

FLORIDA ATLANTIC UNIVERSITY
COLLEGE OF ENGINEERING & COMPUTER SCIENCE

ENGINEERING + BUSINESS (E + B) PROGRAM

*In response to the needs of engineers and computer scientists with management interests or responsibilities, the Florida Atlantic University College of Engineering and Science and the College of Business have collaborated to offer the **Engineering + Business (E+B) Program**. This program is designed to help prepare professionals who can think and work as both engineers and business people. With **E+B**, individuals pursuing a non-thesis master's degree in engineering or computer science are able to include in their course requirements a set of five business courses constituting a **Minor in Business**. The purpose of this document is to inform students, faculty, and graduate advisors of the **E+B (Business Minor) Program** and its requirements. Information on procedures for admission, registration, advising, and graduation are included.*

WHO SHOULD BE INTERESTED IN THE E+B PROGRAM (BUSINESS MINOR)?

Corporations increasingly are seeking individuals with the ability to integrate and work across traditional boundaries. The **Minor in Business (E+B) Program** is designed to help prepare professionals who can think and work as both engineers and business people. **E+B** provides a unique, graduate-level program of study combining technical course work in Engineering or Computer Science with a sequence of courses designed to provide a broad background in modern business concepts. The program is ideally suited for engineers or computer scientists with management interests or responsibilities. Should participants later wish to pursue an MBA degree, courses taken as part of the **Business Minor** apply toward prerequisites for an MBA program at many schools.

WHAT DEGREE PROGRAMS ARE AVAILABLE?

The College of Engineering and Computer Science offers masters degrees in the following disciplines; the **E+B Program** is available as an option in each. Each degree program requires 18 or 21 semester-credit hours of technical courses, plus 15 semester-credit hours of business courses. Total hours required for the degree is as indicated; there is no thesis requirement.

<u>Program</u>	<u>Total Credit Hours for Degree</u>
Civil Engineering	36
Computer Engineering	36
Computer Science	36
Electrical Engineering	36
Mechanical Engineering	33
Ocean Engineering	36

WHAT BUSINESS COURSES ARE REQUIRED FOR E+B?

Requirements for the **Business Minor** include completion of 5 graduate-level business courses (3 semester-credits each) from the following list of course descriptions which is available in the College of Business section of the FAU Graduate Catalog on the web at www.fau.edu/academic/registrar/univcatalog/welcome.htm:

1. ACG 6027 – Financial Accounting Concepts
2. FIN 6406 – Financial Management
3. MAR 6055 – Marketing Functions and Processes
4. MAN 6937 – Global Environment of Management **OR** MAN 6245 – Organizational Behavior
5. ISM 6026 – Management of Information Systems & Technology **OR** QMB 6603 – Data Analysis for Managers

Some substitution of courses may be possible for students with prior academic background in one or more of these areas. Consultation with the Graduate Business Advisor (see last page) is recommended to assure proper placement in the Business courses. Students are advised to have some background in microeconomics or engineering economics before taking MAR 6055 (Marketing Functions and Processes). There are no prerequisites for the Business courses other than admission to a master's degree program in Engineering or Computer Science.

WHAT TECHNICAL COURSES ARE REQUIRED FOR E+B?

The department offering the degree determines technical courses required for the E+B Programs. Students should contact the department and arrange for a graduate advisor to work with them in planning a schedule of courses that will satisfy their needs and interests and meet all departmental and College of Business requirements. Requirements on the technical component of the degree program are as specified by the offering department in the FAU Graduate catalog which is on the web at www.fau.edu/academic/registrar/univcatalog/welcome.htm.

WHEN AND WHERE ARE COURSES AVAILABLE?

All Engineering and Computer Science courses required for the degree are offered on the FAU main campus in Boca Raton. Many of them are offered at places of employment and off-campus sites through the **Florida Engineering Education Delivery System (FEEDS)**. FEEDS is a State-wide distance education system for delivery of graduate engineering education using instructional television (live and recorded) and other modes of telecommunication. Information on FEEDS is available upon request (see last page) and also on the web: www.eng.fau.edu/feeds The Business courses are offered in the evening or at other convenient times on the Boca Raton campus, with selected offerings in Broward or North Palm Beach. A current schedule of course offerings is listed on the web at www.fau.edu/academic/registrar/univcatalog/welcome.htm.

WHAT IS THE ADMISSION REQUIREMENT FOR E+B?

