

Work-Study Outline Pushes Engineers

An increasing number of industrious Texas A&M engineering and science students are cramming five years of study and work into four—and have more money to enjoy their college life.

Secret to their success is cooperative education, a work-study plan which dates back more than a half-century but has received new emphasis in recent years.

Cooperative education, explained A&M Assistant Engineering Dean J. G. McGuire, is a year-round program in which students split their time between campus studies and industry or government work, with short vacations sandwiched in.

While students sometimes extend their schooling, the cooperative education plan can be completed in four years with careful planning, Dean McGuire observed.

Basically, a co-op student has a one-year experience edge on his non-participating classmate at graduation—and an inside track for a job at the firm with which he has been associated.

The one-year experience jump is the sum total of the three semesters the co-op student normally spends on the job during a four-year period.

McGuire said the co-op student also has the advantage of having worked with people in a professional status, in addition to having a technical head-start.

Only students who have and maintain at least a 1.5 grade point ratio (based on a three-point system) are eligible for the program.

Generally, the students are assigned to participating industrial or government firms during their sophomore and junior years, with the freshman and senior terms devoted strictly to classroom work. The student normally spends an equal amount of time on campus and on the job during his two middle years.

Students are paid salaries commensurate with their educational level and experience during their work periods, McGuire noted. He said a typical starting salary would be \$440.

"Once a student is admitted to the program," he added, "we assume he will continue with the same employer until graduation."

"It is understood, of course, that the student must do the work required of him by the employer," McGuire continued, "and be able to work successfully with those with whom he is associated on the job."

The dean said A&M now has more than 130 students enrolled in the co-op program, with the number increasing between 10 and 20 per cent each year.

Industrial and governmental participants in the program include oil, pipeline, chemical, aircraft, electronics, electrical power and steel firms and federal agencies such as NASA's Manned Spacecraft Center at Houston.

A&M Prof Heads Education Confab

Dr. Paul R. Hensarling of Texas A&M will head a program and appear on a closed circuit TV panel of the 100th American Association of School Administrators conference in Atlantic City, N. J., in February.

The Education Department head was invited to participate in a TV program, "To What Extent Is Curriculum Being Structured by the U. S. Office of Education?" Feb. 18.

Hensarling will chair a final day session on "Education Data Processing Potential for Fiscal, Instructional and Administrative Organization."

The AASA conference will be held Feb. 17-21. Program invitations were issued by the association president, William H. Curtis, superintendent of schools at Manchester, Conn.



AGGIE BACKGROUND

Three Air Force officers assigned at Texas A&M don't really need to bone up on Aggie history. Maj. Thomas W. Comstock, Lt. Col. Glendon P. Jones and Maj. Eric E. Miller (left to right) are A&M graduates who returned to instruct AFROTC courses.

Three AFROTC Officers See Alma-Mater Make Good

Three Air Force officers assigned to the Texas A&M AFROTC instructor staff last summer returned to Aggieland at an opportune time.

The trio—Lt. Col. Glendon P. Jones of Crockett, Maj. Thomas W. Comstock of Houston and Maj. Eric E. Miller of Bartlett—are A&M graduates.

While they were students, A&M football fortunes soared to SWC and national championships, victories over arch-rival Texas and bowl successes.

"We're good for the Aggies," quipped Colonel Jones, a 45-year-old assistant professor of aerospace studies who interrupted his college studies to join the Air Corps in 1942.

The gray-templed officer attended classes with Joe Boyd, John Kimbrough, Marion Pugh, the late Marshall Robnett and Derace Moser and others of the 1939 national champion Aggies. They defeated Tulane in the Sugar Bowl and Fordham in the Cotton Bowl.

"I saw the Tulane and Fordham games," Jones said. "Our class volunteered as one and had gone into the war when A&M played Alabama in the 1941 Cotton Bowl. I didn't see that one." A&M lost, 29-21.

Major Comstock, a 1952 graduate who was the Aggie swimming team's Kiel Trophy (most valuable) swimmer in 1951, and Maj-

or Miller, 1954 grad and three-year letterman at end, were present when A&M nudged Texas, 22-21 in 1951.

