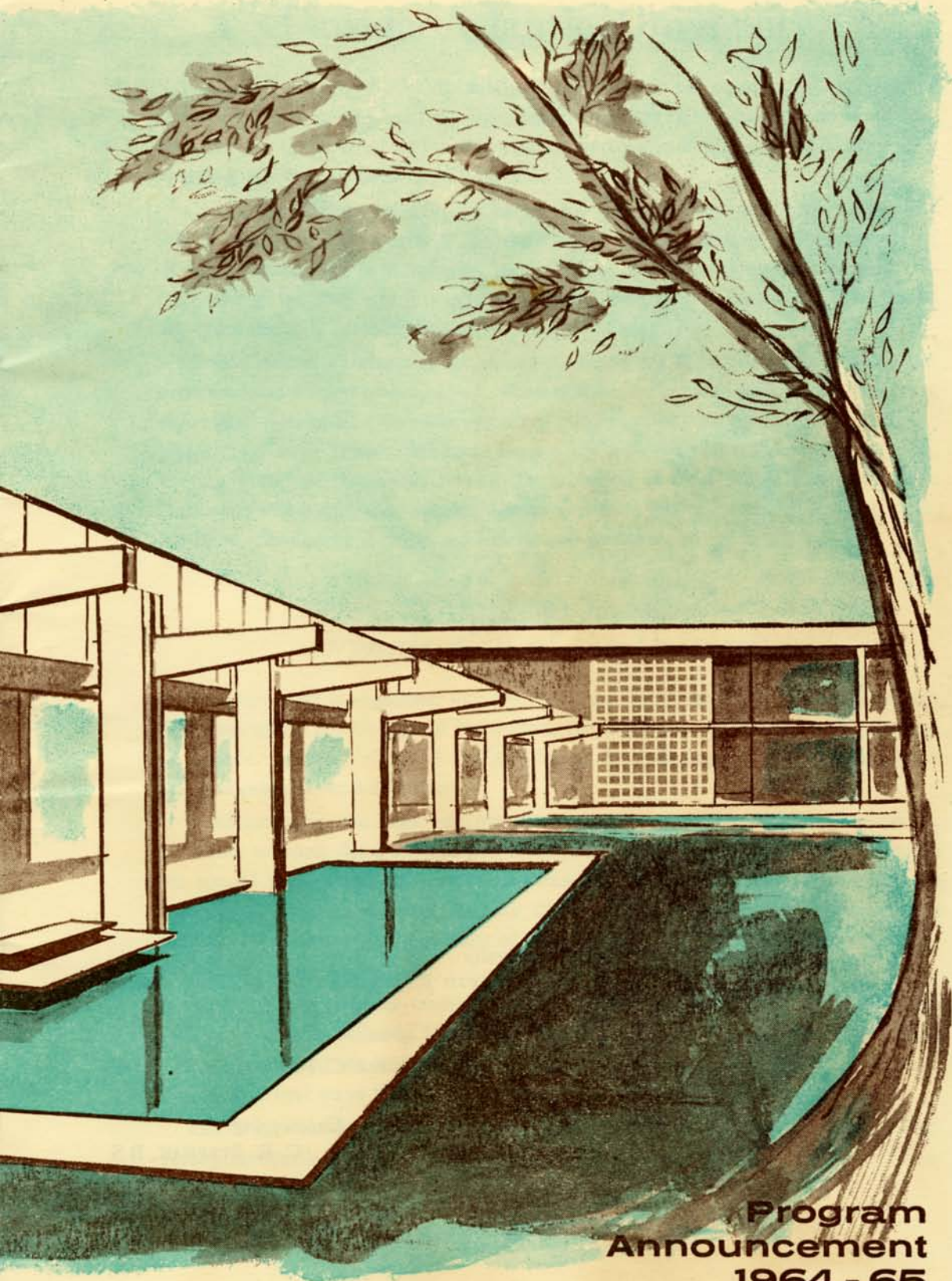


Department of Ocean Engineering



Program
Announcement
1964 - 65

FLORIDA **A**TTLANTIC **U**NIVERSITY

BOCA RATON
FLORIDA

The President of the University

KENNETH R. WILLIAMS, B.A., M.A., Ph.D.

