



COLLEGE OF BUSINESS ADMINISTRATION

www.cba.csupomona.edu/

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The undergraduate and graduate programs of the College of Business Administration are accredited by AACSB, Association to Advance Collegiate Schools of Business. AACSB accreditation assures quality and promotes excellence and continuous improvement in undergraduate and graduate education for business administration.

The College of Business Administration provides eight subplans leading to the Bachelor of Science degree in Business Administration. It also provides curricula leading to the Master of Business Administration, the Master of Science in Business Administration, and the Master of Science in Accountancy. The Master of Science degree offers a subplan in Information Systems Auditing. Information concerning the master's curricula may be found in the graduate listings.

The undergraduate programs of study give the student an understanding of the social and economic environment in which we live and provide a common body of knowledge for all students who specialize in any business field. In addition, each subplan emphasizes, with additional course-work, specific areas of knowledge useful for the career paths served by that subplan. All students are encouraged to experiment and broaden their interests by selection of electives. It is the purpose of the College of Business Administration to develop in students the people, technical, and managerial competence necessary for successful performance in business, industry, government, and education.

The student assumes primary responsibility for meeting the educational requirements of the program. Through early studies in the Business Administration core courses, the student has an opportunity to evaluate a career decision and to adjust goals, if necessary. Undergraduate courses in business fundamentals and skills equip the student with marketable entry skills. The student may augment on-campus education through job experiences in business senior projects and internship programs for which the student will receive academic credit. General education courses are integrated throughout each program. Co-curricular opportunities related to the course of study include the Cal Poly Society of Accountants; American Marketing Association; American Production and Inventory Control Society; Delta Sigma Pi, a professional business fraternity; Finance Society; Latino Business Students Association; M.B.A. Association; Management Information Systems Student Association; Personnel and Industrial Relations Association; Pi Sigma Epsilon; American Society for Quality; International Facility Management Association; Society for Advancement of Management; Society of Law and Contracts; World Traders; Alpha lota Delta, and Mu Kappa Tau, Beta Gamma Sigma, business honorary societies.

MISSION OF THE COLLEGE OF BUSINESS ADMINISTRATION

The College prepares individuals for success in a global society by

- offering business education that integrates theory and practice;
- developing students' capacity for life-long learning;
- instilling practical knowledge and skills, including the strategic use of information technology;
- building enduring relationships with students, alumni, and the extended community.

CENTER FOR ENTREPRENEURSHIP AND INNOVATION

The Center for Entrepreneurship and Innovation was formally established at the College of Business Administration in May 1996. CEI seeks to foster entrepreneurship in both the local and global community; to provide increasing entrepreneurial opportunities for Cal Poly Pomona students; and to deliver innovative entrepreneurship courses to graduate, undergraduate, and extension students. It provides a dynamic combination of education, research, and outreach programs to address the developing needs of entrepreneurs and growth companies. Entrepreneurial ventures and emerging firms are a leading source of new jobs in the United States.

CENTER FOR INFORMATION ASSURANCE (CIA)

The Center for Information Assurance (CIA) in the Cal Poly Pomona College of Business Administration (CBA) provides advanced research and knowledge in audit, security, and computer forensics.

CENTER FOR PROMOTIONAL DEVELOPMENT

Assisting Future and Current Marketing Managers

The purpose of the Cal Poly Pomona Center for Promotional Development is to:

- Teach promotional strategy at both the undergraduate and graduate level.
- Help marketing managers of local emerging businesses to grow their business using promotional strategy that includes sound research, planning, measurement, and evaluation.
- Provide Cal Poly Pomona graduate and undergraduate students with a sponsored classroom/practicum experience in developing promotional strategy with a selected local emerging business.

Formerly the Center for Professional Sales Development, the Center name was changed in 1999 to the Center for Promotional Development. The current Center name reflects a broadening of the Center's mission. Mission scope has evolved from a sole focus on professional sales and sales management, to a comprehensive focus on the promotional mix.

The Center for Promotional Development is committed to working with students and marketing managers of emerging local businesses to help them acquire the promotional strategy skills necessary to build and grow a successful business.

INDUSTRIAL RESEARCH INSTITUTE FOR PACIFIC NATIONS (IRIPAC)

The Industrial Research Institute for Pacific Nations is a non-profit organization engaged in industrial and trade development research with a focus on Pacific Rim nations. The Institute is administered as the international research division of the College of Business Administration. Designed to support the advanced study of international business and to provide specialized educational opportunities for management personnel involved in the Pacific marketplace, the program offers the generation and coordination of research projects for university

faculty and students, management and economic development seminars directed at better understanding of those doing business in the Pacific Rim, establishment of a reference and resource center, and publication of research papers.

THE REAL ESTATE RESEARCH COUNCIL (RERC)

The Real Estate Research Council of Southern California is the oldest non-profit real estate data organization in the United States. Founded in 1939, the RERC produces a quarterly publication, The Real Estate and Construction Report, which includes data on the economy and real estate markets in the seven urban Southern California counties, and presents the report at a quarterly luncheon. The senior real estate faculty direct students who participate in the data-gathering and analysis for the preparation of the quarterly report. Members of the RERC include major development companies, financial institutions, appraisers, investors, mortgage bankers, and other firms and individuals interested in Southern California real estate. RERC is coordinated by faculty in the Finance, Real Estate, and Law Department.

DEGREE PROGRAMS

MASTER OF SCIENCE IN ACCOUNTANCY

MASTER OF BUSINESS ADMINISTRATION (MBA)

Emphases in:

Accounting

Contract Management

Entrepreneurship

Finance

Management and Human Resources

Information Management

International Business

Marketing

Operations Management

Real Estate

MASTER OF SCIENCE IN BUSINESS ADMINISTRATION

Subplan in:

Information Systems Auditing

BACHELOR OF SCIENCE IN BUSINESS ADMINISTRATION

Subplans in:

Accounting

Computer Information Systems

E-Business

Finance, Real Estate, and Law

International Business

Management and Human Resources

Marketing Management

Technology and Operations Management

Subplans offered by the following departments:

ACCOUNTING

Accounting Department

COMPUTER INFORMATION SYSTEMS

Computer Information Systems Department

E-BUSINESS

Technology and Operations Management Department

FINANCE. REAL ESTATE. AND LAW

Finance, Real Estate, and Law Department

INTERNATIONAL BUSINESS

International Business and Marketing Department

MANAGEMENT AND HUMAN RESOURCES

Management and Human Resources Department

MARKETING MANAGEMENT

International Business and Marketing Department

TECHNOLOGY AND OPERATIONS MANAGEMENT

Technology and Operations Management Department

MINORS

Accounting

Business

Business Computer Programming

Business Law

Entrepreneurship and Small Business Management

Fashion Merchandising

Finance

Contract Management

General Management

Human Resources Management

International Business

Logistics

Managerial Computing

Marketing Management

Operations Management

Quantitative Research (University Interdisciplinary Minor)

Real Estate

Total Quality Management (University Interdisciplinary Minor)

COURSES REQUIRED OF ALL BUSINESS ADMINISTRATION MAJORS

Each student who enrolls for a Bachelor of Science degree in Business Administration is required to select one of the eight subplans listed above. For all business majors, each student will be required to take the following courses:

CORE COURSES FOR MAJOR

Required of all students. A 2.0 cumulative GPA is required in core courses including subplan courses in order to receive a degree in Business Administration.

Legal Environment of Business Transactions FRL	. 201 (4)
Financial Accounting for Decision-Making AC	C 207/207A(4/1)
Managerial Accounting for Decision-Making AC	
Principles of Management	IR 301 (4)
Multicultural Organizational Behavior MH	IR 318 (4)
Principles of Marketing Management	<i>l</i> 301 (4)
Managerial Finance I	300 (3)
Managerial Finance IIFRL	. 301 (3)
Management Information Systems	310 (4)
Operations Management	M 301 (4)
Managerial StatisticsTOI	M 302 (4)
Strategic ManagementMF	
or Strategic Management	

SUPPORT COURSES REQUIRED OF ALL BUSINESS MAJORS

Statistics with Applications	.STA	120	(4)
Introductory Calculus for Business		125	(4)
Principles of Economics	.EC	201	(4)
Principles of Economics		202	(4)

MICROCOMPUTER PROFICIENCY

All students in any College of Business Administration subplan, and all other students taking certain business courses, must demonstrate proficiency with specific microcomputer software packages. The proficiency must be demonstrated prior to taking any business course with the term "microcomputer proficiency" in the prerequisite list. Some business courses identify specific microcomputer packages in their prerequisite lists. In these cases, proficiency in the noted packages must be demonstrated prior to taking the course.

Microcomputer proficiency must be demonstrated by satisfying one of the following three alternatives: 1) CIS 101, 2) microcomputer proficiency skills test in Word, Excel, and PowerPoint, or 3) an approved college course. There are no units associated with the microcomputer proficiency skills test. If the test is passed, then electives in subplan selected may be increased by 4 units.

COLLEGE-WIDE COURSES

COURSE DESCRIPTIONS

BUS 112 Success Strategies for Business Majors (4)

Learning techniques for freshmen and new transfer students in the business major to achieve academic and professional success. Emphasizes interaction with faculty advisors, the business community, and student organizations, career planning, and campus resources. 4 lectures/ problem-solving.

BUS 299/299A/299L Special Topics for Lower Division Students (1-4)

Individual or group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

BUS 401 Product Liability and Patents (4)

Product liability and the patent process will be covered in this class. This is an interdisciplinary course where the various ethical, technological, safety, economic tradeoff considerations are given to new products and ideas by the student. Case studies will be given to strengthen the students' understanding of how to apply these concepts. The use of computer software is required for classroom presentations. This course fulfills GE Areas C4 Humanities or D4 Social Science. Prerequisites: Completion of GE Area A and 2 lower division sub-areas in Area C or Area D. (Also listed as EGR 401)

BUS 445 Role of Design Professionals in Society (4)

The unique role of design professionals in society, and the associated privileges and responsibilities. Social, economic, historical, legal, and political aspects of professional practice, as well as ethics, social responsibility, regulatory requirements, professional liability, and the consequences of failures. 4 lecturediscussions. Fulfills GE Area D4. Prerequisites: Completion of all GE Area A, D1, D2, and D3 requirements. (Also listed as EGR 445)

BUS 461, 462 Senior Project (2) (2)

Selection and completion of a project under faculty supervision. Projects are designed to be individual or group efforts toward solving real-life

problems in the community, such as Small Business Institute cases. Formal report is required. Minimum time commitment: 120 hours. Prerequisite: senior standing.

BUS 499/499A/499L Special Topics for Upper Division Students (1-4)

Individual or group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

BUSINESS MINOR

Many non-business students have expressed an interest in business courses that will better prepare them to enhance their non-business education in a business or government environment. The College of Business Administration has designed, in addition to the minors available within concentrations, a broad-based schoolwide minor to meet these needs. The minor in Business provides a solid foundation in accounting and finance, and complements these with coverage of management, marketing, production, and business computer information systems. Non-business students desiring more information should contact the Student Services Center of the College of Business Administration. The student should formally enroll in the minor before taking courses. A Minor Advisor is available to assist students.

The student must complete the prerequisite and required courses to fulfill the requirements for a minor in Business.

Prerequisite Courses:

Microcomputer Proficiency Freshman English 1	ENG	104	(4)
Required Courses:			
Statistics With Applications	STA	120	(4)
Principles of Economics	EC	201	(4)
Principles of Economics	EC	202	(4)
Financial Accounting for Decision-Making	ACC	207/207	4(4/1)
Managerial Accounting for Decision-Making	ACC	208/208	4(4/1)
Managerial Finance I	FRL	300	(3)
Managerial Finance II	FRL	301	(3)
Principles of Management	MHR	301	(4)
Management Information Systems	CIS	310	(4)
Principles of Marketing Management	IBM	301	(4)
Operations Management	TOM	301	(4)
Multicultural Organizational Behavior	MHR	318	(4)

INTERNATIONAL STUDY OPPORTUNITIES

International Summer Study Tour

Every summer Cal Poly Pomona provides an opportunity for students to live and study abroad for six weeks. Students study in English the cultural, economic and political systems of the country and have an opportunity to visit business, technical, cultural and scenic locations in the various regions of the country.

Students earn 12 units of credit from the following courses: BUS 362 International Field Studies (4 units); BUS 432 The Use and Role of Technology in International Destinations (4 units); BUS 452 Political Economy and Business Practices in International Destinations (4 units); BUS 483 International Destinations and the United States: Cross-Cultural Analysis (4 units). Units may be used to satisfy major course requirements or to satisfy General Education requirements.

BUS 362 International Field Studies (4)

Direct field investigation and academic study of an international

destination with attention to the central issues confronting a complex society. These issues include relationship and influence of the international destination's history on the present dynamics of its contemporary culture. 4 lectures/problems-solving. Instructional materials, activities, and facilities charges. Fulfills GE Area C4. Prerequisites: Completion of GE Area A and sub-areas C1, C2, and C3. (Also listed as CLS 362.)

BUS 432 The Use and Role of Technology in International Destinations (4)

Direct field investigation and academic study of productive processes and application of technology within an international destination. Barriers and incentives for new technology; decision-making; industry specific technology; and role of foreign countries as providers. Technology tradeoff: environment, employment, and currency reserves. Instructional materials, activities, and facilities charges. 4 lectures/problem solving. (Also listed as CLS 432.)

BUS 441, 442 Overseas Internship (1-8) (1-8)

Internships offered in an overseas setting to a group of students in any major who are interning in the same foreign country during the same quarter. Students will have their own individual internship assignment as well as participate in group learning sessions with the other students. Total credit limited to 8 units each. Prerequisite: Upper division standing and consent of instructor.

BUS 445 Role of Design Professionals in Society (4)

The unique role of design professionals in society, and the associated privileges and responsibilities. Social, economic, historical, legal, and political aspects of professional practice, as well as ethics, social responsibility, regulatory requirements, professional liability, and the consequences of failures. 4 lecture discussions. Fulfills GE Area D4. Prerequisites: Completion of all GE Area A, D1, D2, and D3 requirements. (Also listed as EGR 445)

BUS 452 Politics, Economics and Business Practice in International Destinations (4)

Direct field investigation and academic study of historical and current productive/political organization of an international destination. Economic objectives and planning. Business organization; incentives and decision making; and management. 4 lectures/problem-solving. Instructional materials, activities, and facilities charges. Fulfills GE Area D4. Prerequisites: Completion of GE Area A and sub-areas D1, D2, and D3. (Also listed as CLS 452.)

AG/EGR 481, 482 Project Design Principles and Applications (2) (2)

Selection and completion of scientific/technological synthesis application project under faculty supervision. Multidisciplinary team project. Projects which graduates solve in discipline of practice. Both formal written and oral reports. Minimum time commitment: 120 hours. Prerequisites: One GE course from each of the following Sub-areas: A1, A2, A3 and B1, B2, B4 and upper division standing. GE Synthesis course for Sub-area B5.

BUS 483 International Destinations and the United States: Cross-Cultural Analysis (4)

Examination of critical areas of U. S. and international cultures that provide insights and understanding of the comparative differences of these two civilizations; historical and contemporary differences. 4 lectures/problem solving. Instructional materials, activities, and facilities charges. Fulfills GE Area C4 or D4. Prerequisites: Completion of GE requirements in Area A and 2 lower division sub-areas in Area C or Area D. (Also listed as CLS 482.)

BUS 492 International Communications Consultancy Instruction (4)

Classroom instruction for institutional consultancy. Techniques for consulting with organizations/institutions. Integrates situation/content analysis, environmental scanning, representative speakers, content research, document preparation and writing, oral presentation of findings and recommendations. Organizations/institutions include: social, government, not-for-profit (art galleries, churches.) Fulfills GE Area D4. 4 lecture/discussion/problem solving. Prerequisite: Completion of GE requirements in Areas A and Sub-areas D1, D2 and D3 is required. (Also listed as CLS 492)

London Quarter

The College of Business Administration; College of Letters, Arts, and Social Sciences; and the International Center sponsor a winter and/or spring quarter study and travel program in London. The program is open to students in all disciplines. The winter program offers academic credit for upper division courses offered in London and taught by Cal Poly Pomona faculty. Many of the courses are upper division GE courses. The spring program offers academic credit for an internship experience in London. The spring internship program is open to juniors and seniors in all disciplines. This is a unique opportunity that offers living, working, and learning, in an international setting. For more information contact the International Center.

Semester or Year Abroad

The College of Business Administration supports the concept of international education and encourages students to investigate opportunities for overseas study. Certain courses taken at CSU International Program study centers in foreign countries are equivalent to courses in the College of Business Administration and may be used to fulfill some of the degree requirements offered by the College and/or certain general education requirements. Students should consult the International Programs Bulletin, available at the International Center, a departmental advisor, or the campus International Programs Coordinator for more information.

CONTINUING EDUCATION IN BUSINESS

Many individual courses offered in the College of Business Administration provide practical learning opportunities to persons now employed in various career fields. By selecting courses that apply directly to a specific career, a person can enhance his or her professional capabilities, even though he or she may not be seeking a degree. Often, experience on-the-job is an adequate substitute for prerequisite courses so the student can enter upper division courses without completing preliminary courses. Many courses are available in the evening. Information about the Open University and Extended University courses in business can be obtained by contacting the office of the Dean of the College of the Extended University on campus. The College of Business Administration also provides credit or non-credit programs for business organizations on-site. Further information can be obtained by contacting the Student Services Center of the College of Business Administration.

To be eligible to take undergraduate courses in the College of Business Administration for degree credit, a person must be formally admitted to the University. Admission requirements are found in the front section of this catalog. Graduate courses and entrance requirements are listed in the graduate section of this catalog.



