

SCHOOL OF ACCOUNTANCY AND MANAGEMENT INFORMATION SYSTEMS

Known for its innovative programs in accounting, the School of Accountancy and Management Information Systems has been a major source of graduates for professional accountancy and management information systems careers in public accounting, business and industry, and the public sector. The School is a member of the Federation of Schools of Accountancy, is one of the largest accounting programs in the United States, and is separately accredited by the American Assembly of Collegiate Schools of Business.

The School of Accountancy and Management Information Systems strives to serve students, the public interest and professionals through teaching excellence, service and research. The School of Accountancy serves by (1) providing qualified students through undergraduate and graduate degree programs with the education necessary to commence and continue their careers as professionals in public accounting, business and industry, and the public sector; (2) providing all students in the College of Commerce with a fundamental knowledge of accounting and information systems as a vital element in the management of complex organizations; (3) providing the public with education in accounting and management information systems that serves needs including courses for continuing professional education and professional certification; and (4) promoting applied and theoretical research of significance to the accounting and management information systems professions.

The objectives of the Bachelor of Science in Commerce-Accountancy curriculum are to provide students with a solid foundation in the theory, principles, and procedures of the discipline and professional practice of accountancy, including the study of financial, managerial and tax accounting as well as auditing and systems; to encourage and prepare students for professional certification; to foster an understanding of the profession of accountancy and its role in modern business environments; and to develop an awareness of the need for continuing intellectual development through either professional or academic means.

FACULTY

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|--|--|
| RAY WHITTINGTON, PH.D., C.P.A., C.M.A., C.I.A.,
<i>Professor and Ledger & Quill Director</i>
University of Houston | EDWARD C. FOTH, PH.D., C.P.A.,
<i>Associate Professor and KPMG
Faculty Fellow</i>
Michigan State University |
| ROBERT M. PETERS, PH.D., C.P.A.,
<i>Deloitte & Touche Distinguished
Professor and Administrator of
Strobel Honors Program</i>
University of Kentucky | MARK L. FRIGO, PH.D., C.P.A., C.M.A.,
<i>Eichenbaum Foundation Distinguished
Professor of Strategy and Leadership</i>
Northern Illinois University |
| PATRICIA L. MCQUEEN, M.B.A., C.P.A.,
<i>Coordinator of Faculty and Curriculum</i>
DePaul University | DELVIN GRANT, PH.D.
<i>Associate Professor</i>
State University of New York
at Binghamton |
| TIMOTHY J. LOCKYER, PH.D.,
<i>Assistant to the Director</i>
Pennsylvania State University | NANCY THORLEY HILL, PH.D., C.P.A., C.M.A.
<i>Associate Professor</i>
University of Wisconsin |
| JOHN T. AHERN, JR., D.B.A., C.P.A.,
<i>Associate Professor</i>
University of Kentucky | GAIL C. KACIUBA, PH.D., M.B.A., C.P.A.,
<i>Associate Professor</i>
Northwestern University |
| EDWIN COHEN, PH.D., C.P.A.,
<i>Professor</i>
Michigan State University | HOWARD A. KANTER, ED.D., M.S.A., C.P.A.,
C.D.R., C.I.S.A., C.S.P.,
<i>Associate Professor</i>
Northern Illinois University |
| SASA DEKLEVA, PH.D.,
<i>Associate Professor</i>
University of Belgrade | |

