requirements Engineering Journal*, **1**(4), 1996, pp. 238–259.

John Mylopoulos, Lawrence Chung and Brian Nixon, "Representing and Using Non-Functional Requirements: A Process-Oriented Approach", *IEEE Transactions on Software Engineering,* Special Issue on Knowledge Representation and Reasoning in Software Development, **18**(6), June 1992, pp. 483–497.

Lawrence Chung, Panagiotis Katalagarianos, Manolis Marakakis, Michalis Mertikas, John Mylopoulos and Yannis Vassiliou, "From Information System Requirements to Designs: A Mapping Framework," *Information Systems,* **16**(4), 1991, pp. 429–461.

Brian Nixon, Lawrence Chung, David Lauzon, Alex Borgida, John Mylopoulos and Martin Stanley, "Implementation of a Compiler for a Semantic Data Model: Experiences with Taxis." In Umeshwar Dayal and Irv Traiger (Eds.), *SIGMOD Record,* **16**(3), Dec. 1987, pp. 118–131.

Michael Rawlins, and Lawrence Chung, "OO-edi or XML/EDI?: A Comparison Based on 'Non-Functional' Requirements", *Journal of Electronic Commerce*, May 1999.

Refereed Conference Papers:

Narayanan Subramanian and Lawrence Chung, "Architecture-Driven Embedded Systems Adaptation for Supporting Vocabulary Evolution," (*Proc., Int. Symp. on Principles of Software Evolution, ISPSE2000*), Nov. 1–2, 2000, Kanazawa, Japan. To appear.

Yeong-Tae Song, Tae-Ho Kim, Lawrence Chung and Dung T. Huynh, "Using Dynamic Slicing for Incremental Software Architecture Development," *Proc. Int. conf. on Software Engineering Applied to Networking and Parallel/Distributed Computing (SNPD'00)*, Champagne-Ardenne, France, May 18–20, 2000.

Tae-Ho Kim, Yeong-Tae Song, Lawrence Chung and Dung Huynh, "Software Architecture Analysis Using Dynamic Slicing," *Proc. AoM/IAoM CS'99*, **17**(2), San Diego, CA, pp. 242–247, Aug. 6–8, 1999.

Tae-Ho Kim, Yeong-Tae Song, Lawrence Chung and Dung Huynh, "Dynamic Software Architecture Slicing," *Proc., IEEE COMPSAC'99*, Oct. 1999.

Lawrence Chung , Daniel Gross and Eric Yu, "Architectural Design to Meet Stakeholder Requirements", *Proceedings, The First Working IFIP Conference on Software Architecture (WICSA1),* Feb. 22–24, 1999, San Antonio, TX. (Appears in Patrick Donohoe (Ed.) *Software Architecture*, pp. 545 – 564. Kluwer Publishing, 1999.

Quan Tran and Lawrence Chung, "Tool Support for Dealing with Non-Functional Requirements", *Proc., IEEE Symposium on Application-Specific Systems and Software Engineering Technology,* pp. 284–289. March 1999.

Lawrence Chung and Brian A. Nixon, "Dealing with Non-Functional Requirements: Three Experimental Studies of a Process-Oriented Approach." *Proceedings, IEEE 17th International Conference on Software Engineering,* Seattle, Washington, April 24–28, 1995. pp. 25–37.

Lawrence Chung, Brian A. Nixon and Eric Yu, "Using Non-Functional Requirements to Systematically Support Change." *Proceedings, IEEE 2nd International Symposium on Requirements Engineering,*York, England, March 27–29, 1995. pp. 132–139.

Lawrence Chung, Brian A. Nixon and Eric Yu, "Using Quality Requirements to Systematically Develop Quality Software." *Proceedings, 4th International Conference on Software Quality,* McLean, VA, U.S.A. October 3–5, 1994.

Lawrence Chung, "Dealing with Security Requirements During the Development of Information Systems," In Colette Rolland, François Bodart, Corine Cauvet (Editors), *Proc. CAiSE '93, 5th International Conference on Advanced Information Systems Engineering,* Paris, France. Berlin: Springer-Verlag, June 1993, pp. 234–251.

Lawrence Chung, "Representation and Utilization of Non-Functional Requirements for Information System Design." In R. Anderson, J. A. Bubenko, Jr. and A. Sølvberg (Editors), *Proc. CAiSE '91, 3rd International Conference on Advanced Information Systems Engineering,* Trondheim, Norway. Berlin: Springer-Verlag, May 1991, pp. 5–30.