The **Business Minor (E+B)** is available to all individuals admitted by the University to master's level studies in any program in the College of Engineering and Computer Science, including computer science. It is not available to students enrolled with non-degree-seeking status. General admission requirements for graduate studies in the College of Engineering and Computer Science include an undergraduate degree from an accredited institution in engineering, computer science, or related fields; a combined score of 1000 or higher on the verbal and quantitative portions of the Graduate Record Examination (GRE); and a grade point average (GPA) of at least 3.0 (of a 4.0 maximum) in the last 60 credit hours attempted prior to receipt of the undergraduate degree. Additional information on program entrance requirements is given in the FAU Graduate catalog, which is on the web at www.fau.edu/academic/registrar/univcatalog/welcome.htm.

WHAT IS THE ADMISSION PROCEDURE?

The first step is to obtain admission to a master's program in Engineering or Computer Science, after which an academic advisor will be assigned. Application information and materials are available upon request from the graduate advisor in each of the Engineering Departments (see listing below). Students wishing to pursue the **Business Minor** simply declare their interest to their graduate advisor when planning their program of study, which should be done early on. Students also are advised to discuss their interests and background with the Graduate Business Advisor (see below) to assure proper placement in Business courses.

The student and the academic advisor complete an Admission to Candidacy form (sample attached), listing the courses to be taken for the degree program and declaring intent to pursue a **Business Minor**. Students are advised to retain a copy of the completed form for their records. After approval by the department and the Dean of Engineering, the Dean's Office forwards a copy of the Candidacy form to the College of Business. The student's name is then placed on the roster of those pursuing the **E+B Program**.

WHAT RECOGNITION IS RECEIVED FOR COMPLETION OF THE E+B PROGRAM?

The Minor in Business is awarded upon graduation as an integral part of a master's degree program in Engineering or Computer Science; it is not awarded independent of these degrees. Upon certification of completion of the Minor by the College of Business (on the Application for Degree form; sample enclosed), the designation **Minor in Business** will be placed on the student's final academic transcript, along with the title of the specific degree awarded.

WHO CAN HELP OR PROVIDE MORE INFORMATION:

Mohammad Ilyas, Associate Dean, College of Engineering and Computer Science: (561) 297-3400, fax: (561) 297-1111, email: ilyas@fau.edu.

Computer Science: **Bob Cooper**, Professor, (561) 297-3673, bob@cse.fau.edu

Computer Engineering: **Imad Mahgoub**, Professor, (561) 297-3458, imad@cse.fau.edu

Electrical Engineering: **P. Neelakantaswamy**, Professor, (561) 297-3469, neelakan@fau.edu

Mechanical Engineering: **G. Q. Cai**, Professor, (561) 297-3428, caig@fau.edu

Civil Engineering: **Pete Scarlatos**, Professor/Chair, (561) 297-0466, scarlatos@civil.fau.edu

Ocean Engineering: **Richard Granata**, Professor, (561) 296-7237, rgranata@seatech.fau.edu

FEEDS Program, College of Engineering and Computer Science: (561) 297-3578, fax: (561) 297-2659, email: feeds@fau.edu.

Graduate Business Advisor: **Fred Taylor**, **Andrew Kelly** or **Nicole Hammer**, Graduate Advisors, College of Business: (561) 297-3650, fax: (561) 297-3686, email: mba@fau.edu.

FLORIDA ATLANTIC UNIVERSITY
COLLEGE OF ENGINEERING & COMPUTER SCIENCE
BUSINESS MINOR FOR NON-THESIS MASTER'S PROGRAMS

GRADUATE ADVISOR: Please complete, sign and date this form indicating your approval for the student named to pursue a Minor in Business as part of their non-thesis master's program. Attach a copy of this form to the student's Admission to Candidacy form and send a copy, along with the student's transcript (unofficial copy) to Fred Taylor, Andrew Kelly or Nicole Hammer, Graduate Advisors, College of Business: (561) 297-3650, fax: (561) 297-3686, email: mba@fau.edu.

Additional copies should be distributed as follows: student, student's file, Dean's office.

STUDENT INFORMATION

Name: _____ Social Security # _____
 Major Program: _____ Date of Admission: _____

GRADUATE ADVISOR'S APPROVAL

Name: _____ Signature: _____
 Date: _____

BUSINESS MINOR RECORD

	Term/Year	Grade
ACG 6027 – Financial Accounting Concepts	_____	_____
FIN 6406 – Financial Management	_____	_____
MAR 6055 – Marketing Functions & Processes	_____	_____
MAN 6937 – Global Environment of Management	_____	_____
OR		
MAN 6245 – Organizational Behavior	_____	_____
ISM 6026 – Management of Information Systems & Technology	_____	_____
OR		
QMB 6603 – Data Analysis for Managers	_____	_____

Certification of Completion of the Minor:

Signature: _____ Date: _____