The Dean of Academic Affairs

PALMER C. PILCHER, B.A., Ph.D.

The Chairman of the Department of Ocean Engineering

C. R. STEPHAN, B.S.

Florida Atlantic University

The establishment of Florida Atlantic University is the culmination of years of concerted effort on the part of civic leaders, government officials and educators who defined the needs of Florida's young people and adults and who outlined a plan to make the required facilities available.

The mission given to the faculty of Florida Atlantic University calls for dedication to the ideal of superiority, to the challenge of educating great numbers of students, to the task of developing new patterns in the teaching-learning relationship, and to the responsibility of preparing students to live meaningful lives in an era when the only certainty is the certainty of change.

Florida Atlantic University will admit its first class of approximately two thousand students in September, 1964. They will be, primarily, junior level students, either graduates of Florida's fine system of public junior colleges, graduates of other junior colleges or transfer students from other colleges and universities. In 1965, another group of two thousand will be admitted, and in 1966 Florida Atlantic University will confer the bachelor's degree on members of its first graduating class. By 1970, enrollment is projected for 10,000 students.

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In all instances, the organizational structure is designed to make it possible for a student to cross departmental and College lines in planning a program to serve his special talents and interests. The Dean of Academic Affairs, serving directly under the President, is responsible for the development of the entire instructional program. Together with the Deans of the Colleges, he guides the educational development of the students.

Each College operates under University-wide policies. However, a distinctive feature of Florida Atlantic University is that within this general framework, each College is granted the widest latitude and encouraged to develop unique programs designed to best serve the students in the disciplines within its jurisdiction.

The Program Announcements of the several Colleges reflect adherence to University standards and to the special College requirements.

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HOUSING

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selection of entrees for well-planned and balanced menus.

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Discussions are underway with area bus companies to arrange for economical transportation south from West Palm Beach and north from Miami to the campus site, if the demand for such service exists.

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The University has a number of one-fourth time student assistantships which require 11 hours of work weekly and for which the stipend is \$50.00 per month. Quality of the academic record, special skills, such as the ability to type, and need for financial support will be considered in evaluation of applicants. These assistantships will be awarded upon the recommendation of the Dean of each College. Inquiries should be made in the Office of the Dean of the College in which the applicant is enrolled.

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Students who have won teaching scholarships through the State Department of Education may apply them for study at FAU.

Students wishing further information about scholarships or loans should address their inquiries to the Director of Admissions, Florida Atlantic University, Boca Raton.

Requirements for Admission to the University

Undergraduate Applicants

To be eligible for admission as an undergraduate, an applicant must meet each of the following criteria:

1. Be recommended on the basis of character by an appropriate official of the college or university last attended and not be under suspension or probation at any educational institution previously attended.

2. Have satisfactorily completed a minimum of 60 semester hours in academic subjects at an accredited college or university, which should include the General Education Program of the college or university concerned. Satisfactory completion of previous academic work is interpreted to mean a "C" average in all work attempted at the college level.

3. Have completed the courses determined to be prerequisite to the study of his selected major. A prospective applicant currently enrolled in college is urged to consult his academic advisor. The academic advisors will be informed of the specific courses required for admission to study in the various programs offered. An applicant not currently enrolled in college should contact the Director of Admissions for this information.

4. Present satisfactory scores on a gen-

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Exceptionally Well-Qualified Applicants

An applicant possessing superior academic ability may be admitted as an undergraduate to the University prior to the completion of 60 semester hours if he presents:

1. A superior academic record from an accredited college or university.
2. Above average scores on general ability tests.
3. Acceptable evidence of maturity.

All applications of this category will be reviewed by the University Admissions Committee and the applicant should expect to come to the campus for a personal interview.

Special Students

Special, or non-degree, students may be admitted to the various Colleges by approval of the University Admissions Committee. Any person seeking admission as a special

student must file with the Director of Admissions complete official records of all academic work attempted at the college level and a detailed explanation of why the applicant does not desire to enter a degree program.