ACCOUNTING

www.cba.csupomona.edu/acc

Anwar Y. Salimi, Chair

Nasrollah Ahadiat Rose M. Martin Nancy Fan Ashok Natarajan Magdy S. Farag Hong S. Pak Hassan Hetzi Vicki S. Peden Robert L. Hurt

Meihua Koo Byunghwan Lee

VISION STATEMENT

Our vision is to continue to be recognized as a center of outstanding accounting education.

MISSION STATEMENT

Our mission is excellence in accounting education through teaching, enhanced by research and service. We lead and encourage students and working professionals in developing their abilities to use and integrate accounting information with other information to make better decisions, to thrive in their careers, and to continue life-long learning.

ACCOUNTING EDUCATION PROGRAM

The Accounting Department provides an education for students who wish to be management professionals with a thorough knowledge of the essential concepts of accounting and a strong background for students desiring professional careers in public, private, government, and not-for-profit accounting. The students specializing in accounting may select courses which will prepare them specifically for one or more of these career fields

The accounting courses are taught in the framework of modern business complexity so that the students develop their decision-making skills in realistic environments and learn the wide range of ways in which the accountant's skills are used to effectively manage an enterprise.

PREREQUISITE CORE FOR UPPER DIVISION ACCOUNTING PROGRAM

Before enrolling in the upper-division courses in the Accounting Program, students in the accounting subplan are expected to have completed college-level courses in English, mathematics/statistics, economics, computers, business law, and introductory accounting.

Students must have earned a grade of "C" (2.0) or better in each of the 8 identified lower-division courses before registering for ACC 304. The identified courses are as follows:

ENG 104 and 105

FRL 201, MAT 125, STA 120

EC 201 and 202

ACC 207/207A and ACC 208/208A

Students in non-accounting majors/subplans are expected to have met the above requirements to the extent that the cited courses or their equivalents are included in the requirements of their major/subplan.

DEPARTMENT POLICY ON ACADEMIC DISQUALIFICATION

The Accounting Department may disqualify students at the end of any quarter if either: (1) their overall GPA, Cal Poly Pomona GPA, or their

subplan GPA is below a 2.0 by 7 grade points or more; or (2) more than one-third of the units taken during the past twelve-month period do not satisfy the degree requirements. Determination of the GPA in the subplan and proportion of courses taken to satisfy the degree requirements is the responsibility of the department.

Further, the department has an additional policy on satisfactory progress. Specifically, students who fail to achieve a grade of C or better on a required Accounting course after two attempts will: (1) have an advising hold placed on their records, and (2) be placed on Administrative Academic Probation[*]. Thereafter, the university rules for Administrative Academic Probation published in the catalog will apply.

[*] For this purpose, a "W" does not count as an attempt, but a "WU" does.

MICROCOMPUTER PROFICIENCY REQUIREMENT (see policy statement in College of Business Administration introductory section)

CORE COURSES FOR MAJOR

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.

a degree in the major.			
Legal Environment of Business Transactions Financial Accounting for Decision-Making Managerial Accounting for Decision-Making Principles of Management Organizational Behavior Principles of Marketing Management Managerial Finance I Managerial Finance II Management Information Systems Operations Management Managerial Statistics Strategic Management or Strategic Management	. ACC . ACC . MHR . MHR . IBM . FRL . FRL . CIS . TOM . MHR		
SUPPORT COURSES REQUIRED OF ALL BUSINESS MA	AJORS		
Freshman English II Statistics with Applications Introductory Calculus for Business Principles of Economics Principles of Economics	STA MAT EC	105 120 125 201 202	(4) (4) (4) (4) (4)

ACCOUNTING REQUIRED COURSES

ACCOUNTING REGUINED COUNSES		
Introduction to Accounting Information SystemsACC	304	(4)
Advanced Accounting Information Systems ACC	305	(4)
Cost Accounting	307	(4)
Intermediate Accounting I	311	(4)
Intermediate Accounting IIACC	312	(4)
Intermediate Accounting IIIACC	313	(4)
Auditing TheoryACC	419	(4)
Introduction to Taxation	431	(4)

OTHER COURSES TO COMPLETE SUBPLAN

Career Tracks	2)
(See Department for list of career tracks and electives)	

SUPPORT COURSES

The number of elective units depends on whether or not ENG 105, STA 120 or MAT 125, and EC 201 or EC 202 are used for General Education (see curriculum sheet for the subplan). If any of these courses are used

for General Education, electives will be increased by four units per course up to the unit maximum of 16.

GENERAL EDUCATION REQUIREMENTS

(Required of all students)

Students should consult the catalog website www.csupomona. edu/~academic/catalog/ for current information regarding this requirement. See the list of approved courses under General Education Requirements, Areas A through E.

MINOR IN ACCOUNTING

The Accounting Department provides non-Accounting, undergraduate students with the opportunity to acquire accounting knowledge and skills by completing the requirements for the Minor in Accounting as outlined below. The purpose of the minor is (1) to develop marketable skills for persons with majors/subplans other than Accounting, (2) for those students majoring in technical fields that involve the direct or indirect use of the knowledge and skills of accounting, and (3) for those students who wish to gain a better understanding of accounting for personal use.

It is possible for students in most non-Accounting fields to complete the minor within the normal requirements of their degrees through careful planning and scheduling of their required and elective courses.

No courses in the minor program may be waived or substituted. The student is responsible for meeting the requirements of the minor program that are in effect at the date of signing the formal contract for the minor in Accounting. It is recommended that the contract be signed by the student before beginning the minor program.

For more information or to enroll in the minor, contact the Minor Coordinator of the Accounting Department.

COURSES IN MINOR

Required of all students.

CORE (30 Units):

Financial Accounting for Decision-Making ACC	207/207 <i>A</i>	(4/1)
Managerial Accounting for Decision-Making ACC	208/208A	4 (4/1)
Introduction to Accounting Information SystemsACC	304	(4)
Cost Accounting	307	(4)
Intermediate AccountingACC	311	(4)
Intermediate AccountingACC	312	(4)
Intermediate Accounting	313	(4)

DIRECTED ELECTIVES (8 Units):

Select 8 units from the following list:

ACC 403	Consolidation and Foreign Currency Accounting
ACC 404	International Accounting
ACC 405	e- Business Security, Risk Management and Control
ACC 412	Advanced Cost Accounting
ACC 413	Controllership
ACC 418	Forensic Accounting
ACC 419	Auditing Theory
ACC 420	Advanced Auditing

ACC 431 Introduction to Taxation

ACC 426 Accounting for Not-For-Profit Entities

ACC 432 Taxation of legal Entities

COURSE DESCRIPTIONS

ACC 200 Special Study for Lower Division Students (1-2)

Individual or group investigation, research, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

ACC 207/207A Financial Accounting for Decision Making (4/1)

Introduction to financial accounting and accounting information systems (AIS), including basic concepts, limitations, tools and methods. Use of AIS-generated information, including financial statements in decision making by investors, creditors, and other users external to the organization. 4 lectures/problem solving and 1 self-paced activity. For credit, both segments are to be successfully completed. Prerequisite: microcomputer proficiency.

ACC 208/208A Managerial Accounting for Decision Making (4/1)

Introduction to managerial accounting and accounting information systems (AIS), including basic concepts, limitations, tools and methods. Use of AIS-generated information to support the internal decision-making functions of an organization. 4 lectures/problem solving and 1 self-paced activity. For credit, both segments are to be successfully completed. Prerequisites: ACC 207.

ACC 299/299A/299L Special Topics for Lower Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

ACC 304 Introduction to Accounting Information Systems (4)

Introduction to the use, design, and control of accounting information systems. Application of professional software packages to transaction analysis and preparation of financial statements. Exposure to breadth of accounting profession, career choices, and what accountants actually do at work. 4 lectures/problem-solving. Prerequisites: Minimum grade of C (2.0) in ACC 207/207A, ACC 208/208A, EC 201, EC 202, ENG 104, ENG 105, FRL 201, MAT 125, and microcomputer proficiency.

ACC 305 Advanced Accounting Information Systems (4)

Role, design, implementation, and management of the accounting information system as a subset of the management information system. Interface between accountants and computer specialists. Short case studies. 4 lectures/problem-solving. Prerequisites: Minimum grade of C (2.0) in ACC 304 and CIS 310.

ACC 307 Cost Accounting (4)

Cost accounting fundamentals; cost allocation; budget and standards; cost information for decision and control; decision models; cost information; cost behavior and analysis. 4 lectures/problem-solving. Prerequisites: minimum grade of C (2.0) in ACC 304.

ACC 311 Intermediate Accounting I (4)

FASB Conceptual Framework of Accounting from both conceptual and application perspectives. Decision-making skills in articulating accounting policies in business organizations. Researching accounting questions, problems, and cases using the FASB Conceptual Framework. 4 lectures/problem-solving. Prerequisites: a minimum grade of C (2.0) in ACC 304 and a passing grade on the Graduation Writing Test.

ACC 312 Intermediate Accounting II (4)

Understanding GAAP in financial accounting topics of assets and

liabilities excluding the topics to be covered in ACC 313. Emphasis on the application of concepts in FASB Conceptual Framework to the above topics. Decision-making and problem solving skills. 4 lectures/problem-solving. Prerequisites: a minimum grade of C (2.0) in ACC 311.

ACC 313 Intermediate Accounting III (4)

Understanding GAAP in financial accounting topics of equity, income tax, lease, pension, and post-retirement benefits, error analysis and cash flows. Emphasis on the application of concepts in FASB Conceptual Framework to the above topics. Decision-making and problem-solving skills. 4 lectures/problem-solving. Prerequisites: a minimum grade of C (2.0) in ACC 312.

ACC 400 Special Study for Upper-Division Students (1-2)

Individual or group investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

ACC 403 Consolidation and Foreign Currency Accounting (4)

Analytical study and application of principles of consolidation, derivatives of financial instruments and foreign currency transactions and translation. 4 lecture/problem solving. Prerequisite: Minimum grade of C (2.0) in ACC 313.

ACC 404 International Accounting (4)

Examination and discussion of accounting theories, techniques, procedures, accounting standards and regulations used in other nations. Examination of contemporary practices prevailing in different parts of the world. Emphasis on multinational corporations, and their needs and practices. 4 lectures/problem-solving. Prerequisite: Minimum grade of C (2.0) in ACC 312. (Formerly IBM 404.)

ACC 405 e-Business: Security, Risk Management, and Control (4)

The roles of accounting in the design and maintenance of electronic commerce systems. Identifying and assessing the risks of insecure electronic commerce systems and formulating security conscious solutions. Role of internal controls in electronic business. 4 lectures/problem-solving. Prerequisites: Minimum grade of C (2.0) in ACC 208, EC 202, ENG 105, FRL 201, and one upper-division course in the student's concentration.

ACC 412 Advanced Cost Accounting (4)

Advanced cost accounting techniques focusing on mathematical models and contemporary technology in cost accounting, including decision-making under uncertainty, use of linear regression in cost estimates, service department cost allocations using simultaneous equations, and stochastic cost-volume-profit analysis. 4 lectures/problem-solving. Prerequisite: minimum grade of C (2.0) in ACC 307.

ACC 413 Controllership (4)

Analysis of controllership function in a business organization, and general problems of accounting controls. Cases and/or problems. 4 lectures/problem-solving. Prerequisite: minimum grade of C (2.0) in ACC 307.

ACC 418 Forensic Accounting (4)

Study of forensic accounting, a discipline that focuses on the procedures and techniques used in the prevention, investigation, and detection of occupational and financial statement fraud. Study of social, ethical, legal, and political considerations that surround fraud. 4 lectures/problem solving. Prerequisite: minimum grade of C (2.0) in ACC 311.

ACC 419 Auditing Theory (4)

Theory of auditing and its objectives; procedures and techniques to attain objectives; types of reports issued by auditors; professional responsibilities and ethics of auditors. 4 lectures/problem-solving. Prerequisites: minimum grade of C (2.0) in ACC 305, ACC 313, and TOM 302

ACC 420 Advanced Auditing (4)

Application of auditing procedures and techniques; working paper development and preparation; use of computer auditing tools; extensive case analysis. 4 lectures/problem-solving. Prerequisite: minimum grade of C (2.0) in ACC 419.

ACC 424 Internal Auditing (4)

Objectives, principles, and methods of internal and operational auditing with special emphasis on examination and appraisal of internal controls in the various reporting systems. Problems of communication, delegation of authority, or organization. 4 lectures/problem-solving. Prerequisite: minimum grade of C (2.0) in ACC 305.

ACC 426 Accounting for Not-for-Profit Entities (4)

Study of current tax and auditing issues of not-for-profit entities. Review and apply not-for-profit financial and governmental standards. Case studies, lectures, and group projects. 4 lectures/problem-solving. Prerequisite: Minimum grade of C (2.0) in ACC 207/207A or ABM 324, and one upper-division course in the student's major.

ACC 428 Management Control in Not-for-Profit Organizations (4)

In-depth study of processes of budgeting, planning, and controlling in governmental, hospital, and educational institutions. 4 lectures/problem-solving. Prerequisites: minimum grade of C (2.0) in ACC 307.

ACC 431 Introduction to Taxation (4)

Fundamental concepts of taxation with an emphasis on their application to tax planning for the largest sector of the economy, sole proprietorships and employees. 4 lectures/problem-solving. Prerequisites: minimum grade of C (2.0) in ACC 307 or ACC 311.

ACC 432 Taxation of Legal Entities (4)

Principles of taxation, with an emphasis on their application to tax planning for legal entities, such as corporations, partnerships, and limited liability companies, and real estate transactions. 4 lectures/problem-solving. Prerequisite: minimum grade of C (2.0) in ACC 431.

ACC 434 Service Learning in Taxation (2)

Tax return preparation under supervision for elderly and low income taxpayers, such as through the Internal Revenue Service Voluntary Income Tax Assistance Program. One 4 hour activity.

ACC 435 Tax Research and Communication (4)

Development of Web based tax research and ethical decision making capabilities, interpreting statutory, administrative, judicial, and international law, administrative and judicial resolution of controversies, and communicating research results within an environment of planning and analysis. 4 seminars. Prerequisite: minimum grade of C (2.0) in ACC 431.

ACC 441, 442 Internship in Accounting (1-8) (1-8)

On-the-job training in accounting involving new university-level learning

experiences. Experiences may be useful as a basis for senior projects. Total credit limited to 8 units each. Maximum of 4 units of Career Tracks may be satisfied by internship. Prerequisite: permission of the Director of the Internship Program, Accounting Department.

ACC 443 Internship in Public Accounting (4)

On-the-job training with a CPA firm in phases of auditing or public accounting. The experience must be new to the student. Analytical reports of work accomplished by each student are made periodically to the faculty coordinator. Units of college credit granted are dependent on departmental approval. Maximum of 4 units of Career Tracks may be satisfied by internship. Prerequisite: permission of the Director of the Internship Program, Accounting Department.

ACC 461 Senior Project (2)

Familiarization with probable sources of data and information for research-oriented projects: problem identification and analysis, research methodology, application of report writing tools and techniques. Project(s) must involve research and writing. Prerequisites: minimum grade of C (2.0) in ACC 312.

ACC 462 Senior Project (2)

Selection and completion in formal report form of one or more project(s) under faculty supervision. Project(s) are research-oriented and typical of problems which graduates may be required to solve in future occupations. Project(s) must involve library research and/or field study and writing. Prerequisite: Minimum grade of "C" (2.0) in ACC 461.

ACC 465 Accounting Theory and Research (4)

Study of the general frame of reference for the evaluation and development of sound managerial and financial accounting practices. Emphasis on the normative rather than the descriptive approach. Not a review of accounting professional pronouncements. Enhances analytical, research, judgmental, and communication skills of students. 4 seminars. Prerequisite: minimum grade of "C" (2.0) in ACC 419.

ACC 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.



COMPUTER INFORMATION SYSTEMS

www.cba.csupomona.edu/cis

Ruth Guthrie, Interim Chair

Gregory Carlton	Larisa Preiser-Houy
Ruth Guthrie	Louise L. Soe
Drew C. Hwang	William Verbrugge
Zhongming Ma	Ralph Westfall
Daniel P. Manson	Xiaojiang (Henry) Wu
Carlos Navarrete	

MISSION STATEMENT

Steven R. Powell

The Computer Information Systems (CIS) Department educates students for successful careers as information technology professionals. The CIS program is recognized both regionally and nationally. Faculty have top academic credentials and industry experience and are committed to quality teaching and to working with students on relevant research that strengthens professional IT practice and teaching. In keeping with Cal Poly Pomona's unique polytechnic approach to education, CIS students learn both theory and current practice in a strong, common core and in specialized courses. Using a hands-on, learn-by-doing approach, students apply cutting-edge technologies and problem-solving approaches to course projects and real-world problems. The result is graduates who are ready to excel in the technology-driven business world.

MICROCOMPUTER PROFICIENCY REQUIREMENT (see policy statement in College of Business Administration introductory section)

CORE COURSES FOR MAJOR

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.

