

REQUIREMENTS GO UP

New Teacher Program Slated

AUSTIN — Texas colleges are preparing a new public school teacher in a program of teacher education intended to offer more of both specialized and general knowledge.

The Texas program of teacher education, in comparison with those of other states, indicates that Texas requirements for academic specialization are higher than the majority of other states, requirements for professional education courses are lower and the required background in liberal arts (academic foundations) is higher.

IN THE FIELD of general knowledge, the new teacher will have 60 semester hours — approximately 15 semester hours more than his predecessor in the "academic foundations" — including such basic subjects and English, history, government, science, math-

ematics and foreign languages.

In the field of specialized knowledge, whether he is an elementary or high school teacher, he will have had from 12 to 24 more semester hours of "academic specialization" than was required of teachers in previous years. The subjects will be in his major teaching field or related fields.

For elementary teachers, 36 hours of specialized study in the subject matter of a teaching field are now required. These may include either 18 or 24 hours in one subject and the remaining 12 or 18 hours in a combination of related subjects.

For example, the elementary teacher may complete 18 or 24 hours in history for his "academic specialization," completing the additional 18 or 12 hours required in government, art, or allied subjects

which would tie in with a specialization in history."

HIGH SCHOOL teachers must now have two major fields of specialization with 24 semester hours in each or one 48-semester hour area of specialization.

The emphasis on academic specialization in teaching fields came after the Texas Houston of Representatives, 57th Legislature, in Resolution No. 717, cited "sharp differences of opinion on the proportion of 'how-to-teach' courses in relation to the number of courses in the major subject field."

Both elementary and high school teachers will have six semester hours less required work in professional education courses — a reduction from 24 semester hours to 18. Of the 18 hours, six will be in student teaching.

REQUIREMENTS FOR both ele-

mentary and high school teachers now include: at least 12 hours in English, six hours of United States history, three to six hours in government and 12 hours in science, mathematics and/or foreign languages.

Both groups will have had six hours of student teaching, three hours in "how-to-teach" and nine hours of education "foundations." The nine hours of education foundations will vary with each teacher, but for many will include such professional courses as tests and measurements, psychology, audio-visual aids and a general background study of the history of education.

The Texas Education Agency reports that all senior colleges offering programs of teacher education in Texas now have on file evidence of compliance with the new program.

Around The Lecture Halls

Lecture Set On Spectrometry

Dr. Lawrence K. Akers, also of the Oak Ridge Institute of Nuclear Studies, will be presented Monday at 8 p.m. as another lecturer in the Graduate Lecture Series.

A research scientist in the special training division of the institute, he will lecture on the subject, "Alpha, Beta and Gamma Spectrometry." The lecture is planned in the Biological Sciences lecture room.

Akers studied at the University of Florida, and holds the B. A. and M. S. degree in physics and mathematics from the University of Georgia. His Ph. D. degree in the same subject fields is from Vanderbilt University.

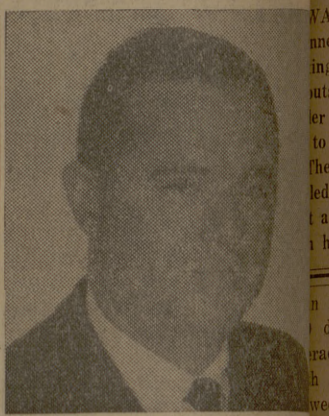
At the Oak Ridge Institute he conducts research and serves as a member of the lecturing staff. His primary interest lies in the field of nuclear and radiation physics.

Akers spent a year as an At-

omic Energy Commission Radiological Physics Fellow at Vanderbilt University and at the Oak Ridge National Laboratory.

He joined the Oak Ridge Institute of Nuclear Studies staff in 1954, and in 1959-60 took a leave of absence to serve on the staff of the International Atomic Energy Agency in Vienna.

He holds membership in various professional and honorary societies and fraternities.



HAROLD S. MANNING

Chemist To Talk On 'Rare Earth'

A chemist from the Oak Ridge Institute of Nuclear Studies is scheduled to speak at 8 p.m. Thursday in the Biological Sciences Lecture Room.

Dr. Granvil Charles Kyker, chief of preclinical research at the institute, will discuss "Rare Earth and Metabolic Effects." The talk is another of the Graduate Lecture Series.

Kyker, a native of North Carolina, obtained a B. S. degree from Carson-Newman College and a Ph. D. from the University of North Carolina. He served as a member of the chemistry faculty at the university until 1950, when he became head of the Department of Chemistry at Puerto Rico University. He assumed his present position at Oak Ridge in 1952.

His major research interest is in the area of medical radioisotopes.

Aerospace Talk Planned Tuesday

Aerospace engineer, Harold S. Manning, will present a program on "The Use of Nuclear Rockets: Lunar Landing and Beyond," next Tuesday at 7:30 p.m. in the Biological Sciences lecture room. Sponsors are the student chapters of the American Nuclear Society and the Institute of Aerospace Science.

Manning will discuss the early applications and space missions of nuclear rockets. A hypothetical manned lunar landing using a first-generation nuclear engine boosted by a Saturn C-5 launch vehicle will be examined in detail. In addition, more ambitious missions requiring advanced nuclear engines will be discussed, along with several characteristics of these engines.

The program will also include

films on "The RIFT Program," "Nuclear Rocket Engine Tests," and "The Saturn Rocket," and lectures on "The Use of Nuclear Rockets."

Manning is an aerospace engineer in the Propulsion and Vehicle Engineering Division at the National Aeronautics and Space Administration George C. Marshall Space Flight Center, Huntsville, Ala.

He joined the research and development team at the Marshall Center in September, 1960. Prior to that time he was employed by the Temco Aircraft Corporation, Dallas.

'Pain' Subject Of Medic's Talk

A lecture on "Combined Procedures in Dentistry and Medicine in the Conquest of Human Pain" will be given Tuesday by Dr. Robert Andrew Hingson, professor of anesthesia, Western Reserve University. The lecture will be given in Room 113, Biological Sciences Building, at 4:30 p.m.

The Premedical-Pre dental Society is sponsoring the lecture.

Hingson is the inventor of the Western Reserve midjet anesthesia machine and resuscitator, developed the use of a jet injector capable of one immunizing injection for small pox each six seconds and without reesterilization.

He received his training at the University of Alabama and Emory University School of Medicine. Hingson, who is affiliated with numerous professional organizations, is an honorary member of medical societies over world.

Fat Diet Chickens Lay Healthy Eggs

Poultry nutrition authorities are changing their minds about large amounts of fat being undesirable in laying hen diets.

Poultry scientists have been feeding a group of layers on a high-fat diet, and all the birds are normal and getting along fine.

The project, conducted by graduate student Tony Zavala Madero of Saltillo, Mexico, and supervised by Dr. J. R. Couch and Dr. C. R. Creger, was started under a public health program.

Madero took a group of day-old chicks three years ago and put them on a ration containing protein, unsaturated vegetable fat

(soybean oil), vitamins, minerals and no carbohydrates. Another group of chicks were started on the same time on a no-fat diet.

So far, the group on the ration in which fat has been the primary source of energy is still getting strong. All the birds are laying and have laid a normal number of eggs. The eggs have good hatchability. Madero also found that he could cause the hens to produce eggs with either high or low unsaturated fat levels.

Things have not gone so well with the group on the non-fat diet. Mortality has been high and hatchability greatly reduced.

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