MEMORANDUM OF UNDERSTANDING BETWEEN MIAMI-DADE COMMUNITY COLLEGE AND THE UNIVERSITY OF FLORIDA COLLEGE OF ENGINEERING FOR A CUSTOMIZED PROGRAM OF STUDIES LEADING TO A BACHELOR OF SCIENCE DEGREE IN ENGINEERING

Preamble

This agreement establishes a plan whereby a student will complete a Pre-Engineering Associate in Arts degree at Miami-Dade Community College, an outline of which is appended as Attachment A, and transfer to the University of Florida College of Engineering for continuation and completion of engineering studies. Upon completion of the academic requirements of the two cooperating institutions, the student shall be awarded a Bachelor of Science degree from the University of Florida in any of the engineering majors listed below:

Aerospace Engineering
Agricultural & Biological Engineering
Chemical Engineering
Civil Engineering
Computer Engineering
Electrical Engineering
Engineering Science
Environmental Engineering
Industrial & Systems Engineering
Materials Science & Engineering
Mechanical Engineering
Nuclear Engineering
Nuclear Engineering Sciences
Surveying & Mapping

Program of Study at the Community College

As of the date of this Memorandum of Understanding, the student shall complete a minimum of sixty (60) semester hours of coursework at the community college, incorporating 36 hours of required general education studies, and the required preprofessional courses in calculus, differential equations, chemistry, and physics with calculus. Upon completion of this program of study, the student shall be eligible for the award of an Associate in Arts degree. If any of the required preprofessional courses is not offered at the community college, special provision will be made for such a course to be completed at the University of Florida. Notwithstanding the number of credits completed at the community college, and based upon current interpretation of state guidelines, a maximum of 60 credit hours will be transferrable to the University of Florida for application to the bachelor of science degree program requirements. Furthermore, it should be noted that not all courses completed to fulfill the requirements of the Associate in Arts degree, are transferrable to the bachelor of science degree program.

Approval for Degree-Seeking Status at the University of Florida

In order for a participating student to achieve degree-seeking status at the University of Florida, he or she must have:

1. Completed the Pre-Engineering Associate in Arts degree program at the community college, and received an AA degree.
2. Achieved a minimum grade point average of 2.50 in the required pre-professional courses: calculus, differential equations, chemistry, and physics with calculus.
3. Complied with all admission requirements of the University of Florida.
4. Received a recommendation from a designated official at the community college.

Hours Required to Complete Designated Bachelor's Degree

The student participating in this program will be required to complete a University of Florida program of study which covers the number of credit hours and courses stipulated for the particular degree being sought. If the official program of study at the University of Florida includes free electives, and the participating student has excess hours of credit at the community college which are equivalent in course content, these hours may be used to reduce the hours required at the University of Florida, provided that the number of hours accepted from the community college does not exceed 60 hours, in accordance with the current interpretation of SB 2330.

PRE-ENGINEERING ASSOCIATE IN ARTS DEGREE
A Customized Program of Engineering Studies Between
Miami-Dade Community College and the University of Florida College of Engineering

Proposed:	Structured Program of Engineering Studies
Associate in Arts Degree:	Pre-Engineering
Bachelor of Science Degree:	UF College of Engineering

Program Description

The Pre-Engineering Associate in Arts degree was designed to prepare students for programs of study in all disciplinary areas at the University of Florida College of Engineering (UFCoE). Upon satisfactory completion of this program, with a combined minimum technical grade point average of 2.5 in the mathematics and natural sciences categories, students will be directly admitted into the College of Engineering, subject to compliance with University of Florida admission requirements. It should be noted that not all credits completed at the community college to meet AA degree requirements, are transferrable to the bachelor of science degree programs.

A Bachelor of Science degree may be earned in any of the following majors:
Aerospace Engineering, Agricultural & Biological Engineering, Chemical Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Engineering Science, Industrial & Systems Engineering, Materials Science & Engineering, Mechanical Engineering, Nuclear Engineering, Nuclear Engineering Sciences, Surveying & Mapping.

Students should refer to the Transfer Advisement Manual for details of programmatic requirements leading to the bachlor of science degree for each major.

