October 29th Newsletter

To: All CS Undergraduates
From: the CS Academic Office
CS Undergraduate Newsletter
October 22, 2007

Advising and Course Information

* Information on early registration for Spring 2008 courses* Wondering who your advisor is? See below!

* The Department of Bioengineering will hold an informational meeting for Illinois students about graduate studies in Bioengineering. The presentation will include an overview of the academic curriculum and research opportunities. Time & Date: Friday, October 26th, 2007 at 4 p.m. in the Digital Computer Lab room 2240.* Peer Advisors wanted! Volunteer to field email questions from fellow CS, Math &CS, and Stats& CS students about courses, workload, student organizations and other issues that students are best equipped to address

* Discovery courses for freshmen for Spring 2008 -- Registration in Discovery Courses or Discovery Sections of regular courses is limited to freshmen.

* Finding a Major that Fits, offered by The Career Center -- This workshop dates remaining this semester---October 16, 25 and November 1 & 6. Each workshop is one hour in length. Pre-registration is strongly encouraged via the Career Center website (http://www.careercenter.uiuc.edu/services/workshops/wsmain.asp).* Info on College of Business Intercollegiate Transfer Process*

* Five-year BS/MS in CS program - see information below. Application deadline is Friday, November 16th.* Extended drop deadline for MATH 415H (section H only), 417, 424, 427, 444, 447 and 448

Scholarships, Research, Conferences and other Opportunities* The Computer Science Student Advisory Council (CSSAC) needs one Junior or Senior to serve as a member - see info below

* The American Council of Engineering Companies of Illinois (ACEC-Illinois) is currently accepting applications for its Annual Scholarship Awards Program. Information and applications are available online at: www.acec-il.org/scholarship.cfm. The application deadline is December 14, 2007.

Career Info: Jobs, Internships, Corporate Events, Contests and other opportunities

* Internship positions at Yahoo (part-time) - see details below* Cazoodle Inc., a spin-off from Computer Science of UIUC, is looking for "Web Programmer" and "Search Architect" to build the "next" generation" Web applications and "data aware" search engines.

The 2007 Engineering Student Leadership Conference Sponsored by Boeing, Saturday, October 20, 2007 from 9am-4pm

* The 2007 Engineering Day of Science - October 28-29 this year's upcoming DOE Day of Science will be hosted by the Oak Ridge National Laboratory. The event will be held at the Knoxville (Tennessee) Convention Center and will feature speakers and exhibits from the U.S. Department of Energy's national laboratories and facilities.* ChicTech Retreat - April 19th-20th 2008 - Volunteers/Counselors will be needed!!! Also, if interested in assisting with High School visits during the fall semester, please contact Samantha Chan at sdchan@uiuc.edu.

* "NCWIT Annual Conference - May 14-May 15th 2008 - Volunteers will be needed!!!"NCWIT Conference
When: May 14-15th
Where: UIUC
Contact: Sonya Harris (lharris@uiuc.edu)

The mission of the National Center for Women & Information Technology is to ensure that women are fully represented in the influential world of information technology and computing. And they are holding their conference here at UIUC!! We're looking for volunteers to help out this event. This is a NATIONAL event and it will favor highly for our Department to host this event. If you're interested, contact Sonya and more information is to follow. Lectures, Symposium, etc.

* COMPUTER SCIENCE COLLOQUIUM (and Graduate Seminar)
The Excitement in Parallel Computing
Laxmikant (Sanjay) Kale
Department of Computer Science
University of Illinois at Urbana-Champaign
October 22 (Monday), 2007 at 4:00 p.m.
1404 Siebel Center for Computer Science** Corporate Speaker Series: Patent Law*
The Engineering Leadership Committee of Engineering Council will be bringing in UIUC alum Rich Stockton, a patent attorney from Banner & Witcoff, to speak to engineering students on Thursday, October 25 at 7:00pm in 103 Talbot Lab. There will be plenty of FREE PIZZA to go around. Hope to see you there!