Legal Environment of Business Transactions FRL Financial Accounting for Decision-Making ACC	201	(4)
Managerial Accounting for Decision-Making ACC		
Principles of Management	301	(4)
Organizational Behavior	318	(4)
Principles of Marketing Management	301	(4)
Managerial Finance IFRL	300	(3)
Managerial Finance IIFRL	301	(3)
Management Information Systems	310	(4)
Operations Management	301	(4)
Managerial StatisticsTOM	302	(4)
Strategic ManagementMHR	410	(4)
or Strategic ManagementTOM	411	

SUPPORT COURSES REQUIRED OF ALL BUSINESS MAJORS

Statistics with Applications		(. /
Principles of Economics	201	(4)
Principles of Economics	, 202	(4)

CIS REQUIRED COURSES

Object-Oriented Programming with JavaCIS	234	(4)
Introduction to Object-Oriented Systems		
Analysis and Design	235	(4)

Intermediate Java Programming for Business .CIS Database Design and Development .CIS Business Telecommunications .CIS Interactive Web Development .CIS Information Systems Careers .CIS Systems Development Project .CIS	304 305 307 311 328 466	(4) (4) (4) (4) (2) (4)
EACH STUDENT WILL SELECT 18 UNITS FROM THE FOLLOWING	:	
Programming with C++	284	(4)
with Visual Basic	338	(4)
Data Modeling	345	(4)
Telecommunications Networks	347	(4)
Special Study for Upper Division Students CIS	400	(2)
Rapid Systems Development	406	(4)
Systems Analysis and Design	415	(4)
Broadband and Multimedia Networks	417	(4)
Multimedia Applications on the Web CIS	421	(4)
Advanced Java Programming for Business CIS	424	(4)
Mobile Communications and Wireless Networks .CIS	427	(4)
Information Systems Auditing	433	(4)
Fundamentals of Network Mgmt and Design CIS	437	(4)
Tracks Specific Internship	443	(2)
Internetworking with Linux	447	(4)
E-commerce Application Development	451	(4)
Advanced Web Site Development	461	(4)
Network Security	467	(4)
Internet Security	471	(4)
Computer Forensics	481	(4)
Secure Web Applications	491	(4)

Department Policy on Academic Disqualification

The Computer Information Systems Department may disqualify students with a subplan in Computer Information Systems at the end of any quarter if either: (1) their overall GPA, Cal Poly Pomona GPA, or their subplan GPA is below a 2.0 by 7 grade points or more, or (2) more than one-third of the units taken during the past twelve-month period do not satisfy the degree requirements. Determination of the GPA in the subplan and proportion of courses taken to satisfy the degree requirements is the responsibility of the department.

Further, the department has an additional policy on satisfactory progress. Specifically, if students fail to complete a Computer Information Systems course required of all CIS students with a grade of C or better, they will have an advising hold placed on their records. For this purpose, a "W" does not count as a try, but a "U" does. To release the hold, students must see the Department's academic advisor. Students who do not achieve a grade of C or better in a required CIS course in two attempts (with the exception of CIS 466) will be disqualified from the CIS major.

SUPPORT AND ELECTIVE COURSES

BUSINESS AND ECONOMICS SUPPORT COURSES

The number of 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, electives will be increased by four units. If EC 201 or EC 202 is used for General Education, electives will be increased by four units.

GENERAL EDUCATION REQUIREMENTS

(Required of all students)

Students should consult the catalog website www.csupomona. edu/~academic/catalog/ for current information regarding this requirement. See the list of approved courses under General Education Requirements, Areas A through E.

Prerequisites for CIS Elective Courses

Students must have earned a grade of "C" (2.0) or better in each of the courses listed below before registering for any elective course for which it is a prerequisite. The courses are: CIS 234, CIS 235, CIS 304, CIS 305, CIS 307, CIS 311, and CIS 328.

MINOR IN BUSINESS COMPUTER PROGRAMMING

The Computer Information Systems Department provides non-CIS students with the opportunity to acquire programming expertise in the area of business applications program development by completing the requirements for Minor in Business Computer Programming as outlined below. The purpose of this minor is (1) to develop marketable skills for people with majors/subplans other than Computer Information Systems, (2) for those students majoring in technical fields that involve the use of the computer, and (3) for those students who wish to gain a much better understanding of the computer for personal use.

Students completing the Minor in Business Computer Programming are excused from taking Information Systems Careers (CIS 328) for courses in their minor that require CIS 328 as a prerequisite.

For more information or to enroll in the minor, please contact the CIS department secretary in Building 98, Room C4-11, (909) 869-3235.

COURSES FOR MINOR (32 units)

Prerequisite Courses:

Introduction to Microcomputing Financial Accounting for Decision-Making Principles of Management Management Information Systems	.ACC .MHR	101 207/207A (4 301 310	(4) 1/1) (4) (4)
Required Courses:			
Object-Oriented Programming with Java Systems Analysis and Design Intermediate Java Programming Database Design and Development Business Telecommunications Interactive Web Development	.CIS .CIS .CIS .CIS	234 235 304 305 307 311	(4) (4) (4) (4) (4)
Elective Courses (select two courses from the follow	wing):		
Programming with C++	.CIS	284	(4)
with Visual Basic		338	(4)
Rapid Systems Development	.CIS .CIS .CIS	406 424 451 345	(4) (4) (4)
Analysis and Design	.CIS	415	

MINOR IN MANAGERIAL COMPUTING

The Computer Information Systems Department provides non-CIS students with the opportunity to acquire expertise in object-oriented analysis and programming concepts as they are applied in managerial World Wide Web application development. Students need to complete the requirements for a Minor in Managerial Computing as outlined

below. The purpose of the minor is (1) to develop marketable skills for people with majors/subplans other than Computer Information Systems and (2) to give students a much better understanding of World Wide Web application development.

Students completing the Minor in Managerial Computing are excused from taking Information Systems Careers (CIS 328) for courses in their minor that require CIS 328 as a prerequisite.

For more information or to enroll in this minor, please contact the CIS Department Secretary in Building 98, 4th floor, Room 11, (909) 869-3235.

COURSES FOR MINOR (32 units)

101	(4)
301	(4)
310	(4)
234	(4)
235	(4)
304	(4)
305	(4)
307	(4)
311	(4)
338	(4)
421	(4)
451	(4)
	234 235 304 305 307 311 338 421

COURSE DESCRIPTIONS

CIS 101 Introduction to Microcomputing (4)

Introduction to Microcomputing using personal computers and personal productivity software: Windows environment, word processing, spreadsheets, and presentations. Problem solving using software packages adopted by the College of Business Administration. Credit/No Credit. 4 lectures/problem solving.

CIS 120 Fundamentals of Web Site Development (4)

Internet and Web computing fundamentals. Web site development framework, design elements, and design principles. Hypertext Markup Language (HTML) specifications. Hands-on demos and projects of personal and business Web site development. Open only to non-CIS majors. Credit/No credit. 4 lectures/problem-solving.

CIS 121 Web Media 1 (2)

Introduction to Web Media 1, using personal computers. Topics are Web audio recording and editing and Blogging. This is an online course. Credit/No Credit. 2 Lecture/Problem solving.

CIS 122 Web Media 2 (2)

Introduction to Web Media 2, using personal computers. Topics are Web based video recording, editing and production. This is an online course. Credit/No Credit. 2 Lecture/Problem solving.

CIS 200 Special Study for Lower Division Students (1-2)

Individual or group investigation, research, studies or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter. May be graded on CR/NC basis.

CIS 234 Object-oriented Programming with Java (4)

Introduction to computer programming of business information systems. Object concepts, programming, the Java language, and an integrated development environment. Business application projects. 4 lectures/problem-solving. Prerequisites: microcomputer proficiency and a minimum grade of C (2.0) in STA 120 and ENG 104. May be taken a maximum of two times.

CIS 235 Introduction to Object-Oriented Systems Analysis and Design (4)

Introduction to object-oriented systems analysis and design using an object-oriented case tool. Determination of user system requirements. User/computer interface design. Class hierarchies, structures, and collaborations of objects. Class and interaction diagrams. 4 lectures/problem-solving. Prerequisites: A minimum of C (2.0) in CIS 234, STA 120 and ENG 104. May be taken a maximum of two times.

CIS 284 Programming with C++ (4)

Foundations of C and C++. Language constructs emphasizing classes and object concepts. Operators, functions, arrays, structures, files, and classes. Business application projects. 4 lectures/problem-solving. Prerequisite: A minimum grade of C (2.0) in CIS 305 and CIS 328.

CIS 299/299A/299L Special Topics for Lower Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination. Prerequisite: Permission of instructor.

CIS 304 Intermediate Java Programming for Business (4)

Data representation, inheritance, interfaces, data structures and matching algorithms. Graphics and file operations. Building business applications emphasizing complex sequence, iteration, and selection algorithms. 4 lectures/problem-solving. Prerequisite: A minimum grade of C (2.0) in CIS 234 and CIS 235. May be taken a maximum of two times.

CIS 305 Database Design and Development (4)

Data modeling and normalization. Relational database design and development using entity relationship diagrams and CASE tools. Accessing and updating databases with SQL. Integrity and security issues. 4 lecture/problem solving. Prerequisite: A minimum grade of C (2.0) in CIS 234, CIS 235, and CIS 304. May be taken a maximum of two times.

CIS 307 Business Telecommunications (4)

Telecommunications link components and functions, concentrators, multiplexors, telecom protocols, OSI model, telecom regulations, integrated traffic on WAN's and LAN's, network applications. 4 lectures/problem-solving. Prerequisites: A minimum grade of C (2.0) in CIS 234. May be taken a maximum of two times.

CIS 310 Management Information Systems (4)

Management and development of information systems in modern businesses from the customer and the MIS perspective. Information as a strategic asset. Acquisition, analysis, integration, presentation of internal and external information. Information management in international and multinational enterprises. Ethical, social impacts. 4 lectures/problem-solving. Prerequisites: ACC 207, MHR 301, and Microcomputer proficiency.

CIS 311 Interactive Web Development (4)

Design and development of business applications to use information on organizational intranets and the Internet. Event-driven programming to control external database/spreadsheet objects from the web. Design considerations for interactive user interfaces. Principles governing critical analysis of web-based content and graphical design. 4 lectures/problem-solving. Prerequisites: A minimum grade of C (2.0) in CIS 304 and CIS 310. May be taken a maximum of two times.

CIS 328 Information Systems Careers (2)

Career opportunities and specialties within Computer Information Systems. Job search preparation, strategies and techniques. Making good impressions during interviews and on the job. Career planning and enhancement. Individual or group investigation, research, studies, or surveys of selected problems. 2 units. May be taken a maximum of two times. Prerequisites: A minimum grade of C (2.0) in CIS 307 and CIS 311. Note: CIS 305 or CIS 338 or CIS 347 may be taken concurrently with CIS 328.

CIS 338 Client/Server Applications Development with Visual Basic (4)

Developing multi-tier client/server business applications using visual Basic and relational DBMS. Database updating using ODBC and SQL. Event-driven programming with graphical user interfaces and ActiveX. Practical problems requiring complex logic design incorporating classes, objects, and collections. 4 lectures/problem-solving. Prerequisite: A minimum grade of C (2.0) in CIS 307 and CIS 305.

CIS 345 Data Modeling (4)

Designing large databases using advanced data modeling concepts. Producing quality data models which follow corporate business plans, policies, and strategies of the enterprise. Analyzing data components for effective utilization. Extracting from the database to create data warehouses. Use of data mining for decision-making. 4 lectures/problem-solving. Prerequisites: A minimum grade of C (2.0) in CIS 305.

CIS 347 Telecommunications Networks (4)

Analysis of hardware and software used in the design of local area networks. Analysis of transmission media, systems architectures, and cost/benefit tradeoffs. Analysis of specific vendor LAN's. Interconnectivity issues. 4 lectures/problem-solving. Prerequisite: A minimum grade of C (2.0) in CIS 307, CIS 305 and CIS 311.

CIS 400 Special Study for Upper Division Students (1-2)

Individual or group investigation, research, studies or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter. May be graded on CR/NC basis.

CIS 406 Rapid Systems Development (4)

Rapid systems development methods and tools. Emphasis on the prototyping approach to systems development and human/ergonomic factors in designing user interfaces. Use of 4GLs, front/back-end CASE tools, code generators and similar rapid development tools. 4 lectures/problem-solving. Prerequisites: CIS 338 and a minimum grade of C (2.0) in CIS 328.

CIS 415 Advanced Object-oriented Systems Analysis and Design (4)

Applying Unified Modeling Language to model complex business systems. Application of use cases in analysis and of patterns in design. Use of modeling tools and code generation. Written reports and case studies. 4 lectures/problem-solving. Written reports and case studies. 4 lecture/problem-solving. Prerequisites: A minimum grade of C (2.0) in

CIS 305 and CIS 328.

CIS 417 Broadband and Multimedia Networks(4)

Hardware and software concepts regarding wide area and voice networks. Analog and digital systems and their interconnection. 4 lectures/problem-solving. Prerequisite: A minimum grade of C (2.0) in CIS 305 and CIS 328.

CIS 421 Multimedia Applications on the Web (4)

Design, development, publishing multimedia applications for business. Considerations for creation of graphical, photographic, video, sound, animation, multimedia authoring, virtual reality applications suitable for publication on WWW or other electronic media. Principles supporting critical analysis of multimedia design and content. 4 lectures/problemsolving. Prerequisite: A minimum grade of C (2.0) in CIS 305 and CIS 328.

CIS 424 Advanced Java Programming for Business (4)

Java programming, review of language structure, typical development platform, and library of classes. Building applications for windows as well as applets and servlets for the web. Accessing web sites and databases using JDBC. 4 lecture/problem-solving. Prerequisite: A minimum grade of C (2.0) in CIS 305 and CIS 328.

CIS 427 Mobile Communications and Wireless Networks

Fundamentals of mobile telecommunications and wireless network technology, regulation, standards, and management. Analysis of wireless local and wide area networks. Evaluation of service alternatives. Examination of emerging issues. 4 lecture/problem-solving. Prerequisites: a minimum grade of "C" (2.0) in CIS 305 and CIS 328.

CIS 433 Information Systems Auditing (4)

Fundamentals of Information Systems (IS) auditing. Understanding IS Audits, risk assessment and concepts, and techniques used in IS audits. Includes case studies. 4 lectures. Prerequisite: ACC 419 or (a minimum grade of C (2.0) in CIS 305 and CIS 328).

CIS 437 Fundamentals of Network Management and Design (4)

Administering and tuning telecommunications networks. Analysis of network components, traffic, security, and failures in the network. An examination of regulatory and legal issues in the field. Analyzing and directing a telecommunications project. 4 lectures/problem-solving. Prerequisites: a minimum grade of "C" in CIS 305 and CIS 328.

CIS 441, 442, Internship in Information Systems (1-8) (2)

Faculty-supervised on-the-job educational experiences in a real world data processing environment. Allocation of credit is dependent on the nature of the work done and the number of hours worked. Students usually receive pay for participation. Total credit limited to 8 units each. Prerequisite: permission of the internship coordinator.

CIS 443 Track Specific Internship (1-8)

Faculty-supervised on-the-job educational experiences in a real world data processing environment. Allocation of credit is dependent on the nature of the work done and the number of hours worked. Students usually receive pay for participation. Total credit limited to 8 units each. Prerequisite: permission of the internship coordinator.

CIS 447 Internetworking with Linux (4)

Fundamentals of multivendor network standards. Hardware and software technologies, design, installation, types of services,

performance monitoring and management of Intra and Extranets. Integrating heterogeneous networks, securing them with the firewalls and emerging issues. 4 lecture/problem-solving. Prerequisite: a minimum grade of "C" (2.0) in CIS 305 and CIS 328.

CIS 451 E-commerce Application Development (4)

Analysis of e-commerce architecture, practice, technology, and trends. Hands-on design and development of e-commerce solutions for business. Internet marketing and management for e-commerce applications. 4 lectures/problem-solving. Prerequisites: CIS 338 and a minimum grade of C (2.0) in CIS 328.

CIS 466 Systems Development Project (4)

Application of computer programming and implementation concepts to a comprehensive group project. Management planning, scheduling, and reporting required. Documentation to include programming, testing and users manuals. Oral and written presentations required for all team members. 4 lectures/problem-solving. Prerequisites: three CIS elective courses.

CIS 467 Network Security (4)

Fundamentals of network s ecurity in a business environment. Understanding IT Network Security Reviews, risk assessment and concepts, and techniques used in IT Network Security Reviews from a business perspective. Includes case studies. 4 lectures. Prerequisite: a minimum grade of "C" (2.0) in CIS 305 and CIS 328.

CIS 471 Internet Security

Introduction to computer security in networked systems. Security issues and policies with regard to hardware, software development, databases, operating systems and networks. Common attacks on systems will be covered. Vulnerability assessment tools and techniques for defending systems will be explored in various projects. Professional responsibilities. 4 lectures/problem solving. Prerequisites: a minimum grade of C (2.0) in CIS 305 and CIS 328.

CIS 481 Computer Forensics (4)

Introduction to computer forensics in networked systems. Legal issues regarding seizure and chain of custody. Technical issues in acquiring computer evidence. Popular file systems are examined. 4 lectures/problem solving. Prerequisites: a minimum grade of "C" (2.0) in CIS 305 and CIS 328.

CIS 491 Secure Web Applications (4)

Fundamental design and development of hack-resilient Web applications. Analysis of Web application security models. Identification of Web application threats, vulnerabilities, and attacks. Formulation of strategies with implementation plan for countermeasures for secured Web applications. Development of appropriate security mechanisms in the logic, coding, testing, and debugging of Web applications. 4 lectures/problem-solving. Prerequisite: a minimum grade of "C" (2.0) in CIS 305 and CIS 328.

CIS 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination. Prerequisite: permission of instructor and a minimum grade of "C" (2.0) in CIS 305 and CIS 328.

E-BUSINESS

www.cba.csupomona.edu/tom

Henry Co, Interim Chair

Abolhassan Halati Ralph Westfall Robert W. Schaffer Xiaohui Xu Gail R. Waters Wenge Zu

THE PROGRAM

E-Business is about sharing information and conducting business transactions internally, and with customers, business partners, and suppliers. The "E" in E-Business means electronic networking technology. Technology allows E-Business to streamline internal and outward-reaching processes, with significantly less paperwork, and increased availability - 24/7 if necessary.

AIMS OF THE E-BUSINESS SUBPLAN

The e-business subplan is designed to provide students:

- the technological, business and interpersonal tools needed to add value to established and start-up organizations engaged in ebusiness.
- the ability to address the needs of e-business stakeholders (i.e., customers, suppliers, and managers).
- the ability to respond to the growing market demand for e-business professionals with the aforementioned knowledge, skills and abilities.
- an option for individuals with an "e-business spirit" that prepares them for success in "start-up" or existing organizations developing e-business activities.
- the unique tools and abilities required for ventures into the growing field of "high tech" or "Internet based" businesses and institutions.
- the tools to develop effective Internet strategies for the non-profit or government sector.

