

# INFORMATION TECHNOLOGY MANAGEMENT

## Lewis University Accelerated Programs

Lewis University provides adult students an opportunity to complete a college degree with a learner-centered, accelerated delivery format compatible with their needs and lifestyles. Most three-semester credit hour courses are completed in eight-week sessions, and meet one night per week.

Academic focus is on the integration of theory and practice emphasizing application, analysis and synthesis through collaborative learning experiences. Through small class size, group interaction and one's unique life experiences, the classroom becomes a dynamic environment in which each student is an active participant.

Lewis faculty are prepared as teachers, scholars, researchers and practitioners. In the adult classroom, they serve as coaches, role models and facilitators. Faculty hold a master's or doctoral degree, providing a rich blend of academic knowledge in their discipline with practical, professional experience.

The College of Business has three comprehensive purposes:

- To help students understand the function of business in the development and stability of local, national and international societies;
- To assist students in their mastery of the knowledge and skill necessary for careers in business; and
- To instill in business graduates capabilities for quality decision-making and leadership, with an ethical sensitivity and sense of justice and social responsibility.

## Information Technology Management

The Information Technology Management degree is designed to engage students in an integrated and innovative curriculum grounded in practical competencies needed in the dynamic field of IT. This program offers a combination of technical and managerial expertise that will prepare students to work in a variety of business environments with a sharp understanding of the industry's strategic objectives and management practices.

Unique elements of the program include:

- Students will work on and manage a project as it moves through the Systems Development Life Cycle (SDLC).
- Students will manage their project, building on skills learned in each course.
- The end deliverable is a complete project e-portfolio (students will store their documentation on a secure Web site) which fully documents all elements of the SDLC.
- Students can use their project after graduation to demonstrate their competencies and skills to potential employers.

## Program Entrance and Transfer Requirements

Applicants typically:

- Have earned a minimum of 12 semester (18 quarter) hours of transferable credit at a regionally accredited postsecondary institution;
- Have earned a minimum of a 2.0 (4.0 scale) cumulative transfer GPA, based on all transferable courses; and
- Have full-time work experience.
- Transfer credits must be earned from schools accredited by a regional accrediting agency.
- A maximum of 72 semester hours of community college (or credits from a two-year school) will be accepted at the time of entry.
- College writing and business major courses require a grade of "C" or higher to transfer.



The College of Business programs are accredited by the prestigious Accreditation Council for Business Schools and Programs (ACBSP).

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## CURRICULUM

### General Education (36 credit hours)

- College Writing I (3)
- College Writing II (3)
- Introduction to Human Communication (3)
- Finite Math (3)
- Natural Science (3)
- Natural Science (3)
- Macroeconomics (3)
- Social Science (3)
- Social Science (3)
- Fine Arts/Humanities (3)
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### Mission-Related Courses (9 credit hours)

- Christian Action and Values (3)  
OR Ethics (3)
- Cultural Diversity and Intergroup Relations (3)
- Theology (3)

*Two of the above Mission-based courses must be taken at Lewis*

### Core Courses (25 credit hours)

- Accounting for Managers (3)
- Principles of Management and Leadership (3)
- Business Law I (3)
- Business Communication in the Digital Age (3)
- Finance For Managers (3)
- Introduction to Information Systems (3)
- Statistics For The Decision Maker (3)
- Principles of Marketing (3)
- College of Business Seminar (1)

### Major Courses (24 credit hours)

- Business Programming (3)
- Management Information Systems (3)
- Principles of Project Management (3)
- Systems Methodology and Design (3)
- Database Management Systems (3)
- Web Design Applications (3)
- Data Networks (3)
- Enterprise Security (3)

### General Electives (34 credit hours)

*Any college level course taken at Lewis University or meeting transfer requirements.*

### Degree Requirements

- Successful completion of a minimum of 128 semester credit hours.
- Completion of 32 semester graded credit hours at Lewis University including four upper division core courses and/or major courses (12 semester credit hours.)
- Achievement of an overall grade point average of at least 2.00 (“C”) for all courses taken at Lewis University and a 2.20 average for the foundation and major area courses.

# COURSE DESCRIPTIONS

## Major Courses

**LW-220 Business Programming:** This course is a hands-on introduction to basic programming structures, concepts and object-oriented principles. Students will design, code, test and debug programs using contemporary programming languages that comprise computer systems in today's business organizations. Specific topics that will be covered include input/output operations, iteration, arithmetic operations, arrays, classes and objects and other related topics. Prerequisite: LG-200.

**LW-305 Management Information Systems:** The focus of this course is twofold. First, it provides a look at information systems from a business and managerial point of view. Topics covered will include strategic and competitive technology opportunities, the organization of information using databases and data warehouses, decision support and emerging trends. Secondly, this course will provide a technical glimpse into the world of Information Technology (IT). Topics covered will range from computer hardware and software, systems development and IT infrastructures, to enterprise security. Prerequisite: LG-200.

