FROM University Relations
The University of Toledo

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Preliminary accreditation for the University of Toledo's doctoral programs in mathematics and physics has been granted by the Commission on Colleges and Universities of the North Central Association of Colleges and Secondary Schools. The Ph.D. programs earlier had been approved by TU's Board of Directors and the Ohio Board of Regents.

TU's first doctoral program was begun in 1960 in the College of Education. A total of 12 doctor of philosophy and doctor of education degrees has been awarded in education, according to Dr. Archie N. Solberg, TU's dean of graduate school and research.

Preliminary accreditation, Dr. Solberg noted, is in effect a statement by the accrediting body that it believes TU has the potential, based on past performance, to carry out a doctoral program successfully.

"This indicates that on the basis of the faculty, facilities and curriculums we are offering, doctoral students in these two fields should receive sound training," Dr. Jerome Kloucek, dean of the College of Arts and Sciences, said. "Full accreditation," he added, "depends on the end result -- the caliber of student we graduate. Obviously, that will have to wait until we have graduated enough students for the accrediting body to base a judgement," Dean Kloucek said.

"We began planning for the doctoral program six years ago when we began our master's degree program in physics," Dr. John J. Turin, chairman of the department of physics and astronomy said. "Five new full-time faculty members were added this year, bringing our full-time staff to

(more)

12 persons," he said.

The physics department staff also includes six adjunct, or part-time faculty members, all of whom are associated with the Fundamental Research Section of Owens-Illinois, Dr. Turin said. He noted that the University's close working relationship with Owens-Illinois also includes use of the O-I research facilities and grants for graduate fellowships at TU.

"We already have 35 graduate students enrolled in the physics department and five of them hold masters degrees, which indicates they could receive doctoral degrees in two to three years," Dr. Turin said.

Additional facilities for research in solid-state physics and astrophysics will be provided upon completion of the Ritter Observatory and Planetarium, Dr. Turin said. He said the observatory would double the university's research and laboratory space for physics work and would be an integral part of the facilities of the department, especially for dissertation research in astrophysics.

"Three-fourths of our graduate students have been drawn from other universities," Dr. Turin said, "and our new faculty members include recent graduates of the California Institute of Technology, Cornell, Michigan, Colorado, Brown and Notre Dame."

In the Department of Mathematics, more than 30 students are enrolled in graduate studies, according to Dr. Budmon R. Davis, department chairman. Two of the graduate students hold masters degrees and could be eligible for the doctorate in two to three years, Dr. Davis said.

"We began adding new faculty members with the doctorate in 1961-62," Dr. Davis said. "At that time only two people in the department had the Ph.D.

degree, while today 12 of the 21 full-time faculty members in mathematics have doctoral degrees," Dr. Davis said.

The biggest area of development for the mathematics department has been in the expansion of library holdings, he said. "We now receive 80 mathematics periodicals and our budget for library acquisitions has tripled in the last three years. We have some 3,000 volumes in the field of mathematics and about that many more now on order," Dr. Davis said.

Course offerings also have been expanded. In 1962, Dr. Davis said, there were no 500-level courses (exclusively for graduate students), while this year we offer quite a number of 500-level courses and 600-level and 700-level courses, which are mostly tutorials and seminars for advanced graduate students, will be offered in the fall. Areas of research will include logic, mathematical physics, biomathematics, algebra and analysis, he said.

Existing courses involving the University Computation Center, equipped with an IBM 1620 Computer, will be expanded. And, the university also benefits from the establishment, in 1956, of a depository for Atomic Energy Commission publications at TU.

Both departments currently receive research grants and graduate fellowships from the National Science Foundation and the National Aeronautics and Space Administration.

"The two programs complement each other," Dr. Kloucek noted, "in the sense that higher mathematics is an indispensable tool of physics and physics in turn supplies an opportunity for application and demonstration of

mathematical methods, thus making each the ideal minor field for the other."

The growth of the sciences at the university is keeping pace with their importance to the community and the nation, Dr. Kloucek said. "We can anticipate further growth in the other sciences and also in the areas of the social sciences and humanities as the university moves forward," he said.

Dr. William S. Carlson, TU president, said he felt that the granting of preliminary accreditation indicates the thoroughness and care with which the programs were established, and marks a significant step forward in graduate work at TU.

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