**SCHOOL OF ACCOUNTANCY AND
MANAGEMENT INFORMATION SYSTEMS**

- JOHN M. KOHLMEIER, D.B.A.,
Visiting Instructor
Harvard University
- SUSAN LUEDERS, M.S.A., C.P.A.,
Visiting Instructor
University of Illinois
- STANLEY C. MARTENS, PH.D., C.P.A.,
Associate Professor
Cornell University
- MARK A. MCCARTHY, J.D., M.A.S.,
C.P.A., C.M.A.,
Assistant Professor
DePaul University
- JOHN MCENROE, D.B.A, C.P.A.,
Ledger & Quill Distinguished Professor
University of Kentucky
- HENRY S. MOSS, M.S.A., C.P.A., C.D.P.,
Professor Emeritus
Long Island University
- ELIZABETH A. MURPHY, PH.D., C.P.A.,
Assistant Professor
University of Kentucky
- BELVERD E. NEEDLES, JR., PH.D.,
C.P.A., C.M.A.,
*Andersen Alumni
Distinguished Professor*
University of Illinois
- DENISE NITTERHOUSE, D.B.A., C.P.A.,
Associate Professor
Harvard University
- LYNNE O'SHEA, PH.D.
Executive in Residence
Northwestern University
- GERARD V. RADICE, M.B.A., C.P.A.,
Professor Emeritus
University of Chicago
- HELENE RAMANAUSKAS-MARCONI, PH.D.,
C.P.A.,
Professor Emeritus
Maximilian University (Munich)
- DAVID J. ROBERTS, J.D., M.S.T., M.B.A.,
C.P.A.,
Associate Professor
DePaul University
- DONALD SHANNON, PH.D., C.P.A.,
Professor
University of North Carolina at
Chapel Hill
- SANDRA SHELTON, PH.D., C.P.A.,
Associate Professor
University of Wisconsin, Madison
- MILTON D. SHULMAN, PH.D., C.D.P.,
C.S.P.,
Professor Emeritus
University of Illinois
- GARY SIEGEL, PH.D., C.P.A.,
Associate Professor
University of Illinois
- KEVIN T. STEVENS, D.B.A., C.P.A.,
Professor
University of Kentucky
- MARK J. SULLIVAN, PH.D., C.P.A.,
Associate Professor
University of Wisconsin, Madison
- CURTIS C. VERSCHOOR, ED.D., C.P.A.,
C.M.A., C.I.A., C.F.E., C.F.P., CH.F.C.,
Professor Emeritus
Northern Illinois University
- GEMMA M. WELSCH, PH.D., C.P.A.,
C.M.A.,
Associate Professor
Northwestern University
- MICHELENE D. WENDORF, M.S.ED.,
C.P.A.,
Visiting Instructor
University of Wisconsin, Oshkosh

SCHOOL OF ACCOUNTANCY AND MANAGEMENT INFORMATION SYSTEMS

ANDERSEN LLP ALUMNI DISTINGUISHED PROFESSORSHIP OF ACCOUNTANCY

Through the generosity of the alumni and friends at Andersen, this named chair was established in 1988 and has been held by Professor Belverd E. Needles in recognition of his contributions to accounting education.

DELOITTE & TOUCHE ALUMNI DISTINGUISHED PROFESSORSHIP OF ACCOUNTANCY

Through the generosity of the alumni and friends at Deloitte & Touche, this named chair was established in 1988 and has been held by Professor Robert M. Peters in recognition of his superior teaching and leadership in accounting education at DePaul University.

LEDGER & QUILL DISTINGUISHED PROFESSORSHIP OF ACCOUNTANCY

Through the generosity of Ledger & Quill, the alumni and friends organization of the School of Accountancy, this named chair was established in 1990 and is currently held by Professor John E. McEnroe in recognition of his superior teaching and leadership in accounting education at DePaul University.

KPMG FACULTY FELLOW

Through the generosity of alumni and friends at KPMG, this named fellowship was established in 1998 and is held by Professor Edward C. Foth in recognition of his leadership of and contribution to advanced professional education in taxation.

JOSEPH K. AND INEZ EICHENBAUM FOUNDATION DISTINGUISHED PROFESSOR OF STRATEGY AND LEADERSHIP

Through the generosity of Sidney Eichenbaum, the Eichenbaum Family and the Eichenbaum Foundation, this named chair was established in 1999 and is held by Eichenbaum Foundation Distinguished Professor of Strategy and Leadership Mark L. Frigo, in recognition of superior teaching, research and leadership in accounting education at DePaul University.

SCHOOL OF ACCOUNTANCY SCHOLARSHIPS

The Scholarship Selection Committee of the School evaluates applicants for these awards on the basis of academic achievement, high school record, ACT/SAT scores, and extracurricular activities. A personal interview with the Committee also is part of the selection process for these scholarships.

LEDGER & QUILL SCHOLARSHIPS

Ledger & Quill is the support organization for the DePaul University School of Accountancy, formed by friends and alumni to encourage excellence in teaching, research, service and study. L & Q provides significant financial assistance to students through the following programs:

- The merit-based L & Q Scholarships, renewable for four years, are awarded annually to incoming first year students. Awards vary in number and amount.
- The L & Q Multicultural Award, renewable scholarship is available for a first year student with a multicultural background. The award varies in number and amount.
- The L & Q Achievement Awards program provides up to ten \$1000 awards for superior accounting students who have made significant contributions to DePaul, the School, or their community.

SCHOOL OF ACCOUNTANCY AND MANAGEMENT INFORMATION SYSTEMS

ELDRED STROBEL SCHOLARSHIPS

The Strobel Scholars Honors Program also offers scholarships, including the four-year renewable Strobel Scholarship. Strobel Achievement Awards are offered to students at all levels of the program. Generated by the Strobel Endowment Fund, Strobel Scholarships and Awards are available to students in the Strobel Scholars Program.

