

1973

1973 Iowa Teachers Conservation Camp

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Digital Electronics" and other digital electronics mini-courses this summer.

Under the leadership of Dr. Allen Anway, former faculty member in the UWS physics department, DSI has designed curriculum materials and electronics instrumentation for a new approach to teaching digital electronics courses in the secondary schools, junior colleges and vocational-technical schools.

Designed to train college and high school teachers in electronics, the short course will be offered June 11-July 6, 1973. The university will grant four credits to each of the 15-30 tuition-free participants (undergraduate and graduate) who successfully complete the course.

In addition to the initial four-week short course, Dr. Anway will teach other mini-courses in electronics. Participants may take up to eight credits, tuition-free, this summer.

The electronics courses will introduce students to electronic operation of the digital computer by showing the logic circuits that make up the computer. The student will become familiar with the mathematics of the computer and the binary number system. Experiments will be conducted with the basic discrete components which make up the computer, such as AND gates and the flip flops.

The systems which make up these components will be studied, built and analyzed. These systems, which are building blocks of a digital computer, will include flip-flop, adders, counters, shift registers and memory devices. The circuits will be constructed from commercially available integrated circuits.

Eligible to apply for tuition-free courses are college teachers, secondary teachers and undergraduate students in the sciences.

Requests for applications and further information may be directed to Dr. Besch at the University of Wisconsin-Superior, 54880 (phone: 392-8101, Ext. 253).

1973 IOWA TEACHERS CONSERVATION CAMP

Nature trail planning, outdoor laboratory use, field trips, and study of man's management of his resources and environment will be part of the program for this year's Iowa Teachers Conservation Camp.

The 3-week course will be offered June 11-29 at Cedar Falls and again July 9-27 at Burlington. In the past, the course has been held at Springbrook State Park.

"By taking the program closer to the home environment of the participants, we hope to be of more direct help to schools and teachers in developing conservation education programs," says Camp Director Bernard Clausen of Cedar Falls.

The course, open to both elementary and secondary teachers, offers three hours of university credit. It is jointly sponsored by the University of Northern Iowa, Iowa Department of Public Instruction, Iowa Conservation Commission, and Iowa Department of Soil Conservation. Specific information regarding the Iowa Teachers Conservation camp is as follows:

What: The 24 year old Iowa Teachers Conservation Camp will be offered at regional centers during the summer of 1973, instead of at Springbrook State Park. By taking the program closer to the home environment of participants, we hope to be of more direct assistance in the development of conservation education programs for individual schools and teachers. The program is jointly sponsored by the University of Northern Iowa, Iowa Department of Public Instruction, Iowa Conservation Commission, Iowa Department of Soil Conservation with the cooperation of many agencies and organizations.

Participants will gain familiarity with local resources and how to use them in their teaching. Numerous field trips will be taken. Practice in nature trail planning and outdoor laboratory use will be provided. Man's use of his resources and environment, the problems created, and the management solutions will be covered. Development of a practical conservation education program or project will be developed by each participant based on their own teaching environment.

Who: All sessions of Iowa Teachers Conservation Camp courses are open to both elementary and secondary teachers from anywhere. Non-teachers may enroll if there is space. The

course will not carry credit for those who have previously taken either Biology 104 or Biology 105.

When and Where: June 11-29 in Cedar Falls with headquarters at the Science Building, University of Northern Iowa.
July 9-27 in Burlington with headquarters at the Burlington Senior High School.

Costs: Tuition for graduate students is \$105, and for undergraduate students is \$102. Books and supplies may be \$5-20 depending on what the participant already has. Some financial help may be available through local organizations. Write to the Camp director for further details.

Although many participants will be commuting and bringing their own lunches each day, room and board are available for the Cedar Falls session in the University of Northern Iowa dormitories according to the following schedule for the three weeks:

Single persons in double room with meals - \$129.00.
Single person in double room without meals - \$57.00.
Two people in double room with meals - \$114.00.
Two people in double room without meals - \$42.00.

How: For application blanks and further information write to:

Mr. Bernard L. Clausen, Director
Iowa Teachers Conservation Camp
University of Northern Iowa
Cedar Falls, Iowa 50613

TWO NEW TITLES ADDED TO LIST OF FREE TEACHING AIDS

As a part of Project ASSIST the Science Education Center at the University of Iowa is now making a number of printed teaching aids available to science teachers. They consist of short articles by the staff which outline procedures and instructional strategies that are ready for classroom use.

New Articles -

Investigating Insecticides - A classroom procedure to observe the effects of household insecticides.

Life Down Under - Directions for several activities that students can do to learn about life forms and their activity in the soil.

Other Articles available include -

A Survey of Particulate Air Pollution - Background information and a laboratory procedure for the study of particulate air pollution.

A Key to the Identification of Particulate Air Pollution Material - A simplified verbal and pictorial guide to the identification of air pollution particles.

The Investigation of Gaseous Air Pollution - Background information and laboratory procedures for the determination of particulate air pollution.

Water Pollution Tests - A detailed description of the chemical preparations and procedures required for the determination of Oxygen, Carbon Dioxide, Alkalinity, Ammonia, Salinity, Sulfides, pH and Total Suspended Solids.

Soil for Survival Part I Physical Factors - An outline of several simple tests that may be conducted to prepare a report on the physical characteristics of a soil sample.

Address requests to: Jim Murphy, Science Education Center, University of Iowa, Iowa City, Iowa 52242.

ELEVENTH ANNUAL IOWA JUNIOR SCIENCE, ENGINEERING HUMANITIES SYMPOSIUM

About 300 high school science students and forty science teachers gathered in Iowa City for the Eleventh Annual Iowa Science, Engineering and Humanities Symposium held in conjunction with the Annual Iowa Junior Academy of Science State Meeting. The three-day symposium was entitled, "Mankind, Science, and Tomorrow."