**LW-310 Principles of Project Management:** In this course, we will define the attributes of a project, the steps involved in the project management process, the benefits of project management, the project life cycle, and what makes projects successful. The key roles of the Project Manager will be presented. The student will obtain knowledge, skills, tools, and techniques to satisfy the expectations of the project stakeholders. Knowledge areas presented will include project planning, definition of scope, estimating and controlling of time and costs, quality assurance, human resource management, the creation, collection, and distribution of information, risk management, and procurement. Prerequisite: LG-200

**LW-315 Systems Methodology and Design:** This course is a hands-on introduction to the first three phases of the system development life cycle: 1) planning/initiation, 2) analysis, and 3) design. Students will learn how to analyze a business case, conduct a preliminary investigation, model business requirements using various tools, select a development strategy, and create a requirements document. Prerequisite: LG-200.

**LW-330 Database Management Systems:** Database concepts and design; database administration, relational and object-oriented database systems and models; Internet database access; and use of database software. Prerequisite: LG-200.

**LW-415 Web Design Applications:** This course teaches students how to design, create, maintain, and manage a Web site. Students will use a number of tools and programming languages to build the site including: HTML, XML, JavaScript, FrontPage, and Dreamweaver. Prerequisite: LG-200.

**LW-430 Data Networks:** Students examine principles of telecommunications and networking as applied in a business environment; communication parameters, protocol, and hardware, including modems, multiplexors, common carriers and microwave and satellite systems; and design and implementation of distributed data processing and network systems. Prerequisite: LG-200.

**LW-450 Enterprise Security:** This course provides a broad overview of security in an enterprise. Students will learn about the threats to the security of information systems, what makes an organization's resources secure, basic technologies for information security, and the levels of training and expertise needed in organizations to reach and maintain a state of acceptable security. This course covers the technical and managerial aspects of securing enterprise resources. Prerequisite: LG-200.

## Minors are also available in:

- Accountancy
- Business Administration
- Information Security and Risk Management
- Psychology
- Theology

*Note: Material herein is subject to change. See catalog/schedule for prerequisites.*

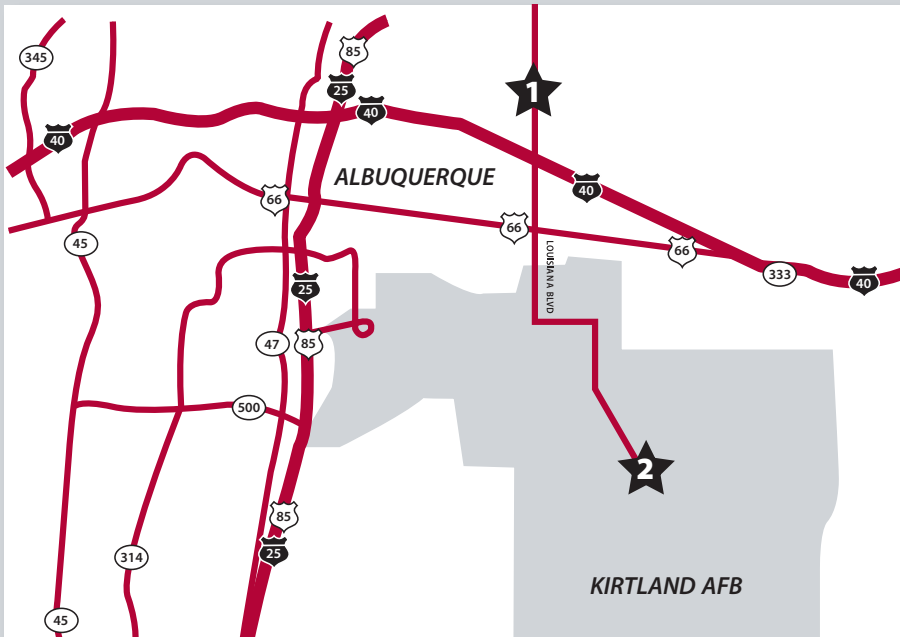
# LEWIS UNIVERSITY ALBUQUERQUE

*Sponsored by the De La Salle Christian Brothers*

Lewis University-Albuquerque is a private, non-profit, Catholic university where the traditions of liberal learning and preparation for professional life give the university its educational identity and mission focus.

The Lewis main campus is located in Romeoville, Ill., 30 minutes southwest of Chicago. For seven consecutive years, Lewis has been named one of the “Best Colleges” by *U.S. News & World Report* and received recognition from *The Princeton Review*.

Sponsored by the De La Salle Christian Brothers, Lewis University has a long and successful history in providing adult students an opportunity to complete a college degree with a learner-centered accelerated delivery format compatible with their needs and lifestyles. The Christian Brothers have been teaching in New Mexico since 1859 and Lewis continues that educational mission in the Albuquerque region.



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