CHARLES MELVOIN SCHOLARSHIPS

Funded by the Charles and Selma Melvoyn Fund in the School of Accountancy, one variable amount, renewable Melvoyn Scholarship, is offered yearly to a selected incoming first year student.

THE HOWARD AND ROBERTA GOSS SCHOLARSHIPS

Through gifts provided by DePaul alumni Howard and Roberta Goss and the Transco Foundation, partial scholarship funds for superior students from the Greater Chicago Area are available on a needs basis to students studying in the School of Accountancy

GUY ACCETTURA ENDOWED SCHOLARSHIPS

The gift of the Accettura Family, the Guy Accettura Scholarships are provided for superior students in DePaul's College of Commerce studying Accounting or Finance.

THE DELOITTE & TOUCHE MINORITY SCHOLARSHIP INTERNSHIP PROGRAM

The school, in conjunction with Deloitte & Touche, offers scholarships and summer internships to selected minority students interested in a public accounting career.

THE PRICEWATERHOUSECOOPERS MINORITY SCHOLARSHIP INTERNSHIP PROGRAM

The school, in conjunction with PricewaterhouseCoopers, offers a scholarship/ internship program to selected superior minority accounting majors.

BP SCHOLARSHIPS

Through the generosity of DePaul friends and alumni at British Petroleum and its predecessor firm the Amoco Corporation and the Amoco Foundation, partial annually renewable scholarships are provided to superior incoming first-year minority accounting students.

THE SUCCESS THROUGH SCHOLARSHIP ENDOWMENT FUND

Through the ongoing generosity of DePaul friends and alumni Belverd E. Needles (Andersen Alumni Distinguished Professor), William B. Snow and Ernest R. Wish, (DePaul trustees) and with the participation of the Illinois CPA Society and the university, the endowed Accounting Education Fund provides scholarships and other financial support for superior students at DePaul.

SCHOOL OF ACCOUNTANCY INTERNSHIPS

The School of Accountancy maintains strong relations with the Chicago accounting and business communities, making possible a wide variety of both credit and non-credit internship and part-time employment opportunities for School students. Options include:

- Internship listings: the School maintains a list of currently-available opportunities from large and small businesses in the area for accounting majors.
- Accounting 393: provides students with academically-supervised professional work experiences closely coordinated with course and curriculum content.
- Industry-sponsored programs: the School participates in ongoing internship programs (some of which include scholarships) sponsored by such firms as Abbott Laboratories, Andersen, Deloitte & Touche, KPMG and PricewaterhouseCoopers.

The school also provides scholarships and awards through its Accountancy Scholarship Fund, the Accounting Club Awards, and the Beta Alpha Psi Awards. Total value of school-based scholarships and awards exceed \$100,000 yearly.

SCHOOL OF ACCOUNTANCY AND MANAGEMENT INFORMATION SYSTEMS

ACCOUNTANCY PROGRAM REQUIREMENTS

Students must complete the following courses for the accounting major: 300 Business Processes, Information Systems and Controls; 303 Cost and Managerial Accounting; 304 Financial Reporting I; 305 Financial Reporting II; 360 Taxation; 350 Information for Decision Making; 396 Internal and External Consulting, and two advanced electives in accounting.

CPA EXAM REQUIREMENTS

Candidates taking the Uniform Certified Public Accountant's examination after December 31, 2000, must have completed at least 150 semester hours (225 quarter hours) of acceptable credit, which must include a baccalaureate or higher degree and include the equivalent of an accounting concentration. Since the usual number of hours required for an undergraduate business degree at DePaul is 192, additional hours will be required to be eligible to take the exam.

DePaul University's College of Commerce and Kellstadt Graduate School of Business offer a variety of full-time, evening, and weekend programs that enable the individual graduating with an accounting major to obtain the required additional hours as well as enhance career opportunities. Options that provide at least the required number of hours include:

- Master of Science in Taxation (45 quarter hours)
- Master of Accountancy (45 quarter hours minimum)
- Master of Business Administration (60 quarter hours minimum)
- An additional 36 quarter hours of course work at either the undergraduate or graduate level, distributed across subject areas based on individual interests and/or CPA exam content. Beginning accounting students may consider planning a minor to be taken along with their accounting major, nearly completing the 150-hour requirement within the traditional four years. Minors can be taken in disciplines offered by the School, or the Colleges of Commerce, Liberal Arts & Sciences, and Computer Science and Telecommunications (see p. 32).
- An additional 33 quarter hours of course work at either the graduate or undergraduate level, distributed across subject areas based on individual interests and/or CPA exam content.

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ADMISSION TO THE ACCOUNTANCY MAJOR

Students are considered members of the School of Accountancy when they have (1) met DePaul University and College of Commerce admission requirements; (2) declared Accountancy as their major field by completing a Declaration of Major form.

