

CSUCI CALIFORNIA STATE UNIVERSITY
CHANNEL ISLANDS

ACCESS

An Extended Education Publication
Spring 2005

FEATURE ARTICLES:

What is Biotechnology?

**It's a Networked Future: Staying Ahead
of the Next Computer Science Wave**



SPECIAL SESSION DEGREES

DEGREE CREDIT COURSES

CERTIFICATE PROGRAMS

**CUSTOM ON-SITE PROGRAMS
FOR YOUR BUSINESS**

**OSHER INSTITUTE OF
LIFELONG LEARNING
(FOR SENIORS)**



A College Opportunity for Children of Migrant Workers

Each day on my way to work I drive past fields of sweet smelling strawberries and pungent cilantro. The workers in the fields bending their backs in the even and impossibly long rows starkly contrast with the emerging modern university at the end of the road. Like many inside and outside CSU Channel Islands, I hope that these fieldworkers who are so essential to our community can profit from our labor, as we benefit from theirs.

In one small but important way the University is already serving migrant workers, or at least their children, in a special Summer College program offered by Extended Education. For the sons and daughters of migrant agricultural workers, getting a quality education can seem like a distant dream because of the family dependence on seasonal or temporary jobs. Perhaps, even a stronger barrier is simply the unfamiliarity with the world of universities. With the intention of overcoming these significant obstacles, the University and the Oxnard Union High School District partnered four years ago to bring migrant high school students to the University each summer where they are exposed to college-level classes and encouraged to prepare for a future that includes higher education. This federally-funded program was created through the work of Barbara Thorpe, Associate Vice President at CSU Channel Islands, and the Migrant Education program at the Oxnard Union High School District. For many participants, Summer College becomes a life-changing experience as young adults and their families gain a richer understanding of the tremendous value of a college education. “The students come out of this course highly motivated and convinced that higher education is

something they can really do,” comments Lupe Reyes-Castillo, an organizer for the program, as well as a teacher for Oxnard Union High School District’s migrant program.

It is powerful to see the impact of learning on students, particularly young ones beginning to understand their own history. Two years ago we took the Summer College students on a field trip to the Natural History museum in Exposition Park. Many had never been to see the local museums and were excited at the opportunity. In one room there was an Aztec exhibit showing artifacts of daily life including a *metate*, a milling or grinding stone, one of the oldest domestic tools. Most of us in California have seen *metates* made of porous volcanic stone with 3 small legs. Reportedly, one of the first sounds to be heard in Aztec homes in the morning was the dull rumble of the rolling pin on the stone as maize dough was prepared. From this field trip to the museum during Summer College, the picture is frozen in my mind of the group of students crowded around the display case eyeing the *metate* saying, “I have one like that at home!” These students seemed to be saying, “I can see myself here!”

As I walk around the campus I often smell the strong cilantro scent in the air and think about the need to connect to the community as a whole, including the one right down our entranceway. We are fortunate that through this program we are enjoying a shared success every summer.

Gary A. Berg, Ph.D.
Dean of Extended Education
gary.berg@csuci.edu



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CSU CHANNEL ISLANDS MISSION

Placing students at the center of the educational experience, California State University Channel Islands provides undergraduate and graduate education that facilitates learning within and across disciplines through integrative approaches, emphasizes experiential and service learning, and graduates students with multicultural and international perspectives.

EXTENDED EDUCATION MISSION

Extended Education at CSU Channel Islands extends the mission of the university throughout the community by providing access to quality education for non-traditional students and local organizations.

EXTENDED EDUCATION ADVISORY COMMITTEE:

- | | |
|----------------------------------------------------|------------------------------------------------------|
| William Cordeiro, PhD, CSU Channel Islands faculty | Judy Nash, County of Ventura |
| Susan de la Pena, CSU Channel Islands faculty | Ashish Vaidya, PhD, CSU Channel Islands faculty |
| Gary Farber, Naval Surface Warfare Center | Bruce West, Amgen |
| Rick Howell, WellPoint | Rose Whalen, Technicolor |
| Frank Huchingson, Extended Education instructor | Bill Wolfe, PhD, CSU Channel Islands faculty (chair) |
| Liz King, CSU Channel Islands faculty | |



ms bioinformatics
ms biotechnology
ms bioinformatics

What is Biotechnology?

By Dr. Nicole Bournias-Vardiabasis

Often we hear in the popular press that the biotechnology industry is flourishing and that new cutting-edge research is changing the future for all of us in very large ways. We've heard the term "biotechnology," but what does it really mean?

Literally "Bio" means the use of biological processes and "technology" solving problems or making useful

products. We actually began using biological processes 10,000 years ago by growing crops and raising animals for food. However, a more modern definition would be to describe biotechnology as the use of cellular and molecular processes to solve problems or make useful products. Biotechnology is actually a collection of technologies that utilize the attributes of cells to manufacture molecules such as DNA and proteins.

As one of the top ten fastest growing industries in America, the biotechnology industry is indeed booming. There are more than 1450 biotechnology companies in the United States, and with more than 430, California has the lion's share. Industry revenues have grown from 8 billion in 1992 to 30 billion in 2002, and the total value of publicly traded biotechnology companies was 311 billion dollars in late March of 2004. The research and development (R&D) expenditures in the biotechnology industry accounted for \$16.4 billion in 2001, or about 10% of all American industry R&D that year.

There are more than 1450 biotechnology companies in the United States, with more than 430 in California.

There are currently more than 350 biotechnology drug products and vaccines in clinical trials targeting more than 200 diseases including Alzheimer's, heart disease, AIDS, and arthritis. Biotechnology research has resulted in hundreds of diagnostic tests ranging from HIV detection to home pregnancy kits. Foods such as corn, papaya and soybeans produced with the assistance of biotechnology methods are already on the tables of consumers. Moreover, environmental biotechnology has led to new approaches to cleaning up hazardous waste. Criminologists use biotechnology in many of their processes including DNA fingerprinting.

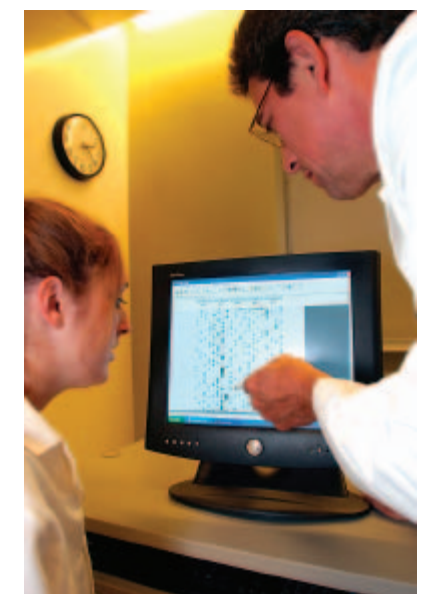
Biotechnology tools and techniques have opened new avenues for discovering how healthy bodies work and what might go wrong when problems arise. Knowing the molecular basis of health and disease leads to improved methods for treating and preventing diseases. In human health care, biotechnology products includes quicker and more accurate diagnostic tests, therapeutics with fewer side effects, medical devices that use biopolymers rather than man-made medical devices, as well as the ability to replace missing proteins such as insulin or factor VIII (blood clotting protein). Biotechnology permits the use of the human body's natural capacity to repair and maintain itself. Tissue engineering allows creation of semi-synthetic tissues and organs in the lab that can be implanted into a human being. Stem cell therapy (another biotechnology

method) could revolutionize approaches for treating many of our most deadly and debilitating diseases such as diabetes and Parkinson's.