Yannis Vassiliou, Manolis Marakakis, Panagiotis Katalagarianos, Lawrence Chung, Michalis Mertikas, and John Mylopoulos, "IRIS – A Mapping Assistant for Generating Designs from Requirements." In B. Steinholtz, A. Sølvberg, L. Bergman (Editors), *Proc. CAiSE '90, 2nd Nordic Conference on Advanced Information Systems Engineering,* Stockholm, Sweden. Berlin: Springer-Verlag, May 1990, pp. 307–338.

K. Lawrence Chung, Daniel Rios-Zertuche, Brian A. Nixon and John Mylopoulos, "Process Management and Assertion Enforcement for a Semantic Data Model." In J. W. Schmidt, S. Ceri and M. Missikof (Editors), *Advances in Database Technology – EDBT '88,* 1st International Conference on Extending Database Technology, Venice, Italy, March 1988. Berlin: Springer-Verlag, 1988, pp. 469–487.

Brian Nixon, Lawrence Chung, David Lauzon, Alex Borgida, John Mylopoulos and Martin Stanley, "Implementation of a Compiler for a Semantic Data Model: Experiences with Taxis." *ACM SIGMOD '87,* San Francisco, CA, May, 1987. (Appears in Umeshwar Dayal and Irv Traiger (Eds.), *SIGMOD Record,* **16**(3), Dec. 1987, pp. 118–131.)

Refereed Workshop Papers:

Lawrence Chung and Eric Yu, "Achieving System-Wide Architectural Qualities", *OMG-DARPA-MCC Workshop on Compositional Software Architectures,* http://www.objs.com/workshops/ws9801/program.html, Monterey, CA, January 6-8, 1998.

Lawrence Chung , Brian Nixon and Eric Yu, "Using Non-Functional Requirements to Systematically Select Among Alternatives in Architectural Design." *Proceedings, 1st International Workshop on Architectures for Software Systems,* Seattle, Washington, April 24–28, 1995. pp. 31–43.

Lawrence Chung , Brian Nixon and Eric Yu, "Using Quality Requirements to Drive Software Development", *Workshop on Research Issues in the Intersection Between Software Engineering and Artificial Intelligence,* Sorrento, Italy, May 16-17, 1994.

Invited Papers:

Lawrence Chung, "Architecting Quality Using Quality Requirements", *Proc., 1998 Korea-US Technical Conference on Strategic Technologies,* Oct. 22–24, Vienna, Virginia, 1998.

Other Publications:

Michael Rawlins, and Lawrence Chung, "Towards Better EDI: An Introduction to the Use of Non-Functional Requirements for Designing EDI Standards and Architectures," Prepared for X12 Strategic Implementation Task Group, and for consideration for *UN EDI Standards Commitee,* Feb. 1999.

Lawrence Chung, "Architecting Quality Using Quality Requirements", *Proc., 1998 Korea-US Technical Conference on Strategic Technologies,* Invited paper and talk, Oct. 22–24, Vienna, Virginia, 1998.

Lawrence Chung, Brian A. Nixon and Eric Yu, "An Approach to Building Quality into Software Architecture", in CD-ROM, *CASCON '95*, 1995.

John Mylopoulos, Lawrence Chung, Eric Yu and Brian Nixon, *Requirements Engineering 1993: Selected Papers.* Technical Report DKBS-TR-93-2, Dept. of Computer Science, Univ. of Toronto, July 1993.

Lawrence Chung, Panagiotis Katalagarianos, Manolis Marakakis, Michalis Mertikas, John Mylopoulos and Yannis Vassiliou, "From Information System Requirements to Designs: A Mapping Framework," Technical Report CSRI–245, Computer Systems Research Group, Univ. of Toronto, Sept. 1990.

Earlier longer versions appear as Technical Note CSRI–53, Dept. of Computer Science, Univ. of Toronto, Nov. 1989, and FORTH/CSI/TR/1989/020, Technical Report Series, Institute of Computer Science – FORTH, Heraklion, Greece, Nov. 1989.

Lawrence Chung, Manolis Marakakis, Michalis Mertikas, John Mylopoulos, and Yannis Vassiliou, "Mapping Advanced Concepts: Mapping of Time and Assertions," *Esprit Project 892 (DAIDA), Deliverable DES2.4*, Institute of Computer Science – FORTH, Heraklion, Greece, March 1989.

Work in Progress:

Narayanan Subramanian and Lawrence Chung, "Architecture-Driven Adaptable and Testable Embedded System Development," in preparation.

Michael Rawlins and Lawrence Chung, "OO–edi or XML/EDI?: A Comparison Based on 'Non-Functional' Requirements," in preparation.

