

1988-2003 Projects by Topic

OR COURSE PROJECTS 1988-2012

Topic	Title	Year	Client	Student Consultant
Equipment Replacement and Assignment Strategies	Site Based Returnable Packaging Assessment Model at Ingersoll Rand	2013	Barbara Ledbury Ingersoll Rand Logistics	Joseph Lavallo-Rivera
	Developing a Replacement Policy on Equipment at OWASA	2011	John Green General Manager of Operations Orange Water and Sewer Authority	Jerome Yurchisin
	Locating Parts Storage on Campus	2010	Carly Perin Facilities Services UNC-CH	Chao Deng
	Replenishment Process and Bin Reorganization for the Mixed Lite Area of the Distribution Center	2008	Rich Glover Director of Manufacturing and Distribution Safelite Glass Corporation Enfield, NC	Elizabethe Nielsen
	The Optimal Distribution of Personal Computers Within Glaxo Wellcome's Facilities Operations in its RTP Location	1998	Darren Dasburg, Director RTP Facilities Operations Glaxo Wellcome Inc. RTP, NC	Stoyko Nikolov
	Modeling the Optimal Life Cycle of Faculty Personal Computers	1996	John Oberlin, Director Finance and Planning Office of Information Technology, UNC-CH	Christopher Hawke
	An Optimal Tripper Bus Replacement Policy for the Town of Chapel Hill	1990	Robert Godding Director of Transportation Town of Chapel Hill	Edward Mench
	The Optimal Mix of Bus Sizes and Trippers for the Chapel Hill Transit System	1990	Robert Godding and R. Scott McClellan Town of Chapel Hill	James Niederberger

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Facilities Expansion	Investigating the Potential of Air Taxi Service in North Carolina	2001	Noel Gries, Director Center for Logistics and Global Strategy Kenan Institute of Free Enterprise, UNC-CH Malcolm Burgess, Michail Heck Center for Aerospace Technology Research Triangle Institute Hampton, VA	Peter Buczkowski
	Managing the Hazardous Liquid Waste Input to Glaxo Wellcome's Environmental Safety Facility Incinerator	1999	Neal Parker Senior Environmental Engineer Glaxo Wellcome, Inc. RTP, NC	Xudong Ma
	Optimal Operation and Long-Range Planning of the OWASA Water Supply System	1995	Ed Holland Director of Planning Orange Water and Sewer Authority	Jennifer Gutmann
Information Flow	Dynamic Risk Assessment of Facilities in the NCDA&CS System and Inspection Rescheduling in Case of a Suspected Outbreak	2012	Noel P. Greis Kenan Institute of Private Enterprise UNC-CH	Ovunc Yilmaz
	Optimal Performance Predictor for Incoming Undergraduate Students at The University of North Carolina at Chapel Hill	2011	Steve Farmer Jennifer Kretchmar Office of Undergraduate Admissions UNC-CH	Jyodishka Ray
	Carillon Assisted Living Dynamic Pricing Model	2011	Karen Moriarity Ken Kirkham Carillon Assisted Living	Christine Luongo
	Evaluation of Undergraduate Admissions	2010	Steve Farmer Jennifer Kretchmar Office of Undergraduate Admissions	Natalie Baerlacher

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			UNC-CH	
	Parsimonious Reconstruction of Evolutionary History from Molecular Phylogenetic Trees	2004	Todd Vision Biology Department UNC-CH	Vaibhav Kolekar
	The Pre-Award Phase of the Grant Applications Process in the UNC-CH School of Medicine	1998	David Perry Senior Associate Dean School of Medicine UNC-CH	Reid Gilliam
	Cost/Benefits Study on Implementing Mobile Data Terminals in Chapel Hill Transit's Paratransit Fleet	1997	R. Scott McCellan Chapel Hill Public Transit Town of Chapel Hill	Kelly Mirone
	A Call-Taker Program for the Chapel Hill Police Department	1996	Ralph Pendergraph Chief of Police Jane Cousins Police Planner/Analyst Tony Oakley Patrol Commander Town of Chapel Hill	Kevin Keyes
	Automated Sampling for Outpatient Surveying at the UNC Hospitals	1994	Karen McCall, Director Institutional Relations Chris Rhodes, Director Patient Relations UNC Hospitals	Leah Hart
	The Beginning of an Automatic Vehicle Maintenance Record Keeping Program for Chapel Hill Public Works	1992	William Terry, Internal Services Superintendent Public Works Department Town of Chapel Hill	Andrea Duvall
	Modeling a Constant Invoice Payment Plan for the Environmental Protection Agency	1991	Dennis Schur, Director National Contract Payment Div.	Craig Eister