DECLARED STATUS

To declare a major in Accountancy the following conditions must be met: 1) the student must possess a cumulative G.P.A. of 2.3 or better and an Accounting G.P.A. of at least 2.0 or better; 2) have received a minimum grade of C- for all Phase I courses provided the cumulative G.P.A. for these courses is not less than 2.0; 3) receive at least a C- or better in Accountancy 303 and 304 with an Accountancy cumulative G.P.A. or 2.0 or better; 4) have a combined total accounting G.P.A. and cumulative G.P.A. equal to at least 4.75.

Students should submit their Declaration of Major form upon completion of Accountancy 304. completion of the Declaration of Major Form is required by the end of the second quarter in the junior year. Membership may be conferred upon highly qualified students prior to junior standing at the discretion of the director.

INTENDED STATUS

Prior to completion of Accountancy 304 and acceptance by the School of Accountancy of the Declaration of Major Form, students will have status as Intended Accountancy majors.

MINOR

A student may obtain a minor in Accountancy by completing the following courses: 101 Introduction to Accounting I; 102 Introduction to Accounting II; 300 Business Processes, Information Systems and Control; 304 Financial Reporting I; 360 Taxation; and one elective chosen from 305 Financial Reporting II, 303 Cost & Managerial Accounting, 372 Audit and Other Assurance Services I or 396 Internal and External Consulting. Students may declare a minor in Accounting by completing a Declaration of Minor Form. The student's eligibility for candidacy is based upon the following criteria: (1) an Accounting G.P.A. of 2.0 or above in all accounting courses; (2) a cumulative G.P.A. of 2.0 in all academic work; (3) and completion of one accounting course at DePaul prior to declaration.

NON-COMMERCE STUDENT MINOR

A student majoring in a discipline other than commerce may obtain a minor in Accountancy by completing the following courses: 101 Introduction to Accounting I; 102 Introduction to Accounting II; 300 Business Processes, Information Systems and Control; 304 Financial Reporting I; 360 Taxation; and one elective chosen from 305 Financial Reporting II, 303 Cost & Managerial Accounting, 372 Audit and Other Assurance Services I or 396 Internal and External Consulting. Non-commerce students declare a minor in Accounting by completing a Declaration of Minor form. The student's eligibility for candidacy is based upon the following criteria: (1) an Accounting G.P.A. of 2.0 or above in all accounting courses; (2) a cumulative G.P.A. of 2.0 in all academic work; (3) and completion of one accounting course at DePaul prior to declaration. The student must meet the prerequisite course equivalencies of pre-calculus and statistics prior to taking the first course in the minor.

ADDITIONAL ACADEMIC POLICIES

Adjustments in programs may be made on recommendation of advisors and upon agreement with the director or designate. A grade of C- or better is required in all major-field courses whether taken as an elective or as a required course, provided the cumulative G.P.A. in these courses is not less than 2.0. Only three courses in the accounting major may be repeated to raise the grade to meet the minimum standard of C-. Exceptions will be granted only in rare or unusual circumstances with the permission of the director of the School of Accountancy and Management Information Systems. Each may be repeated only once.

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THE STROBEL HONORS PROGRAM

The designation "Strobel Scholar" is reserved for students of exceptional ability, achievement, and motivation in the School of Accountancy and Management Information Systems's Strobel Honors Program. These students are characterized by outstanding academic records, high aptitudes for scholastic work, and reputations for leadership. Participation, which is by invitation, is open only to incoming freshmen.

Special honors sections of accountancy courses are provided for Strobel Scholars every quarter as indicated in the quarterly class schedule. The content and structure of these honors sections are designed to appeal to the Strobel Scholar.

Strobel Scholars proceed through the Program together, interacting with peers who have similar abilities. Learning and teaching concepts are advanced and student-oriented; small group activities and student presentations are used in honors sections. Outside speakers from the accounting and business communities are frequent visitors and participants.

Students in the Strobel Scholars Program are expected to maintain high academic performance throughout the complete honors curriculum. Academic performance is reviewed at the end of each school year by the Administrator of the Strobel Scholars Program, Dr. Robert Peters, Deloitte & Touche Alumni Professor.

The program is named after the late chair of the Accountancy Department, Eldred C. Strobel. Professor Strobel's distinguished career as an accounting educator spanned thirty-five years, fourteen of which were served as chair. Known for his support of innovative approaches to accounting education, he was the founder of the honors program which now bears his name.

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COURSES

All courses carry four hours of credit unless otherwise stated.

