

# REQUIRED INFORMATION SYSTEMS CORE COURSES

## LOWER DIVISION BUSINESS CORE REQUIREMENTS (21 UNITS)

- ACCT 220 Intro to Financial Accounting (3)**  
*Prerequisites: A grade of "C" or higher in MATH 103 or higher level mathematics course and sophomore standing*
- ACCT 230 Intro to Managerial Accounting (3)**  
*Prerequisite: ACCT 220*
- ECON 160 Principles of Microeconomics (3)**  
*Prerequisites: Qualifying scores on ELM and EPT or exemption, or satisfactory completion of developmental courses*
- ECON 161 Principles of Macroeconomics (3)**  
*Prerequisites: ECON 160 and qualifying scores on ELM and EPT or exemption, or satisfactory completion of developmental courses*
- SOM 120\* Basic Business Statistics (3)**  
*Prerequisite: MATH 103 or higher level math course*  
*\*The 4-unit MATH 140 course also satisfies this requirement*
- ENGL 205 Business Communication (3)**  
*Prerequisite: AAS 155 or CH 155 or ENGL 155 or PAS 155 or equivalent*  
*Recommended Preparatory: CH S 151 or COMS 151 or PAS 155 equivalent; COMP 100 or equivalent*
- BLAW 280 Business Law I (3)**  
*Prerequisites: Completion of lower division writing requirement and sophomore standing*

## UPPER DIVISION BUSINESS CORE REQUIREMENTS (19 UNITS)

- BUS 302 Gateway Experience (3)**  
*Prerequisites: Lower division business core ACCT 220, ACCT 230, ECON 160, ECON 161, COMP 100, SOM 120 or MATH 140, ENGL 205, BLAW 280, and MATH 103*  
*Corequisite: BUS 302L*
- BUS 302L Gateway Lab (1)**  
*Prerequisites: Junior standing and completion of all Lower Division Business Core courses*  
*Corequisite: BUS 302*
- FIN 303 Financial Management (3)**  
*Pre/Corequisite for Business Majors: BUS 302/L*
- MGT 360 Management and Org. Behavior (3)**  
*Pre/Corequisite for Business Majors: BUS 302/L*
- MKT 304 Marketing Management (3)**  
*Pre/Corequisite for Business Majors: BUS 302/L*
- SOM 306 Operations Management (3)**  
*Prerequisite: SOM 120 or MATH 140 or SOM 391. Recommended corequisite or preparatory: BUS 302/L*
- BUS 497 Capstone (3)**  
*Prerequisites: Senior standing, BUS 302/L, FIN 303, MGT 360, MKT 304, and a passing score (8 or higher) on the Upper Division Writing Proficiency Exam (WPE)*

## INFORMATION SYSTEMS CORE REQUIREMENTS (22 UNITS)

**\*\*PHIL 230 fulfills GE section A**

**\*\*\*All 400-level IS courses require at least a grade of "C" or higher in IS 312 and BUS 302 and CR in BUS 302L**  
**All 400-level courses require a passing score (8 or higher) on the Upper Division Writing Proficiency Exam (WPE)**

- COMP 110/L Introduction to Algorithms and Programming and Lab (3+1)**  
*Prerequisites: Grade of "C" or better in MATH 102 or 104 or 105 or 150A or MPT I score of at least 27 or passing score on or exemption from the ELM*  
*Corequisites: MATH 104 or 105 or 150A*
- PHIL 230\*\* Introduction to Formal Logic (3)**  
*Prerequisites: Completion of GE Analytical Reading/Expository Writing; either GE Mathematics or MATH 210*
- IS 312 Information Systems for Business (3)**  
*Prerequisite: ACCT 220*
- IS 431\*\*\* Systems Analysis and Design (3)**
- IS 435\*\*\* Business Data Communications and Networking (3)**
- IS 441\*\*\* Database Management Systems (3)**
- IS 451\*\*\* Systems Development Project (3)**  
*Additional Prerequisites: A grade of "C" or higher in IS 431 and 435*

# INFORMATION SYSTEMS – BUSINESS SYSTEMS

## DEGREE REQUIREMENTS (25 UNITS)

### CATALOG YEARS 2006-2010

#### BUSINESS OPTION CORE REQUIREMENTS (7 UNITS)

- MATH 103\***      **Mathematical Methods for Business (3)**  
*Prerequisites: Passing score on or exemption from the ELM or credit in MATH 093*  
*\*MATH 103 or higher-level with a grade of "C" or higher*
- COMP 105BAS**    **Computer Programming in BASIC (1)**  
*Prerequisite: COMP 101 or 110/L or 106/L*
- IS 335**            **Information Technology in Business (3)**  
*Prerequisite: ACCT 220*

#### BUSINESS OPTION ELECTIVE AREA A (3 UNITS)

##### (select one course)

*Select 3 units from the following upper-division business courses*

**\*\*ECON 310 fulfills GE section D**

*\*\*\*All 400-level courses require a passing score (8 or higher) on the Upper Division Writing Proficiency Exam (WPE)*