Greg Aiklin , Lawrence Chung, Sunita Gupta and John Posey, "Asserting Quality for a Voice-Over-IP Software Architecture," in preparation.

Lawrence Chung and Ahamed Jemal, "Distributed Collaborative Processing: The COBRA Project," (in preparation).

Eric Yu, Lawrence Chung, Niloo Hodjati, Daniel Gross, Tom Gray, Serge Mankovski, "Applying Non-Functional Requirements Analysis to an Existing Project — An Experience Report," in preparation.

Lawrence Chung, Dung T. Huynh and Tae-Ho Kim, "Towards Fault-Tolerant Software Architecture Using Dynamic Slicing," in preparation.

Lawrence Chung, "Architecting Quality: A Goal-Oriented, Knowledge-Based Approach", in preparation.

Lawrence Chung, John Mylopoulos and Eric Yu, "From QFD to the NFR Framework", in preparation.

Lawrence Chung and Eric Yu, "Knowledge Engineering Quality Requirements", in preparation.

Lawrence Chung, "Goal-Oriented Analysis of System-wide Qualities During Software Architectural Composition", in preparation.

Lawrence Chung, "Goal-Oriented Scenario Analysis", in preparation.

Lawrence Chung, "Representing and Using Adaptability Requirements", in preparation.

Professional Activities:

- Editorial Board member, *Requirements Engineering, International Journal*, 1998–present.
- Program Committee member, *IEEE International Symposium on Requirements Engineering,* 1999.
- Invited Workshop Participant, *IFIP Working Group 2.9 on Requirements Engineering*, Duck Key, MI, Jan. 1999.
- Program Committee member, *IEEE Symposium on Application-Specific Software Engineering and Technology,* 1999.
- Web Master, *KOCSEA*, 1999.
- Member of CASSE (Center for Application-Specific Systems and Software Engineering), The University of Texas at Dallas, 1998–present.
- Finance Chair, *IEEE Workshop on Application-Specific Software Engineering and Technology,* 1998.
- Session Chair, *IEEE Workshop on Application-Specific Software Engineering and Technology,* Software Engineering II, 1998.
- Program Committee member, *IEEE International Symposium on Requirements Engineering,* 1997.
- Invited participant, *IFIP Working Group 2.9 on Requirements Engineering,* Eugene, OR, June 1996.

- Reviewer, *ACM Transactions on Software Engineering and Methodology*, 1999. *Knowledge and Information Systems*, 1999. *Software Practice & Experience*, 1999. *IEEE Transactions on Software Engineering,* 1998. *The 9th International Symposium on Software Reliability Engineering — ISSRE '98,* 1998. *IEEE Transactions on Software Engineering,* 1997. *Automated Software Engineering,* 1997. *Requirements Engineering Journal,* 1996-1997. *IEEE Computer Magazine,* 1997. *Information Sciences,* 1996. *The 7th International Symposium on Software Reliability Engineering,* 1996. *COMPSAC'96. Data and Knowledge Engineering, 1996. International Conference on Data Engineering, 1993. International Conference on Management of Data, 1992. AI '92 Conference, Canadian Society for Computational Studies of Intelligence, 1992.*

Theses Supervision:

Quan Tran, *A Case Tool for Dealing with Non-Functional Requirements*, MS Thesis, 1998.

Michael Rawlins, *Developing "Good-Enough" EDI Standards*, MS Thesis, underway.

Tae-Ho Kim, *Requirements-Driven Architectural Design*, Ph.D. Thesis, underway.

Theses Committee:

Filemon Ramirez-Perez, *Contributions to Shot Noise on Cluster Processes with Cluster Marks,* December, 1999.

Christoffer Bergman, *Language Constructs for Relational Programming,* MS Thesis, April 1999.

Anders Palsson, *Run Time Environment for Relational Programming,* MS Thesis, April 1999.

Rodolfo Castello, Ph.D. Thesis, underway.

Yeong-Tae Song, *Dynamic Program Slicing*, Ph.D. Thesis, underway.

Janell Straach, *Effective Optimization in Expert Systems*, Ph.D. Thesis, May 1998.

Sridhar Alagar, *Techniques for Testing and Supporting Mobility in Distributed Systems* Ph.D. Thesis, December 1996.

Masters Project Supervision:

S. Gupta, *Analysis of Software Architectural Quality*, 1999.

J. Peterson, *Software Architecture Assistant,* 1999.

A. Jemal, *The Distributed, Collaborative Computing Paradigm: Issues and Directions*, 1999. Under NSF Alliance Student Research Program.