Colonel Jones was also assigned to the Air Force detachment at A&M in the mid-1950s. The 1956 Aggies defeated Texas at Austin, 34-21. Among his students were gridders Dee Powell, now an Aggie assistant coach, and Dennis Goehring, College Station banker, of the SWC champs.

A cadet captain of "B" Athletics in the corps his senior year, Major Comstock was stationed at Bergstrom AFB and saw several A&M games before shipped to Japan in 1957.

In AFROTC classes this fall, while the Aggies were enroute to a 6-4 season and the cotton Bowl host spot, he raised student eyebrows.

"Until I was assigned to A&M this year, the last time I saw the Aggies play they beat Texas," he told them.

Aggies look forward to having the three officers around for at least two more years.

Seminar Series Will Play Host To Chicago Prof

A seminar series on education featuring Dr. Frances S. Chase of Chicago will be presented by Texas A&M's College of Liberal Arts Jan. 9-March 12, announced an Frank Hubert.

Chase seminars will explore areas of "Federal Strategy and Tactics in Education," "New Styles of Educational Planning" and "Educational Implications of New Knowledge and New Views of Knowledge."

Attendance will be on an invitational basis for A&M graduate students and faculty, superintendents, local school officials, state education officials and regional service center directors, Hubert added.

Dr. Chase, 68, is the former education department chairman and graduate school dean at the University of Chicago, where he is presently involved in examination of new educational research and development institutions functions.

He will be on winter quarter leave of absence as a visiting professor at A&M, Hubert said.

Federal agencies and educational institutions and organizations have called on him for study of state school systems, the U. S. Office of Education, education organization and administration and teacher satisfaction and morale.

The Virginia native received bachelor and master degrees at the University of Virginia, his Ph.D. at Chicago and an honorary doctor of letters at New York University.

He was a Virginia public schools teacher, principal and superintendent before accepting a professorship at Chicago in 1951. Dr. Chase was department head 10 years and served in dual capacity for six years when he was dean of the graduate school.

His activities include development and direction of several education services and centers, direction of a Pakistan advisory program, chairmanship of the President's Committee on Public Higher Education in the District of Columbia, plus studies leading to publications such as "The 48 State School Systems," "Education Faces New Demands" and "The High School in a New Era."

Dr. Chase has done Boy Scout work and served on a hospital board and panel for the study of emotionally disturbed children. His numerous educational organization affiliations include Phi Delta Kappa and the American Educational Research Association.

For BEST RESULTS TRY BATTALION CLASSIFIED

Coffee Research Exposes Problems

By ELIZABETH LYNE
Alan Waters, A&M professor of economics, has completed research on African coffee production aided by a Rockefeller Foundation Grant.

Waters said his purpose was to find out the cost of coffee, that is, the cost of a country as a whole to produce coffee rather than some other product. He was trying to decide what resources are used in growing coffee and what the alternative uses are.

The economy of Kenya is government-oriented. Government marketing boards deal with every major crop. Since coffee, produced in mountainous Kenya, constitutes 25 percent of Kenya's foreign exchange, its production is government controlled.

There is, according to Waters, an "international situation where price is held up to induce people to produce more, but each country has got to try to find ways to prevent people from producing more."

"Before you can find these ways to prevent over-production, you have to find out how much it costs to produce," he added.

Waters said coffee in Kenya was produced mainly by two groups. Foreign owned bigger states produce one-half of the

crop and small farmers produce the other half. If the government takes action on one section, he continued, "it might have some major effect on the other group."

Waters is co-author of the book, "Planning for Profit and Prosperity" published by the East African Publishers of Nairobi, Kenya in 1967. He has also written articles for the "East African Management Journal." He plans to use his research material to earn his doctorate from Rice University.

While in Africa, Waters, whose second language is Swahili, taught one year at the university in Nairobi. He said the students have a "sort of manana" attitude and don't work very hard, but they are politically minded.

He said the 1,000 students represented many different races including Europeans and Arabs. But the majority were Indians, the middle class in the colonial system.

"The Indians tended to groups," he added. They "kept to their culture and spoke their different dialects among their own groups."

This is a "great pity," he continued, "because there are all sorts of problems in Kenya due to independence that require flexibility to get along with all the Europeans."

New Computer Helps With Student Work

Texas A&M's new IBM 360/65 computer is blinking its lights like a post-season attention-hungry Christmas tree after it was plugged in at the Data Processing Center.