ADVISING AND COURSE INFORMATION

* Information on early registration for Spring 2008 courses
Early registration for Spring 2008 courses begins soon. Some students (Chancellors Honors and James Scholars) will be able to register as soon as October 29th. To find out precisely when you will be able to register, you can check your Time Ticket (the earliest time you are authorized to register) on Enterprise Applications (the program you use to register).

ALL NEW FRESHMEN, NEW TRANSFER STUDENTS AND JUNIORS WILL BE REQUIRED TO MEET WITH THEIR FACULTY ADVISORS
BEFORE REGISTERING FOR COURSES. You have already received an email about this and will receive a reminder soon. Read it carefully!

* Wondering who your advisor is?
Answer: You have more than one advisor! All students will have a faculty member assigned to them by the beginning of next week. For routine questions about degree requirements, policies and procedures, visit the staff in the CS Academic Office -- the advising office for all CS, Math & CS, and Statistics & CS majors. Office hours are 8:00 to 11:45 am mornings and 1:00 to 4:45 afternoons, M-F. On rare occasions, the office may shut down for meetings or other events, but we usually limit these to an hour at most and schedule them during low-traffic times. You can also ask advising questions by emailing Steve Herzog, the full-time CS advisor, at smherzog@uiuc.edu. To find out more about the academic office and the CS advising resources, visit the CS website's undergraduate advising wiki at https://agora.cs.uiuc.edu/display/undergradProg/CS+Department+Advising.  

* Peer Advisors wanted! Volunteer to field email questions from fellow CS, Math &CS, and Stats& CS students about courses, workload, student organizations, apartments, and other issues that students are best equipped to address.
We're looking particularly for seniors, juniors and sophomores. Please email Steve Herzog (smherzog@uiuc.edu) with the following information: Your name: Your program (CS, Math & CS or Stat & CS): Your netid: Issues that you are particularly well able to address (e.g. minors, student organizations, specializations, etc.): 

* Discovery courses for freshmen for Spring 2008
The list of Discover Course offerings for Spring 2008 has been posted to the Provost's website: http://www.provost.uiuc.edu/programs/discovery/Courses.html

Registration in Discovery Courses or Discovery Sections of regular courses is limited to freshmen. Here's the rationale for the program as presented by the university: "The Discovery Program helps Illinois students enhance their education through greater interaction with faculty in small classes. The interactive courses also enable faculty to share their research in a particular area with students. It is intended for first-year students only. Discovery sections cover a wide range of disciplines and enrollment is limited to a maximum of twenty students per section. Some Discovery courses can be used to satisfy General Education requirements or requirements in a major, while others are electives. Check with your adviser to find out if a Discovery course satisfies a requirement for you."

* Finding a Major that FIts
Finding a Major that Fits, offered by The Career Center has provided help for over one hundred students who are exploring majors at UIUC. This workshop is designed to assist freshmen and sophomore students identify at least 2 potential majors to explore. Additionally, students will be introduced to web resources to help them explore these potential majors.

This workshop dates remaining this semester---October 25 and November 1 & 6. ** Each workshop is one hour in length. Pre-registration is strongly encouraged via the Career Center website (http://www.careercenter.uiuc.edu/services/workshops/wsmain.asp).

* Info on the College of Business Intercollegiate Transfer Process: The application will be available until September 21st and decisions will be emailed by 5pm on October 19th. This process is for students who entered the University prior to the fall of 2007 and have 60 hours completed or in progress during the semester of application. The course requirements for this group are as follows: * Econ 102, Econ 103
  * CS 105
  * Econ 202, Econ 203*
  * Accy 201, Accy 202* (must be taken at the same place)
  * Math requirement. Choose one of the following options:
    1) Math 234 and 125
    2) Math 220 (or 221) and Math 125*
    3) Math 220 (or 221) and Math 231

* Accy 202, Econ 203, and Math 125 can be in-progress during the semester of application. The next application for this group will be February 5, 2008 - February 23, 2008 for entry into the Fall 2008 Semester.