- ACC 101** *Introduction to Accounting I* provides an introduction to financial accounting as the means of recording, storing and summarizing economic events of the business enterprise to meet external reporting needs. Emphasis is placed on the preparation and analysis of financial statements and other financial reports to the public based on the accounting equation, accrual accounting concepts, and data gathering techniques. Topics include corporate accounting for current and longterm assets and current liabilities, and the corporate income statement. **PREREQUISITE(S):** MAT 130 or equivalent and adequate performance on the University Assessment tests in reading, writing, and mathematics. Incoming freshmen, unless participating in the Eldred C. Strobel Scholars Program, may not enroll in this course. **Sophomore standing required.**
- ACC 102** *Introduction to Accounting II*, a companion and sequel course to Accounting 101, continues to explore basic accounting fundamentals and concepts. The course provides an introduction to managerial accounting, and internal reporting. Topics include financial accounting for long term liabilities, the components of stockholders equity, the statement of cash flows, financial statement analysis, budgeting and variance analysis, job costing for the service sector and cost analysis for decision-making. **PREREQUISITE(S): ACC 101 and sophomore standing.**
- ACC 202** *Quantitative Methods for Accounting* provides a foundation in quantitative skills used in later course work and as an accounting professional. **PREREQUISITE(S): BMS 142 or BMS 157.**
- ACC 300** *Business Processes, Information Systems and Control* provides an understanding of the major business processes and how these are supported by information technology and controls. Emphasis is placed on the study and assessment of existing processes, information systems and controls. **PREREQUISITE(S): ACC 102.**
- ACC 303** *Managerial Accounting* provides a thorough grounding in manufacturing accounting, cost allocation techniques, and the evaluation of management control systems. Students will examine manufacturing cost systems including job order costing, process costing, and activity-based costing. Tools for management control systems will be covered to enable the student to evaluate and compare various systems. **PREREQUISITE(S): ACC 102.**
- ACC 304** *Financial Reporting I* includes a study of U.S. and international accounting standards, the concepts of accounting, basic financial statements, forming corporations and issuing equity and debt. Accounting for cash, receivables, inventories, depreciable assets and investments will also be examined. **PREREQUISITE(S): ACC 300.**
- ACC 305** *Financial Reporting II* focuses on researching accounting issues, revenue recognition and financial statement analysis. The course also provides an understanding of complex issues such as accounting for leases, pensions and other post-retirement benefits. **PREREQUISITE(S): ACC 304.**

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- ACC 306** *Financial Reporting III* is the third course in the financial accounting sequence, this course studies deferred taxes, pensions and other post-retirement benefits, leases, accounting changes and error analysis, statement of cash flows (advanced), and full disclosure. Selected spreadsheet applications will be introduced through homework assignments. **PREREQUISITE(S): ACC 305.**
- ACC 308** *Advanced Financial Accounting* focuses on accounting for multi-corporate entities and acquisitions, accounting for state and local governments, accounting for non-profit organizations, foreign operations, partnership accounting, and segment reporting. Selected spreadsheet applications will be introduced through homework assignments. **PREREQUISITE(S): ACC 305.**
- ACC 350** *Information for Decision-Making* emphasizes the linkage between the value chain, business processes, and activities with an overall theme of business process management. As an information professional, the accountant needs to be well-versed in decision-making tools and interfacing with the information system. Students should leave this course with an understanding of database structure and the skills to correctly design and query such systems to obtain relevant information. This course should provide an integration of issues across financial accounting, management accounting, taxation, audit and information systems. **PREREQUISITE(S): ACC 305, ACC 360, ACC 303.**
- ACC 360** *Taxation I* investigates the basic provisions of the Internal Revenue Code as they relate to the determination and taxation of income, focusing primarily on business entities. The course also includes an introduction to tax research, an exposure to professional standards and the role of taxation in the business decision-making process. **PREREQUISITE(S): ACC 304.**
- ACC 372** *Audit and Other Assurance Services I* provides a conceptual introduction to the nature and value of assurance services. The course examines the organization of the accounting profession, professional ethics, and legal responsibilities. It covers financial, compliance, and operational audits by external and internal auditors. The course also investigates generally accepted auditing standards, international auditing standards and the U.S. securities laws. **PREREQUISITE(S): ACC 305 and completion of Phase I.**
- ACC 374** *Audit and Other Assurance Services II*, a companion and sequel to Accounting 372, emphasizes the implementation of auditing and attestation standards through the integration of computer software, sampling and other techniques. Emphasis is placed on the collection and evaluation of evidence. **PREREQUISITE(S): ACC 372 and completion of Phase I.**
- ACC 380** *Treatment of Individuals and Property Transactions* covers the basic provisions of the Internal Revenue Code as they relate to the taxation of individuals. It focuses on concepts of gross income, exclusions, deductions, exemptions, and credits, as well as property transactions. **PREREQUISITE(S): ACC 304 and completion of Phase I.**
- ACC 383** *Tax Treatment of Corporations and Partnerships.* The course covers the tax aspects of corporations and partnerships, including formation, operations, and distributions, as well as specially taxed corporations and an introduction to estate and gift taxation. **PREREQUISITE(S): ACC 380.**