Waiver of Admission Requirements

In certain instances, the University Admissions Committee will entertain a request for a waiver of the above admission requirements. However, no action can be taken until such time as a formal application for admission is on file and all transcripts have been received by the Director of Admissions. A complete statement outlining the requirements to be waived and a justification for the waiver should be included with the application for admission. A final decision will be rendered by the University Admissions Committee after consultation with the College concerned. The applicant is reminded

that the \$10.00 application fee is not refundable.

Transfer Credit

1. Courses in which a student has earned a grade of "C" or better from an accredited college or university will be accepted for transfer credit. Courses completed at other public institutions of higher learning in the State of Florida, however, will be accepted on the same basis as if they were completed at Florida Atlantic University. Prior to registration, applicants will be advised of the specific courses which will be applicable to completion of degree requirements.

2. A maximum of 60 academic semester hours or the equivalent (plus a maximum of 4 semester hours of non-academic work) may be accepted as transfer from a two-year institution.

Students planning to apply for admission should write to the Director of Admissions to request the necessary application forms.

General Degree Requirements

The degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Business Administration will be conferred by Florida Atlantic University as appropriately indicated under the Curriculum of each College. General requirements for all degrees are as follows:

1. A minimum of 120 semester hours in academic courses, subject to additional re-

quirements of the Colleges. At least half of the semester hours of course work presented in a specific degree program must be upper division hours.

2. The last 30 semester hours in the degree program must be taken in residence.

3. At least 12 semester hours of the upper division course work presented for the degree must be taken outside the College of enrollment.

Schedule of Fees for One Trimester

Application Fee \$ 10.00

Each application for admission to the University must be accompanied by an application fee which is not refundable.

Registration Fees

Full-time (students enrolled for 7 or more semester hours) **\$113.00**

****Part-Time** (students enrolled for less than 7 semester hours) per semester hour **\$ 10.00**

***Non-Florida Tuition** (In addition to Registration Fee)

Full-time (students enrolled for 7 or more semester hours) **\$175.00**

****Part-Time** (students enrolled for less than 7 semester hours) per semester hour **\$ 12.00**

Service Charge for Late Registration \$ 5.00

Special Fees and/or Deposits may be required depending on the courses of study undertaken by the individual student.

** For the purpose of assessing tuition, applicants are classified as Florida or non-Florida students. In applying this regulation, "applicant" shall mean a student applying for admission to Florida Atlantic University if he is 21 years of age or over. When he is a minor, it shall mean his parents, parent or guardian of his or her person. Such applicant will pay the non-Florida tuition and other charges required of non-Florida students unless he shall be a citizen of the United States and shall have resided and had his habitation, domicile, home and permanent abode in the State of Florida for at least 12 months immediately preceding his registration; provided, however, that the applicant cannot claim continuous residence in Florida by virtue of enrollment in any college or university in the State of Florida for the required period.*

All students who do not qualify as Florida students are classified as non-Florida students.

****Part-Time students are not entitled to student activity or health service privileges.**

The University reserves the right to change or modify policies and programs.



A Message From The President

Excitement runs high at Florida Atlantic University as we anticipate the arrival of our charter class of upper division students in September, 1964. New members of the faculty, coming to the University from all parts of the country, bring with them a common desire to explore new pathways to learning, to make higher education a richer experience than it has ever been before.

Universities today are faced with many problems unknown in earlier years. The first is the explosion of knowledge which has broadened man's horizons beyond the imaginings of even the boldest dreamers of a century ago. Another is the increased need for higher education in today's complex society, as the demand for highly trained workers expands while opportunities for the unskilled rapidly vanish. Still another is the increase in the numbers of college-age youth who have every right to the best education our American culture can provide.

Florida Atlantic University, building on a faith in the ability of the student and the belief in education as an exciting lifelong experience, will explore all new techniques to learning in an effort to meet the challenge of the sixties. With an experienced faculty of proven ability, with students who have already successfully completed two years of college work, and with the dedicated support of governmental, civic and educational leaders that we have enjoyed since our inception, we anticipate a year of growth and fulfillment, the beginning of a noble and distinguished record.

