



**California State Polytechnic University, Pomona
Degree Curriculum Sheet**

Plan (Major) **BUSINESS ADMINISTRATION**
Subplan/Option **Computer Information Systems**

Catalog Year **2013-2014** Name _____
Minimum Units Required **180** Student ID _____

TGA _____
MCP Satisfied Yes No
GWT Satisfied Yes No

Required Core Courses		
Course		Units
FIN Acctg for Decision Making	ACC 207/207A	4/1
MGRl Acctg for Decision Making	ACC 208/208A	4/1
Mgmt Information Systems	CIS 310	4
Leg Env of Business Transactions	FRL 201	4
Managerial Finance I	FRL 300	3
Managerial Finance II	FRL 301	3
Prin Mktg Management	IBM 301	4
Prin of Management	MHR 301	4
Organizational Behavior	MHR 318	4
Operations Management	TOM 301	4
Managerial Statistics	TOM 302	4
Strategic Management	BUS 495	4
Total Units		48

Required Subplan/Option Core Courses		
Course		Units
Fundamentals of Computer Information Systems	CIS 231	4
Object Oriented Programming with Java	CIS 234	4
Intermediate Java Programming for Business	CIS 304	4
Database Design and Development	CIS 305	4
Business Telecommunications	CIS 307	4
Interactive Web Development	CIS 311	4
Introduction to Object-Oriented Systems Analysis and Design	CIS 315	4
Systems Development Project	CIS 466	4
Total Units		32

Elective Subplan/Option Core Courses		
Course		Units
<i>Select 16 units from the following:</i>		
Programming with C++	CIS 284	16
Client/Server Applications Development	CIS 338	
Data Modeling	CIS 345	
Telecommunications Networks	CIS 347	
Special Study for Upper Division Students	CIS 400	
Rapid Systems Development	CIS 406	
Broadband and Multimedia Networks	CIS 417	
Multimedia Applications on the Web	CIS 421	
Advanced Java Programming for Business	CIS 424	
Mobile Communication & Wireless Networks	CIS 427	
Information Systems Auditing	CIS 433	
Fundamentals of Network Management and Design	CIS 437	
Internetworking with Linux	CIS 447	
E-Commerce Application Development	CIS 451	
Network Security	CIS 467	
Internet Security	CIS 471	
Computer Forensics	CIS 481	
Secure Web Applications	CIS 491	
Total Units		16

Required Support Courses			
Course			Units
Introduction to Personal Computing	CIS 101 ¹		4
Principles of Economics (D2)	EC 201		4
Principles of Economics (D2)	EC 202		4
Introductory Calculus for Business (B4)	MAT 125		4
Statistics with Applications (B4)	STA 120		4
Total Units			16-20

Unrestricted Electives		
Course		Units
Unrestricted Electives		0-8
Select a sufficient number of courses from "Required Support," "GE," and "Unrestricted Electives" so that the total is at least 84 units.		
Total Units		0-8

Other Major (Plan) Requirements

¹Microcomputer proficiency (MCP) must be demonstrated by satisfying one of the following three alternatives: 1) CIS 101, 2) microcomputer proficiency skills tests in Word, Excel, and PowerPoint, or 3) an approved college course. There are no units associated with the Microcomputer Proficiency Skills Test.

General Education Requirements		
Area		Units
Area A Communication & Critical Thinking		12
1 Oral Communication		
2 Written Communication		
3 Critical Thinking		
Area B Mathematics & Natural Sciences		16
<i>Select at least one lab course from sub-area 1 or 2.</i>		
1 Physical Science		
2 Biological Science		
3 Laboratory Activity		
4 Math/Quantitative Reasoning		
5 Science & Technology Synthesis		
Area C Humanities		16
1 Visual and Performing Arts		
2 Philosophy and Civilization		
3 Literature and Foreign Language		
4 Humanities Synthesis		
Area D Social Sciences		20
1 U.S. History, Constitution, American Ideals		
2 History, Economics and Political Science		
3 Sociology, Anthropology, Ethnic & Gender Studies		
4 Social Science Synthesis		
Area E Lifelong Understanding & Self Development		4
Total Units		68

American Institutions		Units
Courses that satisfy this requirement may also satisfy G.E. Area D1		8

American Cultural Perspectives Requirement		Units
Refer to catalog for list of courses that satisfy this requirements. Course may also satisfy major, minor, GE, or unrestricted elective requirements.		4

The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

Course		GE Area
Introductory Calculus for Business	MAT 125	B4
or Statistics with Applications	STA 120	(B4)
Principles of Economics	EC 201	D2
or Principles of Economics	EC 202	(D2)

The remaining GE requirements may be satisfied by any course approved for that area.

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.

A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.