- ECON 310\*\***      **Price Theory and Applications (3)**  
*Prerequisites: ECON 160 or 300. MATH 103 or a higher mathematics with the grade of "C" or better*
- MKT 346**            **Marketing Research (3)**  
*Prerequisites: MKT 304, college stats course, or consent of instructor; BUS 302/L are prerequisites for business majors*
- MKT 442\*\*\***      **Business to Business Marketing (3)**  
*Prerequisites: MKT 304 or consent of instructor; BUS 302/L are prerequisites for business majors*
- MKT 448\*\*\***      **Internet Marketing (3)**  
*Prerequisites: MKT 304 or consent of instructor; BUS 302/L are prerequisites for business majors*
- MGT 450\*\*\***      **Organizational Change and Development (3)**  
*Prerequisites: A grade of "C" or higher in MGT 360 (catalog year 2008+); BUS 302/L are prerequisites for business majors*
- MGT 456\*\*\***      **Negotiation and Conflict Management (3)**  
*Prerequisites: A grade of "C" or higher in MGT 360 (catalog year 2008+); BUS 302/L are prerequisites for business majors*
- MGT 458\*\*\***      **Decision Making and Creativity (3)**  
*Prerequisites: A grade of "C" or higher in MGT 360 (catalog year 2008+); BUS 302/L are prerequisites for business majors*

#### BUSINESS OPTION ELECTIVE AREA B (12 UNITS)

*Select 12 units from the following courses*

*\*\*\*\*All 400-level IS courses require at least a grade of "C" or higher in IS 312 and BUS 302 and CR in BUS 302L*  
*All 400-level courses require a passing score (8 or higher) on the Upper Division Writing Proficiency Exam (WPE)*

- IS 455\*\*\*\***      **Advanced Application Development (3)**  
*Additional Prerequisites: A grade of "C" or higher in IS 431, IS 435, and IS 441*
- IS 457\*\*\*\***      **Advanced Telecommunication Networking (3)**  
*Additional Prerequisites: A grade of "C" or higher in IS 431, IS 435, and IS 441*
- IS 497A-Z\*\*\*\***    **Special Topics (3)**  
*Additional Prerequisites: A grade of "C" or higher in IS 431, IS 435, and IS 441*
- SOM 485**            **Decision Support Systems (3)**  
*Prerequisites: SOM 306 and IS 312; BUS 302/L are prerequisites for business majors; WPE*

#### BUSINESS OPTION FREE ELECTIVE REQUIREMENT (3 UNITS)

- Free Elective**      **Select Any University Course (3)**  
*Refer to the University Catalog for specific course prerequisites*

# INFORMATION SYSTEMS – INFORMATION TECHNOLOGY

## DEGREE REQUIREMENTS (25 UNITS)

CATALOG YEARS 2006-2010

### INFORMATION TECHNOLOGY OPTION CORE REQUIREMENTS (20 UNITS)

- MATH 150A**     **Calculus I (5)**  
*Prerequisites: Passing score on or exemption from the Entry Level Mathematics Exam or credit in MATH 093, and either a passing score on the Mathematics Placement Test or completion of MATH 105, or both MATH 102 and 104, at CSUN with grades of "C" or better*
- COMP 122/L**     **Computer Architecture and Assembly Language (1+1)**  
*Prerequisite: Grade of "C" or better in MATH 102 or 104 or 105 or 150A or MPT score of at least 27 or passing score on or exemption from the ELM*  
*Corequisites: COMP 110L; MATH 104 or 105 or 150A*
- COMP 182/L**     **Data Structures and Program Design and Lab (3+1)**  
*Prerequisites: Grade of "C" or better in each: COMP 110/L; Lower Division writing requirements; MATH 104 or 105 or 150A or MPT II score of at least 22 or passing score on or exemption from the ELM*  
*Corequisites: COMP 182L and MATH 150A*
- COMP 222**        **Computer Organization (3)**  
*Prerequisites: Grade of "C" or better in each: COMP 122/L, 182/L*
- COMP 282**        **Advanced Data Structures (3)**  
*Prerequisites: Grade of "C" or better in each: COMP 182/L, MATH 150A*
- COMP 380/L**     **Introduction to Software Engineering and Lab (2+1)**  
*Prerequisites: COMP 282 or 270/L*  
*Corequisite: COMP 380L*

### INFORMATION TECHNOLOGY ELECTIVE (3 UNITS)

(select one course)

- COMP 450**        **Societal Issues in Computing (3)**  
*Prerequisites: COMP 380/L; upper division writing exam requirement*
- COMP 467**        **Multimedia Systems Design (3)**  
*Prerequisites: COMP 380/L; attempted upper division writing proficiency exam*
- COMP 480/L**     **Software System Development (2+1)**  
*Prerequisites: COMP 380/L*  
*Corequisite: COMP 480L*
- COMP 485**        **Human-Computer Interaction (3)**  
*Prerequisites: COMP 380/L; attempted upper division writing proficiency exam*

### INFORMATION TECHNOLOGY FREE ELECTIVE REQUIREMENT (2 UNITS)

- Free Elective**     **Select Any University Course (2)**  
*Refer to the University Catalog for specific course prerequisites*