



Ph.D. IN BUSINESS ADMINISTRATION

With Emphasis in *Information Systems* or *Logistics & Supply Chain Management*

An AACSB-Accredited Ph.D. program offered
by internationally recognized faculty.



College of Business Administration
University of Missouri – St. Louis

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In picture: The Millennium Student Center at dusk. Photo by: A. Jennewein (jenneweina@umsl.edu)



The Ph.D. program in Business Administration offers two emphasis areas, Information Systems (IS) and Logistics & Supply Chain Management (LSCM). Both emphasis areas accommodate traditional full-time students with baccalaureate or graduate degrees in a relevant area, as well as experienced individuals seeking a career change and some part-time students, such as mid-career managers with an MBA.

Both emphasis areas provide our students with opportunities to:

- Work closely with faculty and other Ph.D. students in Ph.D. seminars and other forums
- Perform field-based research in organizations from the St. Louis metropolitan area and beyond
- Conduct research that would appear in leading journals and conferences
- Become well qualified for private and public sector positions in leading academic and research institutions, nationally and internationally
- Acquire skills needed to become excellent teachers



Students in one of the Ph.D. seminars

INFORMATION SYSTEMS (IS)

- IS Ph.D. students work closely on new research projects with UMSL IS Area Faculty which was ranked third among 375 universities in Faculty Scholarly Productivity in 2007 by The Chronicle of Higher Education.
- IS Area faculty have a wide variety of research interests and embrace a wide variety of research methods.
- The IS area maintains strong relationships with the St. Louis business community. We have an active advisory board which consists of more than 20 members who represent some of the leading companies in the metropolitan area.
- IS faculty serve as editors of leading journals, and will perform important leadership roles in hosting 2010 *International Conference of Information Systems* in St. Louis.
- IS Ph.D. students have published with faculty in leading journals such as *Management Science*, *Information & Organization*, *Communications of the ACM*, and *Journal of Information Technology*. IS Ph.D. students also participate actively in leading conferences such as *Americas Conference on Information Systems*, and *Academy of Management Annual Meetings*.

<http://business.umsl.edu/phdis>



Mary C. Lacity
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LOGISTICS & SUPPLY CHAIN MANAGEMENT (LSCM)

- The field of Logistics & Supply Chain Management is a growing and exciting area of business research as new technologies and transport systems make managing global logistics systems and supply chains more important than ever.
- Students can expect to learn not only what is going on globally, but also how to model and research specific transportation, distribution, and logistics systems. The instructional component of the LSCM Ph.D. program provides a solid grounding in business, with advanced coursework covering the latest developments in LSCM and special focus on international and analytical aspects. The primary research focus of the program is applied research to better manage LSCM systems in an operating environment that is increasingly complex, international, and technologically-driven.
- The LSCM Ph.D. program relies on the College of Business Administration's nucleus of high quality faculty in the LSCM area. The program also leverages links with the College's affiliated research centers (the *Center for Transportation Studies* and the *Center for Business and Industrial Studies*).

<http://business.umsl.edu/phdlscm>



Ray Mundy
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| IS FACULTY | | LSCM FACULTY | |
|---|---|---|--|
| Marius A. Janson Professor Ph.D., University of Minnesota | Rajiv Sabherwal UM Curators Professor Ph.D., University of Pittsburgh | James Campbell Professor Ph.D., UC – Berkeley | David Ronen Professor Ph.D., Ohio State University |
| Kailash Joshi Professor Ph.D., Indiana University | Vicki L. Sauter Professor Ph.D., Northwestern University | Haitao Li Assistant Professor Ph.D., University of Mississippi | L. Douglas Smith Professor Ph.D., University of Minnesota |
| Mary C. Lacity Professor Ph.D., University of Houston | Ashok Subramanian Chair & Associate Professor Ph.D., University of Houston | Joseph Martinich Professor Ph.D., Northwestern University | Donald C. Sweeney II Professor Ph.D., Washington University |
| Dinesh Mirchandani Associate Professor Ph.D., University of Kentucky | | Ray Mundy Barriger Endowed Professor Ph.D., Penn. State University | Keith Womer Dean (CoBA) and Professor Ph.D., Penn. State University |
| Joseph Rottman Associate Professor D.Sc., Washington University | | Robert M. Nauss Professor Ph.D., UCLA | |



Graduate Assistantships: Graduate assistantships (of \$18,000, with a performance-based bonus of \$2,000, along with a tuition waiver) are awarded on a competitive basis.