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- ACC 391** **CPA Review.** The goal of this program is the preparation of students for the Certified Public Accountant examination. Numerous problems are worked by the student, both in the classroom and at home. Problems are selected to systematically review the student's knowledge of all pertinent aspects of accounting. This course is open only to candidates for the next CPA examination and with permission of the director of the CPA Review. Accounting majors may take this review for eight quarter hours which can be used as hours needed to sit for CPA exam, but not for hours towards graduation. CPA Reviews begin in mid-June for the November exam and in January for the May exam.
- ACC 393** **Internship in Accountancy** provides students with academically supervised work experiences, improving linkages between classroom efforts and the business world. Students obtain valuable professional experience and begin the process of networking with area businesses and professionals. Enrollment in the internship program requires the approval of the School of Accountancy internship director. **PREREQUISITE(S): Enrollment in the internship program requires the approval of the School of Accountancy internship director.**
- ACC 396** **Internal and External Consulting** focuses on the management consulting process as a creative problem solving process where the objective is to provide measurable value to internal and external clients. The course uses a strategic business perspective and integrates and synthesizes all functional business areas. Real world case studies are used to demonstrate the consulting process. The ultimate objective of the course is to enable students to serve as effective consultants to internal and external clients. Practitioner Associates will participate in the delivery of the course to examine specific consulting skills or technical consulting applications. The course emphasizes teamwork, group reports and presentations. **PREREQUISITE(S): ACC 350.**
- ACC 398** **Special Topics** courses provide in-depth study of current issues in accountancy. Content and format of this course are variable. Subject matter will be indicated in class schedule. **PREREQUISITE(S): ACC 304 and junior standing or as listed in class schedule.**
- ACC 399** **Independent Study** is available to students of demonstrated capability for intensive independent work in accountancy. **PREREQUISITE(S): Written permission of supervising faculty member, chair and director of undergraduate programs is required prior to registration.**

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MANAGEMENT INFORMATION SYSTEMS

The undergraduate program in Management Information Systems provides College of Commerce students an opportunity to major or minor in Management Information systems. The major in MIS will prepare students to start their careers as systems analysts with a potential to progress to positions in MIS management.

This program is intended for undergraduate commerce students who plan to start their career as information systems professionals in either information technology producing industries or with the heavy users of such technologies. If they decide to take a minor in MIS, graduates will be able to function as liaisons representing their department or business function in information systems projects.

FACULTY

RAY WHITTINGTON, PH.D., C.P.A., C.M.A., C.I.A.,
Professor and Ledger & Quill Director
University of Houston

PATRICIA L. MCQUEEN, M.B.A., C.P.A.,
Coordinator of Faculty and Curriculum
DePaul University

SASA DEKLEVA, PH.D.,
Associate Professor
University of Belgrade

DELVIN GRANT, PH.D.
Associate Professor
State University of New York
at Binghamton

HOWARD A. KANTER, ED.D., M.S.A., C.P.A.,
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C.M.A.,
Associate Professor
Northwestern University

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MIS PROGRAM REQUIREMENTS

Students must complete the following seven courses for the MIS major: CSC211 Programming in Java I, CSC 319 Database Technologies, MIS 360 Systems Analysis or CSC 315 Systems Analysis and Design, CSC 361 Basic Communication Systems or CSC 362 Principles of Data Communications, MIS 362 IS Project Management or IS 372 Foundations of Software Project Management, MIS 364 Knowledge Management or MIS 366 Internet Technologies in Business or IS 373 Introduction to Large System Implementation plus one elective which may be selected from any MIS course or any 300 level CTI course other than MIS 340

DECLARATION OF MAJOR:

For students to become a major in MIS the following conditions must be met: (1) the student must possess a cumulative G.P.A. of 2.0 or better; (2) have received a minimum grade of C- in each Phase I course provided the cumulative G.P.A. in these courses is not less than 2.0; (3) received a minimum grade of C- in CSC 260.

MINOR

A student may obtain a minor in MIS by completing six courses. The student should complete the same courses listed above for the major except for the elective.

