

February 23, 2012

MEMORANDUM:

TO: University Graduate Programs Committee

From: Dr. Paul Hart *P. H.*
Associate Dean, College of business

Dr. Allen Smith *aa*
Chair, College of Business Graduate Council

Subject: Proposal for Accelerated B.S.

The College of Business Graduate Council met on February 9, 2012 to review the B.S./B.B.A. MIS-MSITM Program proposed by the Information Technology and Operations Management Department (ITOM) within the College of Business. After discussion, the COB Graduate Council unanimously approved the proposed B.S./B.B.A. MIS-MSITM Program.

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MEMORANDUM

TO: College of Business Graduate Council

FROM: Tamara Dinev, Department Chair and Associate Professor

RE: Proposal for Creation of Accelerated B.B.A. in MIS/MSITM Degree Program

DATE: February 6, 2012

This proposal is to create an integrated, five-year, 150 credit-hour program that leads to the joint award of a B.B.A/B.S. in Management Information Systems (MIS) and a Master of Science in Information Technology Management (MSITM) awarded by ITOM. ITOM combined-degree program provides academically talented students an opportunity to complete a bachelor's and a master's degree in a shorter period of time. The ITOM Department voted unanimously for the program. In creating the program, ITOM is following the model of leading combined degree programs such as the one in FAU's School of Accounting, UF, and others.

I. Rationale for the Program.

- **Florida SUS Priority on STEM Education.** State officials say less than 20 percent of Florida college and university graduates are earning degrees in the STEM disciplines. In a recent speech, State University Chancellor Frank Brogan noted that Florida must reinvent its university system by placing a greater emphasis on graduating students in science, technology, engineering, and math. Mr. Brogan said Florida needs to build a "knowledge-based economy" that will better help college graduates find jobs. The MIS and MSITM degrees ITOM offers in the College of Business are STEM degrees. ITOM educates and trains the future IT business professionals and managers who create, run, apply, and manage the Information Technology and the Information Systems in businesses and organizations.

- **High Industry Demand for high skilled IT professionals.** Nationwide and in South Florida industries are experiencing shortage of highly skilled IT workers, as evidenced by many studies and articles. Some examples are given below:
 - According to the U.S. Bureau of Labor Statistics, career opportunities for MIS professionals are expanding rapidly and will continue to do so for the foreseeable future due to the growth of the knowledge economy, data analytics, e-commerce, and telecommunications industries.
 - The same agency reports that employment in computer professionals category, including computer systems analysts, database administrators and other computer professionals is expected to increase up to 53.4 percent by 2018; computer and information systems managers by 17% increase.
 - 51% of CIOs (Chief Information Officers) say it's difficult to find skilled IT professionals.
 - 64% indicate understaffing interferes with innovation.
 - IT jobs rank #6 among top 10 hardest to fill in US (source: Robert Hall Technology Survey, 2011, Manpower group talent shortage survey, 2011)
 - A 2010-2011 CNN Money study based on data from the Bureau of Labor Statistics states that 16 of the top 50 careers will be in information technology.

To prepare a qualified workforce skilled in information technology and information technology management, the COB's Information Technology and Operations Management (ITOM) department offers a B.B.A. in MIS and an Master of Science in IT Management. However, at this time we cannot most efficiently capture the talented undergraduates and direct them to a graduate program and offer them a smooth and efficient, cost-saving way to earn a graduate degree.

- **Competition from other academic institutions.** Our neighboring and aspiring institutions, such as University of Florida, University of South Florida, University of Miami, Florida International University, Nova Southeastern University all offer similar programs and some of them - accelerated or combined degree programs.

This competition requires us to be creative to pursue new and different ways to grow our programs and especially to capture the most talented students before they leave the university and offer them a lucrative way to earn their graduate degree.

Summary. In view of the strategic priorities of FAU for STEM education, the industry demands, and the competition, we want our top undergraduate students to stay at FAU and pursue a master's degree at FAU. We want to provide access to our high performers.