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	Using an Inventory Model with Production Smoothing		Aline Rolaff, Chief Financial Systems Section U.S. Environmental Protection Agency Research Triangle Park	
Inventory Management	Optimal Replacement Policies for Motor Fleet Management Vehicles	2005	George Millsaps, Jr. Liaison for Productivity and Legislative Affairs NC Department of Administration	Allison Barnes
	Determining the Optimum Water Release Strategy and Suggesting the Optimum Height Increase of the West Fork Eno Reservoir	2004	Kenneth Keel Utilities Director Town of Hillsborough, NC	Dipanjan Das
	Optimal Pumping Strategies of OWASA Reservoir:	2001	John Greene General Manager of Operations Orange Water and Sewer Authority Carrboro, NC	Tao Huang
	Inventory Management for the UNC-CH Cogeneration Facility Warehouse	2000	Keith Harris and D. Fletcher Holmes UNC-CH Cogeneration System	Wendy Sense
	Inventory Management for the UNC-CH Electric Distribution Warehouse	1997	Herbert Paul and John Laetz Electric Distribution Warehouse Physical Plant, UNC-CH	Gretchen Riser
	Inventory Management at the University Purchasing Department	1992	Howard Gorman and Kelly Reed Materials Management and Distribution, UNC-CH Physical Plant	Sanjay Jagtap
	Building an Inventory Management System for the Carolina Inn	1990	Edward Rehkopf and Cutler Balance Carolina Inn	Vinay Dube

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Optimal Management Control	Facilities, Layout, Storage and Inventory Control of Job Materials at the UNC-CH Physical Plant	1990	Herbert Paul, Director and Ed Phillips UNC-CH Physical Plant	Sanjay Nanda
	Recommendations for Improving the Efficiency of Record Processing at the Chapel Hill Police Department	1989	Jane Cousins, Planner Police Department Town of Chapel Hill	Jamie Moore
	A Proposal for Inventory Management at the UNC-CH Microcomputing Support Center	1988	James Gogan, Director UNC-CH Microcomputing Support Center	Steven Kretch
	Parking Overbooking at UNC Parking Lots	2011	Cheryl Stout Department of Public Safety UNC-CH	Eric Webb
	Allocating Departmental Parking among Parking Lots	2010	Cheryl Stout Department of Public Safety UNC-CH	Todd Stohs
	Managing Thermal Energy Storage at the UNC-CH Central Chilled Water Plant	1998	Gary Tomkins Facility Mechanical Engineer UNC-CH Physical Plant	William Cyrus Bradford
	Optimal Operations of the OWASA Finished- and Raw-Water Pumping System	1997	William Kerwin, Jr. Executive Director Orange Water and Sewer Authority	Amy Buege
Relieving Congestion	Modeling and Analysis of Emergency Departmental Crowding	2013	Jeff Strickler Director of Emergency Services UNC Hospitals	Virginia Ahalt
	An Analysis of Operations for the Health Sciences Library Photocopier Service	1999	Steven Squires Research Librarian Health Sciences Library, UNC-CH	Elena Tzenova

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	Reducing the Reshelving Time and the Search Time in the UNC-CH Health Sciences Library	1999	Francesca Allegri Planning & Communications Mgr. Health Sciences Library, UNC-CH	Andrew Miskell
	Improving the Interlibrary Borrowing Service At UNC-CH Libraries	1998	Patrick J. Mullin Associate University Librarian Access Services and Systems Davis Library, UNC-CH	Catherine A. Sweet
	Interlibrary Borrowing Operations at the UNC-CH Health Science Library	1998	Christie Degener Coordinator, Selection & Access Health Sciences Library, UNC-CH	Christine Vitron
	Recommendations for Improving the Efficiency of the Research Reading Operations of the UNC-CH Undergraduate Library	1994	David Taylor UNC-CH Undergraduate Librarian	Joelle Kunkel
	An Analysis of the Advertising Production Department at Glaxo	1993	Chris Pennington, Advertising Production Associate Glaxo, Inc. Research Triangle Park	Sherry Cohen
	Alternatives to the Reel Tape System: A Comparative Study for the Academic Computing Services at UNC-CH	1989	William Groves, Director UNC-CH Academic Computing Services	Sunil Suresh Desai
	Disk Parameter Sizing for Network File Servers in the Microcomputer Laboratories at UNC-CH	1988	James Gogan, Director UNC-CH Microcomputing Support Center	Elizabeth Keyes
Routing	Analysis of the Courier Routes for the Mail Service Center, NC Department of Administration	2004	Gene Benfield Director, Mail Services Center NC Department of Administration Raleigh, NC	Darrell Patton

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	Vehicle Routing and Cost Analysis of University Mail Services	2004	Tommy Brickhouse Manager, University Mail Services UNC-CH	Ned McGuire
	Triangle Research Libraries Network: Delivery Route Analysis	1995	Diana Strauss UNC-CH Associate Librarian for Public Services Julie Nye, Project Manager D.H. Hill NCSU Triangle Research Libraries Network	Kristy Orringer
	Analysis of the Routing and Sorting of Mail for the University Mail Services	1994	Ed Phillips Business Manager Tommy Brickhouse Mail Services Manager UNC-CH Physical Plant	Megan McEver
	Efficient Patrol Allocation Through Improved Sector Design at the Chapel Hill Police Department	1991	Jane Cousins, Planner Police Department Town of Chapel Hill	Deena Dizengoff
	Analysis of Campus Snow-Removal Operations at UNC-CH	1989	Herbert Paul, Director UNC-CH Physical Plant	Barbara Hoopes
Scheduling	Risk-Based Inspections Scheduling at the NC Department of Agriculture and Consumer Services	2012	Noel Greis Kenan Institute of Free Enterprise, UNC-CH Brett Weed NCDA&S	Haifeng Lin
	Duke Psychiatry No-Show Analysis Project	2004	Michael Leonardelli Department of Psychiatry Duke University	Meda Tilghman
	Allocation of Beds and Staff to the Dedicated Geriatric Unit at UNC Hospitals	2000	Dr. Marschall Runge, Chair Keith Gran, Business Manager Dr. Busby-Whitehead, Director,	Katherine Hicks

