Computing Sciences is changing the way we live, work, play and learn. New mobile devices such as the Verizon Droid, new software applications such as Facebook and new platforms such as the Google Cloud (App Engine) provide new challenges, new programming paradigms and new jobs. We are in an exciting field that provides us the fantastic opportunity for life-long learning.

CS and CIS students are actively involved in cutting edge research and are very successful in the job market. Six students conducted research with faculty across a variety of topics that included artificial intelligence, mobile computing, data mining, game development, instant messaging and human computer interactions. Many companies such as Credit Suisse have discovered the strong combination of technical and communication skills of Elon graduates. The department is very proud that five students entered technical analyst positions at Credit Suisse after graduation in June 2009 and five current seniors have been accepted for the program starting in June 2010.

Faculty have been extremely active and engaged in keeping up with the rapid pace of technology. Lynn Heinrichs completed a sabbatical investigating collaboration in enterprise systems. Shannon Duvall, Joel Hollingsworth and Megan Squire presented their work at international conferences in game programming, mobile computing and open source software. Michele Kleckner attended a five day workshop in Adobe Flash and InDesign. Duke Hutchings submitted a paper to the leading conference on HCI and Barbara Taylor introduced a suite of Web 2.0 tools into the Computers and Teaching course.

The Computing Sciences Department was honored to have Dr. Don Bailes, perform a review of the department this year. We are thrilled with the results.

“\nThe department is strong and benefits from well-qualified, hardworking faculty, excellent leadership, a student-centered vision for its educational programs, and good facilities. It provides a good education for its students. All offices and all people throughout the university cooperate to insure the success of the educational programs. Elon is obviously a terrific place to work, and it provides an atmosphere that fosters learning and success for its students.”

~Dr. Don Bailes, former president of the Computing Sciences Accreditation Board

We are very proud of our alumni and love to share your accomplishments with our students and with their parents. We value your input in industry and technology trends so that we can continually update the curriculum to best serve the students.

Please stay in contact with us and continue to make Elon a special place.
Faculty Accomplishments and Awards

The following are some of the accomplishments of the Computing Sciences faculty for 2009:

- Shannon Duvall published “Creating a Games Class: A Walkthrough” in the Proceedings of the Fourth International Conference on the Foundations of Digital Games. She presented her work in Nassau, Bahamas, in April. Her current project, making a new Elon computer scientist, is due to be completed in early March.

- Lynn Heinrichs will receive the distinguished service award form the Southwest Region of the Decision Science Institute in March; she is only the second woman in the organization’s history to receive the award. She was also awarded the department’s first sabbatical for the Fall 2009 semester during which she worked with the information technology department of a regional university exploring applications of Microsoft Office Sharepoint server to forms processing and workflow automation problems.

- Joel Hollingsworth received Elon’s 2009 award for Excellence in Teaching for the College of Arts and Sciences. This award recognizes a select few professors who “exemplify the Elon teacher-scholar – outstanding in the classroom, current in the discipline, and committed to the intellectual development of students.”

- Joel Hollingsworth and Dave Powell co-authored "Integrating Mobile Computing with Android in Computer Science II and Computer Science II.I", which appeared in the Proceedings of the 2009 World Conference in Computer Science, Computer Engineering and Applied Computing. The work was presented in Las Vegas in July. They were also featured in the Fall 2009 issue of the Magazine of Elon in an article entitled “Mobile Mentors.”

- Megan Squire was awarded a sabbatical for Spring 2011 and a summer research fellowship for the Summer of 2010 to work on her research, “Developing Software for the FLOSSmole Project.” She also published "Integrating Projects from Multiple Open Source Code Forges" in the International Journal of Open Source Software and Processes. She and Paula Rosinski co-authored the article “Strange Bedfellows: Human-computer Interaction, Interface Design, and Composition Pedagogy” in Computers and Composition.

- Megan Squire and Shannon Duvall co-authored an article entitled "Using FLOSS Project Metadata in the Undergraduate Classroom" which appeared in the Proceedings of the Fifth International Conference on Open Source Systems. Squire presented the work in Sweden in June.

The following are the 2008-2009 student award winners:

<table>
<thead>
<tr>
<th>Category</th>
<th>Winner</th>
</tr>
</thead>
<tbody>
<tr>
<td>Computer Science Academic Achievement</td>
<td>Vic McGlaughlin</td>
</tr>
<tr>
<td>Computing Sciences Department Service</td>
<td>Dan Cresse</td>
</tr>
<tr>
<td>Elon University Programming Contest</td>
<td>Kyle Schutt</td>
</tr>
<tr>
<td>Information Systems Academic Achievement</td>
<td>Brad Nock &amp; Nicole Olavarria</td>
</tr>
<tr>
<td>Carpenter Award</td>
<td>Brandon Walters</td>
</tr>
</tbody>
</table>

In addition, it was a banner year for undergraduate research. The following projects were presented at SURF in the spring and at SURE in the summer:

- "A Comparison of Student Use and the Understanding of Text Messaging Shorthand" presented by Johnie Blackwell, III; Dr. Lynn Heinrichs, mentor, SURF
- "An Embodied Mobile Agent Framework for iPhone OS" presented by Vic McGlaughlin; Prof. Joel Hollingsworth, mentor, SURF
- "Position-Based and Keyword-Based Parsing for Automatic Retrieval of Web Page Information" presented by Brad Nock; Dr. Shannon Duvall, mentor, SURF
- "Extending the ID3 Algorithm to Handle Confidence Values" presented by Tom Porter; Dr. Shannon Duvall, mentor, SURF
- "3D Virtualization: Learning German from a Video Game" presented by Tess Stamper, Kyle Schutt, Daniel Cresse and others; Dr. Shannon Duvall, mentor along with Dr. David Neville and Dr. LM Wood, SURF
- "A visual password system for mobile devices" presented by Jonathan Citty; Dr. Duke Hutchings, mentor, SURF
- "FLOSSmole: Free, Libre, or Open Source Software Development" presented by Jamie Schatz; Dr. Megan Squire, mentor, SURE

**Elon Programming Teams**

Three programming teams, led by Joel Hollingsworth, participated in the 2009 ACM Mid-Atlantic Regional Programming Contest. The teams were:

- **Phoenix White**: Jamie Albinson, Amanda Bienz and Thomas Price
- **Phoenix Red**: Benjamin Blach, Steven Norris and David Edge
- **Phoenix Gold**: Tyler Anderson, Dan Cresse, and Nestor Walker

The Phoenix White team placed fourth out of the 30 teams at the Duke University site, and 30th out of the entire 161 teams competing.

Way to go student teams!
The Elon student chapter of the ACM once again held a night of games hosted by Belk library. The event took place on Friday, September 18, from 9 pm to 1 am.

This event featured both video games and board games and drew over seventy faculty, staff, and student participants.

This is an excellent event for promoting the Computing Sciences department and the student chapter of the ACM. The students hope to hold another game night during spring semester.