New Graduate Student Orientation
Fall 2018
Buildings
Computer Science has 2 main buildings

Engineering and Computational Sciences Building

E&CS (or ECSB)
- Chair’s office
- Tenure-track faculty offices
- GRA offices
- computer labs
- classroom (2120)
- auditorium

Dragas
- Lecturer offices
- GTA offices
- computer labs
- classrooms

Elkhorn Ave

Hampton Blvd

49th St

43rd St
Online Resources

@odu cs, https://graduate.cs.odu.edu/
About the Department

We are experiencing rapid growth in our department in terms of both enrollment and research:

- Over 600 undergraduates, 100 MS students, and 40 PhD students
- Significant external research funding from federal agencies such as NSF, NASA, NEH, NIH, DoD, IIPL, NIA, and others
- High-quality online BS and MS degree programs and an online graduate certificate in cybersecurity

We welcome you to join our department and benefit from the wide variety of courses offered as well as opportunities to work with our faculty in research.

Read the rest of the Chair's Welcome

Featured Faculty: Cong Wang

Cong Wang received his PhD at Stony Brook University, where he worked on mobile computing, algorithm and optimization. His research interests lie in mobile computing, cybersecurity, machine learning and energy-efficiency. Prior joining ODU, he worked at Huawei U.S. Research, Santa Clara, CA on exciting projects of on-device deep learning. He has published in several premier conferences and journals.

Undergraduate Programs

Graduate Programs

Student Resources

Contact

Department of Computer Science
3300 Engineering & Computational Sciences Building
757-683-6001 (office)
info@cs.odu.edu

- Directory
- Faculty Research Interests
graduate.cs.odu.edu
Graduate Student Resources

https://graduate.cs.odu.edu/resources/

Student Resources

Prospective Students can find information on admissions, financial assistance, prerequisites, and transfer credits in the Masters or PhD sections.

Graduate Courses

- Fall 2018 Course Schedule page with information on special topics courses
- Fall 2018 Course Schedules from the CS Dept, from ODU
- Summer 2018 Course Schedules from the CS Dept, from ODU
- Graduate Course Descriptions
- Recently Offered Courses (since 2011, with links to previous course websites if available)

Essential Resources

- ODU Academic Calendars (Fall, Spring, Summer) – contains official holidays, final exam schedules, and various academic deadlines
- Department Faculty and Staff Listing
  - Systems Group (aka root at cs.odu.edu) – for CS department computer-related questions/help
  - New Student Resources – resources to help new students set up systems and prepare for graduate study in the Department of Computer Science
- Start of Semester Checklist
- Graduation Checklist
- GPA calculator
- Graduate Student Gatherings
  - August 2018 – Fall 2018 New Graduate Student Orientation (slides, video – coming soon!)
  - August 2017 – Fall 2017 New Graduate Student Orientation (slides, video)
  - October 2016 – Spring 2017 Graduate Course Preview (video)
  - August 2016 – Fall 2016 New Graduate Student Orientation (slides, WebEx recording)

Recent Announcements

- Summer 2018 Thesis/Dissertation Deadlines
- April 2 – Fall 2018 Registration Opens
- March 5-10 – Spring Break
- Spring 2018 Thesis/Dissertation Deadlines
- Jan 16 – Add/Drop Deadline

Quick Links

- Department of Computer Science
  - Faculty & Staff Directory
  - Faculty Research Interests
  - Colloquium Schedule
- Recently Offered Courses
- Graduate Assistantships
- MS Admissions
  - MS Requirements
  - MS Prerequisites
  - MS Financial Assistance
- PhD Admissions
  - PhD Requirements

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Students

118 Returning Students
• 81 MS
  – 9 CIS concentration
  – 20 online program
• 37 PhD
• 55% international
• 27% female

40 New Students (Fall 2018)
• 34 MS
  – 5 CIS concentration
  – 10 online program
• 6 PhD
• 19 international
• 18 Virginia residents
Department Administration

• Dr. Ravi Mukkamala
  – Department Chair

• Mrs. Janet Brunelle
  – Assistant Chair
  – Chief Departmental Advisor – undergraduates