Career Tracks In E-Business

Business students choosing the E-Business concentration will choose between three career tracks. These are: (1) Supply-Chain Management, (2) E-Commerce, and (3) Content Creation and Management. The career track will dictate which electives students will take.

- Supply-Chain Management: Most organizations exist within a
 complex labyrinth of vendors, suppliers, customers, distributors, and
 business partners. Understanding and leveraging these supply
 chain relationships are key success factors in navigating an
 increasingly interconnected world. Students in the Supply-Chain
 Management track learn the theory and practice of logistics
 management, the technologies and standards of collaborative
 commerce, and the use of information technology in every facet of
 the business process planning, purchasing, production,
 transportation, storage and distribution, customer service, and
 more!
- **E-Commerce:** New business models are emerging in startups, and in existing companies struggling to survive. Students in the *E-Commerce* track learn about utilizing electronic networking technologies for buying, selling and advertising, banking, etc.; creating a business plan and managing emergent ventures.

• Content Creation and Management: Using hands-on, learning-by-doing approach, students in the *Content Creation and Management* apply cutting-edge technologies and problem solving approaches to course projects and real-world problems. Students in this track take courses that constitute the core requirements in our Computer Information System (CIS) concentration.

MICROCOMPUTER PROFICIENCY REQUIREMENT

(See policy statement in College of Business Administration introductory section)

CORE COURSES FOR MAJOR

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.

Legal Environment of Business Transactions.FRLFinancial Accounting for Decision-Making.ACCManagerial Accounting for Decision-Making.ACCPrinciples of Management.MHROrganizational Behavior.MHRPrinciples of Marketing Management.IBMManagerial Finance I.FRLManagerial Finance II.FRLManagement Information Systems.CISOperations Management.TOMManagerial Statistics.TOMStrategic Management.MHRor Strategic Management.TOM	208/208A(4/1) 301 (4) 318 (4) 301 (4) 300 (3) 301 (3) 310 (4) 301 (4) 302 (4)	
SUPPORT COURSES REQUIRED OF ALL BUSINESS MAJORS		
Introduction to Microcomputing .CIS Statistics with Applications .STA Introductory Calculus for Business .MAT Principles of Economics .EC Principles of Economics .EC	101 (4) 120 (4) 125 (4) 201 (4) 202 (4)	
E-BUSINESS REQUIRED COURSES		
Introduction to Electronic Business	301 (4) 302 (4) 303 (4) 304 (4)	

SUB-AREA COURSES

At least 24 units of additional courses (in consultation with an advisor) to provide more in-depth knowledge, skills, and abilities in a sub-area of emphasis. These areas of emphasis can be structured in several ways.

E-business Enterprise Resource Planning EBZ

ELECTIVES 0-12 units.

GENERAL EDUCATION REQUIREMENTS

(Required of all students)

Students should consult the catalog website www.csupomona. edu/~academic/catalog/ for current information regarding this requirement. See the list of approved courses under General Education Requirements, Areas A through E.

(4)

(4)

305

466

COURSE DESCRIPTIONS

EBZ 301 Introduction to Electronic Business (4)

Technology underpinnings for e-business, impact on other information systems within a business, impact on business design and strategy including how business strategy shapes and is now being shaped by threats and opportunities in e-business, impact on the industries and markets, direct marketing theory, business models for e-business. 4 lectures/problem-solving. Prerequisites: Successful completion of microcomputing proficiency exam or CIS 101, ENG 104 and STA 120 with a grade of C or better.

EBZ 302 E-business Technology (4)

Technologies used to support all aspects of electronic business. Concepts, vocabulary and tools of electronic business technology. Hands-on projects. 4 lectures/problem-solving. Prerequisite: TOM 301 and CIS 310 with a grade of C or better.

EBZ 303 E-business Customer Relationship Management (4)

Critical role of Life Time Value (LTV). Integration of management, sales, marketing, finance, operations, IT and ERP to create a true customercentric focus. Business-to-Business (B2B) and Business-to-Consumer (B2C) markets. Development of 360-degree strategies to achieve a competitive advantage through quality customer relationships and long-term profitability. Benchmarking and financial metrics. 4 lectures/problem-solving. Prerequisites: EBZ 301 with a grade of C or better.

EBZ 304 E-business-enabled Supply Chain Management (4)

Integration of internal company resources to work effectively with the external supply chain; e-business concepts and Web technologies to manage the supply chain; enhancement of company's overall performance through improved manufacturing capability, market responsiveness, and customer-supplier relationships. 4 lecture discussions. Prerequisites: Completion of TOM 301 with a grade of C or better.

EBZ 305 E-business Enterprise Resource Planning (4)

Automation and integration of corporate functions via enterprise resource technology software. Theory of and hands-on practice with ERP software. ERP implementation steps. 4 lecture discussions. Prerequisite: EBZ 301 with a grade of C or better.

EBZ 441, 442 Internship in E-Business. (1-8) (1-8)

Faculty-supervised on-the-job educational experience in the e-Business environment. Allocation of up to 8 unit credits is dependent upon the nature of the work done, the level of responsibility and the number of hours worked. Prerequisite: permission of departmental internship coordinator.

EBZ 451 E-business Application Development (4)

Analysis of E-business architecture, practice, technology, and trends. Hands-on design and development of E-business solutions for business. Internet marketing and management for E business applications. 4 lectures/problem-solving. Prerequisites: EBZ 301 and EBZ 302 with a grade of C or better; and CIS 310.

EBZ 466 E-business Practicum (4)

Capstone course for e-business curriculum. Practical, hands-on projects and/or applied research that integrates concepts and techniques. May also involve internships. Independent Study. Prerequisites: Completion of e-business core: EBZ 301, 302, 303, 304, 305, and 306 with a grade of C or better in each course.

EBZ 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination. Prerequisite: Consent of instructor.

FINANCE, REAL ESTATE, AND LAW

www.cba.csupomona.edu/frl

Shady Kholdy-Sabety, Chair

Ekaterina Chernobai Zsuzsa Huszar Shady Kholdy-Sabety George H. Lentz Eric J. McLaughlin Ahmad Sohrabian Libo Sun Lin Tan

John B. Wyatt III N. Gregory Young Wei Yu

Majed Muhtaseb W Paul Sarmas

MISSION STATEMENT

The FRL Department seeks to prepare undergraduate students in Finance, Real Estate, and Law and MBA students for careers in finance, real estate, and contract management with up-to-date curricula and instructional methods. In addition, the FRL Department provides all other students within the College of Business Administration and throughout the university with a variety of introductory and specialized courses in finance, real estate, business law, and contract management. The department is also committed to enhancing the intellectual capital of its faculty and maintaining strong links with business/government through research, writing, consulting, and participation in academic and professional meetings, and other development activities.

Students select one of the three emphasis areas that best meets their career objectives: Finance, Real Estate, or Business Law and Contract Management.

The Finance emphasis offers courses on the theory and methods of financial analysis and valuation, corporate financial management, the management of financial institutions, securities analysis, and multinational finance.

The Real Estate emphasis focuses on real estate brokerage, mortgage lending, residential and commercial appraising, and real property investment/development.

The Business Law Program offers two emphases: Business Law and Contract Management.

The Business Law emphasis serves both as a highly-relevant pre-law major that enhances student knowledge and preparation for the rigors of law school graduate education, and as a significant specialized complement to general business and corporate management education and in future employment. Courses introduce, among other major topics, the American legal system and business dispute resolution, financial law, international business law, and corporate law and regulation.

The Contract Management emphasis helps to prepare students for law school and for careers as contract administrators and contract cost and price analysts. Contract management courses emphasize the study of American sales law, government contract practices, and analysis of important court decisions.

The Department offers four minors: Finance, Real Estate, Business Law, and Contract Management to non-FRL students

The minor in Real Estate is formulated to qualify the student with the requisite courses to sit for the real estate broker's examination.

The minor in Finance is intended to complement other majors by providing non-finance majors with knowledge and skills in finance that enhance an individual's ability to function as a productive member of any business organization and assist the organization to achieve its goals.

The Minor in Business Law significantly enhances the student's knowledge of today's increasingly complex business, employment and regulatory environment. The minor offers important knowledge and insights concerning corporate law and regulation, international business law, real estate law and practice, and contract management and law, in addition to providing substantial benefits to students who may later attend law school.

The minor in contract management provides sufficient skills and understanding of the principles to enable students to successfully manage commercial contracts, apply contract cost/price techniques, and undertake contract negotiations.

Please contact the Department Chair in Building 66, Room 211 (909) 869-2350, or an FRL faculty advisor if you wish to explore any of the course offerings.

COURSE REQUIREMENT FOR THE FINANCE, REAL ESTATE, AND LAW PROGRAM

Students must complete and earn a grade of "C" (2.0) or better in each of the following courses before taking FRL 315, FRL 330, FRL 367, FRL 440 courses: ACC 207, ACC 207A. ACC 208, ACC 208A, EC 201, EC 202, ENG 104 (or ENG 102 & ENG 103), FRL 201, FRL 300, FRL 301, and STA 120.

Students must complete and earn a grade of "C" (2.0) or better in each of the following courses before taking FRL 306 course: ACC 207, ACC 207A, EC 201, FRL 201, FRL 300.

Students must complete and earn a grade of "C" (2.0) or better in FRL 301 and FRL 367 before taking FRL 440 course.

MICROCOMPUTER PROFICIENCY REQUIREMENT (policy statement in College of Business Administration introductory section)

CORE COURSES FOR BUSINESS ADMINISTRATION MAJOR

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.

Legal Environment of Business Transactions		201	(4)
Financial Accounting for Decision-Making	.ACC	207/207	4 (4/1)
Managerial Accounting for Decision-Making	.ACC	208/208A	4(4/1)
Principles of Management	MHR	301	(4)
Organizational Behavior	MHR	318	(4)
Principles of Marketing Management		301	(4)
Managerial Finance I		300	(3)
Managerial Finance II		301	(3)
Management Information Systems	.CIS	310	(4)
Operations Management	MOT	301	(4)
Managerial Statistics		302	(4)
Strategic Management		410	(4)
or Strategic Management		411	

SUPPORT COURSES

Freshman English IIENG	105	(4)
Statistics with Applications	120	(4)
Introduction to Calculus for Business	125	(4)
Principles of Economics	201	(4)
Principles of Economics	202	(4)
Introduction to Microcomputing CIS	101	(4)

REQUI	RED COURSES IN FRL SUBPLAN
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Fundamentals of Real EstateFRL	306	(4)
Financial Institutions	315	(4)
Investment Analysis	330	(4)
Corporate Finance TheoryFRL	367	(4)
Evaluation of Financial Policy	440	(4)

REQUIRED CAREER TRACKS (Choose one)

Career Track in Finance (20 units)

Required Courses (4 units)

Legal Environment of Business Organizations FRL 302 (4)

Select 16 units from courses below:

Financial Derivatives	331 363 404 420	(4) (4) (4)
Multinational Financial Management. FRL Seminar in Portfolio Management. FRL Seminar in Finance FRL	453 433 463	(4) (4) (4)
Commercial BankingFRL	460	(4)

With the approval of a finance advisor, FRL students can substitute one course in any FRL career track or a course from either Economics or Accounting for one of the elective finance courses listed above.

FRL students can satisfy one of the optional career-track courses by taking four units of internships (FRL 441) or senior project (FRL 461 and FRL 462).

Career Track in Real Estate (20 units)

Required Courses (12 units)

Real Estate Appraisal FRL Real Estate Finance FRL Real Estate Law FRL	380 383 484	(4) (4) (4)
Select two (8 units) from below:		
Property Management	386	(4)
Real Estate Market Analysis	483	(4)
Real Estate Investment Analysis	486	(4)
Real Estate Practices	485	(4)
Urban Land DevelopmentFRL	490	(4)

With the approval of a Real Estate advisor, FRL students can substitute one course in any FRL career track or in economics for one of the elective real estate courses listed above.

FRL students can satisfy one of the optional career-track courses by taking four units of internships (FRL 441) or senior project (FRL 461 and FRL 462).

Career Track in Business Law and Contract Management (20 units)

Required Courses (8 units)

Legal Environment of Business OrganizationsFRL	302	(4)
Contract Administration	325	(4)
or Contract Aspects of UCC	326	(4)

Select three courses (12 units) from below:

Contract Administration	FRL	325	(4)
Contract Aspects of Uniform Commercial Code F	FRL	326	(4)
Contract Case Study	FRL	327	(4)
Contract Cost Price	FRL	328	(4)
Government Regulation of Business	FRL	401	(4)
Legal Implications of Financial Transactions F	FRL	403	(4)
Legal Environment of Labor Relations	FRL	406	(4)
Entrepreneurial Law	FRL	407	(4)
Law for Accounting	FRL	408	(4)
E-commerce Law	FRL	410	(4)
Legal Environment of Marketing	FRL	419	(4)
Legal Aspects of International Business	FRL	426	(4)
Real Estate Law	FRL	484	(4)
Real Estate Practices	FRL	485	(4)

With the approval of a Law/Contract advisor, FRL students can substitute one course in any FRL career track for one the elective law courses listed above.

FRL students can satisfy one of the optional career-track courses by taking four units of internships (FRL 441) or senior project (FRL 461 and FRL 462).

SUPPORT AND ELECTIVE COURSES

The number of elective units depends on whether or not ENG 105, STA 120 or MAT 125, and EC 201 or EC 202 are used for General Education (see curriculum sheet for the subplan). If any of these courses are used for General Education, electives will be increased by four units per course up to the unit maximum of 12.

Freshman English II	ENG	105	(4)
Introduction to Calculus for Business	MAT	125	(4)

GENERAL EDUCATION REQUIREMENTS

(Required of all students)

Students should consult the catalog website www.csupomona. edu/~academic/catalog/ for current information regarding this requirement. See the list of approved courses under General Education Requirements, Areas A through E.

MINORS

Four minors are offered to both non-FRL students and to FRL students. FRL students may not count courses taken in group A for the subplan toward the minor. Please contact the minor coordinator for more information

MINOR IN FINANCE

Financial affairs play an important role in the efficiency and effectiveness of any organization. Knowledge and skill in finance enhance an individual's ability to function as a productive member of any organization and assist the organization to achieve its goals. Augmenting the skills of a non-finance business major/subplan with a minor in finance creates a synergetic effect. A Finance Minor complements the skills of a non-Finance student, and thus improves an individual's potential in the job market. The Finance, Real Estate, and Law Department offers a Minor in Finance that is available to non-Finance students. The requirements are listed below:

Prerequisite Courses:

Financial Accounting for Decision-Making ACC	207/207A (4/1)
Managerial Accounting for Decision-Making ACC	208/208A(4/1)

Principles of Economics Principles of Economics Managerial Finance I Managerial Finance II Introduction to Calculus for Business Statistics with Applications Microcomputer Proficiency	EC FRL FRL MAT STA	201 202 300 301 125 120	(4) (3) (3) (4) (4) (4)
Required Courses:			
Financial Institutions Investment Analysis International Financial Markets	FRL	315 330 353	(4) (4) (4)

Directed Electives:

Select 3 of the following courses:

Business Forecasting and Financial Planning .FRL Corporate Finance Theory .FRL Real Estate Finance .FRL Legal Implications of Financial Transactions .FRL Financial Modeling .FRL Financing Small Business .FRL Seminar in Portfolio Management .FRL Evaluation of Financial Policy .FRL Commercial Banking .FRL	363 367 383 403 404 420 433 440 460	(4) (4) (4) (4) (4) (4) (4)
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Please see one of the Finance Advisors to sign up for a Minor in Finance. Non-business students should consult with an advisor to discuss prerequisites for the above courses.

Microcomputer proficiency must be demonstrated by satisfying one of the following three alternatives: (1) CIS 101; (2) microcomputer proficiency skills tests in word processing, spreadsheet, and presentation software; or (3) an approved college course.

MINOR IN REAL ESTATE

This minor prepares the student for a real estate career and for the real estate broker's examination course requirements. For Minor program requirements, see advisor.

Prerequisite Courses:

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Principles of Economics	201,202	(8)
Financial Accounting for Decision-Making ACC	207/207A	(4/1)
Managerial Accounting for Decision-Making ACC	208/208A	(4/1)
Legal Environment of Business Transactions FRL	201	(4)
Managerial Finance I	300	(3)
Managerial Finance IIFRL	301	(3)
Required Courses:		
Fundamentals of Real EstateFRL	306	(4)
Real Estate AppraisalFRL	380	(4)
Real Estate Finance	383	(4)
Real Estate Law	484	(4)
Real Estate Practices	485	(4)

Select at least one of the following courses with approval of an advisor:

Real Estate Economics and Institutions FRL Real Property Management FRL Real Estate Market Analysis FRL	386	(4) (4) (4)
Real Estate Investment Analysis	486	(4)
Urban Land DevelopmentFRL	490	(4)

MINOR IN BUSINESS LAW

The Minor in Business Law significantly enhances the student's knowledge of today's increasingly complex business, employment and regulatory environment. The minor offers important knowledge and insights concerning corporate law and regulation, international business law, real estate law and practice, and contract management and law, in addition to providing substantial benefits to students who may later attend law school.