KENNETH R. WILLIAMS

Department of Ocean Engineering

The objective of the Department of Ocean Engineering is to provide a comprehensive, practical curriculum in science and engineering which will prepare the student to perform engineering tasks in the ocean medium and environment. The curriculum prepares the student for graduate study in marine science and technology and for professional positions in industry, government and science.

The program of study at Florida Atlantic University requires a firm foundation in English, mathematics and science at the lower division level, plus additional courses in the social sciences and humanities for a balanced background for the engineering profession. These are provided in the General Education program of the lower division.

Starting in September, 1965, the Ocean Engineering program will cover integrated work units encompassing basic engineering sciences and mathematics; the study of the ocean environment and its relationship to other sciences and engineering; the study of the methods of obtaining and processing ocean engineering data; and its application to present and future engineering problems connected with working in, on, or exploiting the resources of the oceans. Appropriate electives in the humanities and related sciences will be included to insure a broad and comprehensive education in preparation for today's professional life. Emphasis will be placed on the solution of current problems related to working in the ocean in areas such as underwater acoustics, power, structures, instrumentation, mining, and corrosion. A summer trimester will be devoted entirely to practical work in seamanship, navigation, data processing, exploration, and oceanographic work at sea.

Requirements for Admission to the Department of Ocean Engineering

To be eligible for admission to the Department of Ocean Engineering, an applicant must meet each of the following criteria:

1. Have satisfactorily met all the admission requirements of the University.
2. Have satisfactorily completed the following specific course requirements:

<i>Subject</i>	<i>Semester Hours</i>
Mathematics (Algebra, Trigonometry, Analytic Geometry, Calculus)	14

Chemistry	8
Physics	8
Science Elective	3
Communications, Humanities (as required in lower division)	9
Foreign Language	6
Electives	12 to 16

60 to 64

Degree

Florida Atlantic University will award the degree of Bachelor of Science in Ocean Engineering to those students who meet the requirements for graduation in this department.

The complete curriculum in Ocean Engi-

neering will be offered beginning in September, 1965. Courses in oceanography will be offered as elective courses to students enrolled in other Colleges of the University during the academic year 1964-65.

The Program

JUNIOR YEAR

First Trimester		Second Trimester	
Basic Studies		Understanding Ocean Environment	
<i>Subject</i>	<i>Semester Hours</i>	<i>Subject</i>	<i>Semester Hours</i>
Strength of Materials	3	Fluid Mechanics	3
Introduction to Modern Physics	4	Thermodynamics	3
Elements of Electrical Engineering	3	Elementary Structural Design	3
Introduction to Oceanography (OCEN301)	3	General Oceanography (OCEN302)	3
Engineering Statistics	2	Oceanographic Instrumentation	2
Humanities Elective	3	Humanities Elective	3
	—		—
	18		17

THE SUMMER TRIMESTER

(First offering, Summer 1966)

Practical Work

<i>Subject</i>	<i>Semester Hours</i>
Ocean Engineering Laboratory	3
Ocean Engineering Cruise	3
Laboratory Field Seminar	1
	—
	7

SENIOR YEAR

First Trimester		Second Trimester	
Applications of Ocean Science		Advanced Engineering Applications	
<i>Subject</i>	<i>Semester Hours</i>	<i>Subject</i>	<i>Semester Hours</i>
Engineering Aspects of Oceanography	3	Field Laboratory Techniques	3
Marine Hydrodynamics	3	Underwater Acoustics II	3
Soil Mechanics		Underwater Structures	3
or	4	Physical Geology	3
Biophysical Chemistry (CHEM 340)		Technical Elective or	
Underwater Acoustics I	3	Option of Undergraduate Thesis	3
Undergraduate Seminar	2	Undergraduate Seminar	2
Economics	3		—
	—		17
	18		

Description of Courses**OCEN 301 Introduction to Oceanography 3 hours**

For Science and Engineering majors.