E. Chi, G. Jou, M. Kolapalli, X. Shi, Yi, Bing, H. Wei, C. Zhang, *Virtual Office in the Distributed, Collaborative Computing Paradigm,* 1999.

A. Palsson, X. Liu, *The NFR Assistant*, 1999.

T. Tinker, *Internet-based Software Inspection*, 1999.

C. Hsin, D. Wang, F. Lin, H. Kalahasti, J. Mekala, M. Geng, M. Li, N. K Yeddula, P. Ravindranathan, P. Chun, P. He, S. Gupta, S. Chen, Z. Wei, *COBRA: Collaborative Behavioral Requirements and Architecture,* 1998.

J. Kelly, *Analysis of Architectural Design Using the NFR Framework*, 1998.

D. Stockelman, *Reverse Engineering Architectural Design*, 1998.

S. Rose, *Goal-Oriented Architectural Design: A Soldier Phone System*, 1998.

H. Gholoom, *Usability Engineering: A Non-Functional Requirements Approach*, 1997.

M. Ensminger, G. Hart, S. Wells, J. Zhang, R. Zhang, *The NFR Assistant Using a Multi-Paradigm Environment*, 1997.

J. Lian, *Evaluation of A New Testing Methodology at Nortel,* 1997.

D. Storer, *A Software Architecture Assistant*, 1997.

M. Neumann, M. Xu, *Augmented Petri-net,* 1997.

P. Ravindranath, S. Srinivasan, Y. Tang, *Augmented Petri-net on Internet,* 1997.

Q. Tran, *Augmented Petri-net in Java,* Senior Honours Thesis, 1997.

X. Lin, *A Software Architecture Assistant*, 1996.

Grants/Awards

- *Assessment of the Impact of Software Architecture on Software Quality*, With F. Bastani and S. Ntafos, \$25, 000, Alcatel, 01/01/99 – 12/31/99.
- *Managing Complexity in the Development of Telecommunications Software*, With F. Bastani and S. Ntafos, \$25, 000, Alcatel, 01/01/99 – 12/31/99.
- *Establishing a Computer-Aided Education Environment using the Web-Lecture System*, With I. Yen, DT Huynh, R. Mili, B. Pervin, R. Prakash and S. Venkatesan (Co-PI), \$38,000, Nortel, 07/01/98 – 08/01/2000.
- *Quality Analysis of a Telecommunication System*, Lawrence Chung (as a Visiting Researcher), approx. CDN\$6,000, Univ. of Toronto (ITRC), Summer 98.
- *IRA*, With Dasaratha Chillale, \$3, 565, UniComp Technologies, 10/05/98 – 12/01/98.
- *IRA*, With Jin Shen, \$5, 100, USA Display Llc, 05/12/97 – 08/11/97.
- *IRA*, With Deepika Chalemela, \$6, 184, Advanced Telemarketing Corporation, 01/16/96 – 05/31/96.
- *Graduation Awards,* University of Toronto, 1981.

Collaborations

- *Agent-Oriented Approach to System Architecture: Models and Analysis Tools*, With Mitel and Univ. of Toronto, 01/01/98 – 12/31/2000.
- *QuEST (Quality Excellence for Suppliers of Telecommunications) Forum — TL'9000, Telecommunication Systems Metrics: Data Submission and Delay Subcommittee*, With other members of the faculty and Telecommunication Metrics'21 Consortium, Fall 1998 –.

Presentations, Tool Demonstrations & Posters:

- With Daniel Gross, Niloo Hodjati and Eric Yu, "Architectural Design to Meet Stakeholder Requirements," *CASCON'98*. Posters, Nov. 1998.
- J. Mylopoulos, R. Reiter, H. Levesque, Y. Lesperance, E. Yu, B. Nixon, L. Chung, "Models and Tools for Supporting the Analysis and Redesign of Business Processes", *CASCON'95*, Toronto, November 7–9, 1995.
- Lawrence Chung, "A Tool for Dealing with Non-Functional Requirements," Invited talk at *Requirements engineering tools session, CASE'95, The 8th International Workshop on Computer-Aided Software Engineering.* July 1995.
- Lawrence Chung, "The NFR Assistant", to NSERC visitors, Aug. 1992.

  Demonstration of a tool for assisting the development of quality information systems.
- Lawrence Chung, "The Mapping Assistant", to ITRC visitors, Apr. 1990.

  Demonstration of a tool for mapping information system functional requirements into designs.