YEAR ONE

First (Fall) Term			Credits
ENGLISH	ENC1101	English Composition	3
HUMANITIES	HUM1020	Humanities	3
NATURAL SCIENCES	CHM1045	General Chemistry I	3
NATURAL SCIENCES	CHM1045L	General Chemistry I Laboratory	2
MATHEMATICS	MAC2311	Calculus and Analytic Geometry I	5
		Total for Term	**16**

Second (Spring) Term			Credits
ENGLISH	ENC1102	English Composition II	3
SOCIAL SCIENCE/HISTORY	ISS1120	Social Environment	3
NATURAL SCIENCES	CHM1046	General Chemistry II	3
NATURAL SCIENCES	CHM1046L	General Chemistry II Laboratory	2
MATHEMATICS	MAC2312	Calculus and Analytic Geometry II	4
		Total for Term	**15**

YEAR TWO

Third (Fall) Term			Credits
HUMANITIES		Approved Course	3
ENGLISH	ENC2301	Advanced Composition I	3
NATURAL SCIENCES	PHY2048	Physics with Calculus I	5
NATURAL SCIENCES	PHY2048L	Physics with Calculus I Laboratory	1
MATHEMATICS	MAP2302	Differential Equations	3
		Total For Term	**15**

Fourth (Spring) Term			Credits
ENGINEERING ELECTIVE		Approved Course	3
SOCIAL SCIENCE/HISTORY	PSY1000	The Individual in Transition	3
NATURAL SCIENCES	PHY2049	Physics with Calculus II	5
NATURAL SCIENCES	PHY2049L	Physics with Calculus II Laboratory	1
MATHEMATICS	MAP2313	Calculus and Analytic Geometry III	4
		Total for Term	**16**

(over)

Summary of Credits for the Miami-Dade Community College Pre-Engineering Associate in Arts Degree:

Category	Credit Hours
English	9 hours
Mathematics	16 hours
Humanities	6 hours
Natural Sciences	22 hours
Social Sciences/History	6 hours
Engineering Elective	3 hours
Total for Degree:	**62 Hours**

CONTACTS

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University of Florida:

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Notes:

1. Course selection in English, Natural/Physical Science, and Mathematics based upon Placement Testing.
2. Students may be required to complete certain preparatory courses prior to commencing the designated pre-professional courses in mathematics, chemistry, and physics.
3. Writing competence requirement may be satisfied by approved Humanities and Social Sciences courses.
4. Students should refer to the course listing under AA General Education Requirements for all approved courses.
5. Students must comply with all graduation requirements for the Associate in Arts degree.
6. The technical grade point average (gpa) is based on a 4.0 scale, and will be computed on all attempts for which a letter grade was earned and included on the transcript.
7. The courses to be used in computation of the technical gpa are : MAC 2311, MAC 2312, MAC 2313, MAP 2302, CHM 1045, CHM 1046, PHY 2048, PHY 2049. If MAP 2302 or its equivalent is not offered at the community college, it may be completed at the University of Florida.
8. The general education requirements of the Accreditation Board for Engineering and Technology (ABET) will be met through satisfactory completion of the general education requirements for the Associate in Arts degree.
9. The State University System requires 8 semester hours of college foreign language courses for admission. Students without two years of high school foreign language must complete two terms of college level language courses prior to enrolling at the university.
10. Satisfactory completion or waiver of the College Level Academic Skills Test (CLAST) is a requirement for admission to the University of Florida.
11. Students are expected to enter the engineering program with computer skills. Programming in C and/or C ++ is suggested.
12. Students should consult with Chemistry instructors for correct placement in the sequence.
13. Co-op credits in engineering are acceptable.

Student Readmission

Any participating student admitted to the University of Florida who does not successfully complete his or her requirements for the Bachelor of Science degree prior to leaving the university in good academic standing, will be given the opportunity to pursue completion of the degree at a later date, subject to compliance with University of Florida readmission policies.

Termination/Modification

A. This memorandum is subject to change or modification as deemed necessary by either party. It is understood and agreed that this memorandum may be modified as may be necessary to bring it within the purview of and in accord with the directives and policies of the Board of Regents of the State University System of Florida, the Statutes of the University of Florida, or the policies governing operation of the public community colleges of Florida.

B. This memorandum may be terminated by either party upon written notice to the other party.

SIGNATURES OF RESPONSIBLE AUTHORITIES AT THE COOPERATING INSTITUTIONS

MIAMI-DADE COMMUNITY COLLEGE

Signature obscured for security

Eduardo J. Padrón, President
Miami-Dade Community College

Signature obscured for security

Barbara S. Echord
District Dean of Academic Affairs

11/96
Date

UNIVERSITY OF FLORIDA COLLEGE OF ENGINEERING

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Winfred M. Phillips, Dean

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Warren Viessman, Jr.
Associate Dean for Academic Programs

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Jonathan F. K. Earle
Assistant Dean for Academic Programs
Program Coordinator

11/08/96
Date