Survey course covering principles on which oceanography is based, interrelationships of sciences to oceanography; ocean resources, history of ocean exploration and science, opportunities in oceanography and ocean engineering.

Offered January, 1965

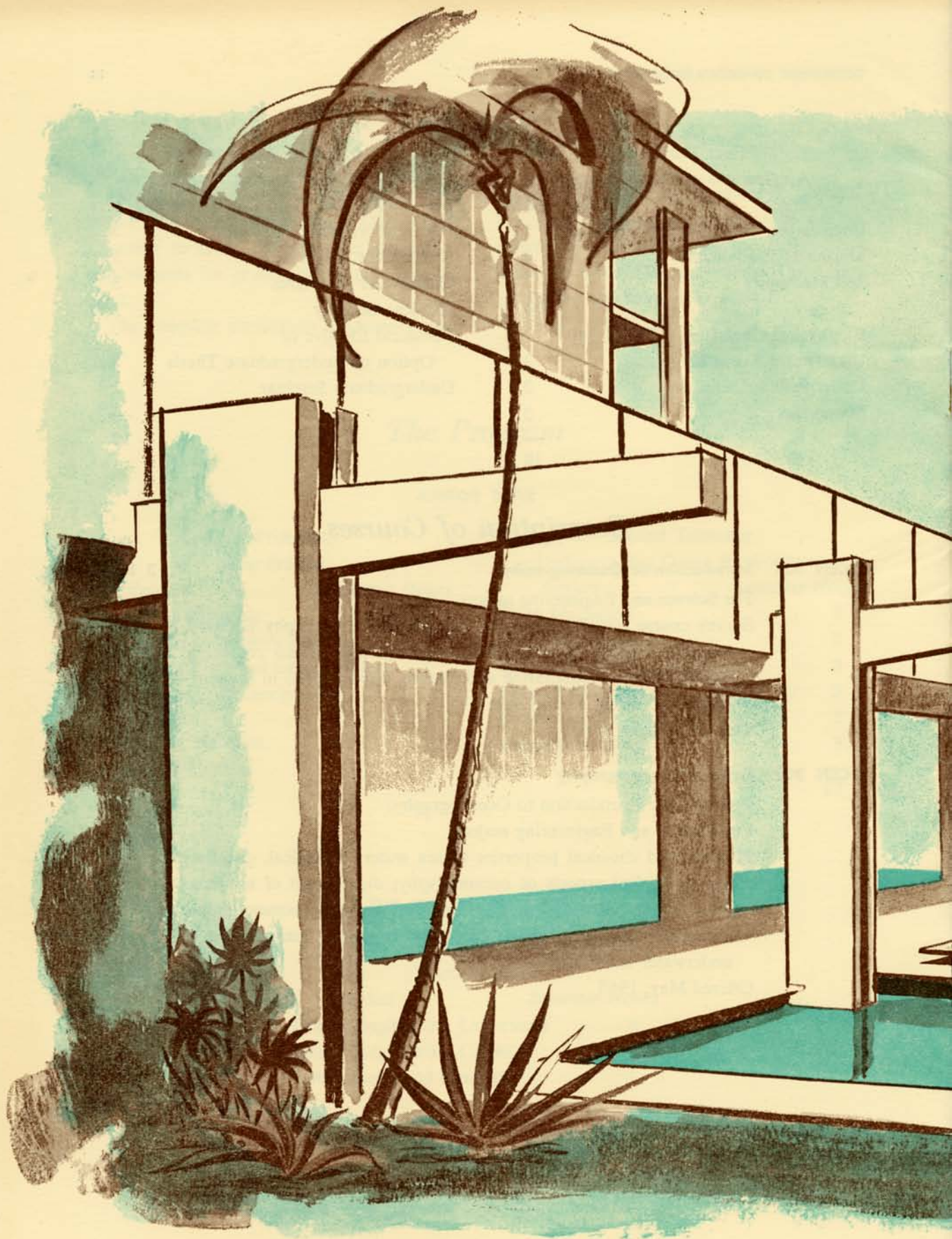
OCEN 302 General Oceanography 3 hours

Prerequisite: Introduction to Oceanography.