To this end, we are proposing the ITOM Accelerated Undergraduate MIS and Master of Science in ITM Program.

II. Advantages of the Accelerated Degree

- Qualified students can obtain an undergraduate and a graduate degree in much less time than two separate degrees.
- The cost of both degrees is reduced.
- Students have time to decide whether to pursue further graduate or professional study.
- Student marketability is greatly enhanced; many professions now require a master's degree for even entry-level positions.

III. Program Details and Coursework

The proposed *Accelerated B.B.A. in MIS/MSITM Degree Program* would be a dual-degree program designed to prepare highly-motivated students for careers as IT professionals. The program would be a full-time two-year program beginning in the senior year and would be based on the Boca Raton campus. Students will complete a rigorous curriculum, take their information technology classes together as a cohort group, and participate in professional development activities.

Students should apply for the program in the spring semester of their junior year and must complete 150 credits in specified courses, satisfy all University and College major degree requirements for each academic program, maintain a cumulative and major GPA of at least 3.0 on a 4.0 scale, and satisfy all other requirements of the accelerated program. Upon completion, students will receive a Bachelor of Business Administration in Management Information Systems and a Master of Science in Information Technology Management. Students must receive both degrees simultaneously, even if the bachelor's degree requirements are completed earlier. For details, contact an advisor in the College of Business Office of Graduate Student Programs.

Prerequisite Coursework for Transfer Students: Students transferring to Florida Atlantic University must complete both lower-division requirements and requirements for the college and major. Lower-division requirements may be completed through the A.A. degree from any Florida public college, university or community college or through equivalent coursework at another regionally accredited institution. Before transferring and to ensure timely progress toward the baccalaureate degree, students must also complete the prerequisite courses for their major as outlined in the *Transfer Student Manual* (see www.fau.edu/registrar/tsm.php).

All courses not approved by the Florida Statewide Course Numbering System that will be used to satisfy requirements will be evaluated individually on the basis of content and will require a catalog course description and a copy of the syllabus for assessment.

ADMISSION PROCESS

Students should apply to the program in the spring semester of their junior year. To be considered for the program, students must have a cumulative undergraduate GPA of at least 3.0 and an information technology GPA of at least 3.0. Students must also complete an on-site essay and interview with a member of the Information Technology and Operations Management Accelerated Undergraduate/Graduate Programs Committee. Prior to beginning the program, students must complete:

Junior Year Courses: Pre-requisites to enter 2 year program - GPA of at least 3.0

Semester	Course	Title	Pre-Requisite	Credits
Fall	ISM 3011	Management Information Systems	ISM 2000 COB Core	**3**
		Management Information Systems Major Course		
Fall	ISM 3230	Introduction to Computer Systems and Software Development	ISM 2000	3
Fall	ISM 4220	Business Data Communications	ISM 3011	3
Spring	ISM 4212	Database Management Systems	ISM 3230	3
Spring	ISM 4133	Adv. Systems Analysis and Design	ISM 4212	3
			Major Courses total	12

Time Table for Admission and Acceptance (junior year)

December: Applications due one week after fall grades posted

February: Complete essay and interview

March: Notification of admittance

Fees: Students must complete the graduate application and submit the \$30 processing fee.

On-Site Essay

Students meeting the GPA and admission test minimums will be invited for an on-site essay to be administered by the Office of Graduate Student Programs. Normally students take the GMAT exam as part of the graduate admission process. The GMAT has an analytical writing component. The on-site essay for applicants to the ITAUG serves as an alternative way for the writing of applicants to be evaluated. Students will be contacted through their FAU email account to schedule the on-site essay.

Faculty Interview

Students who satisfactorily meet the admission criteria and who have demonstrated acceptable writing skills in the on-site essay will be invited for an interview. Students will have the opportunity to ask questions about the program. Interview committee members will use the interview to determine the student's commitment and ability to complete the rigorous requirements of the program and interest in the information technology profession. Because the program includes an internship, students should treat the interview with the same importance as a job interview. This includes being prepared, bringing a resume, and dressing professionally.