While biotechnology has already had a significant impact on the diagnosis, treatment and prevention of diseases, the best is yet to come. The knowledge base provided by bioinformatics (the use of computational techniques to solve biological problems) will serve as the foundation for predictive tests of impending diseases, show new ways to develop drugs, and lead to new therapies that are tailored to the specific genetic makeup of the patient.

The need for a skilled biotechnology workforce is great. The United States biotechnology industry employed close to 200,000 in 2002, and the life, physical and social science occupation as a whole are one of the top five occupational groups with the highest projected increase in employment through the year 2012. In response, California State University Channel Islands has created a new Master of Science program in Biotechnology and Bioinformatics. The two-year program, which begins in fall 2005, prepares students for rewarding careers in laboratory research, regulation of drug approval, positions in management, and working for biotechnology law firms. Specific courses focus on scientific principles and knowledge underlying advances in biotechnology, basic laboratory techniques in research and development, legal and intellectual property issues, and skills and attributes important in business and bioentrepreneurship. An important feature of the CSUCI master's program is the creation of an external advisory board, comprised of industry leaders from throughout the region. Board members will offer advice on curriculum, recruitment, internship creation, and many other issues. They will also serve as a valuable industry links for students to secure jobs, network, and obtain information about different occupations and fields. For more information, call (805) 437-2748 or email biotech@csuci.edu.

(see page 10)



It's a Networked Future

Staying Ahead of the Next Computer Science Wave

There are few fields changing as quickly as computer science. Established universities confront the especially difficult challenge of adapting unyielding curricula to keep up with the times. As an emerging regional comprehensive university, CSU Channel Islands has the opportunity to look at disciplines with a fresh eye and develop forward-looking degree programs that meet the evolving needs of the community.

With this in mind, our faculty members asked themselves where computer science is headed? One clear direction is towards network systems and data communications. In terms of projecting the needs of businesses for skilled

employees, network systems and data communications analysts are projected by the Bureau of Labor Statistics to be the second fastest growing occupation over the period from 2002 to 2012.

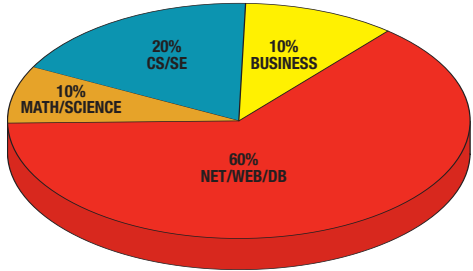
Furthermore, computer systems design, Internet services, data processing and other information services are industries with the fastest projected wage and salary growth between 2002 and 2012. Generally, employment in computer and mathematical occupations is expected to grow over 34% in the period from 2002 to 2012. This is the highest projected growth of all major occupational groups as specified by the Bureau of Labor Statistics.

THE 10 FASTEST GROWING OCCUPATIONS, 2002-12

(Numbers in thousands of jobs)

OCCUPATION	2002	2012	NUMBER	PERCENT	TRAINING
Medical Assistants	365	579	215	59%	Moderate-term on-the-job training
Network Systems and Data Communications Analysts	186	292	106	57%	Bachelor's degree
Physician Assistants	63	94	31	49%	Bachelor's degree
Social and Human Service Assistants	305	454	149	49%	Moderate-term on-the-job training
Home Health Aides	580	859	279	48%	Short-term on-the-job training
Medical Records and Health Information Technicians	147	216	69	47%	Associate degree
Physical Therapist Aides	37	54	17	46%	Short-term on-the-job training
Computer Software Engineers, Applications	394	573	179	46%	Bachelor's degree
Computer Software Engineers, Systems Software	281	409	128	45%	Bachelor's degree
Physical therapist assistants	50	73	22	45%	Associate degree

Information technology continues to be at the backbone of all business enterprises. Although there are computer science programs and business programs that provide support for this high demand area, there are no programs that fill the gap between the highly analytical/theoretical computer science programs and the mostly managerial business programs. As a result CSU Channel Islands has developed a new Bachelor's of Science in Information Technology (BSIT) degree to provide an avenue of advancement for the many students graduating from the community colleges with technology oriented degrees.



What does an information technology curriculum look like? The chart above shows the mix of disciplines covered in a new information technology degree.

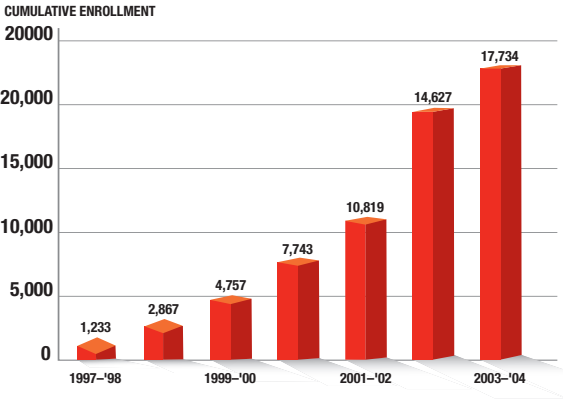
For a foundation, the BSIT program draws from basic mathematics, science, and computer programming, as well as basic business organization and project management. From there it adds depth in web technology, database theory and design, and data communications and networking, while allowing for area concentrations in any of these or related areas such as e-commerce, computer security, and multimedia.

Moreover, the BSIT program is specifically designed to provide an avenue of advancement for students with associate degrees in a technology discipline such as networking (computer networking programs are offered in all of the Ventura County Community Colleges including Moorpark, Oxnard and Ventura Colleges). This new program gives the transfer student the opportunity to complete a Bachelor of Science degree in Information Technology providing a foundation in mathematics, programming, networking, databases, web, computer architecture and information systems. This program does not have the depth of mathematical analysis, design, or object-oriented programming found in a BS in Computer Science, nor does it have the depth of business systems analysis found in a degree in Management Information Systems. Instead, the BSIT

is meant to satisfy the need that sits between these two extremes, emphasizing the fastest growing segments of both: web systems, databases, and networks. For a foundation, the BSIT program draws from both camps: mathematics, science, and computer programming from computer science, and business organization and project management from management information systems. From there it adds depth in web programming and technology, database theory and design, and data communications and networking, while allowing for area concentrations in any of these or related areas such as e-commerce, computer security, and multimedia.

Potential career options for BSIT graduates are many including computer systems integrator, computer systems manager, information technology designer, information technology support, database systems manager, database systems designer, data communications analyst, network manager, network designer, web technology manager, and web technology support.

CSU Channel Islands has worked closely with the local community colleges on this project through the California Regional Consortium for Engineering Advances in Technological Excellence (CREATE), which is funded by the National Science Foundation. The following graph shows the size of the enrollment in the technology courses sponsored by CREATE and offered through the community colleges in our region.



With almost 18,000 enrollments in technology courses at the seven CREATE community colleges alone, we can see that there is clearly a strong demand for students wanting to continue their education beyond the associate level. With this unique new degree CSU Channel Islands appears to have caught the next computer wave. (see page 14)



MASTER OF SCIENCE IN MATHEMATICS

We are pleased to offer our interdisciplinary and innovative MS in Mathematics degree, with both a flexible schedule and highly qualified faculty. Our graduate program is designed to address the global need for people with advanced mathematical, computational, and computer skills. Students are given a strong background in mathematics, computer hardware and software, as well as skills to conduct independent applied research. The program stresses interdisciplinary applications such as bioinformatics, actuarial sciences, cryptography, security, image recognition, artificial intelligence, and mathematics education. This degree program is a result of cooperation between mathematics and computer science faculty, and students' specializations depend on the final project/thesis and the electives chosen under the supervision of an advisor.

Why choose CSU Channel Islands?

The rapid development of high-tech and computational sciences in the entire world has created a global shortage of people with advanced mathematical, computational, and computer skills, especially in the greater Los Angeles area and Ventura county. Our program is application oriented and broad in scope, so students can choose an emphasis of their interest.