For Science and Engineering majors.

Physical and chemical properties of sea water. Biological, chemical and geological aspects of oceanography; distribution of temperature, salinity, density, waves, tides and currents; oceanographic data collection; mineral and biological resources; introduction to underwater acoustics.

Offered May, 1965



College of Education



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KENNETH R. WILLIAMS

The College of Education

The College of Education of Florida Atlantic University feels that the most important task facing the modern world is the education of youth. The teacher holds one of the most vital roles in society, because it is the teacher who assures the continuation and improvement of civilization. The quality of the preparation for the teaching profession then becomes a major responsibility of a university. At Florida Atlantic University this responsibility is the primary concern of the College of Education.

Each student who wishes to enter teaching must possess certain competencies. There must be an understanding of and an ability to work with young people. This understanding must be more than memorized facts, data, and slogans. It must also entail empathy, sympathy, and an overwhelming desire to be of active service in helping young people develop into productive, effective adults. There must be an understanding of the modern American society in which children are living and will live, for the children of today will lead our nation tomorrow. Obviously each teacher must have a thorough knowledge of the subject matter which he intends to teach as well as a realization of the suitability of specific portions of this subject matter for students of varied ages and capabilities. Finally, a teacher must be able to utilize the materials of instruction, especially the great number of modern devices, to their optimum effectiveness. The College of Education proposes to help a student gain these competencies.

Prospective teachers will come to Florida Atlantic University with varied backgrounds and interests. As a result, programs will be individually planned for each student. Programs are included in this brochure, but their function is merely to show approximate course distribution. A student in the College of Education will help develop his own program with the student counselor. Florida teaching certification requirements will be met. Should a student desire certification in another state, he should make this known to the student counselor who will design a program accordingly.

Although there are certain recognized competencies that all teachers should have, the College of Education believes that individual differences among teachers should be viewed as an asset rather than a liability. Consequently, the purpose of the program is to foster the development of each student's special abilities, encourage experimentation and research in the areas of interest, and explore new approaches to the teaching-learning situation.

Because of the cooperation between the other Colleges of Florida Atlantic University and the College of Education, the student will have an unusual opportunity to obtain and to synthesize essential knowledge, principles, and concepts from

several disciplines and to test his ability to utilize these in dealing with issues and problems in an educational setting. The curriculum is broadly conceived as including all of the experiences of the student in the Florida Atlantic University program.

The professional course sequence is different from that found at most universities. It is designed not only to provide a prospective teacher with skills, but to permit the student to progress at his own rate and to explore in depth topics of interest to him. For many students, this will be their first experience in being taught as individuals. It is the belief of the College of Education that, as a result of this experience, the future students of a teacher educated at Florida Atlantic University will not have to wait until their collegiate years to receive similar treatment.

The professional courses are termed *Centers of Discovery*. This title is very meaningful. It refers to the fact that every week's work centers upon a topic of importance. These topics are presented through film, video tape, or lecture to a large group. A Study Guide accompanies this presentation. This material is reviewed in a small inquiry group. A student is encouraged to discover additional meaningful material in this manner. He is further encouraged to progress through these units at his own pace. No lockstep is contemplated or enforced. No student should feel imprisoned by repetition.

Another major feature of the program is its practicality. During his first trimester in Centers of Discovery a student is expected to begin participating in a school classroom. He will not merely observe but actually work with children whom the classroom teacher feels will benefit from more personal attention than the teacher can give. Through this experience, a Florida Atlantic University student will be able to translate theory directly into practice.

The major element of the professional sequence is the internship—the period of practice teaching. At Florida Atlantic University this experience is not normally left until the end of a student's program. He embarks upon it when the faculty considers him to be ready to do so. His supervising staff member is not a stranger but a person with whom he has worked personally. His time spent in a public school is normally twelve weeks rather than nine. He works in a school close to his home. He attends a weekly seminar given in the same area. Television tapes are made of the student working with children. These tapes and classroom problems which arise are used as the basis for the seminar discussion. The student may replay these tapes to his own satisfaction and for his own improvement.