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			Program on Aging, Dept. of Medicine UNC-CH	
	Optimal Staffing of the Health Services Library Use Services Center	2000	Mary Beth Schell, NLM Associate User Services Department UNC-CH Health Sciences Library	Ranjith Maniyedath
	Optimal Organization of Technicians in the Audio Visual Services Unit within Glaxo Wellcome Facilities Operations at the Research Triangle Park Location	1999	Thomas Trabert, Manager Facilities Operations Planning Jeffrey Walters Glaxo Wellcome, Inc, RTP, NC	Sameer Anand
	Development of a Systematic Flushing Program for the OWASA Distribution System	1999	John W. Greene General Manager of Operations Orange Water and Sewer Authority	Bengt Pederson
	Shift Scheduling in the Durham Police Department	1997	Captain Charles M. Tiffin Commander, Planning and Research Division Durham Police Department	Joseph R. Sherman
	Optimal Scheduling of Physician Resources in the Division of Community Pediatrics at UNC Hospitals	1995	Dr. Stephen M. Downs Division of Community Pediatrics, School of Medicine, UNC-CH	Rajeev Mahrotri
	Library Staffing Implications for Implementing New Document Delivery Services at UNC-CH	1995	Patrick Mullin, UNC-CH Associate University Librarian for Access Services and Systems	Shira Kash
	Creating a More Efficient U-Search Scheduler Program for the UNC-CH Davis Library Reference Department	1994	Tim Bucknall UNC-CH Humanities Reference Librarian	Shawn Krest
	An Analysis of Patient Flow and Physician Scheduling in the UNC-CH Ambulatory Care Center	1993	Dr. Robert Berger, Director Outpatient Medicine and Karen McCall, Director Regional Services, UNC-CH	Lynne Yellin

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	Efficient Classroom Utilization on the Campus of UNC-CH	1989	David Lanier, Registrar Stephen Birdsall, Dean The College of Arts & Sciences UNC-CH	Subbash Desai
	Development of Manpower Scheduling Curves for the Construction Administration of UNC-CH	1988	Benjamin Tuchi Vice Chancellor for Business and Finance, UNC-CH	Rochelle Buchman
Staffing	Analysis of the Admissions Decisions of Undergraduate Admissions Applications	2013	Jennifer Kretchmar Office of Undergraduate Admissions UNC-CH	Wissuta Prasertpol
	Simulation Study of the Client Services Division of the Office of Information Systems at the School of Medicine	2001	Dennis Schmidt Director, Office Information Systems Priscilla Alden Director, Client Services Division UNC-CH School of Medicine	Niraj Shah
	Determining Optimum Staffin Levels for the Department of Information Technology at the Health Sciences Library	2001	Scott Garrison Dept. Head, IT Services Steve Squires EPA Librarian UNC-CH Health Sciences Library	Murali Krishnamurthi
	Staffing Analysis for the Student and Faculty Services Division of the Registrar's Office at UNC-CH	1988	David Lanier, Registrar UNC-CH	Melissa Lucas
Waste Collection and Recycling	Determining the Best Option for Outdoor Collection of Recyclables at the UNC Campus	2004	B.J. Tipton CPM, Office of Waste Reduction and Recycling, UNC-CH	Amit Panalkar
	Determining the Best Option for Indoor Collection Of Co-mingled Recyclables at the UNC Campus	2001	B.J. Tipton CPM, Office of Waste Reduction	Nitin Verma

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			and Recycling, UNC-CH	
	Expanding the Plastics Recycling System at the University of North Carolina at Chapel Hill	1996	Erica Perlow Recycling Coordinator Office of Waste Reduction and Recycling, UNC-CH	Jon Goodstein
	Cardboard Recycling at UNC-CH	1995	Charles Button Recycling Coordinator UNC-CH Physical Plant	Emily Larson
	Recommendations for Efficient Curbside Waste Management and Recycling in the Unincorporated Areas of Orange County	1994	Blair Pollock Recycling Coordinator Orange County Regional Landfill	Theresa White
	Recommendations for a Different Tipping Fee System at the Orange Regional Landfill	1993	Gayle Wilson, Director Sanitation Department Town of Chapel Hill	Genie Boericke
	Recommendations for Recycling of Multi-Family Residential Waste	1990	Wendy McGee Recycling Coordinator Town of Chapel Hill	Madeline Cookson
	Recycling at UNC-CH: A Feasibility and Cost Analysis	1988	Herbert Paul, Director UNC-CH Physical Plant	Karen Susenna