• Dr. Steven Zeil
  – Assistant Chair
  – Course scheduling, GTA and grader hiring, colloquiums

• Dr. Yaohang Li
  – Graduate Program Director (GPD) for admissions
  – yaohang@cs.odu.edu
  – E&CS 3212

• Dr. Michele Weigle
  – Graduate Program Director (GPD) for advising
  – Advisor for all MS students
  – mweigle@cs.odu.edu
  – E&CS 3206
Front Office Staff (E&CS 3300)

• Phyllis Woods
  – Chair's Secretary
  – Office Supervisor

• Christy Chavis
  – Fiscal Technician

• Ariel Sturtevant
  – Office Service Asst.
  – Graduate Program Coordinator

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Faculty

Tenured/Tenure-Track

- Chernikov, Andrey
- Chrisochoides, Nikos
- He, Jing
- Jain, Shubham
- Jayaratna, Sampath
- Li, Yaohang
- Mukkamala, Ravi
- Nelson, Michael
- Olariu, Stephan
- Ranjan, Desh
- Sun, Jiangwen
- Wang, Cong
- Weigle, Michele
- Wu, Jian
- Zeil, Steven
- Zhao, Danella
- Zubair, M.

Lecturers

- Brunelle, Janet
- El Mesalami, Ayman
- Gupta, Rekha
- Ibrahim, Soad
- Kennedy, Thomas
- Morris, Jay
- Price, G. Hill
- Zehra, Susan

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Interlude:
Faculty pitch classes / research
Want to do this?

https://www.youtube.com/watch?v=RJl__WfU5rE
It will be better/safer if you know this...
Want to do this?

Twitter Developer Documentation

GET search/tweets

Returns a collection of relevant Tweets matching a specified query.

Please note that Twitter’s search service and, by extension, the Search API is not meant to be an exhaustive source of Tweets. Not all Tweets will be indexed or made available via the search interface.

In API v1.1, the response format of the Search API has been improved to return Tweet objects more similar to the objects you’ll find across the REST API and platform. However, perspectival attributes (fields that pertain to the perspective of the authenticating user) are not currently supported on this endpoint.

To learn how to use Twitter Search effectively, consult our guide to Using the Twitter Search API. See Working with Timelines to learn best practices for navigating results by since_id and max_id.

Resource URL

https://api.twitter.com/1.1/search/tweets.json
AIHT:~/Desktop/cs595-s06 mln$ telnet www.cs.odu.edu 80 | tee 6-1.out
Trying 128.82.4.2...
Connected to xenon.cs.odu.edu.
Escape character is '^]'.
HEAD /~mln/teaching/cs595-s06/1-test/ HTTP/1.1
Host: www.cs.odu.edu

HTTP/1.1 200 OK
Date: Sun, 12 Feb 2006 20:58:49 GMT
Server: Apache/1.3.26 (Unix) ApacheJServ/1.1.2 PHP/4.3.4
Content-Type: text/html

HEAD /~mln/teaching/cs595-s06/1-test/l/ HTTP/1.1
Host: www.cs.odu.edu

HTTP/1.1 200 OK
Date: Sun, 12 Feb 2006 20:58:55 GMT
Server: Apache/1.3.26 (Unix) ApacheJServ/1.1.2 PHP/4.3.4
Content-Type: text/html

HEAD /~mln/teaching/cs595-s06/1-test/2/ HTTP/1.1
Host: www.cs.odu.edu

HTTP/1.1 200 OK
Date: Sun, 12 Feb 2006 20:59:01 GMT
Server: Apache/1.3.26 (Unix) ApacheJServ/1.1.2 PHP/4.3.4
Last-Modified: Sun, 29 Jan 2006 18:43:15 GMT
ETag: "1f4de2-790-43dd0cc3"
Accept-Ranges: bytes
Content-Length: 1936
Content-Type: text/html
X-Pad: avoid browser bug

Connection closed by foreign host.
Class Schedule (subject to change)