The College of Education has three other goals. These are: providing educational services for the various phases of Florida's public school program and its personnel; conducting educational research; and providing guidance for all students from the time that they enroll in the College until they are established in the profession.

It is the belief of the College of Education faculty that students will sustain a sense of the whole when they have finished the program. The student's view of life will be widened and his insight into relationships will be deepened—in short he will have an integrated outlook and understanding of Education.

Requirements for Admission to the College of Education

To be eligible for admission to the College of Education, the applicant must meet the requirements for admission to the University.

Persons registering in other Colleges of the University who wish to pursue the professional sequence in teacher education should meet with the Student Personnel Committee of the College of Education to

discuss their qualifications for teaching. A student may register upon the approval of this committee.

A Committee on Student Petitions will consider individual cases relating to the policies and requirements of the College of Education. The Committee has the authority to make adjustments as it deems appropriate.

Degrees and Honors

Florida Atlantic University will award the degree of Bachelor of Arts or Bachelor of Science to those students who meet the requirements for graduation in the College of Education.

Students will be eligible for graduation *cum laude* upon completion of all residence course work to be counted toward their de-

gree with a 3.2 or higher grade point average (based on a 4 point system).

Students will be eligible for graduation *summa cum laude* who complete all residence work to be counted toward their degree with a 3.5 or higher grade point average and who complete an acceptable research project.

Degree Requirements

To be eligible for the Bachelor of Arts or Bachelor of Science degree in the College of Education, the student must earn a minimum of 120 semester hours in academic subjects, and must have an overall "C" average in all work taken at Florida Atlantic University which is to be counted toward the degree. He must complete the College and certification requirements for his field of specialization and must be recommended

for graduation by the faculty of the College of Education.

Candidates for the degree in the College of Education are currently required by law to attain a specified minimum score on the National Teacher Examination or the Graduate Record Examination before they are certified by the State Department of Education.

Upper division courses taken through the

Florida Institute for Continuing University Studies (FICUS), either while the student is enrolled in the lower division or during an interim period while he is not attending another institution, may be counted toward the degree at Florida Atlantic University.

The University requires that each student

take 12 hours of work in Colleges other than the College of his major field in order to qualify for the degree. However, elementary education majors may satisfy nine of these 12 hours with courses in the elementary specialization area.

Programs of Study

ELEMENTARY EDUCATION

Students who plan to teach in elementary schools should pursue the following program:

	<i>Subject</i>	<i>Semester Hours</i>
ED 300	Center of Discovery I	3
ED 301	Center of Discovery II	3
ED 401	Center of Discovery III	3
ED 401, 402	Internship	9 to 15
ED MS	New Horizons in Mathematics	3 to 9
ED SC	New Horizons in Science	3 to 9
ED LA	Studies in Communications	6 to 9
ED CA	Experiences in the Creative Arts	6 to 12
ED SS	Laboratory in Social Studies	3 to 6
ED HP	Concepts in Health and Physical Activities	3 to 6
	Professional Electives	0 to 6
	Other Approved Electives	3 to 12
	Minimum Total Credits	60

SECONDARY EDUCATION

All students who plan to teach in the secondary school must complete the professional sequence of ED 300, ED 301, ED 400, ED 401 and 402. Some of the courses outlined in the various certification areas may be completed at the junior college level. Students may plan programs with

their advisors in various fields including art and music education. Examples of some of the secondary programs follow.

Business Education

Certification is given in the general field of Business Education with a minimum of 30 credits which must include credit in:

Business English	2
Business Law	2
Economics	6
Accounting	6
Shorthand	6
Typewriting	4

English

Thirty credits are required for certification in English. Courses must include:

Freshman English	6
Fundamentals of Speech	3
Advanced Composition	3
English Grammar beyond Freshman Level	3
Literature (American, English, and Contemporary)	12
Other English—as Journalism, etc.	3
Humanities Electives	3

Foreign Languages

Those who wish to be certified in one language must have 24 credits in the language to be shown on the Certificate.

