

New Degree Programs Set Up in Engineering

A major in nuclear engineering leading to the bachelor of science degree has been established at the University.

The new program is intended to prepare nuclear engineers to help satisfy the needs of the expanding nuclear industry and to prepare students for graduate work in the field, according to Warren F. Witzig, professor and head of the Department of Nuclear Engineering.

The University is the first institution in the state to offer an undergraduate degree program in nuclear engineering. It is one of two universities in the State offering graduate work in the field, while only 19 institutions in the United States now offer nuclear engineering baccalaureate programs, and 65 offer some form of graduate program.

The new major is the result of long-range planning, which began with the establishment of the graduate program in

nuclear engineering here in 1959, when the nuclear industry was largely oriented to research and development. As the planners anticipated, the industry has now reached the stage where there is a compelling need for men trained in the applications of nuclear engineering.

"The need for the program in Pennsylvania is particularly urgent," Dr. Witzig said, "because Pennsylvania industry has provided much of the leadership in the development of the nuclear industry. The state is a part of the megapolis of the east coast and its requirements for nuclear power for the production of electricity; moreover, Pennsylvania has the needed water supplies and the relatively remote locations desirable for the siting of nuclear power plants."

In another curriculum change, the Mine Drainage Re-

search Section has been organized within the College of Earth and Mineral Sciences.

The Executive Committee of the Board of Trustees authorized the establishment of the new section, effective Jan. 1, and named Dr. Harold L. Lovell as its director.

Lovell, who joined the faculty in 1944, is associate professor of mineral preparation. For the past five years he has been acting head of the Department of Mineral Preparation.

One of the chief projects of the new section is the construction of a mine water treatment plant capable of processing 500,000 gallons of water daily.

Engineering Degrees

Another curriculum development is the establishment of a program leading to the doctor of philosophy degree in industrial engineering.

According to Benjamin W. Niebel, professor and head of the Department of Industrial Engineering, doctoral candidates will work in one of three major areas: operations research or management science; manufacturing science; and human factors.



PROVIDING THE ONE-TWO PUNCH are Ronald (left) and Donald Riffle, 21-year-old twins from Adah, Pa. The brothers, now seniors, hope to qualify as Navy jet pilots. The bell is from the battleship USS Pennsylvania, a gift to the University from the U.S. Navy.

Terrific Twins

Grant a set of University twins their wish, and the U.S. Navy will soon have two new jet fighter pilots.

The boys, Donald and Ronald Riffle, are seniors enrolled in the Naval Reserve Officer Training Corps program. Upon graduation in June, with commissions as ensigns in their pockets, they will enter the Navy's training center in Pensacola, Florida, where they hope to qualify as jet pilots.

If they should be sent to Vietnam, they might meet another member of the Riffle family. Their uncle, James, is a Marine lieutenant colonel, stationed at Da Nang. An aviator with more than 26 years experience, James sparked the twins' interest in the service and flying with the tales he told on his periodic home visits.

and Blade award last year for outstanding contributions to the furtherance of Naval and ROTC ideals. He is company commander of his unit's two drill teams and the band, and also leads the trick drill team, which had an undefeated season in 1966.

Ron is a member of the drill team, serves as operations officer of the Navy ROTC unit, and is commander of the Quarterdeck Society, a Naval honorary group of which Don is also a member.

While they both plan Navy careers, Don and Ron are majoring in insurance and real estate — something to fall back on in their old age.

Their ROTC work is piled on top of their regular studies, keeping them stepping at double time.

Having started a flight indoctrination program last term, they take flight training three times per week, along with one three-hour ground school session. There are two drill classes a week, plus an outdoor drill period, and work with the trick drill unit is still another extra.

In one major area, however, the twins have parted company for the first time. Ron was married last summer, but Don staunchly maintains that there are no wedding bells in his future.

Construction To Aid Campuses' Growth

Several construction programs have been planned to aid the expansion of academic programs and increases in the student population on the University's Commonwealth Campuses.

The new Scranton Campus will begin work this spring on two buildings—a facility for physical education and large lectures halls, and a classroom-library building. The Behrend Campus has planned a classroom building which will house drafting rooms, two biology laboratories, and faculty offices.

A study center and a residence hall are already under construction.

1,000 at McKeesport

The McKeesport Campus, which expects to have an enrollment of 1,000 students by 1970, is planning an addition to its student union building. The addition will expand study and recreational areas.

A new \$900,000 classroom building for the New Kensington Campus will be started soon, the fifth new structure to be started in the last three years. In addition to housing classrooms, the buildings will provide space for physical education courses and recreation.