Who should apply for MS in Mathematics degree?

The program serves graduates holding computational degrees, professionals working in local industries, teachers, and military personnel. The graduates of the program will find employment in local information systems and computational industries. Some students may elect to continue their education in various graduate schools as well.

AREAS OF EMPHASIS

- Actuarial Sciences
- Artificial Intelligence
- Bioinformatics
- Cryptography
- Image Recognition
- Mathematics Education
- Security

PROGRAM OBJECTIVES:

1. Prepare students for employment in a variety of highly sophisticated and complex high-tech and bio-tech industries, businesses, education systems, military, local and federal government.
2. Prepare students for further study in graduate or professional schools.
3. Equip students with the depth, flexibility and computational skills that apply to a variety of fields and offer various career opportunities including consulting, scientific and technical positions in business and industry, research and development, national and industrial security, or teaching positions.
4. Offer all students the opportunity to broaden their knowledge and learn computational skills and computer technology that can be applied to various professions.
5. Our graduates will demonstrate critical thinking, problem solving, and advanced computational skills, the knowledge of current computing practices and broad technology use in industry.

PROGRAM CURRICULUM:

The program is comprised of three parts:

- 3 Core Courses and Seminars (11 Units)
- Electives (15 Units)
- Project of Master Thesis - Emphasis (6 units)

TOTAL CREDITS: 32 units

Applicants whose bachelor's degree is in a field other than Mathematics may be required to complete some undergraduate mathematics courses. Evaluation of the transcripts upon admission to the program.

PROGRAM OVERVIEW:

CORE COURSES (11 Units)

Choose 3 courses from the following list:

- | | |
|----------------------------------------------------------|---|
| MATH 510 Probabilistic Methods And Measure Theory | 3 |
| MATH 511 Functional Analysis | 3 |
| COMP 510 Algorithms | 3 |
| COMP 569 Artificial Intelligence | 3 |
| PHYS 510 Advanced Image Analysis Techniques | 3 |

REQUIRED:

Math 599 Graduate Seminar 1 (twice)

ELECTIVES (15 Units)*

Choose 5 Electives from the following list:

- | | |
|----------------------------------------------------------------------|---|
| Math/COMP 581 Mathematical Methods in Artificial Intelligence | 3 |
| Math 511 Functional Analysis | 3 |
| Math 513 Advanced Algebra | 3 |
| Math 555 Actuarial Sciences | 3 |
| Math 565 Research in Mathematics Education | 3 |
| Math 582 Number Theory and Cryptography | 3 |
| Math 584 Algebraic Geometry and Coding Theory | 3 |
| Math 587 Markov Chains and Markov Processes | 3 |
| Math 588 Stochastic Analysis | 3 |
| PHYS 546 Pattern Recognition | 3 |
| COMP 520 Advanced Database Systems | 3 |
| COMP 524 Security | 3 |
| COMP 529 Network Computing | 3 |
| COMP 549 Human-Computer Interaction | 3 |
| COMP 550 Object-Oriented Software Engineering | 3 |
| COMP 569 Artificial Intelligence | 3 |
| COMP 571 Biologically Inspired Computing | 3 |
| COMP 572 Neural Networks | 3 |
| COMP 575 Multi-Agent Systems | 3 |
| COMP 578 Data Mining | 3 |

*other graduate or junior/senior courses may be included with advisors approval.

PROJECT OR MASTER THESIS – EMPHASIS (6 UNITS)

- | | |
|--------------------------------|-----|
| Math 597 Master Thesis | 0-6 |
| Math 598 Master Project | 0-6 |

TOTAL CREDITS: 32 units

Program Director: Dr. Ivona Grzegorzczuk,
Professor of Mathematics, Mathematics Chair

For General Information and Application Packets:
(805) 437-2748
msmath@csuci.edu

Note: degree program pending final approval from CSU Chancellor's Office



biotechnology/bioinformatics. masters in science biotechnology/bioinformatics

MASTER OF BIOTECHNOLOGY AND BIOINFORMATICS

CSU Channel Islands is excited to announce an innovative and integrative MS program in Biotechnology and Bioinformatics.

The flexibility of the degree structure permits students to custom-design their curriculum under an advisor's guidance, making the degree especially relevant for students employed in today's diverse biotechnology workplace. Students completing the program are qualified to pursue careers that require knowledge of current scientific principles and knowledge underlying advances in biotechnology along with legal and intellectual property issues. The program is not only comprehensive, but prepares the students to be effective managers in biotechnology-related companies, agencies and organizations by giving them the knowledge and skills needed to advance in science and business roles. Furthermore, a multi-disciplinary approach encourages team-working and effective expression of ideas.

Key elements include:

- A common cohort experience
- Evening classes
- Biotechnology or bioinformatics emphasis
- Strong connection to the local biotech sector
- Designed to be completed in two years

General Objectives for the MS in Biotechnology and Bioinformatics

- Provide students with the opportunity to earn a professional MS degree in Biotechnology and Bioinformatics from CSU Channel Islands.
- Prepare students with analytical, business and managerial skills along with sophisticated expertise in biotechnology and computational sciences for a diverse set of vocations. Qualified graduates will be able to engage in research, development and management in biotechnology, work in the pharmaceutical industry, conduct scientific research, teach or consult in public and/or private organizations.
- Provide a value added education in biotechnology and bioinformatics to enhance career advancement opportunities.

REQUIREMENTS

Applicants must have a bachelor's degree or higher from an accredited university with competence in a science field related to the chosen area of emphasis. The applicant's undergraduate transcript and GPA should reflect the ability to learn advanced science course work. All applicants must also submit scores from the general GRE or MCAT test. Additionally, two letters of recommendation along with a two-page essay are required.

CURRICULUM

The program offers students a solid and cutting edge group of core courses that provide for exciting and rewarding careers in next-generation science and technology

COMMON CORE COURSES (19 UNITS):

BINF 500 DNA and Protein Sequence Analysis	3
BINF 501 Biological Informatics	3
BIOL 502 Techniques in Genomics and Proteomics	3
BIOL 503 Biotechnology Law and Regulation	3
MGT 471 Project Management	3
BIOL 600 Team Project	4
BIOL 601 Seminar Series in Biotechnology and Bioinformatics	1

REQUIRED COURSES FOR BIOTECHNOLOGY EMPHASIS

BIOL 504 Molecular Cell Biology
BIOL 505 Molecular Structure
MGT 421 Human Resource Management
BIOL 506 Molecular Evolution
BIOL 507 Pharmacogenomics and Pharmacoproteomics
BIOL 508 Advanced Immunology
BIOL 509 Plant Biotechnology

REQUIRED COURSES FOR BIOINFORMATICS EMPHASIS

BINF 510 Database Systems for Bioinformatics
BINF 511 Computational Genomics
BINF 513 Programming for Bioinformatics
MGT 421 Human Resource Management
PHYS 445 Image Analysis & Pattern Recognition
BINF 512 Algorithms for Bioinformatics
BINF 514 Statistical Methods in Computational Biology

To receive application materials or for further information:

CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

Biology Program

Department of Extended Education

One University Drive, Camarillo, CA 93012

E-mail: biotech@csuci.edu

Web site: http://biology.csuci.edu/bio_mos.htm

Note: Degree program pending final approval from CSU Chancellor's office.



master of science

MASTER OF SCIENCE IN COMPUTER SCIENCE

The MS in Computer Science degree at Channel Islands offers the latest, cutting edge education for various industrial and applied fields. The program prepares students for careers in high-tech, computer and Internet driven industries, businesses, education systems, military, and local and federal government where interdisciplinary, dynamic and innovative professionals trained in latest technologies are increasingly sought. Students are given a strong background in mathematics, computer hardware and software, as well as skills to conduct independent applied research or develop an industrial project. The program stresses interdisciplinary applications, especially in Mathematics. The “emphasis” is on breadth of knowledge in computer science and mathematics, with the aim of preparing students for a wide range of possible industry, academic, and research positions.

