

A course in computer science not normally available to high school students due to cost of equipment and instruction is wired to six Central Texas schools by Texas A&M University.

It starts with basics such as the binary system on which computers are founded and after several weeks instruction has students writing simple programs for A&M's powerful third-generation IBM 360/65 computer.

Unique feature of the course is that until a recent tour of the university's Data Processing Center, 80 students in the class had not seen their teacher, except in isolated individual instances.

Instruction goes to Allen Military Academy in Bryan, Brenham, Yoe High in Cameron, Huntsville, Rockdale and Snook over "blackboard by wire," one of several new media of instruction operated by the Creative Application of Technology to Education (CATE) Center located at A&M.

THE THREE-YEAR-OLD center is supported by Title III grants administered by the A&M Consolidated Independent School District.

As an enrichment project, the computer science course makes available to students instruction and facilities equal to those of any educational institution in the

U.S. The armed services send several hundred officers to A&M annually for advanced degree work in computer science.

"This course surpasses the advertised commercial key punch and computer programming courses," commented Dr. Thomas J. Moffett, CATE center director. "The students' work is on problem analysis, solution and use of machinery. Computer technology advances make hardware obsolete rapidly."

CATE CURRICULUM assistant and technician Ike Harrison of Fort Worth said the course combines concepts of master's degree courses in computer science. He structured the CATE course

and began instructing after the regular teacher was injured in an auto accident. Don Ney will return to teach a segment of the program.

Several A&M undergraduate degree programs require students to write computer programs for individual research problems. CATE's high school students write programs longhand and mail them to the campus.

Center personnel card-punch the programs, feed them to the computer and receive print outs on machines at CATE, in Building "D". The print out is then mailed to the student, described associate director Ralph Foster, who also instructs the course.



**TO BE OR NOT TO BIKINI**  
Marijka Vos 20-year-old Sydney, Australia, model, shows how she beats the eyes of local authorities on the two-inch bikini rule on Sydney beaches by quickly donning a two-inch leather belt. Said Marijka, who possesses a 36-24-36 figure: "I think it is dreadful. There is no freedom left in the world." (AP Wirephoto)

## Instruments Meeting Here To Host 600

Six hundred instrument engineers and supervisors are expected for the 24th annual Symposium on Instrumentation for the Process Industries here Jan. 22-24, according to Dr. Rayford G. Anthony.

The symposium is designed for engineers involved in instrumenting continuous fluid flow processes common to nearly all types of industrial plants, said Anthony, A&M assistant chemical engineering professor and symposium director.

"The subject matter of this symposium is concentrated largely on applications to continuous flow processes with particular attention to new developments," he added.

Sessions will be held in A&M's Memorial Student Center where equipment exhibits of an educational nature will be on display from 3 p.m. to 8:30 p.m. during registration Jan. 22. The exhibit area will be open at other various times during the symposium.

Anthony said all discussions by speakers will be "first time presentations."

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### OFFICIAL NOTICE

Official notices must arrive in the Office of Student Publications before deadline of 1 p.m. of the day preceding publication.

#### THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree Name: Barliola Louis Anthony Degree: Doctor of Philosophy in Entomology

Dissertation: THE TARNISHED PLANT BUG, LYGUS LINEOLARIS (BEAUVOIS) AND ITS NATURE OF DAMAGE AND CONTROL ON COTTON. Time: January 10, 1969 at 8:30 a. m. Place: Room 203 of Biological Sciences East

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#### THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree Name: Cantrell, Wallace Gene Degree: Doctor of Philosophy in Physics

Dissertation: A STUDY OF THE PRODUCTION AND PROPAGATION OF HIGH ENERGY COSMIC RAY MUONS. Time: January 10, 1969 at 2 p. m. Place: Room 129 of Olin E. Teague Research Center

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#### THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree Name: Obran, Refat Gomah Degree: Doctor of Philosophy in Plant Physiology

Dissertation: CHILLING INJURY IN OKRA (HIBISCUS ESCULENTUS L.) AND THE RELATIONSHIP OF CHILLING TO NITROGEN, AMINO ACIDS, PROTEINS AND NUCLEIC ACIDS. Time: January 10, 1969 at 2 p. m. Place: Room 303 of Plant Sciences

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#### THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree Name: Beyer, Elmo Monroe, Jr. Degree: Doctor of Philosophy in Plant Physiology

Dissertation: A STUDY OF THE EFFECT OF ETHYLENE ON AUXIN TRANSPORT IN COTTON AND ITS RELATIONSHIP TO ABSCISSION. Time: January 10, 1969 at 10:00 a. m. Place: Room 303 of Plant Sciences

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#### THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree Name: Warner, Richard Allen Degree: Doctor of Education in Industrial Education

Dissertation: THE EFFECTS OF PROGRAMMED INSTRUCTION IN INDUSTRIAL ARTS AT THE JUNIOR HIGH SCHOOL LEVEL. Time: January 10, 1969 at 3 p. m. Place: Room 104A of M. E. Shops