The Hazleton Campus has announced plans to purchase a 30-acre tract of land adjoining the campus for the purpose of much-needed plant expansion. The campus is planning the construction of a \$1.6 million classroom-laboratory building.

The York Campus plans to construct a library, a physical education and student activities building, and an addition to the main building.

At Altoona, tentative plans have been drawn for the construction of a science building and a chapel.

Courses Added

Academic programs will be bolstered at two other campuses.

At the King of Prussia Graduate Center, 16 science courses are being offered for the Winter Term. More than 400 persons, mostly working adults, are expected to register for the night courses offered at the center.

The courses are open to persons with a bachelor of science degree who seek to take courses in advanced engineering, leading to a master of engineering degree.

The DuBois Campus will offer a two-year program in business, beginning next fall. The program will provide the student with a liberal background ranging from literature and political science to statistics and data processing applications.

Graduates of the program will receive an associate degree in business from the University.

Collegian Notes

Choral Spots Open

The University Chapel and Concert Choirs announced yesterday that they have openings for sopranos, altos, tenors and basses.

Raymond Brown, director of choral music, said that auditions will be held in 212 Eisenhower Chapel today, 9 a.m. to 5 p.m., and tomorrow, 9 a.m. to 12 noon.

Students interested in serving as delegates to the 1968 Model United Nations session next month can obtain applications on the ground floor of the Hetzel Union Building today and tomorrow.

Mark Taxel, Model U.N. President, said yesterday that no academic requirement for applicants have been established.

Deer Hunting Open

Deer hunting with a free permit is available in the Experimental Forest of Stone Valley, Huntingdon County, according to officials of the University's Cooperative Wildlife Research Unit.

Hunters with Pennsylvania licenses may obtain free permits by calling or writing to: the Wildlife Research Unit, Ferguson Building; the headquarters of the Experimental Forest, on Rt. 305; or the deer checking station at the Civil Engineering Camp boathouse, near Masseyburg, off the Petersburg Road.

Nurses Organize

The University's newly-formed Student Nurses Association has joined the Student Nurses Association of Pennsylvania.

The student nurses have also drawn up a constitution and bylaws, which will be acted on this term, according

B'NAI B'RITH HILLEL FOUNDATION

WEEKEND ACTIVITIES

Fri. Evening Jan. 5th 8 P.M.
Sabbath Services

Sat. Morning Services 10:30 A.M.

Sat. Night 8:00 P.M. Movie
"The Spy Who Came In From the Cold"

Starring Richard Burton

Sun. Morning . 11:30 A.M.
Lox and Bagel Brunch

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Grad Applications Due

Advanced graduate students must file applications for the 20 Graduate School fellowships for the coming school year by Feb. 8.

These fellowships, according to Edward B. Van Ormer, assistant dean of the Graduate School, provide a tax-free stipend of \$2,500 for the Fall, Winter and Spring Terms, plus a grant-in-aid to cover tuition for the three terms.

Nineteen of these fellowships are open to any outstanding student who has completed at least 30 semester equivalent credits of graduate work prior to September and is a candidate for the doctorate. One of these fellowships, provided through a gift from the Woodrow Wilson Foundation, is restricted to a terminal-year doctoral student who is planning to enter college or university teaching as a career.

These awards are made in all areas of academic work, Van Ormer explained. Although ability of applicants appears comparable, some preference is given to areas where other types of aid are less prevalent, still keeping in mind the criterion of outstanding scholarship.

Application forms may be obtained at the Graduate School Office, 103 Willard, by presenting a note from the student's department head, stating that the department will be able to support the application.

Welcome back to Penn State and best wishes for the new term.

To start the New Year right
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WANTED FOR PSYCHOLOGY EXPERIMENT

Male University Students, Undergraduates or former PSU Undergraduates. Must be 21 or older.

The experiment will be conducted in 9 sessions to be held on 9 of the 10 scheduled dates. Subjects must be available for all 10 of these dates. The dates are: January 24, 31, February 7, 14, 21, 28, March 6, and April 10, 17, 24 (all Wednesdays). Each session will be held in the chapter room of Kappa Sigma fraternity and will begin at 5:30 p.m. and continue until 10:30 p.m. (Sandwiches will be provided.) Each subject must participate in all 9 of the sessions that are conducted.

Payment will be according to performance. It will vary from \$50 to over \$110, with an average payment of about \$85 for the entire experiment.

Those interested should sign up in person with proof of age, at the Institute For Research, 257 S. Pugh Street, from 9-12 a.m. and from 1-4:30 p.m., Friday, January 5, Saturday, January 6, and Monday through Wednesday January 8-10, until the quota is filled.

Telephone inquiries may be made by calling 238-8411, but no telephone reservations will be accepted.

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