

# SOPHOMORES

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## Students May Opt For Simultaneous Degree

University Park (PAIN)- With increasing competition and scarcity of career openings in certain areas, many students choose to enroll in a simultaneous degree program in order to increase their job opportunities (A simultaneous degree program is a combination of background is desired). Many simultaneous degree programs are available, but there are several restrictions. First, the candidate must have a cumulative grade-point average of at least the minimum required by the added major. For example, if one is transferring to a major that requires a cumulative average of 3.0, his present average must be 3.0. In addition, one must be between fourth and ninth term standing. One should speak to his advisor

and obtain an application from him. Then the candidate must meet with the dean of the college he is presently enrolled in, as well as with the dean of the college he plans to second major in. He must have his application approved by all the program heads and deans involved. Once the candidate is enrolled in the simultaneous degree program, he must earn a minimum of 30 credits above the number of credits required for the degree with the lowest total credit requirement for each simultaneous degree approved. For example, if the candidate is enrolled in one major which requires 120 credits and another which requires 126 credits, the candidate must earn at least 150 credits to graduate.

## Army ROTC Changes To Meet Needs

There's been a big change on College campuses in the last 10 to 12 years. The turbulence of the 60's is all but gone and it's been replaced by a calmer, more serious student attitude. The students are interested in good sound career training. Army ROTC was one of the most visible targets of student unrest in the 1960's and enrollments shrank to almost desperate levels. But these attitudes have changed and ROTC is enjoying a comeback and a renewed respect that is more than gratifying to Colonel Rose, Professor of Military Science at Main Campus. "It's not only that times have changed or the students have changed, although that is most certainly true. But ROTC has changed along with them. The program has been made more relevant to them and we can show how Army ROTC and its

curriculum can help to meet the needs of their personal lives as well as help in whatever career they select," Colonel Rose explained. How has Army ROTC changed? There is an exciting new curriculum of Military Science courses that have proved so popular, that many non-ROTC students elect to put them in their class schedules even though they're not actually in the program. A popular aspect of Army ROTC is the Reserve Forces Duty Option. This allows a student to choose to serve in either the Army Reserve or National Guard after commissioning. This is particularly important to some students since it allows them to begin their civilian careers while serving their country at the same time. Along with this, Army ROTC students receive extensive



## Erie Employment Peaks

Erie County's economy turned in a record-breaking performance last year. Employment reached a new peak as a monthly average of 117,400 county residents held jobs. That was 3,000 more than a year earlier. Local factories peaked with a monthly average of 44,800 jobs, a thousand more than in 1978. And other industries added 500 jobs, for a new high of 71,500 a month. A record amount of electricity was used in factory production. The area is now consuming nearly one-quarter more than it did for this purpose as recently as 1972. After peaking in 1978, the average factory work week edged back to 41.4 hours, but 1978 and 1979 had the longest averages in recent history.

leadership and management training which gives them a decided edge when applying for employment. Those are two qualities every employer looks for in a prospective employee and most recognize the ability of ROTC to develop them in students. While the image of Army ROTC has changed, it still has not caught up with many students. "When we have the opportunity to talk with high school students or even our own college students", Colonel Rose added, "We're surprised at how many still think of ROTC in terms that go back 10 years. When we tell them about Army ROTC today they are sometimes skeptical until they talk with some of our students and find out what we've been telling them is true."

## Sophomore Works On Energy Project

A Behrend College Penn State sophomore is working on a project which hopefully will make coal environmentally safe for use in power plants. Melissa Masteller was recently awarded an intern scholarship through Oak Ridge Associated Universities, Oak Ridge, Tenn. She is now working in a new lab high atop a hill at the Pittsburgh Energy Technology Center at Bruceeton, the largest of five federally owned and operated centers in the U.S. Department of Energy. Miss Masteller, a chemical engineering major at Behrend, is working with the oxydesulfurization process which is the chemical removal of sulfur from coal. The center, which devotes all its efforts to coal technologies has had as much as a 40 per cent success rate in the removal of sulfur from some types of coal. The process attempts to remove the organic sulfurs as soon as the coal is mined, as opposed to other methods which are applied either at the time of combustion or in the stacks after burning. A centralized desulfurization

plant would save corporations the cost of added environment safeguards. Sulfur is present in coal in three different forms: pyritic, organic and sulfate. In the oxydesulfurization process, pyritic and organic sulfur are oxidized to the sulfate form where it is washed out of the coal, neutralized, and disposed of. Working with the pilot plant process, she is engaged in feed preparation, calculations, operations, laboratory testing and report preparation. The process is thus: Coal obtained from mines throughout the U.S. is dried and crushed until it is fine enough to pass through a 100 mesh sieve. The crushed coal is then sampled and sent out for analysis. The coal is mixed with water and fed to the pilot plant as a slurry. Air is bubbled through the slurry at elevated pressure and temperature to provide the oxygen needed to oxidize the sulfur in the coal. The coal is then removed from the reactor and

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## Working Overseas Cuts Travel Costs

Now, more than ever before, students can reduce the cost of a trip abroad by living and working in another country. This summer, hundreds of U.S. students will find jobs in France, Ireland, Great Britain and New Zealand through the WORK ABROAD program sponsored by the Council on International Educational Exchange (CIEE). In its tenth year of operation, the program cuts through the red tape that students face when they want to work overseas.

Participants must find their own jobs, but they receive help from cooperating student organizations in each country. In France and New Zealand, they may work during the summer; in Britain and Ireland, they may work at any time of the year for up to six months and four months respectively. The jobs are usually unskilled - in factories, department stores, hotels, etc. - but they pay enough to cover the cost of room and board. A typical job might be that of a cham-

bermaid or porter in a hotel in London's West End. Last summer, one enterprising student found work as a wool presser on a New Zealand sheep farm. Students must be at least 18 years old and able to prove their student status. To work in France, they must be able to speak French. For more information and application forms, contact CIEE, Dept. PR-WA, 205 East 42nd Street, New York, NY 10017; or 312 Sutter Street, San Francisco, CA 94108.

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## The Army Nurse Corps.

For more information, write: The Army Nurse Corps, Northeast Region, U.S. Army Recruiting, Fort George G. Meade, MD 20755

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 City, State, ZIP \_\_\_\_\_  
 Phone \_\_\_\_\_ Age \_\_\_\_\_  
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