

• AUTHORIZATION TO OFFER TOPICS COURSES FOR ACADEMIC CREDIT THROUGH EXTENDED STUDIES •

(Note: Extended Studies sections of topic classes for which the appropriate form E-T is not on file in the Office of Academic Programs will be removed from BANNER as periodic audits of course offerings are performed.)

Note: Any proposed topic can only be offered two times before being converted to a non-topics course. Academic Programs will assign the appropriate suffix and edit the topic description provided.

1. College of: College of Business Administration 2. Center/Program/Department: Department of Information Systems & Operations Management

3. Instructor Yi Sun, Fang Fang

(If more than one instructor will be teaching the course, list full name of the "instructor of record.")

4. Topic Abbreviation and Number: MIS484-2 MIS 484 Mobile App 5. Grading Method Regular\* Exam

6. Term Summer 7. Year 2011 8. Variable Units\* 4

9. Has this topic been offered previously? Yes No x No If yes, indicate term(s) Year

10. Topic Title: Mobile Business Application and Development

11. Topic Description: Note: This part can be skipped if answer to part 9 is "yes." (NOTE: Please provide detailed information about the topic. Please type. You may also attach the topic description on a separate sheet if you do not have enough space.

The emergence of a new generation of highly-capable mobile devices and platforms such as the Apple iPhone and Google Andriod have opened up new opportunities for application developers. This course will introduce students to mobile computing and mobile application development. The course will study various mobile technology, application development, and user interaction. Students will be introduced to development guidelines and application frameworks and development environments. Student will learn programming language to enable them to build mobile applications. Coverage of the underlying theory will be coupled with hands-on exercise through the development of innovative solutions to practical problems by building apps for both the Apple iPhone and Google Android.

12. Does this topic have prerequisites? All business lower division classes Enrollment restricted to students who have completed all lower division pre-business core classes

13. Does this topic have co-requisites? no (major status in Business Administration - i.e. attained business status)

14. Does the topic require consent for enrollment? Yes No x No Faculty Credential Analyst Dean Program/Center/Department - Director/Chair

15. Is topic crosslisted: Yes No x No If yes, indicate which course and obtain signature in #18.

16. What resources are needed to offer this topic (including technology)? Windows or Mac computer lab

17. Justification for offering this topic. This course is part of the Information System Option Curriculum elective courses. It is a popular offering for many schools in the nation. This course is designed to prepare students to build business mobile applications.

18. Does this topic impact any other disciplines? Note: This number can be skipped if answer to part 9 is "yes."

Yes  No If yes, obtain signature(s). Any objections should be stated in writing and attached to this form.

_____	_____	_____	Support	_____	Oppose
Discipline	Signature	Date			
_____	_____	_____	Support	_____	Oppose
Discipline	Signature	Date			

19. Location (if topic not offered at main campus) \_\_\_\_\_

20. Is this course being offered on-line?  Yes  No

21. Is this a contract topic?  Yes  No

22. Enrollment Limit 30

23. Requested Bldg/Room \_\_\_\_\_  
*Please call Extended Studies first to reserve the room.*

**Please note: A separate Form E-T must be submitted for each section offered.**

SIGNATURES

1.  Date 3/2/2011  
Program/Center/Department – Director/Chair

2.  Date 3/2/2011  
College Dean (or Designee)

The academic credentials of the instructor listed above are known to the Program/Center/Department (either regular faculty, or adjunct faculty with a curriculum vitae on file in the Program/Center/Department Office). The instructor is qualified to deliver the topic as described in part 9 (or on a previous Form T or Form E-T in the case of a topic that has already been offered).

3.  Date 3-10-11  
Dean of Extended Studies (or Designee)

Completed form received in the Office of Extended Studies

4.  Date 3/29/11  
Associate Vice President for Academic Affairs – Academic Programs

The CSIS concern that this topic offering not preclude CSIS from offering similar courses is reasonable and duly noted. (See attached email)

## Mobile Business Applications and Development

### Instructor:

Yi Sun / Fang Fang

### Course Description

The emergence of a new generation of highly-capable mobile devices and platforms such as the Apple iPhone and Google Android have opened up many new business opportunities. This course will introduce students to the general concept of mobile computing and mobile application development environment. Students will learn to identify new business opportunities in mobile computing and study the process and guidelines to design and develop new mobile applications. Coverage of the underlying theory will be coupled with hands-on exercise through the development of innovative solutions to practical problems by building apps. Students will learn a programming language to enable them to build mobile applications for across mobile computing platforms.

### Course Objectives:

*On successful completion of this module, the student should be able to:*

1. Understand the general concepts of mobile applications at both technical and business levels and identify applications that are best suited for mobile devices.
2. Analyze needs and requirements to develop mobile applications
3. Familiarize themselves with the creation of effective user interfaces for mobile devices.
4. Familiarize themselves with the development workflow of mobile applications,
5. Learn a programming language to implement the design of mobile applications
6. Design and deliver a Mobile Application.