Required:

Legal Environment of Business TransactionsFRL Legal Environment of Business OrganizationsFRL	201 302	(4) (4)
Select 4 courses from the following:		
Law for Everyday Living	101	(4)
Contract Administration	325	(4)
Contract Aspects of the Uniform Commercial Code FRL	326	(4)
Government Regulation of Business	401	(4)
Legal Implications of Financial Transactions FRL	403	(4)
Legal Environment of Labor Relations	406	(4)
Entrepreneurial Law	407	(4)
Law for Accountants	408	(4)
E-commerce LawFRL	410	(4)
Legal Environment of Marketing	419	(4)
Legal Aspects of International Business FRL	426	(4)
Real Estate Law	484	(4)
Practices and Applications of Real Estate LawFRL	485	(4)

MINOR IN CONTRACT MANAGEMENT

This minor provides the student with a concept of contract administration. *Prerequisite: FRL 201.

Contract Administration	325	(4)
Contract Aspects of Uniform Commercial CodeFRL	326	(4)
Contract Case StudyFRL	327	(4)
Contract Cost PriceFRL	328*	(4)
Legal Environment of Marketing	419	(4)
Purchasing Management	434	(4)

COURSE DESCRIPTIONS

FRL 100 Personal Money Management (4)

Major financial problems of the household in allocating resources and planning expenditures. Budgeting, housing, consumer protection, insurance, the use of credit, savings, and investments. Not open to finance majors. 4 lecture discussions.

FRL 101 Law for Everyday Living (4)

Legal principles which underlie ordinary transactions such as buying a house or a television, writing a check, getting married, taking out an insurance policy, joining a union, lending a car to a friend, signing a lease, and hundreds of everyday activities. 4 lecture discussions.

FRL 106 Real Estate Principles (4)

This course satisfies educational requirements for real estate broker's license. Introduction to real estate brokerage and investments; the nature and classification of real property, and fundamental theories of urban growth, land utilization and property valuation. An overview of real estate finance, property management, and the development process. 4 lecture discussions. Prerequisite: ENG 104.

FRL 200 Special Study for Lower Division Students (1-4)

Individual or group investigation, research, studies or surveys of selected problems. Total credit limited to 4 units..

FRL 201 Legal Environment of Business Transactions (4)

Study of the adversary system, principles of American law, coverage of business-related torts and contracts, product liability, and real and personal property. Case analysis. 4 lecture presentations. Prerequisite: ENG 104.

FRL 270 Asset Protection and Insurance (4)

Introduction to corporate risk management and insurance. Institutional framework and analytical techniques for managing property and personnel loss exposures. Use of risk control and risk financing methods, including insurance, from viewpoint of business and family risk managers. 4 lectures/problem-solving.

FRL 299/299A/299L Special Topics for Lower Division Students (4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

FRL 300 Managerial Finance I (3)

First of the 2-course sequence in finance for College of Business Administration majors. Topics include the role of a financial manager; agency problems; financial statement analysis; financial planning; time value of money and discounted cash flow valuation; bonds, bond valuation, and interest rates; stocks, stock markets, and stock valuation; and capital budgeting techniques. 3 units Lecture/Problem Solving. Prerequisites: ACC 207/207A, EC 201 and microcomputer proficiency.

FRL 301 Managerial Finance II (3)

Second of the 2-course sequence in finance for College of Business Administration majors. Topics include estimating cash flows for capital budgeting; historical relationship between risk and return; measuring risk of individual assets and portfolios; cost of capital and capital structure; dividend policy; short-term financial management; and international finance. 3 units Lecture/Problem Solving. Prerequisites: ACC 208/208A, EC 202, FRL 300, and STA 120.

FRL 302 Legal Environment of Business Organizations (4)

Legal requirements of formation, operation and financing of partnerships, corporations and other business organizations. Consideration of the agency relationships and responsibilities of involved parties. Discussion of the economic, political, and regulatory environment. Case analysis. 4 lectures/problem-solving. Prerequisite: FBL 201.

FRL 306, Fundamentals of Real Estate (4 units)

This course provides a comprehensive introduction to the field of real estate. Students are introduced to concepts, principles, and methods related to real estate transactions and to different aspects of real estate decision-making. Topics include the legal aspects of real estate, investment analysis, sources and instruments of financing, market and feasibility analysis, appraisal, and development. 4 lectures/problem solving. Prerequisites: minimum grade of "C" (2.0) or better in ACC 207/A, FRL 201, EC 201, FRL 300.

FRL 315 Financial Institutions and Markets (4)

Focuses on financial markets and institutional management from a microeconomics perspective. Relationship between financial institutions and financial markets and impact of government regulation and monetary policy. 4 lectures/problem-solving. Prerequisites: MAT 125, and a minimum grade of "C" (2.0) in all of the following: ACC 207, ACC 207A, ACC 208, ACC 208A, EC 201, EC 202, ENG 104 (or ENG 102 and ENG 103), FRL 201, FRL 300, FRL 301, and STA 120.

FRL 325 Contract Administration (4)

Organization, procedures, and areas of application in contract administration. Designed to provide the student with knowledge and skills essential to accomplish the responsibility of contract administration. Provides a comprehensive approach to the interrelationship between contract administration and various functional disciplines. 4 lectures/problem-solving. Prerequisites: FRL 201.

FRL 326 Contract Aspects of the Uniform Commercial Code (4)

Transition from common law background to statutory contract law. Formation of sales contract under the UCC. Insight regarding policy considerations, legal remedies, and the mechanical requirements. 4 lectures/problem-solving. Prerequisite: FRL 201.

FRL 327 Contract Case Study/Practical Application (4)

Review of current and past cases in government and private contracting, using the case study method. Combined class textbook and library assignments. Cases, selected by areas briefed, discussed and reviewed. 4 lectures/problem-solving. Prerequisites: FRL 201.

FRL 328 Contract Cost/Price Techniques-Negotiation (4)

Cost/price techniques applicable to public and private prime/sub contracts including RFQ-RFP-IFB analysis, proposal preparation, estimating methodology, and pricing strategies. Analytical and econometric techniques in preparing contracts. 4 lectures/problem-solving. Prerequisites: FRL 201 and FRL 301.

FRL 330 Investment Analysis (4)

Introduction to the behavior of security markets and individual investment policy. Quantitative and qualitative aspects of risk and return associated with investment decisions. Fundamental, technical, and random-walk approaches to valuation. 4 lectures/problem-solving. Prerequisites: MAT 125 and a minimum grade of "C" (2.0) in all of the following: ACC 207, ACC 207A, ACC 208, ACC 208A, EC 201, EC 202, ENG 104 (or ENG 102 and ENG 103), FRL 201, FRL 300, FRL 301, and STA 120.

FRL 331 Financial Derivatives (4)

This course covers financial derivatives, particularly futures, options, and swaps. Students will learn the basic mechanics and cash flows of these instruments; how the markets operate; what factors affect their price; how one can formulate strategies to use such instruments for hedging, speculation and arbitrage. 4 lectures/problem-solving. Prerequisite: FRL 330.

FRL 353 International Financial Markets (4)

Institutional overview of structure and application function of international financial markets and their applications. International financial systems, capital flows, foreign exchange risk measurement and management, Eurocurrency markets, Asian currency markets, international capital markets, international banking, international debt crisis,

and export-import financing. This course is not open to FRL majors. 4 lectures/problem-solving. Prerequisite: FRL 301.

FRL 363 Business Forecasting and Financial Planning (4)

Various forecasting techniques as they relate to finance and real estate issues. Smoothing methods, decomposition methods, correlation analysis, regression analysis, seasonal models, Box-Jenkins methodology, and managing the forecasting process. Use of microcomputer to aid calculations. Individual projects. 4 lectures/problem-solving. Prerequisites: FRL 301, TOM 302, and MAT 125.

FRL 367 Corporate Finance Theory (4)

Capital budgeting under uncertainty, capital structure, cost of capital, and specialized financial decision tools. Emphasis on operational techniques through cases, problems, and computer applications. 4 lectures/problem-solving. Prerequisites: MAT 125, ENG 105, and a minimum grade of "C" (2.0) in all of the following: ACC 207, ACC 207A, ACC 208A, EC 201, EC 202, ENG 104, (or ENG 102 and ENG 103), FRL 201, FRL 300, FRL 301 and STA 120.

FRL 380 Real Estate Appraisal (4)

Examines principles and techniques of real property valuation, emphasizing urban properties. Applications via specific problem-solving assignments and the preparation of appraisal reports and market analysis. Satisfies educational requirement for the real estate broker's license. 4 lecture/problem-solving. Prerequisites: FRL 306, and one of the following: FRL 301, CE 301, or ETT 305.

FRL 383 Real Estate Finance (4)

Instruments of real estate financing and their use; analytic factors in financing and investment decision-making; analysis of the various institutions which are sources of real estate financing. Satisfies educational requirement for the real estate broker's license. Case analysis. 4 lectures/problem-solving. Prerequisites: FRL 301 and FRL 306.

FRL 386 Real Property Management (4)

General practices and legal aspects of property management. Establishing rental schedules, tenant billing, rent collection, lease clauses, lease negotiations, purchasing procedures related to repairs and maintenance, and property management accounts for apartments, office buildings, industrial properties, and shopping centers. 4 lecture discussions. Prerequisites: FRL 380.

FRL 400 Special Study for Upper Division Students (1-4)

Individual or group investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units. May be taken on a CR/NC basis.

FRL 401 Government Regulation of Business (4)

The study of the regulation of business, government. Antitrust, trade regulation, labor and employment law, privacy, safety, environmental and consumer legislation. 4 lectures/problem-solving. Prerequisite: FRL 201.

FRL 403 Legal Implications of Financial Transactions (4)

An analysis of the legal structure, rationale, and implication of commercial transactions involving secured transactions, negotiable instruments and credit. 4 lectures. Prerequisite: FRL 201.

FRL 404 Financial Modeling

Financial Modeling covers standard financial models in the areas of valuation, sales forecast, capital budgeting, leasing versus buying, portfolio analysis, and Monte Carlo simulation. The aim in each case has been to explain clearly and concisely the implementation of the models using Excel. Although students will make extensive use of Excel, no prior experience is necessary. 4 lecture discussions. Prerequisite: FRL 301 and FRL 367.

FRL 406 Legal Environment of Labor Relations (4)

Application of labor and employment law in the United States. Legal rights and remedies available to labor unions, employees, and management. 4 lectures. Prerequisite: FRL 201.

FRL 407 Entrepreneurial Law (4)

A practical preventive law course emphasizing the legal consideration involved in small business planning, operation, and dissolution. Particular attention to liability of small business owners and managers, and the legal alternatives available to a financially-distressed business. 4 lectures. Prerequisite: FRL 201.

FRL 408 Law for Accountants (4)

Legal responsibilities of accountants; fundamental business law principles as applied in commercial transactions. The law of commercial paper, secured transactions, bankruptcy, agency, partnerships, corporations and securities. 4 lectures/problem-solving. Prerequisites: ACC 208 and FRL 201.

FRL 410 E-commerce Law (4)

Examination of intellectual property, torts, contracts, constitutional rights and issues, taxation, online signatures, online securities offerings, security, and computer crimes among cyberspace issues. Also reviewed will be the law perspective relative to set up an ebusiness. 4 lecture discussions. Prerequisite: FRL 201.

FRL 419 Legal Environment of Marketing (4)

Application of laws relevant to the marketing process and assessment of the legal problems growing out of marketing strategies. Hypothetical case analysis. 4 lecture discussions. Prerequisite: FRL 201 or IBM 301.

FRL 420 Financing Small Business (4)

Financial problems and strategies paramount to small firms. Various financing sources including venture capitals. Funding techniques and financial package evaluation. 4 lectures/problem-solving. Prerequisite: FRL 301.

FRL 426 Legal Aspects of International Business (4)

Legal factors affecting organizations involved in international business transactions. Sales, bills of exchange, patents, obligations and liabilities of cargo carriers, political risks, and credit insurance. 4 lecture discussions. Prerequisite: FRL 201.

FRL 433 Seminar in Portfolio Management and Capital Markets (4)

Developing and valuating alternative portfolio selection models for individual and institutional use. Examination of non-traditional investments. 4 seminars. Prerequisites: FRL 330.

FRL 440 Evaluation of Financial Policy (4)

A seminar course in finance utilizing comprehensive cases to simulate the role of the financial manager. 4 seminars. Prerequisite: Minimum

grade of "C" (2.0) or better in all of the following: ACC 207, ACC 207A, ACC 208A, ACC 208A, EC 201, EC 202, ENG 104 (or ENG 102 and ENG 103), FRL 201, FRL 300, FRL 301, STA 120, and FRL 367. Graduate credit not available.

FRL 441, 442 Internship in Finance (1-4) (1-4)

On-the-job training or internship with a business to gain new learning experience. Student submits periodic reports to faculty coordinator and receives one unit of credit for 120 hours of training. Four units of Internship in Finance can be applied to Group A. Total credit limited to 8 units in both classes. Prerequisite: permission of the FRL coordinator of internships. Graduate credit not available.

FRL 453 Multinational Financial Management (4)

Foreign exchange markets, foreign exchange risk management, multinational working capital management, foreign investment analysis and multinational capital budgeting, international diversification, cost of capital and capital structure of the multinational firm, political risk management, and international taxation. 4 lectures/problem-solving. Prerequisite: FRL 301.

FRL 460 Commercial Banking (4)

Functional and operational aspects of commercial banks. Emphasis on the principles and practices used in asset management, liability management, and liquidity management. Group analysis using case problems and/or computer simulations. 4 lecture discussions. Prerequisite: FRL 315.

FRL 461, 462 Senior Project (2) (2)

Selection and completion of a project under faculty supervision. Projects typical of problems which graduates must solve in their fields of employment. Formal report is required. Prerequisite: senior standing. Required minimum of 120 hours.

FRL 463 Seminar in Finance (4)

Study and discussion by students of recent developments in the student's major field. 4 lectures. Prerequisites: FRL 306, 315, 330, and senior standing.

FRL 470 Risk Management and Insurance (4)

Insurance and risk management for corporations, government, and individuals. Application of risk retention, loss control and insurance methods to life, health, liability, and property risks. Social insurance, auto and workers compensation, employment benefits, and pensions. 4 lectures/problem-solving.

FRL 483 Real Estate Market Analysis (4)

Analyze and collect urban economic and real estate data to prepare market demand studies for use in real estate investment analysis and feasibility studies for development projects. Satisfies educational requirement for the real estate broker's license. 4 lectures/problemsolving. Prerequisites: EC 201, EC 202, and FRL 306.

FRL 484 Real Estate Law (4)

Rights and liabilities surrounding the acquisition, possession, and transfer of real property: easements, deeds, zoning, mortgages, foreclosure, landlord and tenant relationships. Satisfies educational requirement for the real estate broker's license. 4 lecture discussions. Prerequisites: FRL 201 and FRL 306.

FRL 485 Practices and Applications of Real Estate Law (4)

Ethical and legal responsibilities of the real estate broker: listing agreements, structuring of transaction and escrow requirements. Analysis of common agreements, documents, and disclosure statements. Satisfies educational requirement for real estate broker's license. 4 lecture discussions. Prerequisite: FRL 201.

FRL 486 Real Estate Investment Analysis (4)

Techniques for analyzing real estate investments in post-development phase projects. Integration of market analysis, appraisal methods, real estate tax law and traditional financial analysis techniques to evaluate the risk-return characteristics of investment positions in real properties. Satisfies educational requirement for real estate broker's license. 4 lectures/problem-solving. Prerequisites: FRL 306.

FRL 490 Urban Land Development (4)

Examines processes of developing real properties of various types, emphasizing the approval process, site selection, market and feasibility studies, financial analysis, and project/building design. Applications through cases and/or other assignments. Satisfies educational requirement for the real estate broker's license. 4 lectures/problem-solving. Prerequisites: FRL 380.

FRL 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

INTERNATIONAL BUSINESS AND MARKETING

www.cba.csupomona.edu/ibm

Two subplans are offered in the International Business and Marketing Department, International Business and Marketing Management.

Jerry L. Kirkpatrick, Chair, International Business and Marketing

Dolores A. Barsellotti	Xin (Cindy) Liu
Frank Bryant	Jun Myers
Stephen C. Cosmas	Juanita P. Roxas
Helena Czepiec	Robert W. Schaffer
Tarique Hossain	James E. Swartz
Jing Hu	Sijun Wang
Jae Min Jung	Debbora T. A. Whitsor
Jorny I. Kirknotriak	

Jerry L. Kirkpatrick Richard Lapidus

MISSION STATEMENT

The mission of the International Business and Marketing Department is to prepare students for specialized careers in either international business or marketing management. This preparation gives both undergraduate and graduate students practical learning experiences in such courses as international marketing, marketing management, professional selling, advertising, buyer behavior, market research, retailing, industrial marketing, brand management, and transportation and distribution management. In addition, the mission of the Department is to give non-majors a solid foundation in the application of business principles to the marketing of goods and services in international and domestic markets. To achieve excellence in both teaching and course content for an increasingly diverse and multinational student body, the Department's faculty undertakes programs of basic research, applied scholarship, and instructional development; it also forges and maintains strong links with the business community, both local and global.

INTERNATIONAL BUSINESS SUBPLAN

The International Business subplan provides students a solid grounding in the principles of business management as well as interdisciplinary specialization in areas required to understand and react to today's globalized markets. The objectives of this subplan are twofold: to provide students with the business knowledge and skills essential for careers in international business; and to provide them with an understanding and appreciation of the culture, language, economics, politics, and history of other parts of the world, with particular emphasis on a geographic area in which the student has a special career interest. The curriculum requires completion of the business core which provides to all business majors a foundation in the theory and practice of modern business management. In addition, the International Business subplan requires completion of a minor in a functional area of business (e.g. accounting, finance, management, etc.) or, as an alternative to a minor in business, an option in International Studies directed electives or a foreign language.

Each student should work closely with the program advisor in identifying career goals and selecting course work most appropriate for goal attainment. The International Business subplan involves the completion of requirements in each of the following areas:

- 1. Core Courses in Major required of all Business majors
- 2. International Business required courses
- 3. Support and Elective courses
- 4. Functional Specialization
- 5. General Education

MICROCOMPUTER PROFICIENCY REQUIREMENT (see policy statement in College of Business Administration introductory section)

CORE COURSES FOR MAJOR

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.