Degree Requirements: The Ph.D. in the College of Business Administration requires a minimum of 69 course credit hours and a minimum of 6 dissertation credit hours beyond the baccalaureate degree. To ensure sufficient background for doctoral-level courses, students must demonstrate appropriate competence in quantitative reasoning, which is evidenced through completion of ECON 4105 and BA 5000 or their equivalent. Students must also demonstrate appropriate competence in managerial communication, which is evident through completion of BA 5100 or equivalent to be determined by the Ph.D. Coordinator.

Course Requirements

I. Business & Research Foundation Requirement: 27 credit hours (9 courses)

Students are required to take:

- IS 5800, Management Information Systems*
- LOM 5300, Statistical Analysis for Management Decisions*
- BA 5900, Law, Ethics, and Business*
- ACCT 5400, Financial and Managerial Accounting*
- FIN 6500, Financial Management*
- MGMT 5600, Organizational Behavior*
- MKTG 5700, Contemporary Marketing Concepts*
- LOM 5320, Production and Operations Management*
- BA 7300, Statistical Modeling

*: The first eight courses (IS 5800, LOM 5300, BA 5900, ACCT 5400, FIN 6500, MGMT 5600, MKTG 5700, LOM 5320) above will normally be waived if students have a UMSL MBA, MS in IS, or MAcc degree, or had equivalent graduate coursework at an institution approved by the Graduate Business Program Office and the Ph.D. Coordinator.



Photo: A. Jennewein

II. Supporting Field Requirement: (9 credit hours): Students must take 9 credit hours of doctoral or masters courses outside the emphasis area, and beyond foundation coursework. These courses must be approved by the emphasis area's Ph.D. Coordinator, and could be taken within or outside the College of Business Administration.

III. Emphasis Area Requirements: Students must complete the requirements for one of the emphasis areas.

INFORMATION SYSTEMS (IS) EMPHASIS

The IS emphasis requirement includes 36 credit hours. Students are required to take the following ten courses:

- INFSYS 6805, Applications of Programming for Business Solutions
- INFSYS 6836, Telecommunications: Design and Management
- INFSYS 6840, Information Systems Analysis
- INFSYS 6845, Database Management Systems
- BUS AD 7021, Qualitative Methods and Philosophical Foundations of Business Administration Research
- INFSYS 7890, IS Research Seminar
- INFSYS 7891, Quantitative Research Methods in IS
- INFSYS 7892, Doctoral Seminar in current IS Topics
- INFSYS 7893, Special Topics in IS
- INFSYS 7894, Theoretical Foundations of IS Research

Students are required to take 6 credit hours (2 courses) (not included elsewhere) from the list of approved elective courses for the IS emphasis.

LOGISTICS & SUPPLY CHAIN MANAGEMENT (LSCM) EMPHASIS

The LSCM emphasis requirement includes 33 credit hours. Students are required to take the following eight courses:

- MKTG 5770, Supply Chain Management
- LOG OM 6330, Business Logistics Systems
- LOG OM 6331, Logistics & Supply Chain Operations Modeling
- LOG OM 6332, Logistics & Supply Chain Strategic Modeling
- LOG OM 6350, Management Science Methods
- LOG OM 7381, International Supply Chain Management
- LOG OM 7390, Research Seminar in LSCM
- LOG OM 7393, Special Topics in LSCM

Students are required to take 9 credit hours (3 courses) (not included elsewhere) from the list of approved elective courses for the LSCM emphasis.

IV. Other Requirements:

- Upon completion of coursework, students are advanced to candidacy by successfully completing a comprehensive examination in their area of emphasis and a supporting field examination in their chosen area.
- Students will be evaluated annually, and provided appropriate feedback.
- Students are required to defend a dissertation proposal within one year of advancement to candidacy.
- Students are required to present one paper at a regional, national, or international conference.
- Students are required to submit one paper, approved by his/her dissertation advisor, to a refereed journal.
- At least two semesters of supervised teaching in the College of Business Administration are required of all doctoral students.
- Students must satisfy all Graduate School requirements.
- The degree is awarded upon successful completion and defense of the Ph.D. dissertation. The dissertation must be defended within three years of approval of a Ph.D. dissertation proposal.