PROGRAM REQUIREMENTS

Students accepted into the **Accelerated B.B.A. in MIS/MSITM Degree Program** must abide by the rules set forth by the Information Technology and Operations Management Accelerated Undergraduate/Graduate Programs Committee.

Specific requirements include:

- Agree to be full-time students for two years
- Complete cohort courses as scheduled
- Maintain an overall GPA of 3.0 and an information technology GPA of 3.0
- Abide by the Information Technology Accelerated Undergraduate MIS and Master of Science in ITM Program Honor Code
- Participate in student organizations
- Attend special events designed to enhance understanding of the information technology profession or to improve the student's personal skills

Students who successfully complete the first year of the program are admitted to graduate school in the fall of the second year. The financial aid status of the student changes to graduate at this time. Students who have not maintained the requirements are not automatically admitted to graduate school. These students may apply to graduate school by taking the GMAT and going through the regular graduate school admission process.

INFORMATION TECHNOLOGY ACCELERATED UNDERGRADUATE MIS AND MASTER OF SCIENCE IN ITM PROGRAM TWO YEAR PROGRAM PLAN

Three of the following MIS major courses must be completed with a grade of "B" or better. If you wish to concentrate in one of the two areas below, it is recommended that you take all three courses from that concentration.

Year 1: Undergraduate MIS Concentration (Senior Year)

<u>Semester</u>	<u>Course</u>	<u>Title</u>	<u>Pre-Requisite</u>	<u>Credits</u>
		Business Intelligence Concentration		
Fall	ISM 3116	Introduction to Business Intelligence	ISM 3011	3
Fall	ISM 4117	Data Mining and Data Warehousing	QMB 3600	3
Spring	ISM 4403	Advanced Business Intelligence	QMB 3600	3
		Information Security Concentration		
Fall	ISM 4320	Information System Security	ISM 4220	3
Fall	ISM 4323	Security Management		3
Spring	ISM 4324	Computer Forensics		3
		Optional courses when available		
	ISM 4930	Special Topics in Information Systems		3
	ISM 4930	Social Media and Web Technologies		3
			MIS Concentration total	9

Year 1: MS/ITM Courses (Senior Year)

<u>Semester</u>	<u>Course</u>	<u>Title</u>	<u>Note</u>	<u>Credits</u>
Spring	GEB 6215	Graduate Business Communication Applications	Undergraduate Elective	3
Summer	ISM 6026	Management of Information Systems and Technology		3
Summer	TBD	College of Engineering and Computer Science – Course		3
			Year total	9

Year 2 - MS/ITM Courses – 12 credits each semester

Semester	Course	Title	Note	Credits
Fall	ISM 6368	Enterprise Information Technology Service Management		3
Fall	ISM 6316	IT Project and Change Management		3
Fall	ISM 6930	Advanced Business Analytics – replaces ISM 6319	ITOM SUBSTITUTE COURSE	3
Fall	TBD	College of Engineering and Computer Science – Course		3
Spring	ISM 6328	Information Security Management		3
Spring	ISM 6508	Web-based Business Development		3
Spring	ISM 6509	IT Sourcing Management		3
Spring	TBD	College of Engineering and Computer Science – Course		3
Spring	ISM 6319	IT Investment Planning and Evaluation	Not currently offered	*3*
TBD	ISM 6930	Information Technology & Operations Management Internship	ITOM SUBSTITUTE COURSE Enrollment is dependent on availability of employers	**3**
			Year total	24

Pre-Business core – min. 60 credits		60
Business Core - 33		33
BBA or BS MIS MAJOR	21	
MSITM graduate credits	33	
Information Technology Accelerated Undergraduate MIS and Master of Science in ITM Program Total Credits	54	54
One undergraduate or graduate elective		3
Combined Degree Total		150