Legal Environment of Business TransactionsFRLFinancial Accounting for Decision-MakingACCManagerial Accounting for Decision-MakingACCPrinciples of ManagementMHROrganizational BehaviorMHRPrinciples of Marketing ManagementIBMManagerial Finance IFRLManagerial Finance IIFRLManagement Information SystemsCISOperations ManagementTOMManagerial StatisticsTOMStrategic ManagementMHRor Strategic ManagementTOM	318 301 300 301 310 301 302	
SUPPORT COURSES REQUIRED OF ALL BUSINESS MAJORS		
Statistics with Applications . STA Introductory Calculus for Business . MAT Principles of Economics . EC Principles of Economics . EC Introduction to Microcomputing . CIS	120 125 201 202 101	(4) (4) (4) (4) (4)
INTERNATIONAL BUSINESS SUBPLAN REQUIRED COURSES		
Special Study for Lower Division Students (Section 02 for IB majors) IBM Principles of Global Business IBM International Marketing IBM International Exporting IBM Legal Aspects of International Business FRL Global Business Problems IBM	200 300 414 416 426 480	(2) (4) (4) (4) (4)

SUPPORT AND ELECTIVE COURSES

The number of elective units depends on whether or not STA 120 and EC 201 or EC 202 are used for General Education (see curriculum sheet for the subplan). If STA 120 is used for General Education, electives will be increased by four units. If EC 201 or EC 202 is used for General Education, electives will be increased by four units.

Electives (6-8 units)

Select 4 units of the following not used in Functional Specialization:

International Financial Markets FRL Multinational Financial Markets FRL International Comparative Management	353 453 451	(4) (4) (4)
Select an additional 2-4 units not used in Functional Specialization:		
Strategy in International MarketingIBM	415	(4)
International Logistics	429	(4)
International Business Agreements		
and Negotiation	436	(4)
International Business Cases: OperationsTOM	437	(4)
International Trade Theory and PolicyEC	404	(4)
Internship in MarketingIBM	441	(1-4)
(2-unit internship recommended)		
Consumer Behavior in the International Arena IBM	470	(4)
Economic GeographyGEO	312	(4)

FUNCTIONAL SPECIALIZATION

Students must complete any minor or at least 20 units within an approved area of study in the College of Business Administration or in a foreign language, international agricultural business management, economics, geography, anthropology, history, Latin American Studies, political science, or public administration.

UNRESTRICTED ELECTIVES (0-12 UNITS)

GENERAL EDUCATION REQUIREMENTS

(Required of all students)

Students should consult the catalog website www.csupomona. edu/~academic/catalog/ for current information regarding this requirement. See the list of approved courses under General Education Requirements, Areas A through E.

MINOR IN INTERNATIONAL BUSINESS

Students from both business and non-business majors/subplans who have an interest in pursuing careers related to international business may complete the Minor in International Business. The purpose of the minor is to provide sufficient knowledge and expertise in international business for students to successfully apply the specialties of their fields to international careers.

To enroll in the minor or for more information about it, see the International Business Minor Advisor. Students are responsible for meeting the requirements of the minor program in effect when the formal contract for the Minor in International Business is signed. The contract should be signed before coursework in the minor is begun.

The minor is comprised of required and directed elective courses. Most students already in the College of Business Administration will be able to take the required courses with at most one additional prerequisite course in addition to those required in their fields. Students from outside the College of Business Administration must complete a number of courses in Business and Economics before courses required in the International Business Minor can be taken, but may have satisfied the directed elective requirements through their degree major coursework.

Required Courses:

Principles of Microeconomics	201 202 300 301 414	(4) (4) (4) (4)
Select 8 units from the following:		
International Financial Markets FRL Strategy in International Marketing IBM International Exporting IBM Legal Aspects of International Business FRL International Business Agreements and	353 415 416 426	(4) (4) (4) (4)
Negotiation	436	(4)
International Business Cases: OperationsTOM	437	(4)
International Trade Theory and Practice EC	404	(4)
International Logistics	429	(4)
International Comparative ManagementMHR	451	(4)
Multinational Financial Markets	453	(4)
Consumer Behavior in the International Arena IBM	470	(4)
Global Business Problems	480	(4)

MARKETING MANAGEMENT SUBPLAN

The marketing management subplan is designed to give students an understanding of the factors both within the firm and in the external environment that affect the development and implementation of plans to serve the firm's markets and to attain the firm's economic goals. Emphasis is placed on determining market needs and decision-making concerning the product, pricing, promotion and distribution strategies required to meet those market needs.

Through proper selection of courses, with advisor approval, each student will develop and complete an individualized program of courses that will prepare him or her for a specialized career field within the field of marketing management. The specialized fields from which the student will choose are: (1) advertising/promotion, (2) international marketing, (3) marketing research, (4) general marketing, (5) retail management, (6) interactive management, (7) product/brand management, (8) entertainment/sports marketing, (9) e-commerce, and (10) professional selling/sales management.

MICROCOMPUTER PROFICIENCY REQUIREMENT (see policy statement in College of Business Administration introductory section)

CORE COURSES FOR MAJOR

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.

Legal Environment of Business Transactions FRL Financial Accounting for Decision-Making ACC Managerial Accounting for Decision-Making ACC Principles of Management MHR Organizational Behavior MARP Principles of Marketing Management IBM Managerial Finance I FRL Management Information Systems CIS Operations Management TOM Managerial Statistics TOM Strategic Management MHR	201 207/207A 208/208A 301 318 301 300 301 310 301 302 410	
or Strategic ManagementTOM SUPPORT COURSES Statistics with ApplicationsSTA Principles of EconomicsEC Principles of EconomicsEC Introduction to MicrocomputingCIS General PsychologyPSY	120 201 202 101 201	(4) (4) (4) (4)
MARKETING SUBPLAN REQUIRED COURSES Special Study for Lower Division Students (Section 01 for MKT majors)	200 320 408 414 411 421	(2) (4) (4) (4) (4) (4)
Plus a minimum of 22 units of courses with advisor appr	oval	. (22)

SUPPORT AND ELECTIVE COURSES

The number of elective units depends on whether or not STA 120 and EC 201 or EC 202 and PSY 201 are used for General Education (see curriculum sheet for the subplan). If any of these courses are used for General Education, electives will be increased by four units per course up to the unit maximum of 12.

UNRESTRICTED ELECTIVES (0-16 UNITS)

GENERAL EDUCATION REQUIREMENTS

(Required of all students)

Students should consult the catalog website www.csupomona. edu/~academic/catalog/ for current information regarding this requirement. See the list of approved courses under General Education Requirements, Areas A through E.

QUANTITATIVE RESEARCH MINOR

The Quantitative Research Minor is an interdisciplinary program which can be taken by students majoring in any field other than Mathematics. Its purpose is to prepare students to conduct quantitative analysis in their chosen discipline. Students acquire practical experience using statistics, principles of experimental design, survey and data analysis techniques. This minor is particularly suited for students in the Marketing subplan. A full description of this minor is included in the "University Programs" section of this catalog.

MINOR IN MARKETING MANAGEMENT

Students enrolled in other academic programs, especially those outside of the College of Business Administration, may broaden their intellectual base and increase their opportunities for employment by completing an academic minor in Marketing Management. This minor is designed to supplement student studies in other major fields. Many non-business majors find opportunities for application of the knowledge and academic preparation they have obtained in their major field in the marketing of goods, services, and ideas where a knowledge and understanding of marketing principles and practices is a prerequisite for success.

It is possible for students majoring in most other fields to complete the minor in marketing management within the normal requirements of their degree through careful planning and scheduling of their required courses.

The attainment of a minor in Marketing Management is accomplished by appropriate selection, timely scheduling and satisfactory completion of specifically designated courses and electives totaling a minimum of 24 quarter units as outlined below:

Required courses for Business majors:		
Principles of Economics	201 or 202	4
and completion of 20 units from list of courses below.		

Required courses for non-business majors: 201 or 202 4 Principles of Marketing Management IBM and completion of 16 units from list of courses below.

Select 16 or 20 units, depending on major, from the following list of courses:

Marketing Strategy Professional Selling Integrated Marketing Communication Retail Management Field Sales Management	IBM IBM IBM	302 306 307 308 310	(4) (4) (4) (4)
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Marketing of Services IBM Interactive Marketing IBM Sales Promotion IBM Special Study for Upper Division Students IBM Product and Brand Management IBM Electronic Commerce IBM Advertising Management IBM Ethical Issues in Marketing IBM Industrial Marketing IBM Marketing Research I IBM Marketing Research I IBM Marketing For Small Business Organizations IBM Buyer Behavior IBM International Marketing IBM Strategy in International Marketing IBM International Exporting IBM Legal Environment of Marketing IBM International Logistics IBM Management of Marketing IBM International Logistics IBM Management of Marketing Channels IBM Evaluating Advertising Effectiveness IBM International Business Agreements and Negotiations IBM Internship in Marketing IBM IBM Retailing Problems IBM IBM Retailing Problems IBM IBM IBM Retailing Problems IBM	326 327 400 402 403 405 406 407 408 409 410 411 414 415 416 419 421 429 431 433 435 436 441 443 447	(4) (4) (2) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
Retailing Problems	447 470 491 492	(4) (4) (4) (4)
Special Topics for Upper Division Students IBM	499	(4)

MINOR IN FASHION MERCHANDISING

This interdisciplinary minor is designed for students who seek careers in the fashion industry. The minor provides students with a background in both fashion and business to better prepare them to seek employment in manufacturing or retailing. The minor in Fashion Merchandising is administered jointly by the Department of International Business and Marketing and the College of Agriculture.

The attainment of a minor in Fashion Merchandising is accomplished by appropriate selection, timely scheduling and satisfactory completion of specifically designated courses and electives totaling a minimum of 35 quarter units as follows:

Completion of the following courses is required:

Apparel Design Analysis Fashion Industry Apparel Importing and Exporting Principles of Marketing Management Marketing Internship Select two courses from Group A Select two courses from Group B or C	AMM AMM IBM IBM		
GROUP A			
Culture, People, and Dress Fashion Promotion Apparel Product Analysis	AMM	230	(4)
GROUP B			
Professional Selling	IBM	306 308 447	(4) (4) (4)

GROUP C

Principles of Global BusinessIBM	1 300	(4)
International Marketing ManagementIBM	1 414	(4)
International Marketing of Food and		
Fiber ProductsIA/A	ABM 330	(4)
Strategy in International MarketingIBN	1 415	(4)

COURSE DESCRIPTIONS

IBM 200 Special Study for Lower Division IB and MKT Students (1-2)

Individual or group investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter. IBM 200-01 is for MKT students; IBM 200-02 is for IB students.

IBM 299/299A/299L Special Topics for Lower Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

IBM 300 Principles of Global Business (4)

Introduction to business, globalization, country differences, theories of international trade and investment, monetary systems and foreign exchange. Presentation of the roles of various functional areas in a business firm, impact of international trade and economic development. 4 lecture discussion.

IBM 301 Principles of Marketing Management (4)

Principles, concepts, and institutions involved in facilitating the exchange of goods and services. Analysis of markets, the marketing environment, and the marketing variables of product, price, promotion, and distribution. Introduction to marketing strategy and international marketing. Ethical issues. Computer applications. 4 lecture discussions.

IBM 302 Marketing Strategy (4)

Analysis, planning, implementation and control of marketing strategy. Target market, product, distribution, promotion, and pricing decisions necessary to accomplish the firm's objectives. Emphasis on application of analytical techniques to improve decision-making in a dynamic marketplace. 4 lecture discussions. Prerequisite: IBM 301.

IBM 306 Professional Selling (4)

Focus on professional selling within the context of relationship marketing. Emphasis on precision selling process. Team presentations. 4 lecture/problem-solving. Prerequisite: IBM 301.

IBM 307 Integrated Marketing Communication (4)

Fundamentals of marketing communication. Promotional strategy development: advertising messages and media, personal selling, sales promotion, publicity, packaging, branding, and display. Promotional budgets. Development of communication strategies for new product, industrial, retail, and services marketing. 4 lecture discussions. Prerequisite: IBM 301.

IBM 308 Retail Management (4)

Examination and evaluation of changing concepts of retailing from a management viewpoint. Philosophy of modern management and measures of retail productivity. Individual student field projects. 4 lectures/problem-solving. Prerequisite: IBM 301.

IBM 310 Field Sales Management (4)

Analysis of the field sales manager as a professional marketing tactician in a marketing-oriented firm. Emphasis on both theoretical and applied approaches to effectively managing a field sales force. 4 lecture discussions. Prerequisite: IBM 301.

IBM 316 Marketing of Services (4)

Concepts, practices, and development of strategies involved in marketing of services. External environmental and internal control factors as applied to professional, financial, educational, entertainment, health care, governmental, religious, research, media, and other organizations, institutions, and/or agencies. 4 lecture discussions. Prerequisite: IBM 301.

IBM 320 Market Analysis and Control (4)

Market identification and diagnosis. Market analysis based on available data; applications for planning and control. Extensive use of computer models, with emphasis on current microcomputer software application packages. 4 lectures/problem-solving. Prerequisites: IBM 200, IBM 301, STA 120.

IBM 326 Interactive Marketing (4)

Role of interactive marketing in marketing strategy to gain a competitive advantage. Exploration of all forms and uses by entrepreneurs, manufacturers, wholesalers, retailers, politicians, not-for-profit and service organizations. 4 lectures problem-solving. Prerequisite: IBM 307.

IBM 327 Sales Promotion (4)

Role of sales promotion in marketing strategy. Study of numerous incentives designed to increase sales or achieve other specific marketing objectives directed toward sales force, intermediaries, and consumers. Design of sales promotion plans. 4 lecture discussions. Prerequisite: IBM 301.

IBM 400 Special Study for Upper Division Students (1-2)

Individual or group investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

IBM 402 Product and Brand Management (4)

Planning, implementation, and control of marketing strategy for a specific product, product line, or brand. Analysis of market needs and the macro-environment; developing marketing plans involving product, price, promotion, and distribution decisions to market a specific product or brand. 4 lecture discussions. Prerequisite: IBM 301.

IBM 403 Electronic Commerce (4)

Study of the Internet, its culture and procedures from a marketing perspective. Using the Internet for customer contact, customer service, order-taking, and marketing research. Promotion and distribution considerations. Issues in the creation of successful WWWsites. On-line experience and projects with real organizations. 4 lectures/problem-solving. Prerequisite: IBM 301.

IBM 405 Advertising Management (4)

Integrated Brand Communications Management. This course focuses on the strategic aspects of integrated brand communications. Content includes: the concept of brands, marketing communication tools, campaign strategy, creating customer loyalty, creating customer value, and campaign evaluation. Lecture-discussion, case analysis and discussion, written projects, and oral presentations. Prerequisite: IBM 307.

IBM 406 Ethical Issues in Marketing (4)

The morality and immorality of modern marketing practices. Ethical theories as applied to such marketing-related issues as bribery, marketing to countries engaging in morally questionable practices, deceptive advertising, and invasion of privacy. 4 lectures/problem-solving. Prerequisites: IBM 301.

IBM 407 Industrial Marketing (4)

Study of the environment in which industrial products are marketed to industrial firms, governments and institutions. Emphasis on industry structure, government and industrial buying behavior as each affects product, pricing, promotion and distribution decisions. Analysis of specific case problems. 4 lectures/problem-solving. Prerequisite: IBM 301.

IBM 408 Marketing Research I (4)

Theoretical and analytical foundations of marketing research. Topics covered include analysis of internal and external secondary data, marketing software packages, approaches to primary research, and research applications to marketing problems. 4 lectures/problemsolving. Prerequisites: IBM 320 and TOM 302.

IBM 409 Marketing Research II (4)

The research process as an aid to decision-making in marketing. Application of techniques in research design, data collection, sampling, computer-aided data analysis, and report writing to contemporary marketing research problems. 4 lectures/problem-solving. Prerequisite: IBM 408.

IBM 410 Marketing for Small Business Organizations (4) (formerly MKT 404)

Methods by which a small business organization with limited resources can analyze the profit opportunities within its market area. Special emphasis on developing and evaluating a written marketing plan for a small business organization. 4 lectures/problem-solving. Prerequisite: IBM 301.

IBM 411 Buyer Behavior (4)

Various factors that affect the consumer during the pre-purchase, purchase, and post-purchase decision-making process. Emphasis upon a thorough understanding of the consumer to facilitate the development of effective marketing strategy. 4 lecture discussions. Prerequisite: IBM 301 and PSY 201.

IBM 414 International Marketing Management (4)

Planning and organizing for international marketing operations. Distinctive characteristics, environmental influences, and emerging trends in overseas markets. Management practices and problems of adapting American marketing concepts and methods. 4 lecture discussions.. Prerequisite: IBM 301.

IBM 415 Strategy in International Marketing (4)

Alternative methods and strategies in the decision areas of product development, promotional programs, distribution channel determination, and pricing. Opportunities, key issues, and applications to ensure a firm's survival and success in the international arena. 4 lectures/problemsolving. Prerequisite: IBM 414.

IBM 416 International Exporting (4)

Principles, strategies, and mechanics of exporting to foreign nations. Political, legal, cultural, and economic environments affecting export

operations. Corporate programs and policies, involvement levels, financing, pricing, promotion, and distribution strategies. Latin America, European Community, Pacific Rim specifics. Import trade mechanics. 4 lecture discussions. Prerequisite: IBM 414.

IBM 421 Marketing Problems (4)

Application of marketing theory to contemporary marketing problems. Emphasis on the techniques of successful marketing decision-making. A problems approach to developing student's ability to integrate all major areas of marketing. 4 lectures/problem-solving. Prerequisites: IBM 408, and 411.