### Grading Components and Letter Grades

Students' final grades (100 base) is calculated as the sum of the following grades

• Class participation and preparation quizzes	10 points
• Test 1	20 points
• Test 2	20 points
• Homework	20 points
• Group Project Report and Presentations	30 points
	<u>100 points</u>

The final grades will then be converted to your final letter grades according to the following table:

93-100	90 < 93	87 < 90	83 < 87	80 < 83	77 < 80	73 < 77	70 < 73	60 < 70	< 60
A	A-	B+	B	B-	C+	C	C-	D	F

### Course Policies:

- **Academic Integrity:** Student will be expected to adhere to the standards of academic honesty and integrity as outlined in the Student Academic Honesty Policy. All written work and oral presentation assignments must be original work. All ideas/materials that are borrowed from other sources must have appropriate references to the sources. Any quoted materials should give credit to the source and be punctuated with quotation marks. Students are responsible for the honest completion of their work including examinations. There will be no tolerance for infractions. If you believe there has been an infraction by someone in the class, please bring it to the instructor's attention. The instructor reserves the right to discipline any students for academic dishonesty, in accordance with the general rules and regulations of the university. Disciplinary action may include the lowering of grades and/or the assignment or a failing grade for an exam, assignment, or the class as a whole.
- **University Writing Requirement:** CSUSM has established a 2500-word writing requirement (10 pages) for each course. To meet this requirement, each student must complete the individual homework assignments and term project paper.
- **Students with Disabilities.** Students with disabilities who require academic accommodations must be approved for services by providing appropriate and recent documentation to the Office of Disabled Student Services (DSS). This office is located in Craven Hall 4300, and can be contacted by phone at (760) 750-4905, or TDD (760) 750-4909. Students authorized by DSS to receive accommodations should meet with me during my office hours or in a more private setting in order to ensure your confidentiality.
- **Confidentiality:** In order for us to have a free and open learning environment, each student is expected to respect the confidentiality of any information or materials shared in class discussion.
- **Special Note:** Keep your graded work until you receive your final official grade, for there might be recording errors by the instructor.

## Schedule and Topic

### 1 *Principles and Design (.5 week)*

- 1.1 Introduction to Mobile Applications
  - Characteristics
  - Benefits
  - Overview of Available Technologies
- 1.2 Mobile Application Design
  - Application Model and Infrastructure
  - Hardware and Software Architecture
  - Managing Resources
  - Development Workflow

### 2 *Development of Mobile Applications (1 week)*

- 2.1 Mobile Graphics
  - User Interface
  - Scalable Vector Graphics
- 2.2 Security
  - Secure Design
- 2.3 Networking
  - Basic Connectivity
  - Bluetooth Connectivity

**3 Technology Integration (4.5 weeks)**

3.1 Titanium Environment for Mobile Development (.5 weeks)

- Interface

- Functionality

2.2 Java script (3 weeks)

3.3 Design, develop and deploy a commercial application for Mobile Phones (1 weeks)

## Lourdes Shahamiri

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**From:** Rocio Guillen-Castrillo  
**Sent:** Tuesday, March 22, 2011 3:16 PM  
**To:** Lourdes Shahamiri  
**Subject:** RE: MIS 484 - Mobile Business Applications and Development

Hi Lourdes,

It is more the second "Or, is your intent ..." But, in addition the CSIS is very concerned about the fact that MIS is teaching course that look more like "watered-down" CS courses. This is affecting us because students would rather do easy courses.

Thank you,

Rocio

> Hi Rocio,  
>  
> David is uncertain about how to address your concern. Is this a  
> course that CSIS already teaches? If so, would MIS students in CoBA  
> have access to it in terms of having met prerequisites?  
>  
> Or, is your intent just to indicate that CSIS may desire to create a  
> similar course for its students at some point in the future and you do  
> not want to have that opportunity foreclosed by the existence of this  
> MIS course?  
>  
> Or, is there some other way that David should interpret your response?  
>  
> Lourdes  
>  
> -----Original Message-----  
> From: Rocio Guillen-Castrillo  
> Sent: Wednesday, March 16, 2011 11:17 AM  
> To: Lourdes Shahamiri  
> Subject: Re: MIS 484 - Mobile Business Applications and Development  
>  
> Hi Lourdes,  
>  
> Our main concern is that the course is not focusing on Business and  
> Management Information Systems per se, but rather on teaching a  
> programming language (not even mentioned) that is one of Computer  
> Science's major goal.  
>  
> Rocio  
>  
>> Hi Rocio,  
>>  
>> I am forwarding a copy of a topic proposed to be offered through  
>> Extended Learning. David asked that I send you a copy for you to  
>> review and let us know if CS and/or CSIS has any comments/concerns.  
>>  
>> Thank you.  
>>