Admission: Students seeking admission are expected to have an undergraduate degree in Computer Science or an undergraduate degree in Mathematics with an emphasis in computer science. Students with undergraduate degrees in closely related areas, such as Engineering and the Sciences, will be considered on a case-by-case basis and may be provisionally accepted. The applicant is expected to have a 2.7 or higher cumulative undergraduate grade point average (GPA). Students must remain in good academic standing, with at least a B- average in their graduate work.

Program Director: Dr. William Wolfe, Chair, Computer Science

For General Information and Application Packets:
(805) 437-2748
mscompsci@csuci.edu

*Note: degree program pending final approval
from CSU Chancellor's Office*

CORE COURSES (11 Units)

Choose 9 units from:

MATH 510 Probabilistic Methods And Measure Theory	3
MATH 511 Functional Analysis	3
COMP 510 Algorithms	3
COMP 569 Artificial Intelligence	3
PHYS 510 Advanced Image Analysis Techniques	3
REQUIRED: 2 UNITS OF:	
COMP 599 Graduate Seminar	1

ELECTIVES (15 Units)

Choose 5 Electives from the following list:

COMP 520 Advanced Database Systems	3
COMP 524 Security	3
COMP 529 Network Computing	3
COMP 549 Human-Computer Interaction	3
COMP 550 Object-Oriented Software Engineering	3
COMP 569 Artificial Intelligence	3
COMP 571 Biologically Inspired Computing	3
COMP 572 Neural Networks	3
COMP 575 Multi-Agent Systems	3
COMP 578 Data Mining	3
COMP/Math 581 Mathematical Methods in Artificial Intelligence	3
Math 511 Functional Analysis	3
Math 555 Actuarial Sciences	3
Math 565 Research in Mathematics Education	3
Math 582 Number Theory and Cryptography	3
Math 584 Algebraic Geometry and Coding Theory	3
Math 587 Markov Chains and Markov Processes	3
Math 588 Stochastic Analysis	3
PHYS 546 Pattern Recognition	3

MASTER THESIS (6 units)

COMP 597 Master Thesis	0-6
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TOTAL UNITS:	32
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BACHELOR OF SCIENCE IN INFORMATION TECHNOLOGY

This BSIT program is specifically designed to provide an avenue of advancement for students with associate degrees in a technology discipline such as networking, computer security, or computer system administration. This program does not have the rigor of mathematical analysis, design, or object-oriented programming found in a typical BS in Computer Science, nor does it have the depth of business systems analyses found in a degree in a typical BA in Business. Rather, the program is meant to satisfy the need that sits between these two extremes, emphasizing the fastest growing segments of the both: Web Systems, Databases, and Networks. For a foundation, the BSIT program draws from both camps: mathematics, science, and computer programming from Computer Science, and business organization and project management from Management Information Systems. From there it adds depth in Web Programming and Technology, Database Theory and Design, and Data Communications and Networking, while allowing for area concentrations in any of these or related areas such as e-Commerce, Computer Security, and Multimedia. Students entering this program are expected to have already attained an associates degree in a technology area (or the equivalent), with at least 30 credits that are “GE certified” for the CSU system, including courses in: Probability and Statistics, First Course in a Laboratory science (Physics, Chemistry, or Biology), First course in a programming language (such as C, Java, or C++), Computer Architecture and Assembly Language.

Program Director: Dr. William Wolfe, Chair, Computer Science

For General Information and Application Packets:
(805) 437-2748
bsit@csuci.edu

*Note: degree program pending final approval
from CSU Chancellor's Office*

BSIT PROGRAM REQUIREMENTS

A total of 120 Semester units are required for the BSIT.

LOWER DIVISION REQUIREMENTS (60 UNITS)

Students entering this program are expected to have completed an associate degree (or equivalent) in a technology area, including:

- Statistics.
- One semester of a Laboratory science (Physics, Chemistry, or Biology).
- First course in a computer programming language such as C, Java or C++.
- First course in Computer Architecture and Assembly Language.
- CSU GE Certification or courses fulfilling the CSUCI lower division general education requirements.
- A minimum of 15 units of lower division coursework in a technology area (computer technology, electronics technology, manufacturing technology, engineering, computer science, etc.).

Students who have not completed these 60 units prior to their admission to the program will be required to complete them at CSU Channel Islands or a community college. Course substitutions for these requirements may be made with the approval of the department chair.

UPPER DIVISION REQUIREMENTS:

MATHEMATICS AND SCIENCE REQUIREMENTS (7 UNITS)

Math 300 Discrete Mathematics I	3
Lab Science II (Physics, Chem., or Bio.)	4
TOTAL UNITS	7

CORE COURSES (24 UNITS)

IT 151 Data Structures for IT	3
IT 262 Computer Organization for IT	3
IT 280 Web Programming	3
IT 429 Computer Networks for IT	3
IT 420 Database Theory and Design for IT	3
IT 362 Operating Systems for IT	3
CIS 310 Management Information Systems	3
BUS 320 Business Operations	3
TOTAL UNITS	24

UPPER DIVISION INTERDISCIPLINARY GE (9 UNITS)

ENGL 330 Writing in Your Discipline	3
COMP 447 Societal Issues in Computing	3
COMP 449 Human Computer Interaction	3
TOTAL UNITS	9

Area Concentration (15 units)

Choose 15 units from:

IT 400 eCommerce	3
IT 401 Web Intelligence	3
IT 424 Computer System Security for IT	3
IT 402 Advanced IT Programming	3
IT 464 Computer Graphics for IT	3
IT 469 AI and Neural Networks for IT	3
IT 430 Advanced DB Systems	3
IT 490 Special Topics for IT	3
COMP 452 Computational Bioinformatics	4
ART 324 Commun. Design Technology: Web Design	3
ART 326 Digital Media Art: 3D Computer Animation	3
<i>(Additional electives to be added based on faculty availability).</i>	15

CAPSTONE (5 UNITS)

MGT 471 Project Management	3
IT 472 Capstone Project	2
TOTAL UNITS	5

BSIT SUMMARY (120 UNITS)

LOWER DIVISION REQUIREMENTS	60
MATHEMATICS AND SCIENCE REQUIREMENTS	7
CORE COURSES	24
UPPER DIVISION INTERDISCIPLINARY GE	9
AREA CONCENTRATION	15
CAPSTONE	5
TOTAL UNITS	120



MASTER OF BUSINESS ADMINISTRATION

We are pleased to offer our integrative and innovative MBA program designed for working professionals in Southern California. CSU Channel Island's MBA program is the result of benchmarking against the best business programs in the country and meets the new "assurances of learning standards" required for AACSB accreditation. Our program features integrated modules that cross-functional disciplines, a common cohort experience, and team teaching and learning. Consistent with the University's mission, there is an emphasis on graduating business leaders with a global and multicultural perspective. Our MBA is an example of our focus on making a difference not only in the lives and careers of our students, but also in the vitality of the Ventura County region.

Why Choose CSU Channel Island's MBA?

CSU Channel Island's MBA program is designed to develop business leaders capable of working in an increasingly multicultural and global environment.