IBM 429 International Logistics (4)

Integration of cultural, functional and strategic aspects of global logistics. Ocean, air and surface carriers and systems, international sourcing, financial aspects of sales and payments, roles of government and intermediaries, infrastructure issues. Logistics as a tool for integrative international operations. 4 lecture discussions. Prerequisite: IBM 301.

IBM 431 Management of Marketing Channels (4)

Development, design, selection, and administration of marketing channel systems. Sources and resolution of channel conflicts. Channel relationships, communication, functional performance, and strategy planning. Analysis of selected case problems. 4 lecture discussions. Prerequisites: IBM 301.

IBM 433 Evaluating Advertising Effectiveness (4)

Development of criteria to analyze the strategic and creative elements of advertising campaigns. Application of criteria to judge effective versus ineffective advertising in all major media: magazine, newspaper, outdoor, radio, and television. Production of a 30-second television commercial. 4 lectures/problem-solving. Prerequisites: IBM 307, IBM 411.

IBM 435 Advanced Professional Selling (4)

Analysis of the sales representative as a professional marketing tactician in a market-oriented firm. Emphasis on applied and theoretical approaches utilized to effectively manage a sales territory. Analysis of sales representatives in different industries. 4 lectures/problem-solving. Prerequisite: IBM 306.

IBM 436 International Business Agreements and Negotiation (4)

Integrating perspectives from various fields of study contributing to international agreements and the negotiating process. Exploring insights and applications related to business agreements, diplomacy, and negotiation of strategies in marketing/selling situations. 4 lectures/problem-solving. Prerequisite: IBM 414.

IBM 441, 442 Internship in Marketing (1-8) (1-8)

Faculty-supervised on-the-job educational experience in the real-world marketing management environment. Allocation of unit credit is dependent upon the nature of the work done, the level of responsibility, and the number of hours worked. Total internship credit limited to 16 units. Prerequisite: permission of departmental internship coordinator.

IBM 443 Advertising Media Analysis and Planning (4)

Principles and practices of advertising and media analysis and planning. Strengths and weaknesses of media alternatives, budgeting procedures, media-client planning, and buying interaction, negotiation with media

sales personnel. 4 lectures/problem-solving. Prerequisites: STA 120 and IBM 307.

IBM 447 Retailing Problems (4)

Application of marketing theory to contemporary retailing problems. Identification of potential markets and development of effective research techniques in retail organizations. Integration of current marketing plans and strategies with the techniques of successful retail decision-making. 4 lectures/problem-solving. Prerequisite: IBM 308.

IBM 461, 462 Senior Project (2) (2)

Selection and completion of a project under faculty supervision. Projects typical of problems which graduates must solve in their fields of employment. Formal report is required. Prerequisite: senior standing. Required minimum of 120 hours. Non-Marketing majors only.

IBM 470 Consumer Behavior in the International Arena (4)

A cross-cultural examination of consumption behavior across international boundaries. This course will study the contradictions in cultural values and behavior that affect purchase, and how marketers adjust their strategies to accommodate. 4 lectures/problem solving. Prerequisites: IBM 301, IBM 411.

IBM 480 Global Business Problems (4)

Capstone course integrating international marketing, international finance, and international management strategy into an overall international business strategy. Prerequisites: IBM 300, IBM 414; completion of or concurrent enrollment in MHR 410 or TOM 411.

IBM 491 Marketing the Movies (4)

An overview of the business of cinema. Product budgeting and planning, distribution strategies, target market analysis, research prior to, during, and after launch, promotional considerations, product placement and coop challenges, advertising the product, international issues, the after market including home, retail and cable/satellite release. Major project involving a leading film studio. 4 units. Lecture/problem-solving. Prerequisites: Upper division standing; IBM 307.

IBM 492 Sports Marketing (4)

An analysis into the \$400 billion industry of sport in the United States from a marketing management perspective. The evolution of the business of sport, the rise of marketing, marketing strategies and principles as applied to various forms of sport, promotional considerations. The relationship among the integrated marketing communications team, including sales management, marketing management, public and community relations, employing both direct and indirect forms of messaging. Major project involving a leading sports organization. 4 units. Lecture/problem-solving. Prerequisites: Upper division standing; IBM 307.

IBM 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

For a complete list of remaining courses in the International Business Subplan, please refer to the catalog listings under the appropriate departments.

MANAGEMENT AND HUMAN RESOURCES

www.cba.csupomona.edu/mhr

Cheryl R. Wyrick, Chair

Stanley C. Abraham	LianLian Lin
Jeanne A. Almaraz	Ed Ng
James C. Bassett	Olukemi O. Sawyerr
Deborah V. Brazeal	Nirmal K. Sethia
Cedric Dawkins	Mansour Sharifzadeh
Kevin Farmer	Shanthi Srinivas
Carlos B. Gonzalez	Lynn H. Turner
Carol L. Jones	Gail R. Waters

MISSION STATEMENT

The department's mission is consonant with and supportive of the College of Business Administration mission statement. With its special emphases on teaching undergraduates and focusing on applied research and instructional development, the MHR Department also seeks prominence within domestic and international communities in teaching and life-long learning.

The teaching strengths of the department's faculty, which are embedded in the courses, include the capacity for critical thinking, skills for working with people, ability to respond creatively to changes, making ethical choices, managing diversity, strategic management, and applying the theories and concepts learned to design practical and innovative solutions. These strengths address leading-edge knowledge and education.

This subplan provides students with the opportunity to pursue an emphasis in one of several areas: general management, entrepreneurship and small business management, human resources management and not-for-profit management.

Department advisors strive to provide programs that meet the educational needs of students who have the following career goals:

- 1. General manager in a private or public organization of any size.
- Manager of a small or medium-sized business. (This program is designed specifically for people who plan to own and operate their own businesses.)
- Human resources or personnel manager in a private or public organization.
- 4. Manager of a not-for-profit organization.

All department programs are designed to provide maximum flexibility in selecting an area of specialty. For example, a freshman can pursue the department curriculum for two years before making a career goal decision. In fact, after two years of study, the student can change to any of the business administration subplans without loss of academic credits. It is important that students entering Cal Poly Pomona for the first time seek the help of an advisor to ensure that their individual programs are in their own best interest.

MICROCOMPUTER PROFICIENCY REQUIREMENT (see policy statement in College of Business Administration introductory section)

CORE COURSES FOR MAJOR

Required of all business majors. A 2.0 cumulative GPA is required in core courses including concentration courses for the major in order to receive a degree in the major.

Legal Environment of Business Transactions FRL Financial Accounting for Decision-Making .ACC Managerial Accounting for Decision-Making .ACC Principles of Management .MHR Principles of Marketing Management .IBM Managerial Finance I .FRL Managerial Finance II .FRL Management Information Systems .CIS Operations Management .TOM Managerial Statistics .TOM Organizational Behavior .MHR Strategic Management .MHR or Strategic Management .TOM	201 207/207A 208/208A 301 300 301 310 301 302 318 410 411	
SUPPORT COURSES REQUIRED OF ALL BUSINESS MAJORS		
Statistics with Applications STA Introductory Calculus for Business MAT Principles of Economics EC Principles of Economics EC	120 125 201 202	(4) (4) (4) (4)
MHR REQUIRED COURSES		
Human Resources Management .MHR Introduction to Entrepreneurship .MHR Communication for Management .MHR Emerging Issues in Management .MHR	311 320 324 452	(4) (4) (4) (4)
Select four (4) units from:		
Internship in Business ManagementMHR OR Senior Project	441, 442 461, 462	(1-4) (2)(2)
OTHER COURSES TO COMPLETE SUBPLAN		
One career-goal elective program selected with approval of advisor		. (32)

UNRESTRICTED ELECTIVES (0-8 UNITS)

GENERAL EDUCATION REQUIREMENTS

(Required of all students)

Students should consult the catalog website www.csupomona. edu/~academic/catalog/ for current information regarding this requirement. See the list of approved courses under General Education Requirements, Areas A through E.

MINORS IN MANAGEMENT AND HUMAN RESOURCES

The Management and Human Resources Department offers the following minors. The purpose of these minors is to develop marketable skills in one's chosen field. Also, those students majoring in fields such as engineering or science may wish to develop adjunct skills that may prove to be complementary to their major course of study. Please see the Minors Coordinator, Management and Human Resources Department, if you are interested in enrolling in one of these minors. Students should formally enroll in the minor before taking any courses in the minor. See Department Chair for details.

MINOR IN GENERAL MANAGEMENT

This minor provides students with an opportunity for a broader course of study in business and management.

Required	Courses	(21	units)	١

Financial Accounting for Decision-MakingACC	207/207/	A (4/1)
Principles of Management	301	(4)
Organizational Behavior	318	(4)
LeadershipMHR	450	(4)
International Comparative Management MHR	451	(4)

Electives—Select one course (4 units) from the following:*

First-line ManagementMHR	313	(4)
Management for Non-for-Profit Organizations MHR	319	(4)
Introduction to Entrepreneurship	320	(4)
Communication for ManagementMHR	324	(4)
Training and Development	405	(4)
Strategies for Men and Women in Management . MHR	406	(4)
Advanced Organizational Behavior MHR	438	(4)
Emerging Issues in ManagementMHR	452	(4)

^{*}Students with a concentration in International Business need to take an additional 12 units from the lower list to fulfill the requirements for their functional specialization.

MINOR IN HUMAN RESOURCES MANAGEMENT

This minor provides students with an opportunity to develop their capability to manage other employees and provides introductory background in the human resource/personnel field.

Required Courses (20 units):

Human Resources Management	311	(4)
Staffing-Planning, Recruiting & SelectionMHR	411	(4)
Employee Compensation PlansMHR	413	(4)
Human Resources Information Mgmt MHR	415	(4)
Employee Benefits and ServicesMHR	416	(4)

Electives—Select one course (4 units) from the following:

Principles of Management	.MHR	301	(4)
Organizational Behavior	.MHR	318	(4)
Training and Development	.MHR	405	(4)
Strategies for Men and Women in Management .	.MHR	406	(4)
Management Union Relations	.MHR	421	(4)
Emerging Issues in Management	.MHR	452	(4)

MINOR IN ENTREPRENEURSHIP AND SMALL BUSINESS MANAGEMENT

This minor provides students with an introductory background needed to start and operate a small business.

Required Courses (20 units):

Introduction to Entrepreneurship	R 320	(4)
Creativity and EntrepreneurshipMH	R 321	(4)
Creating a Business Plan	R 423	(4)
Emergent Ventures	R 425	(4)
Family Business	R 427	(4)
•		

Electives—Select one course (4 units) from the following:

Electives—Select one course (4 units) from the following:		
Fundamentals of Real Estate	306	(4)
Legal Environment of Business Transactions FRL	201	(4)
Financing Small BusinessFRL	420	(4)
Professional Selling	306	(4)
Principles of Management	301	(4)
Organizational Behavior	318	(4)

Management for Not-for-profit OrganizationsMHR	319	(4)
Internet EntrepreneurshipMHR	428	(4)
Advanced Organizational Behavior MHR	438	(4)
LeadershipMHR	450	(4)
Financial Accounting for Decision-Making ACC	207/207/	4 (4/1)
Managerial Accounting for Decision-Making ACC	208/208/	4(4/1)

COURSE DESCRIPTIONS

MHR 200 Special Study for Lower Division Students (1-2)

Individual or group investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

MHR 201 Leveraging Yourself Toward MHR Careers (2)

This course is designed for students new to MHR. It includes research and discussion of MHR options and careers, self-assessments in relation to career decisions, navigation of the MHR program, and the development of both an academic career plan and the creation of a co-curricular portfolio, which may grow to include campus involvement opportunities, internships, personal development, and international work/study. 2 lectures.

MHR 299/299A/299L Special Topics for Lower Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination. Prerequisite: Permission of instructor

MHR 301 Principles of Management (4)

Survey of the history of management and review of significant management literature. Practical applications of management theories to problems in planning, organizing, and controlling business activity. Ethical considerations. 4 lecture discussions.

MHR 311 Human Resources Management (4)

Establishment of human resources objectives and requirements in the organization. Recruiting, testing, interviewing, screening, and selection of employees. Employee counseling, training, development, promotion, recreation, insurance, and retirement programs. Case studies. 4 lecture discussions. Prerequisite: MHR 301.

MHR 313 First-line Management (4)

Analysis of the unique position of the supervisor in complex organizations; the application of theory and practice in solving problems and ethical considerations at the first level of management. 4 lectures/problem-solving.

MHR 318 Organizational Behavior (4)

Introductory experiences in the basics of organizational behavior. Organizational socialization, teamwork leadership, group dynamics, problem-solving, and ethics as they apply to the manager in a multicultural economic and political environment. 4 lecture discussions. Prerequisite: junior standing.

MHR 319 Management of Not-for-Profit Organizations (4)

Methods, theory, and institutional knowledge for managing not-for-profit organizations. Problems and issues in policy, organization, program, personnel, and budget unique to not-for-profit organizations. 4 lecture discussions.

MHR 320 Introduction to Entrepreneurship (4) (formerly MHR 306)

An introduction to the characteristics of an entrepreneur and the knowledge required to start a business. Exploration of resources and support available to the entrepreneur. Students develop a business opportunity-assessment, focusing on industry, product/service, competition, target market, and location. 4 lecture/problem-solving. Prerequisite: ENG 104.

MHR 321 Creativity and Entrepreneurship (4) (formerly MHR 426)

Exploring techniques and exercises to facilitate the creative thinking process. How to realize and nurture an entrepreneurial mindset to perceive opportunities. Designing an innovation with the potential for commercialization. An integration of financial analysis with opportunity recognition. 4 lectures/problem-solving.

MHR 324 Communication for Management (4)

Basic communications objectives of organizations. Types of communication used for decision-making, their nature, capabilities, and limitations. Using computers for communications. Practice in improving written communications, using the approved style manual. Presentations. 4 lectures/problem-solving. Prerequisite: ENG 104 and microcomputer proficiency.

MHR 400 Special Study for Upper Division Students (1-2)

Individual or group investigation, research, studies, or surveys of selected problems. Total credit limited to 4 units, with a maximum of 2 units per quarter.

MHR 401 Career Design (2)

This course combines lectures, exercises, and individual assignments to teach principles and practical tools for sorting out career options, developing professional skills and developing a personalized plan for the future. Prerequisites: MHR 201, MHR 311, MHR 320, MHR 324.

MHR 405 Training and Development (4)

Theory and applications of employee training and development. How rapid changes in technology, market conditions, and business practices make training a growing management function. Determining training needs, selecting methods, planning programs, and evaluating results. 4 lectures/problem-solving. Prerequisite: junior standing.

MHR 406 Men, Women, and Management (4)

Attitudes regarding male/female roles in management positions discussed in seminar and small group format. Current literature, popular and scholarly, reviewed and evaluated. Three short papers required on current issues. 4 seminars.

MHR 409 Business Education Management (4)

Methods and techniques for stimulating enthusiasm for learning in teaching business courses. Course and lesson design, and presentations for office education courses in keyboarding, word processing, computer applications, etc. Preparation for becoming professional business educators. 4 lectures/problem-solving.

MHR 410 Strategic Management (4)

Seminar in strategy formulation and implementation. A capstone experience integrating all business functions and requiring evaluation of strategic outcomes from ethical as well as economic viewpoints. Case analysis and computer-simulation or computer-based analysis. 4 seminars. Prerequisites: ACC 207/207A, ACC 208/208A, MHR 301, MHR

318, IBM 301, FRL 201, FRL 300, FRL 301, CIS 310, TOM 301, and TOM 302.

MHR 411 Human Resources Staffing, Planning, Recruiting and Selection (4)

Theory and practical applications in organizational planning, recruiting and selection processes and systems used in staffing organizations. This course will cover multiple tools, techniques and activities important to matching organizational human resources requirements and specifications with applicant abilities and motivations. 4 lecture presentations. Prerequisites: MHR 311.

MHR 412 Managing Career Development (4)

Career development issues such as the assessment of potential career tracks, transition from academia, career strategies and obstacles, personal and organizational value conflicts, dual career marriage and the price of success. 4 lecture presentations. Prerequisites: MHR 318

MHR 413 Employee Compensation Plans (4)

The goals and external/internal organizational considerations that affect planning and administering compensation in organizations. Evaluation of race and sex discrimination in pay, and comparable job worth. Job evaluation, performance appraisal systems, and gainsharing. 4 lecture presentations. Prerequisite: MHR 311.

MHR 415 Human Resource Information Management (4)

Emerging approaches to the management of human resources information in hiring, compensation/benefits, skills inventory, employee records, and training. Automated and manual systems compared. Student presentations on proposed and operational human resource information systems. Microcomputer exercises and 4 lectures/problem-solving. Prerequisite: MHR 311.

MHR 416 Employee Benefits and Services (4)

In-depth examination of policy and design of important economic security plans for protecting employees against on-the-job accidents; prepayment, health maintenance, and preferred provider coverages; structure and implementation of pre-retirement and retirement plans administered by human resource managers. 4 lecture presentations. Prerequisite: MHR 311.

MHR 421 Management Union Relations (4)

Development of management-union relations in the United States: the continuously changing roles and relationships of labor, management, and government through collective bargaining, arbitration, and legislation. Review of trends affecting productivity and the labor force. 4 lecture discussions. Prerequisite: MHR 311 or HRT 350.

MHR 422 Policy for International Management (4)

Seminar in the application and development of policy for international business management. Analysis of international management practices and problems using the case study approach. 4 seminars.

MHR 423 Creating A Business Plan (4) (formerly MHR 308)

Development of a business plan, including managerial philosophies and capabilities for a new business. Learning to integrate financials, marketing and operations for a new business. Identifying growth industries in the new millennium, with special attention to Southern California economy. 4 lectures/problem-solving. Prerequisites: MHR 320 or EBZ 306.

