

VIRGINIA MILITARY INSTITUTE

LEXINGTON, VIRGINIA 24450-0304

DEPARTMENT OF APPLIED MATHEMATICS AND COMPUTER SCIENCE

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2009-2010 Academic Year

Dear Participant,

We look forward to your visit to the upcoming VMI open house!

As part of the open house program, you will have the opportunity to talk with many different people and I encourage you to seek out information on as many programs as possible. The members of the department of Applied Mathematics and Computer Science invite you to visit us in the newly renovated, state-of-the-art Mallory Hall. In particular, the program allows for you to visit two departments during the afternoon (either 2:30-3:15pm or 3:30-4:15pm in Mallory Hall, room 413) to hear about our programs and to get your questions answered. We will also be available in the PX during registration from 8:30-10:00am.

If you are unable to make one of the visitations, I invite you to view our presentation at www.vmi.edu/macs and hope that you will contact me with questions.

We offer majors and minors in each of Applied Mathematics and Computer Science.

Some highlights of the programs:

Applied Mathematics:

- A strong background in mathematics with emphasis on Operations Research, Statistics, and Numerical Methods.
- Industry standard software including Matlab, MathCAD and Mathematica
- Fully integrated smartrooms for instruction
- Great flexibility in the program to receive a strong technical background and have the ability to pursue minors (in Arabic for example) or double majors (recent double majors in History, Physics, Civil Engineering and Modern Languages).
- Most of our graduates go into the Military or Industry with some pursuing teaching (having a math degree doesn't mean you'll necessarily become a teacher!)
- Senior capstone projects (recently in the study of Barcodes, Laser Pulse modeling, and Protein Structure Prediction algorithms)

Computer Science

- Nationally accredited by ABET
- Industry standard software in Java and C/C++
- Training in programming, systems analysis, computer forensics, and human-computer interaction.
- State-of-the-art labs
 - Computer Forensics
 - Human-computer interaction - with eye-tracking software for software development.
 - UNIX labs
 - Parallel-Processing lab – based on an eight-node Playstation3 cluster
 - Mobile Computing – iMac lab with iPhone/iPod Touch development software

In addition, we offer a MA-CS-PY summer camp in conjunction with the VMI Department of Physics and Astronomy. We encourage juniors and seniors interested in VMI to consider spending 5 days at VMI working on one project in either Applied Mathematics, Computer Science, or Physics and a second project that shows how the three fields integrate and complement each other. The application for the summer camp is also available at www.vmi.edu/macs.

If you are looking for a major providing strong technical backgrounds and includes the flexibility to concurrently pursue other interests, consider a degree in either Applied Mathematics or Computer Science.

Sincerely,

LTC Troy Siemers
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Virginia Military Institute
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