



Computer Science Orientation

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Computer Science Head Graduate Advisor

Research Groups

- Computer Graphics and Vision: Baily, Lucchese, Metoyer, Mortensen, Zhang
- Information Access and Computer Systems: Bose, Herlocker, Koc, Lee, Minoura, Nguyen, Pancake
- Intelligent Systems: Cull, Dietterich, A. Fern, X. Fern, Tadepalli, Wong
- Programming Languages: Budd, Burnett, Erwig
- Human Computer Interaction: Burnett, Herlocker, Jensen, Pancake

Resources

- Academic Advisor: Advises on course work.
- Major Professor: Directs your research project and replaces the academic advisor.
- Head Graduate Advisor: Default academic advisor.
- Ph.D. Committee: Needs 4 professors and a graduate school representative (GSR). 3 from CS.
- M.S. Committee: Needs 3 professors. GSR if thesis option.
- Filing a Program: A "contract" of the courses taken/to be taken with your committee.
- Must file within two quarters for M.S. By December 15'th of the second year for Ph.D.

M.S. Degree Requirements

- Undergraduate core requirement
- 45 hours of graduate level courses, with at most 6 credits of "blanket-numbered" (50X) courses
- At least 2 courses each from Theory, Systems and real-world computing with 3.0 GPA
- First year attendance in the weekly colloquium
- A coherent set of 3 courses in the research area
- Thesis: 9 credits. A research contribution and a publishable paper OR
- Project: 6 credits. A significant piece of software/system design/experimental work/theory/survey paper/... and a project report.
- A final oral exam on the course work and the thesis/project

Ph.D Degree Requirements

- Undergraduate core requirement
- 120 hours of graduate level courses with at most 15 hours of blanket numbered courses
- Passing Ph.D. qualifier
- CS515 (Algorithms), CS516 (Theory of Computation), and a minimum of 3 other ``theory'' courses
- A minimum of three courses each from 2 areas
- One year of colloquium attendance
- Successful completion of preliminary examination
- A Ph.D. dissertation for 36 credits (CS 603)
- Passing a final oral defense of the thesis

Undergraduate Core

Purpose: To ensure that all students have the core background in Computer Science.

Areas:

- Automata and Formal Languages (CS321 or CS516)
- Algorithms and Data Structures (CS325 or CS515)
- Operating Systems (CS411)
- Computer Architecture (CS472 or ECE572 or CS570)
- Translators (CS480)
or Programming Languages (CS381)

Time Limit: Must complete by the first year.

Process: Fill in the course equivalency form today, get it approved by your academic advisor, and give it to Ferne.

Submitting MS/MEng or PhD Program

- Submit your **program of study** by end 2nd term of study or 18 hrs (MS/MEng) or end of 1 year (PhD).
- Consult:
 - Major advisor
 - M.S./M.Eng./Ph.D. Program Guidelines
 - <http://eecs.oregonstate.edu/graduate/ece/advising.html>
 - On-line Forms
 - http://oregonstate.edu/dept/grad_school/current/forms.html
 - Graduate Advisor/Graduate Coordinator
 - Graduate School
 - http://oregonstate.edu/dept/grad_school

Ph.D. Qualifier

- **Purpose:** Prepare you for what it takes to do research.
- **Process:**
 1. Research an area or topic selected by your committee and write a paper on it (in a month).
 2. Present the paper to your committee and answer questions.
- **Time frame:** Students who already have an M.S. degree must take it before November 1st of the second year. Others must take it by November 1st of the third year. If you fail the first time, your committee decides if you deserve a second chance.
- **Special Note:** M.S. students who want to continue as Ph.D. students may take it during their M.S.

Ph.D. Prelims

- **Purpose:** To make sure you have a good research topic and are well-prepared to do research on it.
- **Process:**
 1. Write a 15-page proposal on the intended research
 2. One week written take-home exam given by the Ph.D. committee on course work and research area
 3. Presentation of proposal and answering questions
 4. Answering questions on the course work
- **Time frame:** Approximately by the first term of the third year with the consent of your major professor



CS Courses Offered in the Fall

- CS515 Algorithms and Data Structures
- CS519 Ecosystem Informatics
- CS531 Artificial Intelligence
- CS550 Introduction to Computer Graphics
- CS554 Geometric Modeling in Computer Graphics
- CS561 Software Engineering
- CS582 Object-Oriented Analysis and Programming
- CS589 Selected Topics in Programming Languages



Preparing to be a GRA

- Learn about the research in the department. Talk to the professors and their students. Study their papers.
- Attend reading groups and research project meetings to learn about research. Get professor's permission to attend the project meetings.
- Use 501 and 505 credits to read papers, discuss them with a professor and work on something useful.
- Start thinking about research from day one! Talk to professors about papers to read, possible research topics, and things to do.



Registration

- Registration/term
 - 9 credits - Full time w/no funding
 - 12 credits - Full time w/Scholarship
 - 16 credits - All Graduate *GTA/GRA's*

Hints

- Register for something by - 9/23
- Complete web registration during 1st week
- Avoid hidden fees: Don't add/drop after 1st week.

