

# College of Information & Mathematical Sciences

Clayton State University

1/30/2009

Volume 1, Issue 1

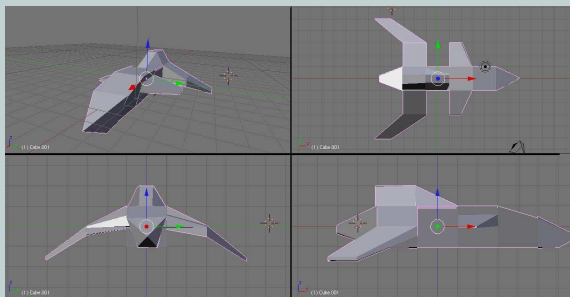
## At a Glance: Reasons to Study in CIMS

- Majors in:
  - Mathematics
  - Computer Science
  - Information Technology
- Campus Life:
  - New dorms
  - 15 minutes from Atlanta
- New Math/Engineering Dual Degree with Georgia Tech!
- WebBSIT program
- Fayette Location Now Available

## Computer Science Starts this Fall!

... with an emphasis in Computer Gaming!

The University System of Georgia Board of Regents recently approved a Bachelor of Science in Computer Science in the College of Information and Mathematical Sciences (CIMS), with classes beginning in Fall '09. The degree contains all of the components of a traditional computer science program, but it has a unique twist: the emphasis is in computer gaming.

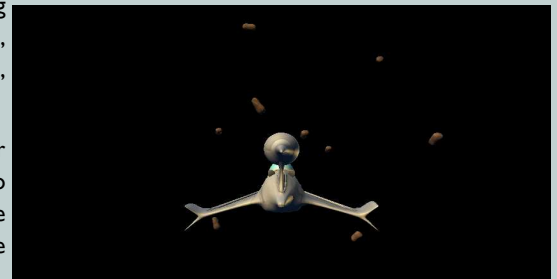


The reasoning is simple. "We might as well have fun while studying computing, and gaming is an excellent way to do that", says Dr. Jeff Chastine, Department Head of Information Technology. "Computer gaming brought in over \$18 billion in 2007— nearly double that of box office sales. By the end of 2008, sales were over \$21 billion. It's definitely a full-fledged industry."

Does a gaming emphasis restrict a student's career to creating games? According to Chastine the answer is 'No'. "While it's true that our students study computer gaming technologies such as OpenGL, DirectX, XNA and gaming engines, computer science is still there. Games leverage just about every facet of computing, including databases, networking, human-computer interaction, graphics and mathematics. To develop engaging games, you need to be a good computer scientist."

Does a gaming emphasis restrict a student's career

"Life is short and workdays are long", says computer science student, Christine Gardner. "It's exhilarating to know that Clayton State will prepare me to excel in the field of computer science - allowing me to love those long workdays."



Students who are interested in studying in CIMS should send an email to [cimsInfo@clayton.edu](mailto:cimsInfo@clayton.edu) or visit our website at <http://cims.clayton.edu/cimsinfo/>.

## New Mac Lab on its Way!

Apple enthusiasts will be excited to hear that in addition to its existing multimedia and networking labs, CIMS will be adding a new Mac lab. The new space will be equipped with 10 Macbooks, 10 iPod Touches and associated goodies, including Time Machine and Time Capsule which allow for automatic backup of student projects. The lab will be used to help support the computer science program starting in Fall '09.

Dr. Lila Roberts, Dean of CIMS, says "These machines allow us to develop applications across a wide range of mobile platforms. Because the Macs will run Parallels, it is possible to develop applications not only for iPhones, but also Windows Mobile phones, J2ME phones and even Google's new Android platform."

For those of you who are out of the technology loop, the iPhone has redefined the mobile landscape. It opens up a myriad of possibilities for developers, including access to orientation and acceleration sensors. This has led to novel applications and games, including the famed "Super Monkey Ball", which sold 300,000 units at \$9.99 each.



## In this issue:

Computer Science Starts this Fall

New Mac Lab on its Way!