COURSES

- MIS 130** *Introduction to Information Technology* is designed to familiarize students with computing and communication technology as it is used in the business environment. Hands-on instruction covers the use of personal productivity tools and internet publishing.
- MIS 340** *Management Information Systems* addresses how information technology may be used to support business operations, and management. Topics include management of information technology, information systems development, databases/data warehouse, networks, and decision support. Information technology as a facilitator of process, organization structure and strategy change, and social, ethical and legal considerations. **Prerequisite: MIS 130 or equivalent and completion of at least one course in each of the College of Commerce Phase II required disciplines**
- MIS 360** *Systems Analysis*. Examines the system development life cycle and methods and tools for doing system analysis. Students will examine issues and problems found by system analysts.
- MIS 362** *IS Project Management*. IS project management concepts, techniques and issues, and the role, scope and responsibilities of project leaders. Uses case studies and computerized project management tools. Project management, management of the IS function and systems integration are emphasized. Focuses on management of object-oriented projects. **Prerequisite: MIS 360**
- MIS 364** *Knowledge Management*. The process of building a knowledge architecture, which identifies the scope of the investment that will be made in managing knowledge. Techniques for building road maps to finding important content and job descriptions for people who will organize the content. The application of relevant knowledge management technologies. **Prerequisite: MIS 360**
- MIS 366** *Internet Technologies in Business*. This course focuses on the use of the Internet to meet the strategic objectives of a business. Special emphasis is placed on business and customer relations in web-based technologies, and the social, political, economic, legal and ethical issues surrounding the Internet. **Prerequisite: MIS 360**

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- CSC 211** ***Programming in Java I.*** Introduction to object-oriented programming using Java. Topics include variables, datatypes, control structures, arrays, method invocation and parameter passing, predefined classes and programmer-defined classes. Introduction to Java interfaces and inheritance. Simple graphical user interfaces, events and listeners.
- CSC 315** ***Analysis and Design.*** Analyzing a problem requiring a computer-based solution, designing a solution, prototyping the solution in a 4th generation language, testing the prototype. Structured analysis and design techniques, data flow and control flow diagramming, the data/project dictionary, processing narratives, architectural design, detailed design, transform and transaction flow, program design language, technical reviews, inspections, and walkthroughs. Comparison of structured techniques to alternative approaches. A team project will be required to motivate these topics. **Prerequisite: Junior standing**
- CSC 319** ***Database Technologies.*** Mainframe and PC database technology; open database connection using the ODBC model; Oracle and DB2; enterprise models and entity relationship models; normalization; object database models; distributed databases. **Prerequisite: CSC 240 or equivalent**
- CSC 361** ***Basic Communications Systems.*** Introduction to voice networks; data communications fundamentals; local area networks. Internet and information highway technologies.
- CSC 362** ***Principles of Data Communications.*** Theory and components of data communication systems, modes, codes, and error detection techniques for data transmission, network protocols and line control procedures, communication carrier facilities and system planning. **Prerequisite: MIS 360 or CSC 315**
- CSC 372** ***Software Project Development and Management.*** In-depth study of the development and implementation process for both traditional and e-commerce software projects of all sizes. Project structuring, tools and techniques for scheduling and control, including project management software. Emphasis upon working within an organizational context. **Prerequisite: CSC 315 or MIS 360**
- CSC 373** ***Large Systems Implementation.*** An introduction to the implementation of complex package solutions for enterprise computing in a client-server environment. Functionalities and purposes of package solutions, such as enterprise resource planning (ERP), customer relationship management (CRM), and supply chain management (SCM). Business process framework, architecture, implementation tools and methodology, system integration, change management, and package selection. **Prerequisite: CSC 315 or MIS 360**

**SCHOOL OF ACCOUNTANCY AND
MANAGEMENT INFORMATION SYSTEMS**

E-BUSINESS

The undergraduate major in e-business will provide students in the College of Commerce with the background to work in new or existing companies that use electronic means to do business. With the explosive growth of the Internet, industries are increasingly employing Internet and related electronic commerce technologies. E-commerce has expanded beyond its early roots in electronic funds transfer and data interchange to embrace the use of Internet technologies for such applications as Web-based retailing, electronic supply chain management and Web publishing. In addition, Intranets provide a cost-effective approach to both intra-organizational data sharing and facilitation of collaborative work processes.

This program is intended for undergraduate business students who plan to start their career as e-business professionals in either information technology producing industries or with the heavy users of such technologies.