Seminar, Thesis, Blanket Credits

- CS 507 - Seminar/Colloquium, 1 cr, CRN 11692
 - Required for all grads in the first year. Pass/NoPass.
 - Martin Erwig, coordinator, erwig@eecs.orst.edu,
<http://eecs.oregonstate.edu/graduate/colloquium>
- CS 507 - Seminar/College Teaching, 1 cr, CRN 12674
 - Required for all graduate teaching assistants (Fall term only). Pass/No Pass.
- CS 507 - Seminar/Grad Intro, 1 cr, CRN 11693
 - Recommended for all new graduate students (Fall term only). Pass/No Pass
 - Run by officers of the EECS grad student association
- CS 503 - Thesis, 1-16 credits
 - Register using the CRN for your major professor
 - Ungraded (R=reserved)
- CS 501/601, 505/605, 506/606 - Blanket Credits, 1-16 cr
 - Need Instructor and Departmental Approval to register
 - <http://eecs.oregonstate.edu/graduate/forms/>
 - Email approval form: blanket.txt
 - 501/601 and 505/605, Pass/No Pass
 - 506/606, graded



Continuous Enrollment

- Options:
 - Register for a minimum of 3 credits
 - Be on leave through the graduate school
- Information:
 - Graduate Catalog
 - <http://catalog.oregonstate.edu/ChapterDetail.aspx?key=38>
 - Graduate School: Kerr 300, 737-4881
 - http://oregonstate.edu/dept/grad_school
- Graduate Coordinator: KEC 1063, 7-2889

Academic Dishonesty

- “Presenting, as your own work, material produced by or in collaboration with others, or permitting or assisting others to present your work as their own without proper acknowledgment”
<http://eecs.oregonstate.edu/graduate/advising/dishonesty.html>
- Punishments for dishonesty range from getting an F in the course to getting terminated.
- Don't even think about it!!



Cultural and Professional Groups

- Indian Students Association
- Chinese Students Association
- ENGR mailing lists
- <https://secure.engr.oregonstate.edu/mailman/listinfo>
- Grad email list (unmoderated): eeecs-grad-talk@engr.orst.edu
- CSGSA: Graduate Student Association
- ACM: Prof. Herlocker
- Sigma-Xi: Prof. Cull
- Upsilon-Pi-Epsilon: & Prof. Cull
- IEEE: Prof. Bose

Computing Support

- Computing Support web site:
 - <http://www.engr.orst.edu/computing>
 - <http://eecs.oregonstate.edu/it>
- Obtain three accounts: onid, engr, eecs.
- Check email everyday. Forward to one account.
- Important information sent to all grads through ENGR mailing list
`eecs-grads@engr.orst.edu`
- Contact Person: **Todd Shechter**, Sr. Systems Administrator, KEC 2081, shechter@engr.orst.edu, 737-6171 and support@engr.orst.edu



Office Space & Keycards

- **Offices**
 - Assigned to *GRA/GTA* first
 - Offices located in KEC, Dearborn, Owen
 - See major advisor and Ferne for assignment
- **Key Cards and keys**
 - Pick up KEC keycard from KEC 1148 receptionist
 - \$5 non-refundable deposit/keycard
 - Contact Person: [Paul Bollmann](mailto:paul.bollmann@oregonstate.edu), Administrative Services Coordinator, 1152 KEC, paul.bollmann@oregonstate.edu, 737-5549.
- **After-hours Permits**
 - Assigned during 3rd week of classes



Posting & Mailboxes

- **Posted Announcements:**
 - Grad Mail Room, KEC 1142
 - KEC bulletin board outside of 1001
- **Mailboxes:**
 - KEC 1142
 - Check often and keep cleaned out
 - No personal mail



Key Cards and Lab Rules

- Important! You must have your own keycard to gain entry into a locked grad office, lab or locked building
 - Do not loan your keycard!
 - Do not prop open lab or grad office doors!
 - Do not prop open entry doors!
 - Do not let unauthorized students into a lab or the building!



Payroll Paperwork & Social Security Cards

- Contact Person: [Nancy Bremner](#), HR/Payroll Coordinator, KEC 1055,
nancy.bremner@oregonstate.edu, 737-2954.
- *GTA/GRA* or hourly appointments must fill out payroll paperwork.
- Social Security Card required for anyone on university payroll.



Textbooks

- Textbooks for sale at the Memorial Union and on-line resources.
- Textbook list on-line at:
 - <http://www.bookstore.mu.orst.edu/Textbooks.asp>
- If you are TA for a class, check-out book from Paul Bollmann in KEC 1148.



ICML Totebags

- We had two major conferences at OSU on Machine Learning (ICML) and Inductive Logic Programming (ILP) in June!
- We have some tote bags left over. Please take one on your way out.
- Enjoy the fall festival this weekend: <http://www.corvallisfallfestival.com>