The new machine has a much bigger memory than the IBM 7094 computer which was sent to the Cyclotron Institute.

Robert Bower Jr., acting head of the DPC, said Friday "It's working real good. It's already doing some student problems."

This means it's humming along on the "Dr. Pepper Runs" and doing the "Happy Hour" work more efficiently.

To the uninitiated, "Dr. Pepper" runs are student problems requiring less than a minute's time and 1,000 lines printing which are made at 10 a.m., 2 and 4 p.m. daily. "Happy Hour" is the time dedicated to student work from 7 to 10 p.m. weekdays.

FOR AWHILE, however, the 360/65 is having to do an impersonation of the former 7094 computer. Many of the computer programs for university payroll, student records and such were designed for the 7094.

"So the new machine is equipped with a compatibility feature which makes it act like a 7094," said Bower.

The 360/65 has four times the magnetic core storage, or memory, capacity of the old machine.

Not only this, but the new one gets to its memory faster. Memory access time is 750 billionths of a second, as compared to only two millionths for the old machine.

TO ACQUAINT people with the new 360/65, the Data Processing Center is sponsoring two semi-

nars for staff and graduate students.

The first, held this week, was for those who have had little or no computer experience.

The second seminar will be held in two-hour sessions from 4 to 6 p.m. Monday through Thursday in the Geology Building. This is to acquaint present users of computers with the new system.

"We've already had 58 people sign up for this one," said Bower.

Although the on-line storage capacity of the new machine is large at the present, it will be increased further in March. "We'll replace the six disc drives with a big storage device containing nine disc drives, eight of which are connected to the computer at one time. This will allow on-line storage of 207 million characters," added Bower.

WHILE THE new computer is primarily a teaching and research tool, it serves a great variety of users and can do several tasks at the same time.

"At any given moment, it might be punching cards on Job 1, printing Jobs 2 and 3, running Job 4 and reading cards on Job 5," said Bower.

One minute, the computer might be asked to consider a student simulation of a business and the next be asked to perform theoretical calculations in science and engineering.

"Students have made up football and baseball game simulation programs and the people in Humanities do some concordances and stylistic analyses of various authors," Bower noted.

Although the machine is powerful and impressive, "It's still an idiot—it does exactly what you tell it, no more, no less," he declared.

Notice To Bidders

Sealed Proposals, in duplicate, addressed to Brazos County A&M Club, Box 4, College Station, Texas, will be received at College Station, Texas, on the 15th day of January, 1968, for the following described three tracts of land:

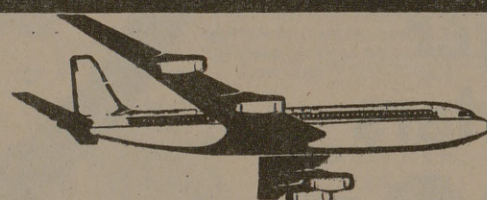
1. Lot Number One (1) in Block "D" in the Country Club Estates No. 2, and addition to City of Bryan, Brazos County, Texas, according to plat of said addition recorded in Vol. 150 page 121, DRBCT, and being the same land conveyed by Joe Sosolik by deed dated March 13, 1963, and recorded in Vol. 226 page 469 of the Deed Records of Brazos County, Texas.
2. One Acre, more or less, in Zeno Phillips League, Abst 45, City of Bryan, Texas, adjacent to Munnerlyn Village, being described in deed dated 6-30-48 and recorded in Vol. 136 page 58 of the Deed Records of Brazos County, Texas.
3. 180' x 100', containing 0.41 acres of land, in Zeno Phillips League, in City of Bryan, Brazos County, Texas dated 7-26-48 and recorded in Vol. 136 page 59 of the Deed Records of Brazos County, Texas.

This property is South of Bryan Municipal Golf Course, facing Link Street, Tee Street, and Ehlinger Street. A building on this property, known as the clubhouse of the Brazos County A&M Club, is to be included in this sale. Bids will be evaluated by the Seller, Brazos County A&M Club. The Seller reserves the right to select the bid which best suits its needs, whether the price is the highest or not, and also reserves the right to reject all bids or waive informalities.

Brazos County A&M Club
Box 4, College Station, Texas

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