IBM, in partnership with UMES, launched an "Enterprise System z" IT curriculum infusion program on Wednesday, February 25, with some 60 students in attendance. IBM has partnered with the university to grant UMES students access to leading-edge technology, courseware and certification training programs based on open standards (both software and hardware platforms) and IBM proprietary technologies. The goal of the initiative is to provide students with the latest IT curriculum, thereby providing them with the skills to compete for lucrative (new) 21st Century job opportunities available, in the $60,000(+) range, with various IT companies nationwide and to help ensure that they are prepared to be the technology leaders of tomorrow. The curriculum infusion initiative is designed to enhance the value of UMES business and computer science graduates in a global economy, and to position UMES to meet the challenge of providing American industry with skilled workers capable of responding to the rapid emergence of advanced technologies in the new high-performance workplace. Due to the recent partnership between the Department of Math & Computer Science and IBM, we offered a couple of IBM-infused courses in Spring 2009. During the Fall 2009 semester, eleven more courses will be added, including three new IBM-infused offerings (CSDP 288: Introduction to Enterprise Compiling, CSDP 398: Java, and CSDP 498: Perl). In preparation for teaching this new curriculum, four faculty members from the department will attend a free enterprise system Z/OS training class hosted by IBM in Poughkeepsie, NY and Dallas, TX in June 2009.
Visiting Scholar Research Activities

Dr Norihan Abu Hassan, associate professor from University Teknologi Malaysia, has been named the 2008/2009 Fulbright Malaysian Scholar. She will spend four months at the UMES Department of Mathematics and Computer Science, School of Business and Technology from (January to May 2009.) Dr. Hassan earned a Bachelor of Arts degree in mathematics at Monmouth College, Illinois, in 1979 and M.Sc.Ed degree in secondary education at Northern Illinois University, Dekalb, Illinois, in 1980. She later obtained a PhD in mathematics education from National University of Malaysia in 2001. At UMES, she will conduct research on “Comparisons of Cultural Background in Learning Mathematics Among First Year American and Malaysian College Students”. She expects to benefit enormously from learning how the different cultural backgrounds and learning style of undergraduate first year students from US and Malaysian have influenced their values, beliefs and confidence related to mathematics learning. Her primary research interest is in the cognitive studies and assessment of learning mathematics among undergraduate students and its relationship to teaching strategies, as well as cross-cultural studies. Since 2004, Dr. Hassan embarked on pedagogical research in engineering, combining her experience with academic from engineering departments to enrich her academic research interests. Before arriving in University of Maryland Eastern Shore, she was a Deputy Dean (Teaching and Learning) for over three years. She was responsible for conducting academic staff training courses and workshops related to teaching and learning at the faculty and university level. Her expertise includes teaching portfolio workshops, problems based learning workshops, assessment for outcome based education workshops, and more recently, quality assurance workshops.

Faculty Activities

Research Papers (Accepted/ Presented)
- Hura, Gurdeep S. “Correlating TCP/IP Interactive Sessions with Correlation Coefficient to Detect Stepping-stone Intrusion.” Accepted in AIN2009 23rd IEEE international conference Brad University, UK in May 2009
- Williams, Mark E. “Calculated electronic and magnetic structure of rutile phase V1−xCrxO2.” This paper was published in the Journal of Applied Physics, presented 11 November 2008; received 26 September 2008; accepted 20 November 2008; published online 12 March 2009.

Journal/Publications

Contribution to Book

Presentations
Congratulations  ....... Honorees Spring 2009

Computer Science
Alhadi Ahmed
Yamada Dorsey
Edmund Duncan
Sha’Nay Funches
Lorena Harper
Ryan Jones
Leo Namuyamba
William Ntirenganya
Jorge Pichardo
Aderemilekun Popoola
Derek Powe
Brian White

Mathematics
Adonis Ajayi
Brittany Anderson
Chanda Brown-Wilson
Lisa Chance
Clayton James
Christine King
Amon Kiprotich
Susan Lyons
Jamal Price
Raghu Yerra

Mathematics Education
Brittney Jones
Karen Leung
Teresa Oxendine

Mr. Alhadi Ahmed
Outstanding Student Awards of the Math & Computer Science Department

Teresa Oxendine – is presented the Daniel J. Pinkett Award in Mathematics by Dr. Charles Williams, vice president for

Math Fun Day - Seniors Presentations

Brittany Anderson
The Golden Ratio and Photography

Wykea Benjamin
Math and Musical Melodies

Jared Countess
Math and Social interactions

Lorena Harper- is the recipient of the 2009 Dr. Thelma W. Hedgepeth Memorial Scholarship in Mathematical and Computer science.

Congratulations! On Mrs. Horsey Administrative Professional Day, was sent from the Math & Computer Science Faculties and Staff wishing her all the best.
Our Objectives are to:

- Students have necessary knowledge and skills to pursue a career in industry and continue their education in graduate program.
- Students have necessary knowledge and skills (both theoretical and practical) that enable them to analyze and solve real life problems and to adapt to rapidly growing technology environment.
- Students have necessary knowledge and skills in basic qualitative, algorithm and mathematical modeling understanding to enable them to think clearly and critically.
- Students have general knowledge and experience of design, implementation and applications of software systems of real life problems.
- Students have general knowledge and experience of using knowledge of statistics, actuarial science in modeling applications of software systems of real life problems.
- Faculty remains current in their fields of instruction and research.
- Faculty spends enough time in pursuing their research and professional development.
- Faculty develop skills for counseling students, colleagues and community members in the planning of their academic career.

Ever wonder, “How in the world I am ever going to use all this stuff they teach me in math in the real world?” Well, the Math Department at UMES is determined to help students answer that question for themselves. On March 31st, they hosted “Math Fun Day” from 9AM to 12:30 PM. Nearly 50 students from all disciplines got hands-on experience as math majors Wykea Benjamin, Jared Countess, and Brittany Stevenson presented their Senior Seminar papers.

Students learned that mathematics makes music possible by creating their own scale with glasses of water, and then played melodies on their “glass scales.” They discovered that logic theory determines outcomes in computer games as well as in real-life courtrooms. After examining the “beautiful” Golden Ratio, they applied its geometric properties to photography and learned how to take better pictures.

Finally, they watched an animated video about the Platonic solids, and Joanna Riccobono taught them to make an origami cube or dodecahedron. The day finished with a lunch of pizza π (π).

What did students think of Math Fun Day?
Some of their comments were: “I enjoyed each session and experienced that you can have fun while learning math,” and “Overall it was a great experience because I gained a more hands-on feel for math and how it applied to everyday life. It was fun!”