Please remember that starting this year the process is different for students entering the university fall 2007 or later. These students will ONLY be able to apply at the end of their freshman year (May 7-June 1, 2008). Students must have finished all requirements before applying.

Course Requirements:
- Econ 102, Econ 103
- CS 105 (or CS 125 or CS 101)
- Math requirement. Choose one of the following options:
The American Council of Engineering Companies of Illinois (ACEC-Illinois) is currently accepting applications for its Annual Scholarship Awards Program. Eligible candidates must be:

- U.S. citizens
- currently enrolled in an ABET (Accreditation Board for Engineering & Technology) accredited engineering program in Illinois
- pursuing a Bachelor's, Master's, or PhD degree
- entering their Junior, Senior, Fifth, Master's or Graduate year in the Fall of 2008. Scholarship award winners will be selected by a committee of ACEC-Illinois Member Firm Principals and based on academic excellence, recommendations and an essay addressing the topic “What is the role or responsibility of the consulting engineer or land surveyor relative to shaping and protecting the natural environment?” Scholarships are awarded in June 2008.

Last year, ACEC-Illinois awarded $23,500 to 14 students at the state level. The top applicant received a $4,000 scholarship and thirteen students each received a $1,500 "Named" Scholarship sponsored by ACEC-Illinois Member Firms. In addition, each year the top applicant is forwarded to the American Council of Engineering Companies (ACEC) for the National Scholarship program, where they compete for additional Scholarship Awards. Information and applications are available online at: www.acec-il.org/scholarship.cfm.

The application deadline is December 14, 2008. The American Council of Engineering Companies of Illinois is a statewide association of independent engineering firms which represents the business and professional interests of over 230 member firms, which together employ over 10,000 engineers, architects, technicians and support personnel. ACEC-Illinois is a member organization of the American Council of Engineering Companies, a federation of state and regional councils which represent the interests of more than 5,000 private-practice engineering firms. For more information on the ACEC-Illinois scholarship program or ACEC-Illinois contact:

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* Five-year BS/MS in CS program - see information below. Application deadline is Friday, November 16th.*: Are you interested in a program that will make you more marketable to potential employers while introducing you to serious research? If so, then the following is for you.

Applications for Spring 2008 provisional admission to the 5-year BS/MS program in Computer Science are being accepted from juniors and select first semester seniors. Candidates for this highly competitive program must have a 3.5 GPA, though many things in addition to GPA are considered for admission.

Applications and all supporting credentials (non-UIUC transcripts, reference letters, statement of purpose) are due to the Academic Office (1210 SC) by: ** Friday November 16, 2007 at 4:45pm **

Because entry into this accelerated MS program is so competitive, late applications will not be considered. Please consult the CS Department web site for electronic applications, a copy of the reference letter template, the program description, and the research code list:

http://www.cs.uiuc.edu/undergraduate/programs.php#bsmsAnswers to questions frequently asked by applicants over several semesters are available on-line at:

http://www.cs.uiuc.edu/undergraduate/bsmsfaq.php

* Extended drop deadline for MATH 415H (section H only), 417, 424, 427, 444, 447 and 448

LAS and Engineering students enrolled in Mathematics 415H, 417, 424, 427, 444, 447, and 448 are permitted to drop from these courses without academic penalty and without petition through the end of the 13th week of the semester. Thus, Friday, November 16, 2007, is the drop deadline for these courses in Fall 2007.

LAS students who wish to drop the course(s) should see the receptionist in the LAS office and ask to be directed to a COAR user, who will process the late drop without a grade of "W". Engineering students should be directed to the Engineering College Office, 206 Engineering Hall, for assistance with the late drop. Students in other colleges may need to petition their college office for this policy to be applied, but the math department would support it.