Anand Jeyaraj, with his dissertation committee, after successfully defending his doctoral dissertation



Dr. V. Sambamurthy, Eli Broad Professor of Information Technology, Michigan State University, and current Editor-in-Chief of Information System Research, giving an invited talk at the University of Missouri-St. Louis



Dr. Carol Saunders (center), Professor of MIS at the University of Central Florida, and former Editor-in-Chief of MIS Quarterly interacting with Ph.D. students and members of the IS Advisory Board during her recent visit to the University of Missouri-St. Louis.

The UMSL doctoral program has a rigorous structure that enables students to learn the information systems discipline as well as the process of scientific inquiry but is still flexible enough to accommodate the diverse interests of students. It is supported, nurtured, and managed by an outstanding faculty, who are world-renowned scholars, great teachers, and wonderful role models. I benefited immensely from the structured and unstructured opportunities for learning, informal access to and frequent interaction with the faculty, and the freedom to pursue any line of scientific inquiry within information systems and a supporting field of study. The doctoral program was an incredible experience for me and one of the best investments of my life.

Anand Jeyaraj, Ph.D.



Anand Jeyaraj is an Assistant Professor in the Department of Information Systems and Operations Management at the Raj Soin College of Business, Wright State University, Dayton, Ohio.

The IS Ph.D. program at UMSL provides the opportunity of not only enhancing academic research expertise but also acquiring IS practitioners' best practices. You will be learning IS practices as well as research methodology in depth; what you need is passion for learning!

Sang-Baek Chris Kang, Ph.D.



Sang-Baek Chris Kang is the Deputy Senior Manager in the Department of Public and Finance Strategic Marketing, SK C&C, Seoul, South Korea.

The Ph.D. program in business administration at UMSL is a rigorous, beneficial, well-structured program where students get the knowledge and skills they need to have a fulfilling academic career. I enjoyed the seminars and the many challenges from the instructors for us to "think" for ourselves. I also enjoyed the emphasis on research, which is the currency of academic progress. Now as I look back, I realize that participating in the UMSL Ph.D. program was one of the best decisions I ever made. The thorough training is producing dividends for me as I begin my career in academia.

Charles Chowa, A.B.D.



Charles Chowa is a Visiting Assistant Professor in the Department of Information Systems and Operations Management at the University of North Carolina in Greensboro.

The UMSL Information Systems Ph.D. program has taught me so much. I continue to use everything that I have learned in the program in my capacity as the CIO of the United States Military Academy. I have been able to apply lessons learned from the program while stationed here at West Point. Educating an entire new breed of young IT specialists both officers and enlisted for the entire Army is a great honor and one that I can directly attribute to my education at UMSL.

Colonel Gary Michael Griggs



Michael Griggs is a Colonel in the United States Army and CIO of the United States Military Academy, West Point, New York.

Working at the Center for Transportation Studies while pursuing a Ph.D. in Logistics & Supply Chain Management has allowed me to combine classroom instruction with real-world applications, and to gain a deeper understanding of how academics inform business practice. This highly relevant experience provides an excellent opportunity to learn leading theories as well as practical applications. This program is preparing me well for a dynamic career in a very high-growth discipline.

Michael Sciaroni (LSCM)

My experience with the Ph.D. program at UMSL has been life changing. My view of the world, and life, has been drastically enhanced. Taking the doctoral seminars is like opening fine gifts at Christmas. Each seminar presents fascinating and exciting knowledge.

Robert Talbott (IS)

I have had a very enjoyable and intellectually rewarding experience as a Ph.D. student. The seminars and the interactions with our faculty helped me mature as a scholar and develop my critical thinking. I believe that the training I have received will help me continue my intellectual growth and find a satisfying career.

Srikanth Mudigonda (IS)

CURRENT STUDENTS

Wes Boyce (LSCM)
 Charles Chowa (IS)
 Mike Cornish (IS)
 Daniel Hollander (IS)
 Vidya Iyer (IS)
 Aldis Jakubovskis (LSCM)
 Shaji Khan (IS)
 Svetlana Krasteva (IS)
 Srikanth Mudigonda (IS)
 Jeremy North (LSCM)
 Kathryn Ntalaja (IS)
 R. S. Prasad (IS)
 Michael Sciaroni (LSCM)
 Yejing Shan (LSCM)
 Stan Simon-Solomon (IS)
 Chiddu Subbiah (LSCM)
 Rooji Sugathan (IS)
 Fon Sundaravej (IS)
 Robert Talbott (IS)
 Aihua Yan (IS)

FORMER STUDENTS

Michael Griggs (IS)
 Anand Jeyaraj (IS)
 Chris Kang (IS)
 Kyotai Lee (IS)



Photo: A. Jennewein

As I increasingly take on project leadership roles, I will be able to leverage the skills gained from the program to reveal hidden revenue opportunities for my company using IT and Logistics as the foundation. The excellent faculty and facilities at UMSL are one of the main reasons for my interest in the program.