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### \*FINAL EXAMINATION SCHEDULE FALL SEMESTER 1968

January 17 — January 25, 1969

Date	Hour	Series
January 17, Friday	8-11 a.m.	Classes Meeting MWF8
January 17, Friday	1-4 a.m.	Classes meeting MWF12
January 18, Saturday	8-11 a.m.	Classes meeting TTh8F1
January 20, Monday	8-11 a.m.	Classes meeting MWTh2
January 20, Monday	1-4 a.m.	Classes meeting MWF9
January 21, Tuesday	8-11 a.m.	Classes meeting MTh10
January 21, Tuesday	1-4 a.m.	Classes meeting TF2 or TWf3 or TThF3
January 22, Wednesday	8-11 a.m.	Classes meeting MWF10
January 22, Wednesday	1-4 p.m.	Classes meeting TTh12
January 23, Thursday	8-11 a.m.	Classes meeting MTh11
January 23, Thursday	1-4 a.m.	Classes meeting MWTh1
January 24, Friday	8-11 a.m.	Classes meeting TTh9F2
January 24, Friday	1-4 p.m.	Classes meeting MWF11
January 25, Saturday	8-11 a.m.	Classes meeting TF1

\*Final examination in courses with only one theory hour per week as shown in the catalogue will be given, at the discretion of the department head concerned, at the last meeting of either the theory or practice period before the close of the semester.

### OFFICIAL NOTICE

#### THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree Name: Mohamed, Shawky Yassin Degree: Doctor of Philosophy in Food Technology (Food Science)

Dissertation: THE EFFECTS OF IONIZING RADIATION ON SELECTED CHEMICAL, PHYSICAL AND MICROBIOLOGICAL CHARACTERISTICS OF EGG WHITE PROTEINS. Time: January 10, 1969 at 10:00 a. m. Place: Room 90 of Agriculture Bldg.

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#### THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree Name: Houston, James Thomas Degree: Doctor of Philosophy in Civil Engineering

Dissertation: DEVELOPMENT OF A RESEARCH ROTARY KILN AND A STUDY OF THE EFFECTS OF DEGREE OF THERMAL TRANSFORMATION ON SELECTED PROPERTIES OF SYNTHETIC AGGREGATES. Time: January 10, 1969 at 3 p. m. Place: Room 201-A of Petroleum Engineering

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#### THE GRADUATE COLLEGE

Final Examination for the Doctoral Degree Name: Jenkins, John David Degree: Doctor of Education in Industrial Education

Dissertation: AN EXPERIMENT TO DETERMINE THE EFFECTIVENESS OF SLIDES AND AUDIO-TAPES FOR PRESENTING MANIPULATIVE DEMONSTRATIONS IN GRAPHIC ARTS. Time: January 10, 1969 at 1:00 p. m. Place: 104A M. E. Shops

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#### REGALIA FOR THE JANUARY, 1969, COMMENCEMENT EXERCISE

All students who are candidates for the degree of Doctor of Philosophy or Doctor of Education are required to wear hoods as well as the Doctor's caps and gowns. The hoods are to be left at the Registrar's office no later than 1 p. m., Tuesday, Jan. 14 (this will be accomplished by a representative of the University Exchange Store). The Ph.D. or D.Ed. hoods will not be worn in the procession since all such candidates will be hooded on the stage as part of the ceremony.

Candidates for the Doctor's Degree will wear the cap and gown; all civilian students who are candidates for the Bachelor's Degree will wear the cap and gown; ROTC students who are candidates for the Bachelor's Degree will wear the appropriate uniform. All military personnel who are candidates for the degree, graduate or undergraduate, will wear the uniform only.

Rental of caps and gowns may be arranged with the Exchange Store. Orders may be placed between 8 a. m., Monday, Dec. 2, and 5 p. m., Friday, Dec. 26. The rental is as follows: Doctor's cap and gown, \$5.25; Master's cap and gown, \$4.75; Bachelor's cap and gown, \$4.25. Hood rental is the same as that for the cap and gown. A 4% sales tax is required in addition to these rentals. Payment is required at the time of placing order.

C. W. Landiss, Chairman Conventions Committee

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## Aggie Baptists Plan Weekend Work-In

Take an Aggie home to work Saturday!

This is the theme of the Baptist Student Union's Saturday Work Day designed to raise funds for students across the state who will spend their vacation as summer missionaries, said director Bob Burch.

Aggies are attempting to raise \$1,000 by the end of summer, and "the sooner, the better," said one worker.

Burch said several students have been available on previous Saturdays, but did not work due to a lack of requests.

Saturday, Jan. 11, will be the last work day until after final examinations.

"We've got the guys. All we need are employers," Burch emphasized. Potential employers may contact him at the BSU in advance of Saturday.

The students work free for the BSU which in turn forwards all monies earned to the state Baptist Department of Student Work in Dallas.