Robots at CSU

About our College

## Contact Information

College of Information &  
Mathematical Sciences  
2000 Clayton State Blvd  
Morrow, GA 30260

Tel: 678 466 4400

Fax: 678 466 4459

E-mail: [cimsinfo@clayton.edu](mailto:cimsinfo@clayton.edu)

Web: [cims.clayton.edu/cimsinfo/](http://cims.clayton.edu/cimsinfo/)

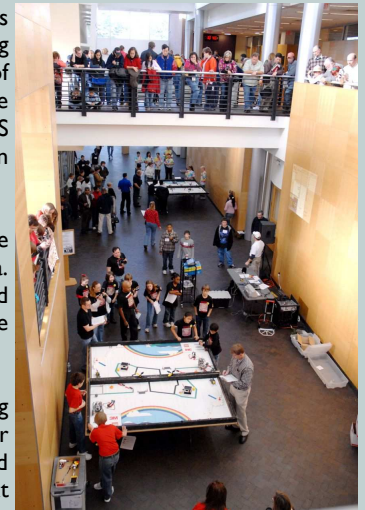
## Robotics Competition

For the past 3 years the College of Information and Mathematical Sciences has hosted the Annual First Lego League (FLL) Robotics State Qualifying Tournament for middle school teams. In three years, 110 teams composed of 882 middle school students from all areas of the state have competed in the day long competition. At the tournaments, each team is judged by CIMS faculty based on robot design, robot performance, research and teamwork. In 2008, over 137,000 children participated worldwide in the league.

CIMS faculty work closely with the teams before, during and after the competition to expand the college's outreach across the state of Georgia. For example, Dr. Byron Jeff and Dr. Cherie Long have coached and mentored teams since 2007 — with several teams advancing to the state tournament and one team placing 14th in the state (out of 257 teams).

The competition challenges students to think like scientists by solving problems involving engineering concepts, programming, and robots. "Our involvement in the FLL allows CSU to be part of the creation of a world where science and technology are celebrated, and to encourage the next generation to dream of becoming science and technology leaders.", says Dr. Long.

"Challenges" introduce students to real world applications of engineering and sciences. For example, the 2008 Climate Connections Challenge enabled students to study the intricacies of our climate. This year, the challenge is *Smart Move* and involves accessing people, places, goods and services in the safest, most efficient way possible..



## About the University and College

Clayton State University is a four-year, comprehensive, accredited University, offering more than 30 undergraduate degrees and several Master Degrees. It is conveniently located 15 minutes south of Atlanta and resides on 163 acres.

Clayton State now offers on-campus living, which is an appealing option for both in-state and out-of-state students. The dorms are equipped with high-speed Internet connections (1000Mbps!), cable, a kitchen, laundry facilities, and much more.

CIMS was established in 1998 and is housed within the new Baker University Center—a state-of-the-art building that is equipped with high-speed networking, a variety of computing labs and modern classrooms. It currently employs approximately 30 faculty and offers the following:

Computer Science: As our newest degree which starts next Fall, CIMS offers a traditional Bachelor of Science in Computer Science that emphasizes computer gaming. Courses include computer graphics, architecture, operating systems, networks, game analysis, and human-computer interaction.

Mathematics: CIMS also offers a Bachelor of Science in Mathematics which includes courses in calculus, linear algebra, finite mathematics, statistics, as well as advanced studies in modern geometry, differential equations, numerical methods and graph theory. A minor is also available.

Information Technology: Our IT department offers a Bachelor of Science in Information Technology, where students study the latest technology in networking, security, databases, and eCommerce. The

department offers several courses online, as well as both day and night.

Dual Enrollment with Georgia Tech: CIMS participates in a dual-enrollment program for engineering students who plan on attending Georgia Tech. Students can obtain a B.S. in Mathematics in only 3 years, and complete their engineering degree with two additional years at Georgia Tech.

WebBSIT: Clayton State is a member of the WebBSIT program — a consortium of five universities. The program offers IT core curriculum and all upper-division IT courses fully online. It is ideal for students who maintain full-time jobs, or those that live far away from campus.



Laker Hall was recently opened in Fall 2008.