Chiddu Subbiah (LSCM)

The vibrant research community consisting of expert faculty, competent fellow students and a supportive environment make the learning experience in the program enjoyable. The research workshops and presentation seminars are an added advantage for any student interested in pursuing a career in academics and, serve as a forum for interacting with professors from multiple disciplines.

Prasad Rudramuniyaiah (IS)

The Ph.D. program has been a wonderful experience thus far, and has led me to personal growth in the ways in which I observe and interpret the everyday occurrences around me, both professionally as an IT practitioner, and personally. I certainly look at media reports of "research findings" from a much different, more critical perspective.

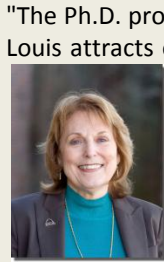
Mike Cornish (IS)



Keith Womer, Ph.D.
 Dean, College of Business Administration and Professor of Logistics and Operations Management

"The decision to earn the Ph.D. is truly life changing. From this time forward you will be dedicated to the search for knowledge and the wisdom to use that knowledge for the betterment of society. Congratulations on making this decision. We will all benefit from it."

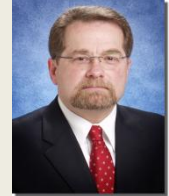
At the University of Missouri – St. Louis you will join a team of scholars, both students and faculty, who will join you as we all search for knowledge of Logistics & Supply Chain Management and Information Systems. Our commitment to you is to provide the best learning experience to accelerate your professional career. Please take the time to investigate our programs and opportunities to learn."



Judith Walker de Felix, Ph.D.
 Associate Provost, Academic Affairs and Dean of the Graduate School

"All degree programs at the UM-St. Louis College of Business carry the prestigious accreditation of the Association to Advance Collegiate Schools of Business (AACSB). Our doctoral students are exceptionally well-prepared in their disciplines, and well-suited to make significant contributions in academia and industry."

Thomas H. Eysell, Ph.D.
 Associate Dean and Director of Graduate Studies



"If you are interested in creating and disseminating knowledge about topics related to Information Systems or Logistics & Supply Chain Management, and would like to develop the skills needed to do so, I invite you to consider our Ph.D. program. Joining this program will enable you to work with some of the best experts and excellent students in these areas in a friendly environment. We look forward to hearing from you!"



Rajiv Sabherwal, Ph.D.
 University of Missouri Curators Professor, and Director, Ph.D. Program in Business Administration

APPLICATION REQUIREMENTS

- Completed graduate application form (Visit: <http://www.umsl.edu/admission/apply/>)
- Official academic transcripts
- Official GMAT or GRE scores in fields approved by the CoBA
- Three letters of recommendation (at least two from individuals with earned doctorates)
- A statement of objectives for the course of study
- TOEFL score (international students)
- For the Fall class of each year we start considering applications from February 1 of that year

For application materials please contact:

Mr. Karl Kottemann, Associate Director
 Office of Graduate Programs in Business

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 College of Business Administration
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| CONTACT INFORMATION | <p>For questions about policies and schedules regarding the Ph.D. program:</p> <p>Rajiv Sabherwal, Ph.D. Director, Ph.D. Program in Business Administration</p> <p>University of Missouri-St. Louis 206 Computer Center Building One University Boulevard St. Louis MO 63121-4499 USA Phone: +1 314-516-6490 Email: sabherwal@umsl.edu http://business.umsl.edu/phdbus</p> | <p>For questions about Information Systems (IS) program content and focus:</p> <p>Mary C. Lacity, Ph.D. Chair, IS Ph.D. Program</p> <p>University of Missouri-St. Louis 233 Computer Center Building One University Boulevard St. Louis MO 63121-4499 USA Phone: +1 314-516-6127 Email: mary.lacity@umsl.edu http://business.umsl.edu/phdis</p> | <p>For questions about Logistics & Supply Chain Management (LSCM) program content and focus:</p> <p>Ray A. Mundy, Ph. D. Chair, LSCM Ph.D. Program</p> <p>University of Missouri-St. Louis 154 University Center One University Boulevard St. Louis, MO 63121-4499 USA Phone: +1 314-516-7270 Email: rmundy@umsl.edu http://business.umsl.edu/phdlscm</p> |
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