Certification requirements in a second language may be met by 18 credits in that language.

Mathematics

Twenty-one credits in mathematics are required, including credit in calculus.

Any applicant who has met the specialization requirements for certification in physics or who already has physics or the broad field of science on his certificate may add certification in mathematics by completing 15 credits of mathematics, including credit in calculus.

Sciences

- | | |
|--|----|
| a. Biology (including Chemistry certification) | 37 |
| b. Chemistry | 20 |
| c. Physics | 20 |
| d. Junior High School Science
(Including a laboratory course in biology and credit in both physical and earth sciences) | 18 |

Certification covering two areas of science will require a total of 36 credits with a minimum of 16 credits in each area. A third area of science may be added with 16 credits in that science.

Social Studies

For certification in the broad field of Social Studies thirty credits are required which must include:

American History	6
Other History	6
Political Science	6
Economics	3
Geography	6
Sociology	3

Description of Courses

UNDERGRADUATE PROFESSIONAL SEQUENCE

ED 300 Center of Discovery I**3 hours**

Directed independent study of topics to provide depth in the understanding of individual and group behavior and to give emphasis to implications for classroom learning. Selected topics which will be video-taped for students include: (1) orientation; (2) becoming an educator; (3) some current issues and trends in education; (4) some basic assumptions about behavior; (5) child rearing and learning; (6) school and society as a social force in learning; (7) peer groups and learning; (8) teacher as a social force; and (9) teacher as a designer.

Students are required to spend a minimum of 30 clock hours in observation and participation in public school classrooms. Students will meet for large group instruction and in small inquiry groups.

ED 301 Center of Discovery II**3 hours**

Directed independent study of topics dealing with methods of inquiry, basic statistical concepts needed in measurement and evaluation,

and the application of these in interpreting test scores, constructing tests, and evaluating techniques and instruments used in assessing behavior.

Students are required to spend a minimum of 30 clock hours in observation and participation in public school classrooms. Students will meet for large group instruction and in small inquiry groups.

ED 400 Center of Discovery III

3 hours

Directed independent study of topics pertaining to history and philosophy of education, comparative education, contemporary trends in curriculum, and social problems as reflected in the schools. Individual projects will be designed to give emphasis to research and experimentation. Participation in the public schools may be required. Students will meet for large group instruction and in small inquiry groups.

ED 401 } Internship
402 }

3 - 15 hours

Prerequisite: One Center of Discovery or equivalent.

Pre-service teachers are placed in public schools for actual teaching in their chosen teaching fields. Supervision is given by a qualified teacher on the local school staff and by a member of the university staff.

Concurrently with internship the student will participate in regularly scheduled field seminars devoted to development of improved teaching in their special fields.

UNDERGRADUATE SPECIALIZATION FOR ELEMENTARY TEACHERS

EDMS 415 } New Horizons in Mathematics, I, II, III
416 }
417 }

3 - 9 hours

A block program dealing with the emerging knowledge, materials, and techniques in the teaching and learning of mathematics.

EDSC 425 } New Horizons in Science, I, II, III
426 }
427 }

3 - 9 hours

Content and materials for an effective program emphasizing the new concepts in the elementary school sciences.

- EDLA 435**
436 } **Studies in Communication, I, II, III** **6 - 9 hours**
437 }

A block program dealing with the contributions from the areas of children's literature and the language arts.

- EDCA 455**
456 } **Experiences in the Creative Arts, I, II, III, IV** **6 - 12 hours**
457 }
458 }

Learning situations in music, drama, dance, art, and rhythmic activities.

- EDSS 465**
466 } **Laboratory in Social Studies, I, II** **3 - 6 hours**

Integrated content areas explored include geography, history, sociology, economics, political science. Suggestions for application are included.

- EDPH 485**
486 } **Concepts in Health and Physical Activities, I, II** **3 - 6 hours**

Emphasis on school health services and health instruction as related to the child. Physical activities and recreation for the elementary school child.