Key elements include:

- A Common Cohort Experience
- Evening and/or Weekend Classes
- Online Foundations of Business courses
- Focus on International Business and Entrepreneurial Innovation
- Study Abroad Option
- Real-World Orientation

CSU Channel Islands MBA mission statement

Graduates of CSU Channel Island's MBA will be able to:

- Demonstrate a high degree of proficiency in: oral and written communication skills, interpersonal, analytical, and integrative skills, and in the use of technology
- Demonstrate an awareness of the global environment in which business operates
- Demonstrate an understanding of international competitive forces through strategic formulation for domestic businesses
- Use basic business functions to make managerial decisions
- Analyze business issues using a cross-functional and integrative approach
- Display a capacity to innovate and to create successful ventures through the preparation of a business plan
- Demonstrate leadership skills in organizational situations
- Apply knowledge in new and unfamiliar circumstances through a conceptual understanding of relevant disciplines
- Adapt and innovate to solve problems in an uncertain and unpredictable environment

The MBA Curriculum

The program comprises three parts:

Foundations of Business courses (0–16 semester units)

Required Core courses (24 semester units)

Elective courses (9 semester units)

TOTAL: (49 semester units)

Applicants whose bachelor's degree is in a field other than business administration will be required to complete the Foundations of Business courses. Evaluation of previous course work for waiver of these courses occurs upon admission to the program. Applicants whose bachelor's degree is in business administration from a recognized university will most likely receive a waiver from these courses. In addition to the Foundations of Business courses, applicants will have to demonstrate competence in mathematics and computer literacy, either through prior course work or competency examinations. (Pending final approval from Chancellor's office)

Program overview:

Foundations of Business (prerequisites)	0–16 units
Required Core	24 units
Electives	9 units
TOTAL UNITS	33-49 units

FOUNDATIONS OF BUSINESS (PREREQUISITES):	16
BUS 500 Economics for Managers	3
BUS 502 Quantitative Methods for Decision-Making	3
BUS 504 Introduction to Accounting and Finance	4
BUS 506 Principles of Management and Marketing	3
BUS 508 Business Ethics and Law	3

REQUIRED CORE: (24 UNITS)

BUS 510 High Performance Management	3
BUS 520 Strategy and Leadership	3
BUS 530 Managing Business Operations	3
BUS 540 Financial Reporting and Analysis	3
BUS 550 The Contemporary Firm	3
BUS 560 The Entrepreneurial Manager	3
BUS 570 Competing in a Global Environment	6

ELECTIVES: 9

For further information:

California State University Channel Islands,

Extended Education

One University Drive, Camarillo, CA 93012

General Information: (805) 437-2748

E-mail: mba@csuci.edu

Web site: <http://business.csuci.edu/mba>



PRINCIPALS LEADERSHIP PROGRAM

The CSUCI Principals Leadership Program is designed for experienced educators who are pursuing a leadership career in educational administration. Candidates successfully completing this program will earn a Masters Degree in Education and be eligible for the Preliminary Administrative Services Credential, which is required for employment as an administrator in California public schools. CSUCI requires that candidates earn a Master Degree while completing the requirements for the Preliminary Administrative Services Credential unless they enter the program with a Masters Degree.

Key Characteristics of the Principals Leadership Program:

- Directly aligned with the Mission of CSUCI
- Founded on the core values that characterize the entire Education Program
- Based on the California Commission on Teacher Credentialing Standards of Quality and Effectiveness for Educational Leadership Programs leading to the Preliminary Administrative Services Credential
- Built on a cohort model
- Primary focus is on 'real world' instructional leadership
- Clearly identified instructional model
- Sustained reflection and personal dialogue on critical issues
- Structured field experiences created through partnerships with school districts
- Site-based action research Masters Project
- Integrated assessment based on clearly defined standards and criteria leading to informed recommendations for the Preliminary Administrative Services Credential

The program design forms a set of carefully planned learning experiences.

SESSION I

EDUC 605 Education in a Diverse Society	3
EDPL 610 Foundations of Curriculum Instruction and Assessment	3
EDPL 631 Professional Development/Fieldwork I	1
TOTAL UNITS	7

SESSION II

EDPL 620 Instructional Leadership of Collaborative Inclusive School	3
EDUC 615 Principles of Educational Research	3
EDPL 631 Professional Development/Fieldwork I	1
TOTAL UNITS	7

SESSION III

EDPL 621 Law and School Management	3
EDPL 623 Understanding and Influencing Organizations in Diverse Communities	3
EDPL 632 Professional Development/Fieldwork II	1
TOTAL UNITS	7

SESSION IV

EDPL 622 School Finance and Principles of Applied Leadership	3
EDPL 624 Human Resource Management in Education Settings	3
EDPL 632 Professional Development/Fieldwork II	2
TOTAL UNITS	8

SESSION V

EDPL 625 Building a Collaborative, Inclusive Learning Community	3
EDPL 632 Professional Development/Fieldwork II	1
EDUC 616 Research Paper	1
TOTAL UNITS	5
PROGRAM TOTAL	34

Faculty members include both CSUCI Education Department Members and experienced school administrators. They provide students with a rich curriculum grounded in the reality of school leadership. (Pending final approval from Chancellor's office)

For further information call or write:
California State University Channel Islands
Principals Leadership Program
Department of Extended Education
One University Drive, Camarillo CA, 93012
General Information: 805-437-2748
E-mail: exed@csuci.edu
Web site: <http://www.csuci.edu/exed/edadmin.html>

PRODUCTION AND INVENTORY MANAGEMENT CERTIFICATE (CPIM)

Co-sponsored by the Ventura County Chapter of APICS, these courses combine a practical, hands-on approach with core principles and practices used in the industry today. All courses are presented for a twofold benefit – to enhance your professional career goals and to assist you in preparing to take the national APICS CPIM (Certified in Production and Inventory Management) Certification Exam modules. Note that students must separately take and pass the five national examinations to earn the CPIM designation. All teaching materials, texts and handouts are APICS published and meet the rigorous standards of this complex field.

Who should attend?

- Individuals currently in manufacturing and industry desiring production/inventory control knowledge and job skills
- Individuals interested in passing national APICS test modules toward the CPIM designation
- Professionals desiring new career goals in the manufacturing environment

Certificate objectives: students will

- Acquire current information on the latest resource techniques and practices
- Obtain the knowledge needed for efficient manufacturing operations
- Receive peer and industry recognition

How to earn your certificate: successfully complete the five required courses

- Basics of Supply Chain Management
- Master Planning of Resources
- Detailed Scheduling and Planning
- Execution and Control of Operations
- Strategic Management of Resources

Benefits to companies:

Employers will appreciate the skilled employees this program will certify. If you are currently working in production and inventory control, you will update and enhance the professional skills that increase your value to your organization.



WINTER

BASICS OF SUPPLY CHAIN MANAGEMENT BUS X 801

This course provides basic definitions and concepts for planning and controlling the flow of materials into, through and out of an organization. It explains fundamental relationships among the activities that occur in the supply chain from suppliers to customers. It also addresses types of manufacturing systems: forecasting, master planning, material requirements planning, capacity management, production activity control, purchasing, inventory management, distribution, quality management and just-in-time manufacturing. Note: This course provides a foundation of knowledge for entering any of the courses in the program and is recommended for students who are new to the field of Production and Inventory Control.

Instructor: Smallwood

Date/time: Wednesday, January 12 – March 16
7:00 – 10:00 pm

Location: CSU Channel Islands

Continuing Education Units: 3

Registration Number: W05-001A

Fee: \$325

Participant Guide: \$85 (purchased separately)

DETAILED PLANNING AND SCHEDULING BUS X 803

This course focuses on material and capacity scheduling and planning. It includes a detailed explanation of material requirements planning (MRP), a technique suitable for use in job shops. Another material planning technique, material-dominated scheduling (which is applicable to process industries and other mature production environments), is introduced. The course explains capacity requirements planning in detail and introduces other capacity planning techniques, including processor dominated scheduling.