- Week 1 - August 29 - Adminstrivia, Introduction to HTTP, W3C Web Architecture, Git/GitHub, curl, wget
- Week 2 - September 5 - URLs, logs, MIME, introduction to Docker, AWS
- Week 3 - September 12 - Conditionals (ETags, date-time), redirections
- Week 4 - September 19 - Long-lived connections, pipelines
- Week 5 - September 26 - (no class)
- Week 6 - October 3 - Range and Partial Content
- Week 7 - October 10 - Transfer encodings, content encodings
- Week 8 - October 17 - Content Negotiation
- Week 9 - October 24 - Authentication
- Week 10 - October 31 - Unsafe methods (PUT, POST, DELETE)
- Week 11 - November 7 - Server-side execution
- Week 12 - November 14 - WARC
- Week 13 - November 21 - (Thanksgiving – no class)
- Week 14 - November 28 - Caching
- Week 15 - December 5 - HTTPS: HTTP over TLS/SSL
- Week 16 - December 12 - Exam Week

Assignments (subject to change)

- Assignment 1: due 2018-09-28
- Assignment 2: due 2018-10-17
- Assignment 3: due 2018-11-28
- Assignment 4: due 2018-11-28
- Assignment 5: due 2018-12-12

Hosted on GitHub Pages
using the Dinky theme

Request for Comments (RFCs)
Back to...
People
Systems Staff

- Ajay Gupta - Director of Computing Resources
- Systems Engineer – Ryan Knauer
  - https://systems.cs.odu.edu/Main_Page
- For help with CS systems, email root@cs.odu.edu
- Once you’ve registered for a CS course, request a CS account at https://accounts.cs.odu.edu/validate/
Grad Student Email

• You may receive important information at two different email addresses
  – @odu.edu – Gmail-based, uses your MIDAS ID
  – @cs.odu.edu – MS Exchange-based, uses your CS username

• *Set up an automatic forward* of all email from one account to the other, so that you don’t miss anything

• If you are taking a graduate level CS course, you will automatically be added to the CS grad student alias
  – please let me know if you are not taking any graduate level CS courses this semester, so that we can have you added to the list
  – if you haven’t received any email sent to grad@cs.odu.edu by mid-September, let me know
ACM / ACM-W

• ODU chapter of the Association for Computing Machinery (international professional organization for computing)

• ACM-W is focused on encouraging women in computing

• *Not just for undergrads – get involved!*

• ACM
  – President: Adam Becerra (abece001@odu.edu)
  – https://orgsync.com/107376/chapter

• ACM-W
  – President: Sabrina Hall (shall003@odu.edu)
  – https://orgsync.com/83100/chapter

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ACM-W

• Fall 2018 Meetings
  – 1st and 3rd Tuesday each month
  – Activity Hour (12:30-1:20pm)
  – New Education Bldg, Computer Lab 1108

• Kickoff meeting: Tues, Sep 4
Benefits of ODU ACM / ACM-W

• Organizes speakers and hackathons to help prepare college students for the reality of the tech world
• Hackathons
• Company Tours
• Professional Speakers
• Hack Nights
• Social Events – Tie dye shirts, Ice Cream parties, Galas, and more

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Things I wish I knew (Academic)

• Explore your area of interest

• Register to courses asap
  – Take courses you want

• Work closely with professors
  – Independent Study

• Time management
  – Work from start

• Project, Thesis, Internship
Campus Jobs

• Graduate Teaching Assistant (GTA)

• Graduate Research Assistant (GRA)

• Other assistantships
  – Grader
  – SEES – Student Engagement and Enrollment Services
  – ITS – Information Technology Services
  – Women’s Center

• Other Campus Jobs –
  – Broderick Dining Commons (Aramark)
  – Library
  – Tutor
Things I wish I knew

- OIR
  - Costco, Walmart trip

- OAP & Rec center
  - Bicycles – $30 (semester rentals) and weekly free

- Football & Basketball matches – free tickets

- ODU Bookstore – student deals and discounts

- Planetarium

- Safe Ride

- ODU official website – Matlab, Visual Studio, Microsoft Office, etc.
Students deals and discounts

