



UNIVERSITY *of* ST. THOMAS

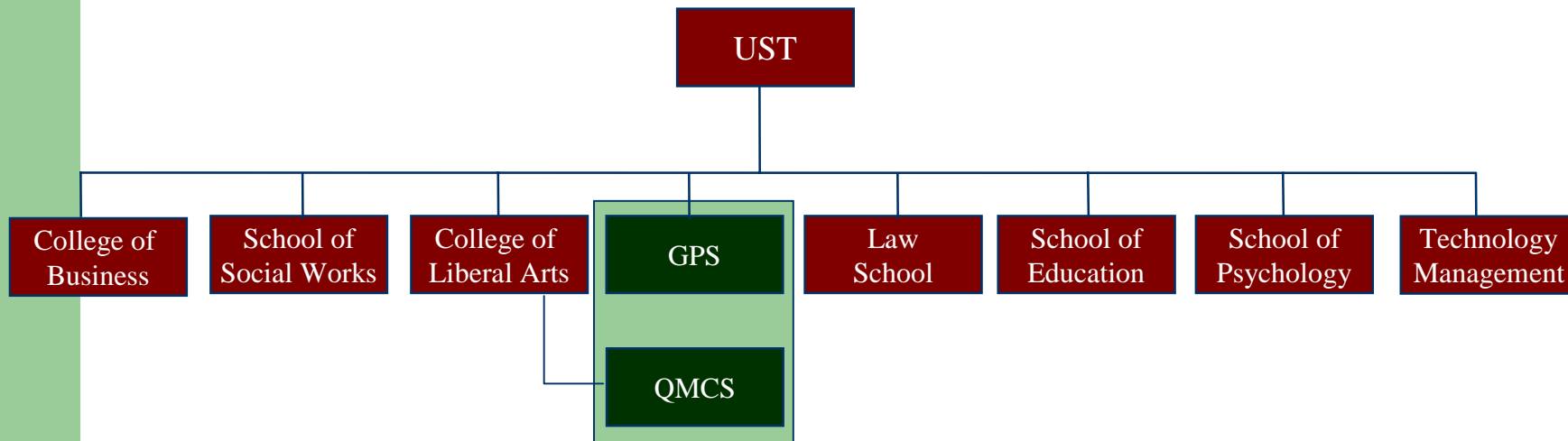
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Graduate Programs in Software



Outline

- Demographics
 - Graduate programs in Software (MS)
 - Quantitative Methods and Computer Sciences (BS)
- Relevant Courses
- Labs/Research
- Summary

UST Organization



UST Demographics

- Campuses in St. Paul, Minneapolis & Italy
- Students (2003)
 - Undergraduate 5,108
 - Graduate 5,825
 - Total 10,933
- Faculty (2003)
 - Tenured 231
 - Tenure track 116
 - Limited Term 55
 - Staff 925
 - Total 1,327

Industry Input/Feedback

- GPS started based on needs derived from a survey of local corporations in 1985
- Corporations such as Honeywell, 3M, IBM, NCR Comten, Sperry-UNIVAC, CDC were asked about their needs
- Adaptive curriculum based on frequent surveys of companies where our graduates work

Our Degree Programs

- Graduate
 - Three Master's degrees (MSSE, MSDD, MSS)
 - Three graduate certificates
 - Seminars
 - Mini programs
- Undergraduate
 - BS in computer sciences

Relevant Courses

- Undergraduate Classes
 - QMCS450 – Database Design
 - QMCS350 – Data and File Structures
 - QMCS419 – Information Systems
 - Topic Class – Data Mining

Relevant Courses

- Graduate Classes

- CS530 – Database Management Systems & Design
- CS531 – Database Management Systems & Application
- CS532 – Distributed Database Management
- CS535 – Information Retrieval
- CS544 – Object-Oriented Databases
- CS645 – Strategic Information Systems
- CS652 – Design of an Integrated Corp. Information System
- CS68x – Information Security (Topics)
- CS68x – Intro. to Data Warehousing & E-Commerce (Topics)

Data Admin Or Database Admin

Business Requirement Analysis	Database Physical Modeling and creation
Conceptual and Logical modeling	Database tuning/space management
Standard data definition	Backups and recovery
Meta-data management	Database integrity management
Data Stewardship	User and usage management

Tools

- Database, Modeling and Data Warehousing
 - Oracle 8i and 9i
 - Microsoft SQL Server 2000
 - Poet Object Oriented database
 - Sybase PowerDesigner (Data Modeling)
 - Popkin System Architect (Data Modeling)
 - Rational Rose UML (OO modeling)
 - Together (OO Modeling and development)
 - MS Analysis Service (Data Warehousing/OLAP)
 - Insightful Miner (Data Mining)

Hands-on to Support Course Work

- Emphasizes all aspects of the life Cycle
 - Students create a working application using a DBMS from the requirements
 - Students create a data warehouse and create OLAP cubes based on the requirements
 - Students create Distributed database system based on the requirements

Research

- Beyond lab work for classes, Master students are encouraged to do research:
 - Distributed System Lab
 - Testbed for doing research in databases, dist databases, data mining, and data warehousing
 - Web Lab
 - Testbed for doing research in web design and development and database access across the web
 - OO Lab
 - Testbed for doing research in object-oriented systems based on OO database technology

Call for Papers

- Theme: Emerging technologies
- Dates: August 25th and 26th
- Location: UST Minneapolis Campus
- Papers due: May 1st
- More information:
www.rfbinternational.com/icet03.htm
Email: skrahimi@stthomas.edu

Discussion/Questions

Contact:

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