Instructor: Kim

Date/time: Mondays, January 10 – March 14
7:00 – 10:00 pm

Location: CSU Channel Islands

Continuing Education Units: 3

Registration Number: W05-002A

Fee: \$325

Participant Guide: \$85 (purchased separately)

FUNDAMENTALS OF PLANNING BUS 808

This course introduces participants to the principles of effective planning and presents the concepts of planning at each level, from strategic to tactical. Participants work together to solve problems, develop plans, build teams, and present solutions. Through this course, they learn the essential ingredients of effective planning and have an opportunity to practice and enhance their own planning skills. This course imparts a fundamental knowledge and understanding of basic planning principles and techniques that are used at each level of the planning process, providing practical examples and exercises that give participants an opportunity to improve their planning, teamwork, and presentation skills.

Instructor: Huchingson

Date/time: Thursdays, January 13 – March 31
7:00 – 10:00 pm

Location: CSU Channel Islands

Continuing Education Units: 3

Registration Number: W05-003A

Fee: \$390

Participant Guide: \$85 (purchased separately)

STRATEGIC MANAGEMENT OF RESOURCES BUS X 806

In this course, students explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain related functions. The course addresses three main topics: aligning resources with the strategic plan; configuring and integrating operating processes to support the strategic plan; and implementing change.

Instructor: Kirkpatrick

Date/time: Wednesdays, January 12 – March 16
4:30 – 7:30 pm

Location: TBA

Continuing Education Units: 3

Registration Number: W05-004A

Fee: \$325

Participant Guide: \$85 (purchased separately)

SPRING

BASICS OF SUPPLY CHAIN MANAGEMENT BUS X 801

This course provides basic definitions and concepts for planning and controlling the flow of materials into, through and out of an organization. It explains fundamental relationships among the activities that occur in the supply chain from suppliers to customers. It also addresses types of manufacturing systems: forecasting, master planning, material requirements planning, capacity management, production activity control, purchasing, inventory management, distribution, quality management and just-in-time manufacturing. Note: This course provides a foundation of knowledge for entering any of the courses in the program and is recommended for students who are new to the field of Production and Inventory Control.

Instructor: Thornton

Date/time: Mondays, April 4 – June 6
7:00 – 10:00 pm

Location: CSU Channel Islands

Continuing Education Units: 3

Registration Number: SP05-001A

Fee: \$325

Participant Guide: \$85 (purchased separately)

EXECUTION AND CONTROL OF OPERATIONS BUS X 804

This course focuses on three main areas: prioritizing and sequencing work; executing work plans, implementing controls, and reporting activity results; and evaluating and providing feedback on performance. The course explains techniques for scheduling and controlling production and process operations. It also addresses the execution of quality initiatives and continuous improvement plans as well as and the control and handling of inventories. Techniques for evaluating performance and collecting data for effective feedback are presented.

Instructor: Schleich

Date/time: Wednesdays, April 6 – June 8
7:00 – 10:00 pm

Location: CSU Channel Islands

Continuing Education Units: 3

Registration Number: SP05-002A

Fee: \$325

Participant Guide: \$85 (purchased separately)

STRATEGIC MANAGEMENT OF RESOURCES BUS X 806

In this course, students explore the relationship of existing and emerging processes and technologies to manufacturing strategy and supply chain related functions. The course addresses three main topics: aligning resources with the strategic plan; configuring and integrating operating processes to support the strategic plan; and implementing change.

Instructor: Smallwood

Date/time: Thursdays, April 7 – June 9
7:00 – 10:00 pm

Location: CSU Channel Islands

Continuing Education Units: 3

Registration Number: SP05-003A

Fee: \$325

Participant Guide: \$85 (purchased separately)

FUNDAMENTALS OF INVENTORY CONTROL BUS 807

Participants are introduced to essential vocabulary and skills in identifying and applying the basic principles of inventory management. Basic methods of planning and controlling inventory in manufacturing, institutional, distribution, and retail environments are covered. The questions of what to stock are addressed through an examination of current and evolving technologies of inventory management. This course imparts a fundamental knowledge and understanding of inventory management principles and techniques, providing participants with a greater understanding of their roles and responsibilities in the control of inventory and the impact that inventory can have on a business.

Instructor: Huchingson

Date/time: Thursdays, April 7 – June 9
7:00 – 10:00 pm

Location: CSU Channel Islands

Continuing Education Units: 3

Registration Number: SP05-004A

Fee: \$390

Participant Guide: \$85 (purchased separately)

PHR / SPHR CERTIFICATION EXAM PREPARATION PROGRAM



Offered in cooperation with the Society for Human Resources Management (SHRM), this course helps prepare individuals for the bi-annual Professional in Human Resources (PHR) or Senior Professional in Human Resources (SPHR) certification exams by providing a comprehensive review of the HR

body of knowledge by a carefully chosen SPHR instructor using the official SHRM® Learning System. You are provided with materials for all modules and 40 hours of instruction in a class with other HR professionals. (A CD-ROM with practice tests, flash cards and a full glossary is also available.) It is the clear choice to best prepare for the HRCI examination.

Program topics:

Module One: Strategic Management

Module Two: Workforce Planning and Employment

Module Three: Human Resource Development

Module Four: Compensation and Benefits

Module Five: Employee and Labor Relations

Module Six: Occupational Health, Safety and Security

Who should attend?

The course is specifically designed for managers and staff with experience in general management or human resource management:

- HR practitioners seeking professional development to enhance or advance their career
- Experienced managers who are new to the human resource field
- Mid-level managers pursuing career change or promotion
- HR professionals planning to take the PHR or SPHR certification exams
- HR professionals pursuing a broad overview of human resource management
- HR specialists desiring a broader understanding of human resource management

Certification Information

Please note that to earn either the PHR or SPHR designation, candidates must have at least two (2) years of exempt-level experience in the HR field.

The next test date is first Saturday in May and December. If you have any further questions regarding the PHR or SPHR exams, please visit www.hrci.org, call HRCI at 800-283-7476, Option #4, or e-mail info@hrci.org.

There is no single course of study that guarantees success on the HRCI examinations, but thousands of individuals have used the SHRM® Learning System to study for the exams. Course content reflects the general body-of-knowledge tested by the Human Resource Certification Institute. This course of study will in no way guarantee or assure success on the HRCI exam.

Instructor: JoAnn Senger, MA, SPHR

Date/time: Thursdays 6:00 – 9:00 pm
(3/3, 3/10, 4/21) and
Saturdays, 9:00 am – 1:00 pm
(3/19, 3/26, 4/2, 4/9, 4/16, 4/23)

Location: CSUCI, Bell Tower Building

Continuing Education Units: 3

Registration Number: SP05-005A

Fee: \$1,295 (includes Learning System materials)



PAYROLL PROFESSIONAL LEARNING SERIES



With new tax laws, changing administrative requirements, and the range of benefit options available to employees, payroll professionals are constantly updating and reviewing "standard operating procedures" and seeking new information and training to stay current. CSU Channel Islands' Extended Education offers this series in partnership with the American Payroll Association (APA).

The Payroll Professional Learning Series is comprehensive and covers the body of knowledge, which the APA defines as "critical skills required by the payroll professional". It is based on a recently completed job analysis study conducted by the APA and is the basis for the payroll professional certification exam, conducted bi-annually. Successfully passing this national examination will earn you the certified payroll professional (CPP) designation. More information is available through APA at www.americanpayroll.org/certi.html.

