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## **COMMITTEE ON ACADEMIC AND STUDENT AFFAIRS**

**Wednesday, April 15, 2009**

**SUBJECT: APPROVAL OF NEW MASTER OF SCIENCE DEGREE**

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### **PROPOSED COMMITTEE ACTION**

Approval of new Master of Science Degree in Information Technology and Management, Advanced Information Technology (11.0101) College of Engineering

### **BACKGROUND INFORMATION**

The Master of Science Degree in Information Technology and Management, Advanced Information Technology (11.0101) is an innovative master's level program to be offered by the Department of Computer Science and Engineering in the College of Engineering and Computer Science. It designed to prepare students for employment as computer and information systems managers. As the economy becomes more global and competitive, companies are increasingly relying on information technology to be more productive and efficient. During the last few years, enrollment in undergraduate programs in this area has declined while enrollment in master level programs has been relatively steady. This new program will allow us to retain many of our baccalaureate graduates who have moved on to graduate programs offered by other universities in our area. Over time, we believe this program will attract more students who are not FAU graduates but are employed by companies and organizations in the tri county area.

This is a 33 credit master degree program with courses offered jointly by the Department of Computer Science and Engineering in the College of Engineering and the Department of Information Technology and Operations Management in the Barry Kaye College of Business. Students interested in following the Advanced Information Technology degree program will successfully complete seven courses offered by the Department of Computer Science and Engineering and three courses offered by the Department of Information Technology and Operations Management, and be awarded a Master of Science degree from the College of Engineering. All students will successfully complete Graduate Business Communication Applications (GEB 6215).

## **IMPLEMENTATION PLAN/DATE**

Fall 2009

### **FISCAL IMPLICATIONS**

The fiscal impact of this program is negligible. The proposed program will take full advantage of existing graduate course offerings, as well as innovations in the delivery and scheduling of courses in two departments. There are no new faculty, facilities, or additional resources required.

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**Supporting Documentation:**

**Executive Summary of Program Details**

**Presented by: Dean Karl Stevens, College of Engineering**

**Phone: 561-297-3426**

**Request to Offer a New Master of Science Degree in  
Information Technology and Management**

Jointly Offered by

Department of Information Technology & Operations Management  
Barry Kaye College of Business  
and  
Department of Computer Science and Engineering  
College of Engineering

**Executive Summary**

**1. Impetus for the Program**

As the economy continues to become more global and competitive, companies large and small are increasingly relying on information technology to be more productive and to improve efficiency. Highly competent IT professionals who can create, maintain, and manage information technology resources and infrastructures are essential to sustain this economic evolution.

The following table shows the national employment projection for “computer and information systems managers” (11-3021) from 2004 to 2014. This government employment matrix code captures the projected career paths for those students who would graduate from the proposed program.

Employment Matrix Code	Employment		Employment Change 2002-14		Median Annual Earnings
	2004	2014	Number	Percent	
11-3021	280,000	353,000	73,000	25.9%	\$92,570

The following table shows the *existing employment* as of May 2005, the most recent data available from the website, for local metropolitan areas and select other areas in Florida provided for comparison purposes. *Employment projections* for metropolitan areas are not available from the website.

Employment Matrix Code	Metropolitan Area	Number of Jobs	Annual Mean Wage
11-3021	WPB - Boca Raton – Boynton Beach	660	\$113,020
11-3021	Ft. Lauderdale - Pompano - Deerfield	910	\$96,530
11-3021	Port St. Lucie - Ft. Pierce	80	\$98,220
	<b>FAU Service Area</b>	<b>1650</b>	<b>\$102,590</b>
11-3021	Orlando – Kissimmee	980	\$94,710
11-3021	Tampa - St. Petersburg - Clearwater	1380	\$91,580
11-3021	Miami - Miami Beach - Kendall	1120	\$94,410



### **3. Correlation of Program with Strategic Plans/Goals of FAU**

The proposed program is listed in the current University Strategic Plan. FAU's Strategic Plan includes seven goals. Goal 2 is to meet statewide professional and workforce needs. More specifically FAU is committed to expend the academic and fiscal resources to train professionals in "nursing, teaching and advanced technology". Th