California State Polytechnic University, Pomona
Degree Curriculum Sheet

Plan (Major) **BUSINESS ADMINISTRATION**

Subplan/Option **Computer Information Systems**

Catalog Year **2014 - 2015**

Minimum Units Required **180**

Name

Student ID

Required Core Courses

Course		Units
Required of all business majors. A 2.0 cumulative GPA is required in core courses including subplan courses for the major in order to receive a degree in the major.		
Financial Acctg for Decision Making	ACC 207/207A	4/1
Managerial Acctg for Decision Making	ACC 208/208A	4/1
Mgmt Information Systems	CIS 310	4
Legal Environment of Business Transactions	FRL 201	4
Managerial Finance I	FRL 300	3
Managerial Finance II	FRL 301	3
Principles of Marketing Mgmt	IBM 301	4
Principles of Mgmt	MHR 301	4
Organizational Behavior	MHR 318	4
Operations Mgmt	TOM 301	4
Managerial Statistics	TOM 302	4
Strategic Mgmt	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 and Responsive Web Development	CIS 311	4
Intro to Systems Analysis and Design	CIS 315	4
Systems Development Project	CIS 466	4
Total Units		**32**

Elective Subplan/Option Core Courses

Course	Units
Career Emphasis in CIS	16
The Computer Information Systems (CIS) Department has established two career emphases in the major: Applications Development and Information Assurance. Every CIS major must select one of these career emphases and take four emphasis elective courses in order to graduate with a major in CIS. Consultation on emphasis selection is available through the CIS career emphasis coordinatior	
See list on reverse side	

Required Support Courses

Course		Units
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.		
Intro 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**

[1]Computer Proficiency must be demonstrated by satisfying one of the following three alternatives: 1) CIS 101, 2) Computer Proficiency Skills Test in Word, Excel, Access, and PowerPoint, or 3) an approved college course. There are no units associated with the Computer Proficiency Skills Test. If the test is passed, then unrestricted electives in subplan/option selected may be increased by 4 units.

Unrestricted Electives

Course	Units
Select a sufficient number of courses from "Required Support," "GE," and "Unrestricted Electives" so that the total is at least 84 units.	0-8
The number of unrestricted elective units depends on whether or not STA 120 or MAT 125, and EC 201 or EC 202 are used for General Education (see curriculum sheet for the subplan). If STA 120 or MAT 125 is used for General Education, unrestricted electives will be increased by four units. If EC 201 or EC 202 is used for General Education, unrestricted electives will be increased by four units.	
Total Units	**0-8**

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
Select at least one lab course from subarea 1 or 2.	
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	
a. United States History	
b. Introduction to American Government	
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	
Courses that satisfy this requirement may also satisfy GE Area D1	8

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

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.

Elective Subplan/Option Core Courses		
Course		**Units**
CIS Career Emphasis Courses		*16*
After identifying a career emphasis, a CIS major student needs to select four emphasis courses.		
Applications Development Career Emphasis		
Client/Server Applications Development	CIS 338	(4)
Multimedia Applications on the Web	CIS 421	(4)
Advanced Java Programming for Business	CIS 424	(4)
E-commerce Application Development	CIS 451	(4)
Secure Web Applications	CIS 491	(4)
Information Assurance Career Emphasis		
Telecommunications Networks	CIS 347	(4)
Information Systems Auditing	CIS 433	(4)
Network Security	CIS 467	(4)
Internet Security	CIS 471	(4)
Computer Forensics	CIS 481	(4)
Prerequisites for CIS Career Emphasis Courses		
Students must have earned a grade of "C" (2.0) or better in each of the courses listed below before registering for any career emphasis course.		
The courses are: CIS 231, CIS 234, CIS 304, CIS 305, CIS 307, CIS 311, and CIS 315 .		
Total Units		**16**