Any request to drop Math 415H, 417, 424, 427, 444, 447, and 448 after November 16, 2007, will be considered a late drop request, and the student will be required to submit a written petition to the Late Add / Drop Committee consistent with normal policy.

SCHOLARSHIPS, RESEARCH, CONFERENCES AND OTHER OPPORTUNITIES

* The Computer Science Student Advisory Council (CSSAC) needs one Junior or Senior to serve as an at-large member (undergrad II)*: The Student Advisory Council represents the concerns of the student population, advises and helps in the administration of the department, and promotes better relations between students, faculty, and staff. The council is comprised of liaison members from all CS registered student organizations and three representatives from the student body at large (one from each level - undergrad I and II, and grad). The council meets a couple of times during fall and spring semesters. If you are interested, please email a personal statement (one-two paragraphs) with your qualifications to Steve Herzog (smerzog@uiuc.edu). All applications will be read (anonymously) by the current council members and ranked.

http://www.business.uiuc.edu/undergrad/prospective_students/inter_college.html
CAREER INFO: JOBS, INTERNSHIPS, CORPORATE EVENTS, CONTESTS AND OTHER OPPORTUNITIES

* Internship positions at Yahoo (part-time)

Position #1: Yahoo - Part Time Software Intern (Web Development)

Yahoo! has an exciting, part-time opportunity for a highly motivated Computer Science / Computer Engineering major. If you would like to work for the leading global Internet brand and one of the most trafficked internet destinations worldwide, Yahoo! is the company for you. The Production Operations Team is looking for someone to develop a Planning Web Interface (PWI) to provide Yahoo staff with a single destination to view an online, on-demand, version of the operations Plan of Record.

The initial estimate for this project is 195-240 hours. This position has the potential to turn into a Part Time position for the entire school year, and a full time position during the summer.

Required Skills:
- Experienced with web design
- Familiarity with PHP
- Strong communication skills
- The ability to work 15 - 20 hours per week

Position #2 Yahoo - Part Time Software Intern (Systems Administration)

Yahoo! has an exciting, part-time internship opportunity for a highly motivated Computer Science / Computer Engineering major with an interest in systems administration. If you would like to work for the leading global Internet brand and one of the most trafficked internet destinations worldwide, Yahoo! is the company for you. We are looking for a detail oriented individual to assist in a variety of tasks to ensure that the Yahoo infrastructure is successfully maintained and our customer's needs are met.

Required Skills:
- Demonstrated Unix systems knowledge
- Strong communication skills
- Team Player
- Ability to work 15 hours per week

* Cazoodle Inc., a spin-off from Computer Science of UIUC, is looking for Web Programmer and Search Architect to build the “next generation” Web applications and “data aware” search engines.

**** Maybe that's you!!

* Quick learner-- and we'll teach you the rest!
* Full-time, part-time, and co-op positions available
* Skills (preferred, not necessary):
  -- Web Programmer:
  DHTML, CSS, XML, Javascript, PHP, Flash.
  -- Search Architect:
  Search algorithms, Databases, Machine Learning, OS.

**** Let's talk:

jobs@cazoodle.com, admin.cazoodle@gmail.com

And, Cazoodle is:

* http://www.cazoodle.com/
* at the Research Park (near Assembly Hall).
* average age: 24.8 years as of August 1, 2007.
* also known as: http://apartment.cazoodle.com

* The 2007 Engineering Student Leadership Conference Sponsored by Boeing, Saturday, October 20, 2007 from 9am-4pm

The Engineering Student Leadership Conference (ESLC) is a one-day corporate leadership conference composed of a combination of corporate presentations and leadership activities. As student participants strengthen their leadership skills and see how these skills can be applied in industry, the attending corporate representatives enjoy valuable recruiting time. This year ESLC will be sponsored by The Boeing Company and will take place on Saturday, October 20, 2007 from 9am-4pm. Please visit http://eslc.ec.uiuc.edu/application.php to apply for the event, and feel free to contact David Rockwood at drockwo2@uiuc.edu for more details.