FACULTY

RAY WHITTINGTON, PH.D., C.P.A., C.M.A., C.I.A.,
Professor and Ledger & Quill Director
University of Houston

PATRICIA L. MCQUEEN, M.B.A., C.P.A.,
Coordinator of Faculty and Curriculum
DePaul University

SASA DEKLEVA, PH.D.,
Associate Professor
University of Belgrade

DELVIN GRANT, PH.D.
Associate Professor
State University of New York
at Binghamton

HOWARD A. KANTER, ED.D., M.S.A., C.P.A.,
C.D.R., C.I.S.A., C.S.P.,
Associate Professor
Northern Illinois University

JOHN M. KOHLMEIER, D.B.A.,
Visiting Instructor
Harvard University

DENISE NITTERHOUSE, D.B.A., C.P.A.,
Associate Professor
Harvard University

GEMMA M. WELSCH, PH.D., C.P.A.,
C.M.A.,
Associate Professor
Northwestern University

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PROGRAM REQUIREMENTS

Students must complete the following seven courses for the E-Business major: ECT 250 Survey of E-Commerce Technology or MIS 366 Internet Technologies in Business , CSC 240: Personal Computing for Programmers, CSC 260: Client Interface Programming, ECT 270: Client Side Web Application Development, ECT 353: Server Side Web Application Development, ECT 315: Analysis and Design Techniques or MIS 360: Systems Analysis and Design, ECT 372: Software Project Development and Management or MIS 362: Information Systems Project Management

DECLARATION OF MAJOR:

For students to become a major in E-Business the following conditions must be met: (1) the student must possess a cumulative G.P.A. of 2.0 or better; (2) have received a minimum grade of C- in each Phase I course provided the cumulative G.P.A. in these courses is not less than 2.0; (3) declared E-Business as their major field by completing a Declaration of Major form.

MINOR

A student may obtain a minor in E-Business by completing ECT 250 or MIS 366, CSC 240, CSC 260, ECT 270, ECT 353, and ECT 315 or MIS 360.

COURSES

- CSC 240** *Personal Computing for Programmers.* Introduction to relational database concepts using PC databases; data access methods; structure query language (SQL); query by example; networks and the use of networks to share data; spreadsheets and macro languages. **Prerequisite: IDS 120 (Quantitative Reasoning) or equivalent (e.g. Business Math & Statistics).**
- CSC 260** *Client Interface Programming.* Programming for the client side of the client/server model entails using Visual Basic. Visual Basic objects including intrinsic controls, event handlers, variables, control structure, I/O, database management. **Prerequisite: CSC 240.**
- CSC 250** *Survey of E-Commerce Technology.* An introduction to Internet technology and its applications for electronic commerce. Survey of how the Internet works, the TCP/IP protocol, services available on the Internet, the concepts of WWW, clients and servers, Web browsers, search engines, intelligent agents, HTML authorizing tools, and audio video communications. Components of e-commerce, including digital payment, catalogue, data exchange, security. The application of e-commerce technology for organizations, business, and industries. **Prerequisite: none**
- CSC 270** *Client Side Web Application Development.* A study of HTML, DHTML, cascading style sheets, authoring tools, and fundamentals, of client scripting, JavaScript, CGI, and XML. Students will develop simple web sites using DHTML and JavaScript. **Prerequisite: none**

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- ECT 315** **Analysis and Design Technologies.** Analyzing a problem requiring a computer-based solution, designing a solution, prototyping the solution in a 4th generation language, testing the prototype. Structured analysis and design techniques, data flow, and control flow diagramming, and transaction flow, program design language, technical review, inspections, and walkthroughs. Comparison of structured techniques to alternative approaches. A team project will be required to integrate these topics. **Prerequisite: Junior standing.**
- ECT 353** **Server Side Web Application Development.** Application development for e-commerce. Includes development of small-scale e-commerce transaction applications. Students will design and build retail Web site that accesses a database for online order processing. **Prerequisites: ECT 250, ECT 270, and CSC 260 (Formerly IS 353)**
- MIS 372** **Software Project Development and Management.** In-depth study for the development and implementation process for both traditional and e-commerce software projects of all sizes. Project structuring, tools, and techniques for scheduling and control, including project management software. Emphasis is upon working within an organizational context. **Prerequisite: CSC 315 (Cross-listed with IS 372)**
- MIS 360** **Systems Analysis.** Introduces the concepts of system development life cycle and a methodology for each phase of this cycle. Introduces the modeling or documentation techniques used in the system development process with a focus on the early life cycle phases. **Prerequisite: CSC 260**
- MIS 362** **IS Project Management.** IS project management concepts, techniques and issues, and the role, scope and responsibilities of project leaders. Uses case studies and computerized project management tools. Project management, management of the IS function and systems integration are emphasized. Focuses on management of object-oriented projects. **Prerequisite: MIS 360 or ECT 372**
- MIS 366** **Internet Technologies in Business.** This course focuses on the use of the Internet to meet the strategic objectives of a business. Special emphasis is placed on business and customer relations in web-based technologies, and the social, political, economic, legal and ethical issues surrounding the Internet. **Prerequisite: MIS 360 or ECT 372**