Conference and Workshop Presentations

"Dealing with Non-Functional Requirements: Three Experimental Studies of a Process-Oriented Approach." *IEEE 17th International Conference on Software Engineering,* Seattle, Washington, April 24–28, 1995.

"Using Non-Functional Requirements to Systematically Support Change." *IEEE 2nd International Symposium on Requirements Engineering,* York, England, March 27–29, 1995.

"Using Quality Requirements to Systematically Develop Quality Software." *Fourth International Conference on Software Quality,* McLean, VA, U.S.A. October 3–5, 1994.

"Dealing with Security Requirements During the Development of Information Systems," *CAiSE '93, 5th International Conference on Advanced Information Systems Engineering,* Paris, France. June 1993.

"Representation and Utilization of Non-Functional Requirements for Information System Design." *CAiSE '91, 3rd International Conference on Advanced Information Systems Engineering,* Trondheim, Norway. May 1991.

"Process Management and Assertion Enforcement for a Semantic Data Model." *Advances in Database Technology – EDBT '88,* 1st International Conference on Extending Database Technology, Venice, Italy, March 1988. 1988.

"Using Quality Requirements to Drive Software Development", *Workshop on Research Issues in the Intersection Between Software Engineering and Artificial Intelligence,* Sorrento, Italy, May 16-17, 1994.

Software Tools:

These tool construction efforts are in the spirit of NSF, namely integration of research and education, where students participate in advanced research projects and learn the skills to make a smooth technology transfer of research and its results to industry.

- COBRA (Collaborative Behavioral Requirements and Architecture Assistant)

  A tool for formulating behavioral requirements and designing an architecture using the APN (Augmented Petri-Net) formalism in the distributed, collaborative computing paradigm (*a la* Virtual Office). On-going improvements, currently using Java and CORBA, and available on the web: http://www.utdallas.edu/ chung/chie/p.html.

- SOAR (SOftware ARchitectural Assistant)

  A tool for capturing generic knowledge of system/software architectural alternatives, exploring partial alternatives and evaluating them throughout the architectural design process. Built in Tcl/Tk, to be available on the web.

- The NFR (Non-Functional Requirements) Assistant

  A tool for representing and reasoning with NFRs during system/software development for the clarification of NFRs, analysis of tradeoffs among design alternatives and rationalization of design decisions. Supports a goal-oriented analysis (GOA), complementary to an object-oriented analysis (OOA) such as UML. On-going improvements, currently using Java applications.

Academic Services:

- 1999: Admissions Committee, Software Engineering Advisory Committee Equipment Committee, Advisor of outside instructors for Object-Oriented Analysis and Design.
- 1998: Admissions Committee, Software Engineering Advisory Committee Equipment Committee, Advisor of outside instructors for Object-Oriented Analysis and Design.
- 1997: Admissions Committee, Senior Lecturer Search Committee, Curriculum Committee, SACS Committee, Software Engineering Curriculum Committee, Software Engineering Advisory Committee, Equipment Committee
- 1996: Senior Lecturer Search Committee, Curriculum Committee, SACS Committee, Software Engineering Curriculum Committee, Software Engineering Advisory Committee
- 1995: Software Engineering Curriculum Committee, Software Engineering Advisory Committee *Participation in the study of Case tool installations for integration of research and education.*
- 1994: Software Engineering Curriculum Committee. Software Engineering Advisory Committee. *Participation in the undertaking of the Curriculum design for the newly established Software Engineering Track Masters Program.*

Courses Taught:

Graduate Courses

Most lecture notes, course projects, sample tests and pointers to references for several of the courses below can be accessed via Internet (http://www.utdallas.edu/ chung). Some of the courses were taught for the first time as part of the Software Engineering Track Masters Program at the University of Texas at Dallas.

- 1998 – 1999: Software Architecture and Design, Requirements Engineering, Software Engineering Project I & II
- 1998 – 1999: Software Architecture and Design, Requirements Engineering, Software Engineering Project I & II
- 1997 – 1998: Software Engineering, Software Architecture and Design, Requirements Engineering, OO Analysis & Design, Software Engineering Project I & II
- 1996 – 1997: Software Engineering, Software Architecture and Design, Requirements Engineering, Software Engineering Project I & II
- 1995 – 1996: Software Engineering, Requirements Engineering, Software Engineering Project I & II
- 1994 – 1995: Software Engineering, Computer Aided Software Engineering, Software Engineering Project I, Seminar in Software Engineering (in collaboration with other faculty members)

Undergraduate Courses

- 1993 – 1994: Introduction to Modelling and Optimization, Principles of Programming Languages, File Structures and Data Management. *While at University of Toronto.*