Program benefits:

An individual or group will gain:

- A foundation of knowledge for entering the payroll field.
- Formal training in payroll administration.
- Access to a network of peers to learn about payroll practices at other organizations.
- Continuing professional development.
- Knowledge of compliance issues related to tax and regulatory information.
- Preparation for the Fundamental Payroll Certification (FPC) and Certified Payroll Professional (CPP) Certification Examinations.
- Recertification credit hours to maintain your FPC or CPP credential.

Course audience and content description:

APA's Payroll Professional Learning Series consists of three courses:

Primary Payroll Skills (24 contact hours)

Essential Payroll Skills (24 contact hours)

Advanced Payroll Skills (30 contact hours)

PRIMARY PAYROLL SKILLS

Primary Payroll Skills introduces payroll fundamentals to workers who are new to the field and have limited experience in payroll administration and to professionals who are preparing for the FPC Examination. Current employees who are seeking a review of fundamentals for the CPP Certification Examination can also use it.

ESSENTIAL PAYROLL SKILLS

Essential Payroll Skills expands knowledge and application skills in the federal law and regulatory compliance area. This course is designed for current payroll department employees assuming greater responsibility and needing a broader understanding of benefit and tax administration and for payroll service and technology professionals who play a key support role in the industry. Professionals who are serious about earning the FPC and CPP designations may find this an effective way to study for the examinations.

ADVANCED PAYROLL SKILLS

Advanced Payroll Skills includes more complex payroll applications. The course is designed for employees seeking advanced-level payroll knowledge and application skills in the field. Participants include recently promoted payroll supervisors or managers and benefits administrators and financial officers with new responsibility for payroll. Professionals interested in earning the CPP designation may find this course an excellent way to study for the CPP Certification Examination.

Instructor: Pilar Ortega

Date/time: Saturdays, February 5 – March 26
9:00 am – 1:00 pm (8 meetings)

Location: CSUCI, Bell Tower Building

Continuing Education Units: 30 contact hours

Registration Number: W05-010A

Fee: \$395

ALL THREE COURSES

Registration Number: W05-011A

Fee: \$1,195



CUSTOM ONSITE PROGRAMS FOR YOUR BUSINESS

California State University Channel Islands can help your organization meet today's workforce challenges and prepare for the 21st Century. Our Custom Programs' representatives can tailor many of CSUCI's current courses to meet the needs of your business or organization. CSUCI will contract with your organization to offer a course or courses at your convenient work-site or at ours. This allows you to custom design the course with no consultant fees and to schedule times that are most convenient and cost-effective for your company.

Benefits of custom programs include:

- **Meet your organization's specific needs.**
CSUCI can design a course to address the particular needs of your employees.
- **Hold training on-site at your own location.**
Courses held at your own company save valuable time and money.
- **Schedule courses at times convenient for your staff.**
Since the courses are designed specifically for your company, the training can be planned to fit your schedule.

• **Cost-Effective Training.**

On-site training can be more effective because it meets specific needs, saves on travel expenses, and reduces valuable employee release time.

• **College Credit.**

Unlike most corporate training, CSUCI can offer credit for certain courses scheduled on-site (subject to approval).

Past clients include:

Amgen
DakoCytomation
NAVSEA
Technicolor
Ventura County Human Services Agency
WellPoint

For more information, call Dr. Gary Berg at (805) 437-8580.

These special session courses are designed to help students make progress towards a degree in convenient formats either online or at convenient off-campus locations.

Benefits for Students:

- Access to additional high quality curriculum
- Access to faculty from other geographical areas
- Convenience
- Additional way to learn

BUS 110 BUSINESS LAW 3

This course provides an introduction to the legal and regulatory environment of business, emphasizing the U.S. legal system is provided in this course. Topics include contracts, personal property, litigation, antitrust, labor agreements, discrimination, environmental protection and international trade and law. This course is offered only in an online format.

Instructor: TBA

Date: January 24 – May 13, 2004

Location: online

Registration Number: 1632

Fee: \$675

MGMT 307 MANAGEMENT OF ORGANIZATIONS ONLINE

This course covers principles, methods and procedures planning, organizing, leading, and controlling people within organizations are covered in this course. Topics include the history of management thought, organizational culture and design, decision-making, managerial communication, and strategic management.

Instructor: TBA

Date: January 24 – May 13, 2004

Location: online

Registration Number: 1633

Fee: \$675

HLTH 322 HEALTH ISSUES IN EDUCATION

Survey of school health programs with in-depth study of selected health education curricula and topic area, including alcohol, tobacco, drugs, communicable diseases and nutrition.

Instructor: TBA

Date: January 24 – May 13, 2004

Location: online

Registration Number: 1634

Fee: \$450

BUS 500 ECONOMICS FOR MANAGERS 3

This course covers material from both microeconomics and macroeconomics. Topics include market structure, demand analysis, consumer behavior, nature of the firm, measuring economic activity, inflation, unemployment, money and banking, and the role of the government.

Faculty: Ashish Vaidya, PhD, Professor of Economics

Date: January 4-March 24

Location: Online (two in-person meetings)

Registration Number: 1610

Fee: \$1,350

BUS 506 PRINCIPLES OF MANAGEMENT AND MARKETING 3

Presents an overview of the disciplines of management and marketing. Explains the basic elements of good management practices and describes the key aspects of effective marketing. Combines management and marketing disciplines through cases, role-play simulations, and computer-based simulations that are used to model managers' planning and decision-making processes.

Faculty: C.B. Claiborne, PhD, Professor of Marketing

Date: January 4-March 24

Location: Online (two in-person meetings)

Registration Number: 1611

Fee: \$1,350

BUS 504 INTRODUCTION TO ACCOUNTING AND FINANCE 4

Presents an overview of the role of accounting and finance in business. The first part of the course focuses on accounting as the language of business. Topics include basic assumptions and principles of accounting, the content and purpose of financial statements, and uses and limitations of the financial statements. The second part of the course focuses on the role of finance in supporting the functional areas of a business. Topics include time value of money, risk and capital structure.

Faculty: Cathy Claiborne, PhD
Associate Professor of Accounting

Date: April 5-June 23

Location: Online (two in-person meetings)

Registration Number: 1624

Fee: \$1,350

**BEGIN WORKING TOWARDS A DEGREE
SAMPLE A FIELD OR POSSIBLE CAREER
PROFESSIONAL AND PERSONAL ENRICHMENT**

Open University provides an opportunity for those people who are not currently admitted to California State University Channel Islands to enroll in courses offered by the regular university.

Begin Working Towards a Degree: Have you missed the deadline for admission? Do you want to improve your grade point average to better qualify for admittance?

Sample a Field or Possible Career: Are you thinking of a career change? Do you want to examine a new field before enrolling in a degree program?

Professional and Personal Enrichment: Do you want to update your professional training in specific fields? Interested in learning more about a particular subject for your own personal growth?

California State University Channel Islands' Open University program allows enrollment in regular university credit classes on a "space available" basis, subject to the approval of the instructor and Extended Education. Check the California State University Channel Islands Schedule of Classes for class meeting times and location. The registration process is easy. Admission to the University is not required, and the same fees apply to everyone. The course fees range from \$155 – 244 per unit, and students receive Extension Credit.

LIMITATIONS

We cannot guarantee a space nor assure you will be permitted to enroll in any class. Instructors are not required to accept Open University students even if space is available.

Open University is NOT Available to:

- Matriculated students (those admitted for the current semester)
- Non-matriculated international students with a score of less than 450 on the TOEFL examination or its equivalent
- International students on F-1 or J-1 visas without proper authorization.

Students may apply up to 24 units of Extension Credit toward a baccalaureate degree. At the option of the program coordinator, up to six units of Extension Credit may be applied to a graduate degree. Grades received through this program will be factored into your grade point average at California State University Channel Islands.