MHR 425 Emergent Ventures (4)

Managerial knowledge, skills and capabilities needed for rapidly growing or emergent businesses. Identifying the growth industries, products and services with highest potential for southern California's 21st Century. Managing the problems of growing companies including the transition from entrepreneurial to professional management. 4 lectures/problem-solving. Prerequisite: MHR 320 or EBZ 306.

MHR 427 Family Business (4)

Business, personal and interpersonal issues associated with family-owned/managed firms are explored; competitive strengths/weaknesses in family-owned firms, dynamics of family interactions and the business culture; conflict resolution; estate planning, planning for succession. 4 lecture presentations.

MHR 428 Internet Entrepreneurship (4)

A study of start up Internet (dot-com) companies. This process will begin with an economically beneficial business opportunity and will proceed through the process of concept development, business plan, website development, financial plan, and investment support. Emphasis will be placed on case analysis of eBusiness failures as well as successful ventures. 4 lectures/problem-solving. Prerequisite: MHR 320 or EBZ 306, and microcomputer proficiency.

MHR 438 Advanced Organizational Behavior (4)

Application of human processes used to achieve goals in the organization. Group experiences whereby students gain insights into their own leadership styles, integrate their styles with managerial functions and the organization. Case studies, problem-solving exercises, and complex organizational simulations. 4 lectures/problem-solving. Prerequisite: MHR 318.

MHR 441, 442 Internship in Business Management (1-8) (1-8)

On-the-job training in business management involving new, collegiate-level learning experiences. Prerequisite: consent of internship coordinator.

MHR 450 Leadership (4)

Experiences and discussions involving the complexity of leadership. A study and survey of the history and progression of leadership research for gaining awareness of the challenges of leadership. A non-traditional approach to learning leadership concepts by simulating actual experiences. 4 lecture discussions. Prerequisite: Minimum grade of C (2.0) in ENG 104.

MHR 451 International Comparative Management (4)

From a comparative perspective, exploring opportunities and challenges facing multinational companies, the role of culture in international management, social responsibility and ethics under international context, cross-border strategy development, global coordinating and monitoring systems, and global workforce management. 4 lecture presentations. Prerequisite: MHR 301.

MHR 452 Emerging Issues in Management (4)

Exploration of contemporary issues; cases and problems facing management in multicultural and international environments. Examination of the environment of business in a global economy with specific emphasis on business-government relations, ethics, and managing for the future. 4 lecture presentations. Prerequisite: senior standing.

MHR 461, 462 Senior Project (2) (2)

Selection and completion of a project under faculty supervision. Projects typical of problems which graduates must solve in their fields of employment. Formal report required. Prerequisite: senior standing. Courses are to be taken concurrently. Required minimum of 135 hours.

MHR 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

TECHNOLOGY AND OPERATIONS MANAGEMENT

www.cba.csupomona.edu/tom

Henry C. Co, Chair

William J. Cosgrove John Knox
Kazem Darbandi Arundhati Kumar
Jeffery L. Guyse Rhonda L. Rhodes
Abolhassan Halati Xiaohui Xu
Yuanjie He Wenge Zhu

The operations function of a business is responsible for planning, coordinating, and supervising the production and distribution of the services and goods provided by the organization. The student in the Technology and Operations Management subplan will learn the concepts and skills needed to manage the operations function and to help business achieve continuous improvement in productivity and in the quality of services and goods produced.

MISSION STATEMENT

The Technology and Operations Management Department aims to provide an education to its students that will enable them to become successful managers in the business world of the 21st century. Through its curriculum, the department concentrates on helping students develop competencies in critical thinking, technical and business integration skills.

To prepare students for managerial positions in the 21st century, the department focuses on the role of technology and scientific management methods. Heavy emphasis is placed on the study of computer applications for helping managers plan, analyze information, make decisions, and communicate,

SPECIALIZATIONS

The subplan prepares the graduate for careers managing service and manufacturing operations in small and large companies, national and international businesses, not-for-profit institutions, and government. Students in the Technology and Operations Management subplan are provided a broad background to the field, after which they choose one of the following areas of specialization:

Production Management

The Production Management area of emphasis focuses on manufacturing operations, although many of the skills learned are applicable in a non-manufacturing environment. The production function of an organization includes a number of career specialties such as: production planning and control, purchasing, materials management, inventory control, project and program management, quality management, facilities design and layout, work methods improvement, production systems analysis, the scheduling of production processes, and the delivery of goods and services.

Service Operations Management

The Service Operations Management area of emphasis focuses on the improvement of service organizations through the understanding of business strategies, processes, technology, and change. The subjects which make up the core of this area are: operations analysis and problem-definition, computer-aided decision-making, project management, quality management, forecasting, capacity planning, and scheduling. Heavy emphasis is placed on the design, presentation, and communication of information using the computer.

Supply Chain Management

A Supply Chain is a network of facilities that procure raw materials, transform them into intermediate goods and then final products, and deliver the products to customers through a distribution system. Supply Chain Management is the management of flow of materials, information, and funds across the entire supply chain. Students in this area will develop knowledge of important business processes such as customer relationship management, customer service management, demand management, order fulfillment, service and manufacturing flow management, supplier relationship management, returns management, and business information flow processes.

Management of Technology

The Management of Technology area of emphasis focuses on the planning, development, and implementation of technological capabilities. Coursework in this area will provide students with an integrated view of the principal aspects of technology management. Students will gain knowledge and skills in the following core areas: identification and evaluation of technological operations, implementation of new technologies, management of information technology, management of collaborative research, and management of technology-transfer activities.

MICROCOMPUTER PROFICIENCY REQUIREMENT

(See policy statement in College of Business Administration introductory section)

CORE COURSES FOR MAJOR

Required of all business majors. A 2.0 cumulative GPA is required in core courses including concentration courses for the major in order to receive a degree in the major.

Legal Environment of Business Transactions Financial Accounting for Decision-Making ACC Managerial Accounting for Decision-Making ACC Principles of Management MHR Organizational Behavior Managerial Finance I Managerial Finance I FRL Managerial Finance II FRL Management Information Systems CIS Operations Management TOM Managerial Statistics TOM Strategic Management MHR or Strategic Management TOM	208/208A 301 318 301 300 301 310 301 301 302	
SUPPORT COURSES REQUIRED OF ALL BUSINESS MAJORS		
Introduction to Microcomputing .CIS Statistics with Applications .STA Introductory Calculus for Business .MAT Principles of Economics .EC Principles of Economics .EC TECHNOLOGY AND OPERATIONS MANAGEMENT COURSES	101 120 125 201 202	(4) (4) (4) (4) (4)
B		

Required of all Technology and Operations Management students:

Management Science		315 332	(4) (4)
Quality Management		401	(4)
E-business-Enabled Supply			
Chain ManagementE	BZ	304	(4)

Specialization Electives

A minimum of seven courses (28 units) are to be selected from one of the four TOM Career Tracks. The requirements depend upon the specialization chosen.

SUPPORT AND ELECTIVE COURSES

The number of 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, electives will be increased by four units. If EC 201 or EC 202 is used for General Education, electives will be increased by four units.

Electives (4-16 units)

GENERAL EDUCATION REQUIREMENTS

(Required of all students)

Students should consult the catalog website www.csupomona. edu/~academic/catalog/ for current information regarding this requirement. See the list of approved courses under General Education Requirements, Areas A through E.

SPECIAL POLICIES

Technology and Operations Management students are strongly encouraged to complete STA 120 by the end of their sophomore year and to complete TOM 301 and TOM 302 by the end of the first quarter of their junior year because one or more of these courses are prerequisite to each of the department's required or specialization courses.

MINORS

MINOR IN LOGISTICS

The Logistics Minor is the only program of its kind in the California State University system. The Logistics Minor was developed to allow Business Administration majors or students majoring in non-business programs to gain the knowledge and skills needed to gain employment in the field of transportation, warehousing, logistics, planning, materials management, and physical distribution. In addition to the job opportunities that are available in the domestic arena, openings also exist in the international arena. Demand greatly exceeds supply both nationally and internationally for logistics managers.

Prerequisites:

Prerequisites:		
Elementary Statistics with Applications STA Principles of Marketing Management IBM Operations Management TOM Managerial Statistics TOM	120 301 301 302	(4) (4) (4) (4)
Core Requirements (16 units)		
Logistics Management	309 319 434 425	(4) (4) (4)
or E-business-enabled Supply Chain MgmtEBZ	304	(4)
Directed Electives (12 units)		
Select 12 additional units from the following list of concentration departments and the student's concentration department.		
Operations Technologies and Strategies TOM Decision Support and Expert Systems	420 350	(4) (4)

401

(4)

ERP-Applications in Operations	418 436 453 303 407 414 416 431	(4) (4) (4) (4) (4) (4) (4)
Total core and elective units required:		,

MINOR IN OPERATIONS MANAGEMENT

The Operations Management minor is designed to allow students in other business concentrations or students majoring in non-business programs to gain the necessary analytical and information technology skills for effective and efficient management of the business processes involved in production and delivery of goods and services. This includes any kind of organization from service firms to modern manufacturing and not-for-profit organizations. With more than 50% of all jobs in operations or a related field such as purchasing, logistics and distribution, supply chain management, inventory control, production management, manufacturing or service quality control, and project management, the minor will substantially enhance students' career opportunities and growth potential.

Requirements

Preregui	isites (12	units)
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Statistics With Applications STA Operations Management TOM Managerial Statistics TOM	120 301 302	(4) (4) (4)
Core Requirements (16 units)	000	(4)
Production Management	332 401	(4) (4)
Supply Chain Design, Analysis,	101	(' '
and Representation	425	(4)
or E-business-enabled Supply Chain ManagementEBZ	304	(4)
Operations Management in ServicesTOM	453	(4)
Directed Electives Courses (8 Units) Select two:		
Logistics ManagementTOM	309	(4)
Transportation Systems and Traffic Management .TOM	319	(4)
E-business Enterprise Resource Planning EBZ	305	(4)
Simulation of Service OperationsTOM	419	(4)
Production Management	432	(4)
Purchasing Management	434	(4)
Project ManagementTOM	436	(4)
Total Core and Elective Units Required		(24)

COURSE DESCRIPTIONS

TOM 103 Business and Its Environment (4)

American business system in its economic, social, political, national, and international environment. Coverage of the major activities of business and the key institutions influencing its service to society. Participation in a computerized competitive business simulation. 4 lectures/problem-solving.

TOM 200 Special Study for Lower Division Students (1-4)

Individual or group investigation, research, studies, or surveys of selected problems. A variable number of units, from 1 to 4, is allowed in any quarter. Maximum total credit is limited to 4 units.

TOM 299/299A/299L Special Topics for Lower Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

TOM 301 Operations Management (4)

Fundamental concepts of operations including: productivity, quality, logistics, distribution, supply chain technology, RFID, lean enterprise, process improvement, inventory management, MRP, ERP, project management, and computer applications. 4 lectures/problem-solving. Prerequisite: STA 120 or equivalent, and microcomputer proficiency.

TOM 302 Managerial Statistics (4)

Statistical techniques for auditing, analyzing surveys, market analysis, forecasting and risk analysis, using point and confidence interval estimation, one- and two-sample hypothesis testing, Chi square testing, simple and multiple regression, time series analysis, and decision analysis. Use of microcomputers. 4 lectures/problem-solving. Prerequisite: STA 120 or equivalent, and microcomputer proficiency.

TOM 309 Logistics Management (4)

Logistics strategy and planning, logistics chain customer service, order processing and information systems, transport decisions and vehicle routing, procurement, storage and handling, logistics organization and control. 4 lectures/problem solving. Prerequisite: TOM 301.

TOM 315 Management Science (4)

Introduction to deterministic quantitative decision analysis, modeling, and problem-solving. Linear programming model formulation, solution, sensitivity analysis transportation, assignment, transshipment, integer models, network models; application of computers in deterministic modeling. 4 lectures/problem-solving. Prerequisite: STA 120 or equivalent, and microcomputer proficiency.

TOM 319 Transportation Systems and Traffic Management (4)

Analysis of competitive alternative modes, systems, rates, services, and regulations as prerequisite to transport purchase decisions. Organization, operations, and management of the firm's traffic department. Impact of present and proposed transportation and environmental developments on industrial and carrier operations. 4 lectures/problem solving. Prerequisite: TOM 301.

TOM 320 Management of Technology (4)

The planning, development, and implementation of technological capabilities to shape and accomplish the strategic and operational objectives of a business organization. Topics of study include: dimensions, life cycle, and diffusion of technology; technological forecasting and environmental monitoring, role of technology in strategic management; managing change, assessment, justification, and financing new technology; and management of new technology-based firms. 4 lectures/problem-solving. Prerequisite: MHR 301.

TOM 332 Production Management (4)

Application of quantitative methods to problems in production and operations management, including facility location, design of operations and work systems, job simplification, queuing systems, scheduling,

motion and time study. 4 lectures/problem-solving. Prerequisite: TOM 301, or concurrent enrollment in TOM 301.

TOM 350 Decision Support and Expert Systems (4)

Computer-based information systems for semi-structured business problems; database, dialogue management, and model-base subsystems; design and implementation of decision support and expert systems; introduction to artificial intelligence and expert systems. 4 lectures/problem-solving. Prerequisite: microcomputer proficiency.

TOM 400 Special Study for Upper Division Students (1-4)

Individual or group research, studies, or surveys, of selected problems. A variable number of units from one to four is allowed in any quarter. Maximum total credit is limited to 4 units.

TOM 401 Quality Management (4)

The TQM process, its planning, and implementation. Theories of leading TQM proponents. TQM tools and methods including concurrent engineering, benchmarking, quality function deployment, and statistical process control. Development and implementation of the improvement process. Use of computers. 4 lectures/problem-solving. Prerequisite: STA 120, or STA 309, or equivalent, and microcomputer proficiency.

TOM 411 Strategic Management (4)

Simulated experience in integration of the business functions utilizing computer-based management games; develops concepts of management strategy and policy for competitive excellence and ethical operations; total quality management. Cases in management strategy. Analytical techniques as applied to business cases. 4 seminars. Prerequisite: ACC 207/207A, ACC 208/208A, MHR 301, IBM 301, FRL 300, FRL 301, CIS 310, TOM 301, and TOM 302.

TOM 419 Simulation of Service Operations (4)

Computer simulation of service operations, Monte Carlo method, probabilistic simulation modeling, random number generation, model calibration and validation, output analysis, simulation software languages. 4 lectures/problem-solving. Prerequisite: TOM 302.

TOM 420 Operations Technologies and Strategies (4)

Structural and infrastructural policies and systems in operations strategy decisions. Contemporary supply chain management technologies (including but not limited to technologies for supply chain visibility, facility design, transportation and logistics, materials management, warehousing and distribution); innovative use of technology for competitive advantage; problem solving in a business environment. Case study, hands-on exercises, demonstrations and presentations, and formal written reports. Prerequisite: TOM 301.

TOM 425 Supply Chain Design, Analysis and Representation (4)

Examination of how operational models are developed to facilitate supply chain design. Introductory supply chain basics, components, metrics, cost tradeoffs, and principles. Optimization models and decision theory are utilized to face emerging supply chain decisions. Computer software emphasis. 4 lectures/problem-solving. Prerequisite: TOM 301 and microcomputer proficiency.

TOM 432 Production Management (4)

Management of production systems. Techniques of master production scheduling, short- and medium-range planning, aggregate inventory management, distribution resource planning, production activity control, scheduling and sequencing, shop floor control. Priority and input-output control. 4 lectures/problem-solving. Prerequisite: TOM 301.

TOM 434 Purchasing Management (4)

Examines activities directed to securing the materials, supplies, equipment and services required for the proper and efficient functioning of a business, including related planning and policy issues. 4 lectures/problem-solving. Prerequisite: TOM 301.

TOM 436 Project Management (4)

Study of CPM (critical path method), PERT (program evaluation and review technique) and other techniques for planning sequences of responsibilities to accomplish complex projects. Monitoring allocation of resources within rigid time and cost constraints. Use of computers. 4 lectures/problem-solving. Prerequisite: TOM 301.

TOM 441, 442 Internship in Operations Management (1-8)

On-the-job training in business management involving new, collegiate-level learning experiences. Experiences may be useful as a basis for senior projects. A maximum of 8 units may be applied to the 44 unit directed elective requirement. Total credit limited to 8 units each course. Prerequisite: consent of internship coordinator.

TOM 453 Operations Management in Services (4)

Introduction to fundamental concepts of operations management in services. Design and scheduling of personnel activities. Service location problems. Vehicle scheduling and routing. Utilization of service capacity. Quality control in service operations. Management information systems. 4 lectures/problem-solving. Prerequisite: TOM 301.

TOM 460 Project Design and Development (4)

Problem solving in a business environment. Problem identification and selection. Preparation of project proposals, including problem statement, data collection procedures, selection of analysis techniques. Types of projects (laboratory, field, survey, ex post facto). Ethical issues. Presentation of summary proposals. 4 seminars. Prerequisites: TOM 301, TOM 302, TOM 315, TOM 332, TOM 401.

TOM 461 Senior Project (3)

Selection and completion of a project under faculty supervision. Projects typical of problems which graduates must solve in their fields of employment. Formal report is required. Minimum time commitment: 120 hours. Prerequisite: TOM 460. Corequisite: TOM 463.

TOM 463 Undergraduate Seminar (1)

Student presentation of project status reports, and discussion of recent developments in carrying out their senior projects. 2 seminars. Prerequisite: TOM 460. Corequisite: TOM 461.

TOM 499/499A/499L Special Topics for Upper Division Students (1-4)

Group study of a selected topic, the title to be specified in advance. Total credit limited to 8 units, with a maximum of 4 units per quarter. Instruction is by lecture, laboratory, or a combination.

