

2006-2007 SAMPLE CURRICULUM: It may not be necessary to take these courses in the order given; please consult your advisor.

		FALL	WINTER	SPRING
FIRST YEAR	Orientation Seminar (UNST 101)	1	-	-
	College Writing (ENGL 111, 112, 113)	3	3	3
	Growing Up in America (SSCI 104) OR Identity & Society (SSCI 105) OR Childhood in Global Perspective (SSCI 106)	-	4	-
	THEME III: Religious Beliefs & Practice	4	-	-
	Lifetime Fitness (PEAC 120)	-	2	-
	* Introduction to Computer Science (CPTG 121, 122)	4	4	-
	* Data Structures (CPTG 244)	-	-	4
	* Calculus I (MATH 131)	4	-	-
	Electives	-	4	8
		16.0	17.0	15.0
SECOND YEAR	* File Processing (CPTG 226)	4	-	-
	* Computer Organization and Assembly Language Programming (CPTG 245)	-	4	-
	** Financial & Managerial Accounting (ACCT 211, 212)	4	4	-
	** Principles of Economics (ECON 254, 255)	4	4	-
	Exploring American Culture through Literature (HUMN 204) OR Expl. Amer. Culture through Visual & Perf. Arts (HUMN 205)	-	-	4
	THEME III: Religious Beliefs & Practice	-	-	4
	Modern Language through Intermediate Level (101, 102, 103)	4	4	4
	Electives	-	-	4
		16.0	16.0	16.0
	THIRD YEAR	* Programming Languages (CPTG 324)	-	-
* Mathematics Seminar (MATH 485) OR (CPTG 485) [2 units required]		0.5	-	0.5
** Statistics (MATH 251 OR BUAD 341)		-	4	-
** Operations & Research Methods (BUAD 444)		-	-	4
Upper Division Rhetorical Course (requirement met by CPTG 334 and 455)		4	4	-
THEME IIA: Arts Appreciation or History		4	-	-
THEME IIB: Historical or Contemporary Culture & Context		-	-	4
Adventism in a Global Perspective (RLGN 304) OR The Experience of Religion in Three Cultures (RLGN 305)		-	-	4
THEME IVA: Life Science		-	4	-
Modern Language through Intermediate Level (201)		4	-	-
	12.5	12.0	16.5	
FOURTH YEAR	* Systems Analysis (CPTG 334)	4	-	-
	* Computer Architecture (CPTG 445)	-	-	4
	* Database Design and Management (CPTG 424)	4	-	-
	* Mathematics Seminar (MATH 485) OR (CPTG 485) [2 units required]	0.5	-	0.5
	* Major Electives: 12 remaining units of Upper Division Mathematics or Computer Science courses	-	8	4
	** Management & Organizational Behavior (MGMT 304)	-	-	4
	** Human Resource Management (MGMT 356)	4	-	-
	THEME III: Religious Beliefs & Practice	4	-	-
	THEME IVB: Physical Science	-	4	-
	Scientific Foundations: Choose one course from the following: NSCI 404, 405, 406, 407	4	-	-
Religious, Moral & Social Aspects of Math & Computing (UNST 404)	-	4	-	
	16.5	16.0	16.5	

* Major Requirements

** Cognate Requirements

INFORMATION SYSTEMS

B.S. Degree

The department provides a curriculum in mathematics and computing sciences as a cultural study for all liberal arts students, as a basic tool for the scientist, and as a preparation for graduate study and teaching.

CAREER OPPORTUNITIES AND RELATED OCCUPATIONS: Information Systems graduates may find jobs in almost any major industry or business occupation. Such persons may become involved in data processing or systems analysis and in computer hardware and software evaluation, implementation or design. Systems analysts must be able to think logically.

EDUCATIONAL QUALIFICATIONS: A Bachelor's degree is sufficient for entry level technical jobs and some systems analysis jobs. However, many professionals find an advanced degree facilitates advancement in research and development and is essential for the growing demand in academia.

JOB OUTLOOK: Employment of computer systems analysts is expected to grow much faster than the average for all occupations through the year 2014 as organizations continue to adopt and integrate increasingly sophisticated technologies. Job increases will be driven by very rapid growth in computer system design and related services, which is projected to be among the fastest-growing industries in the U.S. economy. In addition, many job openings will arise annually from the need to replace workers who move into managerial positions or other occupations or who leave the labor force.

ENTERING SALARY: The National Association of Colleges and Employers for Spring 2006 reports that the national entering wage level average for those with a Bachelor's degree in Information Sciences and Systems was **\$49,672** per year.

SOURCES OF ADDITIONAL INFORMATION

Websites:

La Sierra University

<http://www.lasierra.edu/>

Mathematics & Computing

<http://cs.lasierra.edu/>

Department Contacts:

Chairperson:

Vernon Howe

Advisors:

Wilton Clarke

Enoch Hwang

Location:

Ambs Hall

951-785-2197

Professional Organizations:

Assoc. for Computing Machinery (ACM)

1515 Broadway

New York, NY 10036

<http://www.acm.org>

Data Processing Management Assoc.

505 Busse Highway

Park Ridge, IL 60068

Institute of Electrical and Electronics

Engineers-United States of America

1828 L Street, NW., Suite 1202

Washington, D.C. 20036

<http://www.ieee.org>

Institute for Certification of Computing
Professionals (ICCP)

2200 East Devon Ave., Suite 268

Des Plaines, IL 60018

<http://www.iccp.org>

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