• Amazon Prime

• Github - [https://git-community.cs.odu.edu](https://git-community.cs.odu.edu)
  – Github Student Pack - [https://education.github.com/pack](https://education.github.com/pack)

• Global student friendship

• GoHRT student pass

• Pace cycle rentals, Zip car

• Lynda – free online courses for ODU students
Policies
Working in the Department

• Graduate Teaching Assistant (GTA)
  – requirements: pass SPEAK test (non-native English speakers), pass GTAI, have a good GPA
  – if you’ve submitted GTA application and are a candidate, you’ll be registered for the SPEAK test

• Graduate Research Assistant (GRA)
  – arranged with individual faculty members

• Each of these positions comes with a stipend and at least 50% tuition support (varies based on salary and MS/PhD)

• There are a few opportunities for graduate assistant positions in other departments
  – these may or may not come with a tuition waiver

https://graduate.cs.odu.edu/ms/financial/
https://graduate.cs.odu.edu/phd/financial/
https://graduate.cs.odu.edu/resources/graduate-assistantships/
Full-Time Requirements

• Full-time is 9 credit hours

• GTA
  – 9 graduate credit hours (undergraduate prerequisites don't count)

• GRA
  – 6 graduate credit hours
  – international students must complete reduced course load (RCL) form

• Graduating semester
  – # of courses needed to graduate
  – if < 9, must complete M4 form (MS students)
  – if international, must also complete RCL form
International Notes

• Full-time requirement: 9 credit hours

• Exceptions (reduced course load)
  – GRA - 6 credit hours
  – 1\textsuperscript{st} semester (if not GTA) - 6 credit hours
  – graduating semester - # of credit hours needed for graduation

• Only allowed to take 1 online course per semester
  – cannot be your only course
Prerequisites

• Goal is to ensure that you are prepared for graduate work in computer science

• Undergrad courses may be more available during summer

• Ways to complete
  – submit a request to GPD for a waiver (because of previous training)
  – complete an approved online course (e.g., Coursera, Udacity)
  – take the course and make 'B' or better
  – challenge the course (talk to the instructor of the course for requirements, must do at least 'B' level work)
    • At the discretion of the instructor. The instructor must email the GPD with the results of the challenge.
Need a Form Signed by GPD?

• Submit form to Ariel Sturtevant well in advance of deadline
  – if urgent, submit the form to Ariel and email the GPD

• Come to GPD's posted office hours
Academic Integrity

• Academic integrity (Honor Code) is taken seriously at ODU

• Typical class policy:
  – All assignments are to be completed on your own.
  – No sharing of code is allowed. This includes discussion about the design of a programming assignment solution.
  – Written assignments are expected to be in your own words.
What is Cheating/Plagiarism?

• Turning in another student's work as your own

• *Giving* unauthorized assistance is just as much of an offense as *receiving* unauthorized assistance.

• For coding
  – copying or sharing source code for assignments
  – obtaining solutions from the Internet and submitting them as your own
What is Cheating/Plagiarism?

• For writing
  – copying material from a source text without proper acknowledgment
  – copying material from a source text, supplying proper acknowledgment, but leaving out quotation marks

• "In your own words" means that the text should be your own and not a paraphrase of others' work

• Just because someone wrote it better than you would have does not make it OK to copy their words.

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Beware the Group Mentality

• Most of your assignments will be individual
  – all of the work must be your own

• Don’t sit next to friends in the lab

• Don’t work problem sets together

• Instructors (and your fellow students) are very good at identifying cheating

• *Cheating can put your graduate assistantship at risk*
You've been warned. You are responsible for knowing the rules or asking for clarification.
Courses
Finding Course Schedules

[Image of the CS Department website]

About the Department

We are experiencing rapid growth in our department in terms of both enrollment and research:

- Over 600 undergraduates, 100 MS students, and 40 PhD students
- Significant external research funding from federal agencies such as NSF, NASA, NEH, NIH, DoD, IIPL, NIA, and others
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Undergraduate Programs