--What: Work for the State Department!

When: Monday, October 15, 6:30PM
Where: Levis Faculty Center, 919 W. Illinois St, 3rd Floor, Urbana, IL
Who: Brian Flora, Foreign Service Officer and Diplomat in Residence from the U.S. Department of State Foreign Service

Are you interested in the possibilities of a career that crosses the globe? Come and find out about full-time positions available to upcoming graduates as well as internships (located in D.C. and embassies worldwide) that are available to both graduate and undergraduate students. All majors welcome. U.S. citizenship required Equal Opportunity Employer.

Register by emailing Greg at ghatch1@uiuc.edu

* DOE Day of Science - October 28-29

This year's upcoming DOE Day of Science, hosted by the Oak Ridge National Laboratory will be held at the Knoxville (Tennessee) Convention Center and will feature speakers and exhibits from the U.S. Department of Energy's national laboratories and facilities. There are no limits on the
numbers of students/faculty who can attend this year, and US citizenship is NOT required. See [http://www.orau.gov/dayofscience/default.htm](http://www.orau.gov/dayofscience/default.htm) for program details and an online registration form. If you have any questions about the DOE Day of Science, please click "Contact" for the names of the appropriate persons to call or write.

* ChicTech Retreat - April 19th-20th 2008 - Volunteers/Counselors will be needed!!! Also, if interested in assisting with High School visits during the fall semester, please contact Samantha Chan at sdchan@uiuc.edu.*  

NCWIT Annual Conference - May 14th-May 15th 2008 - Volunteers will be needed!!!

NCWIT Conference
When: May 14-15th
Where: UIUC
Contact: Sonya Harris (lharris2@uiuc.edu)

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**LECTURES, SYMPOSIA, ETC.**

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**COMPUTER SCIENCE COLLOQUIUM (and Graduate Seminar)**

The Excitement in Parallel Computing
Laxmikant (Sanjay) Kale  
Department of Computer Science  
University of Illinois at Urbana-Champaign  
October 22 (Monday), 2007 at 4:00 p.m.  
1404 Siebel Center for Computer Science  

The almost simultaneous emergence of multicore chips and petascale computers presents multidimensional challenges and opportunities for parallel programming.

Machines with hundreds of Trillions of Floating-point OPerations per Second (TeraFLOPS) exist now, and one of them includes over 130,000 processors. Petascale machines, planned for 2008, will perform at 1000 TFLOPS peak performance; The largest planned machine by NSF will be at UIUC (we won the competition!) by the end of 2010. At the same time, there are already hundreds of supercomputers with over 1,000 processors each. Adding breadth, multicore processors are starting to get into most desktop computers, and this trend is expected to continue. This era of parallel computing will have a significant impact on the society. Science and engineering will make breakthroughs based on computational modeling, while the broader desktop use has the potential to enhance individual productivity and quality of life for everyone. I will review the current state in parallel computing, and then discuss some of the challenges, and my group’s research direction within this field. In particular, I will try to answer questions such as: What kind of programming models will prevail? What are some of the required and desired characteristics of such model/s? My answers are based in part on my experience with several applications ranging from quantum chemistry, biomolecular simulations, simulation of solid propellant rockets, and computational astronomy.

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**CORPORATE SPEAKER SERIES: PATENT LAW**

The Engineering Leadership Committee of Engineering Council will be bringing in UIUC alum Rich Stockton, a patent attorney from Banner & Witcoff, to speak to engineering students on Thursday, October 25 at 7:00pm in 103 Talbot Lab. Rich will be presenting on the benefits of a career in Patent Law. Come join us if you are interested in Patent Law, or if you are hungry and interested in hearing a fun talk on a future career. There will be plenty of FREE PIZZA to go around. Hope to see you there!