FOUR EASY REGISTRATION STEPS (FOR OPEN UNIVERSITY ONLY)

1. Check the California State University Channel Islands Schedule of Classes for the days and times of the courses you need.
2. You must use an Open University registration form to enroll in courses through this program (available on website or by calling 805-437-8495)
3. Attend the first class meeting and get instructor signatures. Registration is done on a "space available basis". Note: some departments may have additional requirements for certain classes. Attend the first class to obtain the instructor's signature. Instructors are not permitted to sign forms before the first day of class when they can determine space availability. Please do not ask instructors to sign forms before this day. We will not accept forms before the first day of your class.
4. Return the completed form to Extended Education by the end of the second week of classes. The fees per unit are the following:

Lecture unit: \$155.00

Activity unit: \$185.00

Lab unit: \$244.00

Full payment is required at the time of registration.

OPEN UNIVERSITY REGISTRATION DEADLINES:

Regular Registration: 1st two weeks of session

Late Registration Dates (\$20 late fee applies): 3rd week

Drop (with 65% refund, instructor signature required): end of 2nd week

Late Withdrawal (no refund, Instructor signature required): end of 3rd week

To confirm schedule and receive enrollment form, check the website or call (805) 437-8495.

Current schedule of classes, enrollment forms, etc. can be found at www.csuci.edu/exed

CSU CHANNEL ISLANDS CHORUS
CHRISTMAS CONCERT

The Holly and the Ivy

KUANFEN LIU, ARTISTIC DIRECTOR / CONDUCTOR
DEBRA DYKO, ACCOMPANIST
BEN MEDRANO, GUEST GUITARIST

UNIVERSITY CHORUS WILL BRING YOU THE SPIRIT OF CHRISTMAS
BY SINGING YOUR OLD TIME FAVORITE CHRISTMAS CAROLS AND ANTHEMS,
SUCH AS: *DECK THE HALLS*, *THE CHRISTMAS SONG*, *I'LL BE HOME FOR CHRISTMAS*,
WINTER WONDERLAND, *THE TWELVE DAYS OF CHRISTMAS*, *TWO SPANISH CAROLS*,
SELECTIONS FROM MESSIAH, AND BRITTEN'S *REJOICE IN THE LAMB*

FRIDAY, DECEMBER 10
7:30 P.M.

FIRST UNITED METHODIST CHURCH
1338 EAST SANTA CLARA STREET
VENTURA

SATURDAY, DECEMBER 11
7:30 P.M.

PADRE SERRA CATHOLIC CHURCH
5205 UPLAND ROAD
CAMARILLO

FREE ADMISSION WITH \$15 SUGGESTED DONATION
REQUESTED BY THE CHORUS
FOR MORE INFORMATION
PLEASE CALL: 805.643.8430
OR E-MAIL TO CICAINC@YAHOO.COM

 CALIFORNIA STATE UNIVERSITY
CHANNEL ISLANDS
SPONSORED BY
CHANNEL ISLANDS CHORAL ASSOCIATION



OSHER LIFELONG LEARNING INSTITUTE (OLLI)

The OSHER Lifelong Learning Institute (OLLI) at California State University Channel Islands brings the excitement and stimulation of college learning to area seniors (50 or better!) who wish to extend their learning experiences in a university atmosphere. At OLLI, university-quality short courses are offered by university faculty and qualified members of the senior community without the distraction of grading, or degree requirements. No more testing, just learning for pure stimulation and enjoyment!

Since September, 2004, OLLI has offered a wide range of quality courses. Membership in the Institute permits enrollment in one or more courses in each eight-week session, with three sessions offered each year. Members also play a large role in determining the courses that will be offered, and members may also propose and teach courses.

About the program:

Classes meet for 8 weeks, once a week (morning or afternoon), for approximately two hours.

Classes may have texts or other readings, but there are no tests or grades.

Classes meet on the campus of California State University Channel Islands. The campus is located near Camarillo, at the foot of the Santa Monica Mountains.

Classes span a wide range of topics from the arts, humanities, physical, biological and social sciences. University faculty and knowledgeable members of the senior community teach them.

To take advantage of classes, seniors must be members of the Institute. Yearly membership permits enrollment in one or more courses in each of the three sessions. Membership may also be taken for one session at a time.

How to Contact us:

Call: (805) 437-2748

E-mail: OSHER.Institute@CSUCI.edu

Director: Martin F. Kaplan, Ph.D.

Write: OSHER Institute, Professional Building,
California State University Channel Islands
One University Drive, Camarillo CA 93012

Web site: <http://www.csuci.edu/exed/Osher.html>



CONFIRMATION LETTER

After your paid registration is received you will receive confirmation by mail.

ACCREDITATION

CSUCI has applied for eligibility from the Senior College Commission of the Western Association of Schools and Colleges. WASC has reviewed the application and determined that CSUCI is eligible to proceed with an applicant for candidacy for accreditation. A determination of eligibility is not a formal status with the Accrediting Commission, nor does it assure eventual accreditation; it is a preliminary finding that the institution is potentially accreditable and can proceed within two years of its eligibility determination to be reviewed for candidacy status with the Accrediting Commission. Questions about eligibility may be directed to the institution or to WASC at wascrs@wascsenior.org or 510-748-9001

COURSE NUMBERING

- 100 – 299 Lower-Division Courses
- 300 – 499 Upper-Division Courses
- 500 – 599 Graduate and Teacher Credential Courses
- 800 – 999 Continuing Education Unit (CEU)

REFUNDS

For CEU and non-credit courses, refund request must be made in writing and received before the course begins. CSUCI retains \$20 of refunded fees as a processing fee. For degree credit courses, see University catalog and Schedule of Classes for refund dates and policies. Special Sessions refund policy: If a course is cancelled, the entire course fee will be returned. If students withdraw 24 hours prior to the first class meeting, 100 percent of the course will be refunded (less \$20 for processing). If a student withdraws after the first class and before 25 percent of the course has elapsed, 75 percent of the total fee will be refunded. After 25 percent of the course time has elapsed, no refund will be made; however, a drop form must still be filed. A stop payment on a check is NOT an acceptable withdrawal from the courses(s).

[This brochure is not printed at State of California expense]



EXTENDED EDUCATION/OPEN UNIVERSITY

DATE

BIRTH DATE

SOCIAL SECURITY #

TERM/YEAR

LAST NAME

FIRST NAME

MIDDLE INITIAL

ADDRESS

STREET

CITY

STATE

ZIP

TELEPHONE (DAY)

EVENING

FAX

E-MAIL ADDRESS

EMPLOYER

OCCUPATION

CLASS NBR	DEPT. NBR	COURSE NBR	SEC. NBR	COURSE TITLE	UNITS	INST'S. APPROVAL	FEES

*OPEN UNIVERSITY STUDENTS MUST OBTAIN INSTRUCTOR'S APPROVAL BEFORE ENROLLING.

CREDIT CARD #

☐ VISA ☐ MASTERCARD

EXP. DATE:

Authorizing Signature

Check (Make payable to CSUCI): Check #

MAIL TO:

CALIFORNIA STATE UNIVERISTY CHANNEL ISLANDS

EXTENDED EDUCATION

2nd Floor, Professional Building

One University Drive, Camarillo, CA 93012

FAX: (805) 437-8859 Phone: (805) 437-8495

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ACCESS

to quality higher education
for non-traditional students
and organizations

FEATURE ARTICLES:

What is Biotechnology?

It's a Networked Future: Staying Ahead of the Next Computer Science Wave



Department of Extended Education
One University Drive, Camarillo CA, 93012
General Information: 805-437-8495
E-mail: exed@csuci.edu
Web site: <http://www.csuci.edu/exed/>

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