Graduate Programs

Student Resources

@odu.cs, https://graduate.cs.odu.edu/
## Course Schedule

### Fall 2018 COMPUTER SCIENCE Course Schedule

<table>
<thead>
<tr>
<th>Seats</th>
<th>Enr.</th>
<th>CRN</th>
<th>Course #</th>
<th>Title</th>
<th>Cr.</th>
<th>Type</th>
<th>Delivery</th>
<th>Times</th>
<th>Days</th>
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</tbody>
</table>

@oducs, https://graduate.cs.odu.edu/
Course Offerings

• Future course offerings are often similar to past course offerings
  – use the drop-down menu to view past schedules

• Registering for courses
  – register early
  – if needed, email instructor for override into closed class
  – but, don't over-register

• Recently offered courses listed at
  https://graduate.cs.odu.edu/resources/recent-courses/
Course Levels

• 100, 200, 300, 400 – undergraduate courses

• 500 – intro Masters level
  – most of these have a 400-level section, too
    • you’ll be in class with undergrads
  – MS students may have extra requirements
  – can take a maximum of 4

• 600 – Masters level
  – typically not taken by PhD students

• 700 – upper Masters level
  – often research-focused or advanced topics
  – cross-listed with 800-level courses

• 800 – PhD level
  – cross-listed with 700-level courses
  – PhD students may have extra requirements

@odu.cs, https://graduate.cs.odu.edu/
Seminars and Special Topics

• CS 697
  – Independent Study
  – arrange with individual faculty member

• CS 791/891
  – seminar (pass/fail)
  – often for research

• CS 795/895
  – topics course
  – may turn into a “regular” course in the future

• CS 796/896
  – special topics course
  – mainly for research, PhD students
Fall 2018 Schedule

https://graduate.cs.odu.edu/resources/fall-2018-sched/

Fall 2018 Graduate Course Schedule

Full course schedules from the CS Dept or from ODU

Course Descriptions
See Recently Offered Courses for more information on CS 518, CS 562, and CS 734

Schedule
Click the image below for a larger PDF version of the schedule:

Page Contents [hide]
1 Schedule
2 CS 495/595 Course Information
   2.1 Formal Software Foundations – Dr. Chernikov
   2.2 Reverse Software Engineering – Dr. Wang
   2.3 Advanced Topics in HTTP – Dr. Nelson
3 CS 795/895 Course Information
   3.1 Malware Analysis and Rev Engineering – Dr. Ahmad
   3.2 Internet of Things Security – Dr. Zhao
   3.3 Mining Scholarly Big Data – Dr. Wu
   3.4 Mobile Sensing in Smart Cities – Dr. Jain

Fall 2018 Graduate Courses
CS 500 - Foundations of Computing
   MW 3:00-4:15pm     Chernikov
CS 517 - Computational Methods and Software
   MWF 2:00-2:50pm    Kennedy
CS 518 - Web Programming
   Tu 4:20-7:00pm     I. Bonella
Degree Requirements
MS Degree Requirements

https://graduate.cs.odu.edu/ms/requirements/

• All options
  – core: CS 655 and (CS 500 or CS 600)
  – attendance at 10 colloquiums and CS 690 (1 CR)
  – at most 4 500-level courses

• Courses-only Option
  – 34 CR (11 courses)
  – written report and oral exit exam

• Project Option
  – 34 CR (10 courses + CS 698)
  – project report and oral presentation

• Thesis Option
  – 31 CR (8 courses + CS 699x2)
  – must take CS 600
  – written thesis document and oral defense

CIS Concentration
• 6 CS courses
  • at least 2 regular at 600 or 700 level
• 5 IT courses
Online MS

• Same requirements as on-campus MS

• Online viewing of colloquium events

• Implications for on-campus students
  – core courses will often alternate semesters between online and face-to-face (CS 500, CS 665)
  – cybersecurity certificate courses are always taught online (CS 562, CS 563, CS 564, CS 565)
  – some electives may only be taught online (CS 550, CS 723, CS 724, CS 752, CS 773) - up to the instructor

