

ACTIVE COURSE FILE

*Curricular Area: COMPUTER INFORMATION SYSTEMS Course Number: 2840

Course Title: Advanced iPhone/iPad Application Development

Semester Credit Hours: 3 Clinical Hours: 0 Lecture Hours: 3 Lab Hours: 0

Course description to appear in catalog:

Advanced course in iPhone/iPad Application Programming environment and use of Apple's System Development Kit (SDK) to develop and deploy data driven applications on iPhone/iPad. Topics include data modeling, databases using core data, SQLite and MySQL, interfaces to web services, application design and implementation of data driven applications. Creation of advanced iPhone/iPad applications. Repeatable for credit: No May be taken 3 times for credit.

Pre-Enrollment Criteria: Prerequisite: CIS 2592 iPhone/iPad Application Development with a grade of "NA" or better, or equivalent. Consent of instructor or

A. General Course Objectives:

Upon successful completion of the course the student should be able to do the following:

- Use core data between the iOS (iPhone operating system) and the Desktop
- Analyze data into data entities
- Transfer data with Table View Controllers
- Manage Web Services
- Define predicate databases
- Describe Multiple Operating System Controllers
- Design data for applications
- Implement data design
- Optimize performance and memory for mobile applications
- Manage blobs in data
- Assess Core Data
- Assess SQL data from an outside vendor

B. Topical Outline:

- Core data between iOS and desktop
- Data Modeling
- Table View Controllers
- Web Services
- Compound predicates
- Object Models
- Multiple View controllers
- Application implementation
- Performance and memory
- Blob Management
- Core data troubleshooting
- MySQL client in the iOS

C. Methods of Evaluating Students:

1. Methods of evaluation must include a combination of tests, quizzes, projects, participation, assignments, and attendance.

MARY ANN ZLOTOW	03-24-2012		
Initiator	Date	Division Dean	Date
	03-24-2012		
Sponsor	Date		