

## INSTITUTIONAL PROFILE -- UNIVERSITY OF SOUTHERN COLORADO

The Mathematics Department at U.S.C. currently offers three Bachelor degree programs in the Mathematical Sciences: applied math, computer math, and a secondary teaching major. Professor James Derr of the University of West Virginia joined our faculty of 15 full-time staff members this Fall. Jim is an algebraist and has taught at both the undergraduate and graduate levels.

U.S.C. is undergoing a massive and sometimes painful reorganization this year. At this point in time, mathematics remains a separate department in the new school of Engineering and Science. There has been some pressure to combine Math with Computer Science technology, but M.A.A. and A.M.S. statements concerning the scope of the mathematical sciences seem to provide a rationale to the contrary.

While the reorganization continues, our interim President is conducting an extensive program review on three fronts: academic programs, administration, and athletics. U.S.C. needs to focus on certain high priority goals in order to progress within the restrictive framework of state financing policy.

## INSTITUTIONAL PROFILE -- ADAMS STATE COLLEGE --

We offer both a traditional mathematics degree and a computer emphasis degree.

We have five full-time faculty in the department -- two with MA's in mathematics, two with MS's in computer science, and one with a Doctor of Arts degree. We also employ a half-time person teaching remedial arithmetic.

We have hired a new staff member each year for the past two years -- both with computer science degrees -- and do not anticipate any new positions for next year. We expect no retirements for the next five to ten years. Only the two new faculty members are non-tenured.

## INSTITUTIONAL PROFILE -- UNIVERSITY OF COLORADO AT COLORADO SPRINGS

The Department of Mathematics offers two curricula leading to the degree B.S. (Applied Math) in the College of Engineering and Applied Science. In Option I, the student takes a minor in a specific engineering department in the college. Option II is a joint mathematics - computer science program.

The Department of Mathematics was one of the original academic units when the UCCS campus was opened to classes in September 1965. Each semester, between 45 and 50 courses in mathematics are offered. The department provides not only a sound curriculum for mathematics majors but also offers many in-depth service courses for students in computer science, engineering, physics and other areas. The department offers the B.S. and the M.S. degree in applied mathematics through the College of Engineering and Applied Science and the B.A. degree in mathematics through the College of Letters, Arts and Sciences.

We are fortunate to have a number of qualified, dedicated faculty. All of them are professional mathematicians with a deep love and appreciation of mathematics and their enthusiasm for the subject and their innovative teaching techniques make the learning of mathematics an exciting experience.

## INSTITUTIONAL PROFILE -- UNIVERSITY OF COLORADO AT COLORADO SPRINGS (cont.)

The Department of Mathematics at UCCS offers a strong graduate program leading to the M.S. degree in applied mathematics. Our program places special emphasis on areas that are directly related to the needs of the surrounding micro-electronics, space and other industries in Colorado Springs. The department also offers the Ph.D. program in collaboration with the Department of Mathematics at the Boulder campus.

The department offers graduate level courses in astrodynamics, orbital mechanics, applied statistics, quality control, engineering mathematics, differential equations, numerical analysis, applied algebra and applicable analysis. All of our graduate courses are offered in the evening once or twice a week for the convenience of working people. Onsite courses in an industrial location are also offered if sufficient interest warrants it. We are also in the process of making video courses at the graduate level. In addition, we can also offer a variety of short-term courses or workshops on topics that are of great relevance to the needs of a particular company or organization.

### **The light touch**

#### **What the professor said**

- You'll be using a leading textbook in this field.
- If you follow a few simple rules, you'll do fine.
- The *gist* of it is what's most important.
- You'll have to see me during my office hours for a thorough answer to your question.
- In answer to your question, you must recognize that there are several disparate points of view.
- Today we will discuss a most important topic.
- Unfortunately, we haven't the time to consider all the people who made contributions to this field.
- We can continue this discussion outside of class.
- Today we'll let a member of the class lead the discussion. It will be a good educational experience.
- The implications of this study are clear.
- The test scores were generally good.
- The test scores were below my expectations.
- Some of you could have done better.
- It's been very rewarding to teach this class.

#### **What the professor really meant**

- I used it as a grad student.
- If you don't need any sleep, you'll do fine.
- I don't understand the details either.
- I don't know.
- I *really* don't know.
- Today we will discuss my dissertation.
- I disagree with what roughly half of the people in this field have said.
- I'm tired of this—let's quit.
- I stayed out too late last night and didn't have time to prepare a lecture.
- I don't know what it means either, but there'll be a question about it on the test.
- Some of you managed a B.
- Where was the party last night?
- Everyone flunked.
- I hope they find someone else to teach it next year.

*J. Timothy Petersik teaches in the psychology department at Southeast Missouri State University. This piece is reprinted with his permission.*