@odu.cs, https://graduate.cs.odu.edu/
# Computer Science MS Advising Worksheet - CS

(Full requirements at https://graduate.cs.odu.edu/ms/)

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## MS Option
- [ ] Courses-only (11 courses - 33 cr.)
- [ ] Project (10 courses - 30 cr. + 3 cr. CS 698)
- [ ] Thesis (8 courses - 24 cr. + 6 cr. CS 699)

## Certificates
- [ ] Modeling & Simulation – 12 cr.
- [ ] Cybersecurity* – 12 cr.

## CS Core Courses
- CS 665 – Computer Architecture
- CS 500 – Foundations of Computing, or
- CS 600 – Algorithms and Data Structures

## Prerequisites – if applicable
- CS 150/250 - Programming
- CS 170/270 (CS 334) – Comp. Architec.
- CS 361 – Data Structures
- CS 381 – Discrete Math
- CS 471 – Operating Systems

## Course Plan – enter course numbers and semester

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<th>500-level:</th>
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No more than 3 seminar or independent study courses (CS 697, CS 791, CS 796) will be counted towards the MS course requirements.

* Cybersecurity certificate - may count 5 500-level courses (cybersecurity + CS 500)
Graduate Certificates

**Cybersecurity**

- 4 courses, all online
- CS 562 Cybersecurity Fundamentals
- CS 563 Cryptography for Cybersecurity
- CS 564 Networked Systems Security
- CS 565 Information Assurance

**Modeling and Simulation**

- 4 courses
- MSIM 601 – Intro to ModSim
  - required (but does not count towards CS MS)
- 2 Foundation Electives
- 1 Advanced Elective

[https://graduate.cs.odu.edu/certificates/cybersecurity/](https://graduate.cs.odu.edu/certificates/cybersecurity/)

[http://graduate.cs.odu.edu/certificates/modsim/](http://graduate.cs.odu.edu/certificates/modsim/)
PhD Requirements and Advising

• Major requirements
  – 8 800-level courses
    • 4 “regular” courses with 3 different faculty members
  – breadth exam
  – research skills requirement (publish a paper)
  – candidacy exam
  – dissertation and defense

• Your research advisor is also your academic advisor
More PhD Info

https://graduate.cs.odu.edu/phd/
  – Requirements
  – PhD Qualifying Process

• PhD Gathering
  – mandatory monthly gathering and lunch
  – one PhD student will present their research
  – ask questions about the PhD program and requirements
Requirements

A candidate for the doctoral degree in computer science must meet all of the following requirements in addition to the University requirements outlined in the Graduate Catalog (see University Requirements for Graduate Degrees).

1. Pass the PhD qualifying process that consists of breadth oral examination, research ability oral examination, and advanced course requirement.
2. Complete a minimum of 78 credit hours beyond the bachelor's degree and 48 credit hours beyond the master's degree.
3. Pass the candidacy examination.
4. Attend at least 10 colloquiums – see Colloquium Activities for more information.
5. Successfully defend the dissertation.

The above must be completed within 8 years after admission to the PhD program. Note that students with a degree in a discipline outside of computer science will be required to take prerequisite undergraduate courses that will not be counted towards the 78 credit hours requirement (see below).

Advisor

Upon admission to the PhD program, a faculty advisor will be assigned to the student for general guidance. The student, however, is expected to find a dissertation advisor by the time he or she completes the qualifying process. The guidelines for advising are outlined under Student Advising in
How to Get Your Advisor Hold Cleared

@oducs, https://graduate.cs.odu.edu/
Steps

• Review these slides and the materials at http://graduate.cs.odu.edu/

• Review the course schedule

• From your ODU email account, send me (mweigle@cs.odu.edu) an email with the following information:
  – Name
  – UIN
  – Undergraduate prerequisites required, if any
  – Planned courses to take that semester

• If you have questions about courses before registering, come to GPD office hours or send me an email
Questions / Advising

Dr. Michele Weigle, GPD
mweigle@cs.odu.edu
E&CS 3206
http://www.cs.odu.edu/~mweigle/Main/Sched