Department of Computer Science

ERIK JONSSON SCHOOL OF ENGINEERING AND COMPUTER SCIENCE

Friday, November 4th, 2022

THE ORIENTATION BEGINS AT 8:30AM DALLAS, TX time
Agenda for Today

- Introduction – Dr. Jorge Cobb (Director of Graduate Student Services CS Dept)
- Welcome Note – Dr. Ovidiu Daescu – Department Head
- CS Department Overview
- Graduate Advisors Computer Science Program
- MS CS/SE Degree Planning
- Areas of Study (Track)
  - Traditional Computer Science
  - Networks and Telecommunications
  - Intelligent Systems
  - Cyber Security
  - Systems
  - Data Science
  - Interactive Computing
- MS in Software Engineering Program
- GCS
- Q&A !!!
Dr. Ovidiu Daescu
Department Head
Computer Science
UT Dallas

- Founded in 1969 (celebrated 50th Anniversary)
- 31,000+ students: CS the largest department with ~ 4,600 students.
- https://www.utdallas.edu/about-us/

CS @ UT Dallas

- 1970s: Program founded as part of math sciences
- 1986: Erik Jonsson School founded with CS + EE
- Upper division BS CS started late 80s; Lower division in early 90s
- Rapid growth in MS population in last decades
- Significant growth in faculty and PhD population in the 2000s
- Brand: producer of graduates with deep technical knowledge
Computer Science at UTD

- One of the largest departments in the country (3rd largest)
  and, also one of the best
- Fall 2020 student population ~4,600 students (3,600 BS, 800 MS, 160 PhD)
- 51 T/T faculty, 40+ Faculty of Instruction, 20+ part-time lecturers
- BS, MS, PhD degrees offered in CS, SE
- ~300 course-sections offered each semester (wide variety)
- ~1000 students graduate each year (more than 1% of US output of CS graduates)
- World renowned CS faculty: publish in top conferences & journals
- ~$41 Million new research funding in the last three years.
- 21st in LinkedIn ranking; #44 in USNWR global rank; #5 in UG AI (Best Value Colleges)
- csrankings.org: #7 SE, #11 AI, #19 in NLP, #40 Security
<table>
<thead>
<tr>
<th>Rank</th>
<th>University</th>
<th>Location</th>
<th>Students &amp; Alumni on LinkedIn</th>
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<tbody>
<tr>
<td>1</td>
<td>Carnegie Mellon University</td>
<td>Greater Philadelphia Area</td>
<td>77,000 students &amp; alumni</td>
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<td>2</td>
<td>Caltech</td>
<td>Greater Los Angeles Area</td>
<td>80,000 students &amp; alumni</td>
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<td>3</td>
<td>Cornell University</td>
<td>Ithaca, New York Area</td>
<td>172,150 students &amp; alumni</td>
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<td>4</td>
<td>Massachusetts Institute of Tech</td>
<td>Greater Boston Area</td>
<td>152,000 students &amp; alumni</td>
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<td>5</td>
<td>Princeton University</td>
<td>Greater New York City Area</td>
<td>25,000 students &amp; alumni</td>
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<td>6</td>
<td>University of California, Berkeley</td>
<td>San Francisco Bay Area</td>
<td>20,000 students &amp; alumni</td>
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<td>7</td>
<td>University of Washington</td>
<td>Greater Seattle Area</td>
<td>23,499 students &amp; alumni</td>
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<td>8</td>
<td>Duke University</td>
<td>Raleigh-Durham, North Carolina Area</td>
<td>4,000 students &amp; alumni</td>
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<td>University of Michigan</td>
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<td>24,793 students &amp; alumni</td>
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<td>Stanford University</td>
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<td>Rice University</td>
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<td>14</td>
<td>Harvey Mudd College</td>
<td>Greater Los Angeles Area</td>
<td>6,300 students &amp; alumni</td>
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<tr>
<td>15</td>
<td>The University of Texas at Dallas</td>
<td>Dallas/Fort Worth Area</td>
<td>61,400 students &amp; alumni</td>
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</table>
Excellence in Research

• Wide variety of research areas covered:
  - Cyber Security
  - Computer Systems
  - Software Engineering
  - Intelligent Systems
  - Computer Science Theory
  - Computer Networking
  - Data Science

• Strategic areas of focus:
  - Machine Learning/AI, Data Sci., Cyber Sec., SW Engg, IoT & Software Defined Network (SDN)

• Focus on Interdisciplinary/Multidisciplinary research
  - Computer Systems: Medicine, Rehabilitation, Image Proc., Art & Tech.
  - Cyber Security: Mgmt and Math Sci (risk management), political sci.
  - Intelligent Systems: Medicine, Speech processing
CS Accomplishments

• 16+ CS faculty members hold the prestigious NSF CAREER award
• Numerous best paper awards & academic honors (many test-of-time awards as well):
  – Dr. Bhavani Thuraisingham, Fellow of the ACM and Fellow of NAI
  – Dr. Zygmunt Haas, Fellow of two European Societies
  – Dr. Murat Kantarcioglu, Fellow ACM, Fellow AAAS
• CS faculty are excellent teachers: they have won many awards
• Diverse student body:
  – #11 nationally in number of women students
  – #11 nationally in number of Hispanic students
  – #14 nationally in number of African American students
CS Department: Centers & Institutes

- Cyber Security Education & Research Institute (CSERI)  
  (Director: Dr. Kevin Hamlen)
- Human Language Technology Institute (HLTRI)  
  (Director: Dr. Sanda Harabagiu)
- Inst. for Interactive & Spatial Computing (UT DIISC)  
  (Director: Dr. Balakrishnan Prabhakaran)
- Institute for Data Analytics (IDA)  
  (Director: Mr. Bao Tran)
- Net-centric Software Center  
  (Director: Dr. Farokh Bastani)
- Center for Software Testing  
  (Director: Dr. Eric Wong)
- h-STIP: Center for Software Technologies to Improve Performance  
  (Director: Dr. Ovidiu Daescu)
- Center for Machine Learning Research  
  (Director: Dr. Sriraam Natarajan)
- Applied AI Research Center  
  (Director: Dr. Doug DeGroot)
- Center for CS Education and Outreach  
  (Director: Dr. Jey Veerasamy)
Opportunities for CS/SE Graduates

Annual jobs available vs. degrees granted

- Computer Science
- Engineering
- Life Sciences (incl. agricultural)
- Social Sciences (incl. psychology)
- Physical Sciences (incl. environmental)
- Mathematical Sciences

Annual jobs available
Annual Bachelors degrees
Annual Masters degrees
Annual Doctoral degrees

BLS job projection data: http://www.bls.gov/emp/ind-occ-matrix/occupation.xlsx
S&E Indicators degree data: http://www.nsf.gov/statistics/2016/nsb20161/uploads/1/12/at02-01.xlsx
Opportunities for CS/SE Graduates

- From a manufacturing economy to an information economy
- More things become automated, more and more software engineers needed
- With the Web and Mobile Apps becoming more pervasive, more people needed to develop them
- AI, Machine Learning, Blockchain, IoT: new technologies gaining popularity
- This automation and pervasiveness of computing will continue to increase:

  THE FUTURE FOR CS/SE IS BRIGHT

  Great salaries: BS: $70K-$120K, MS: $80K-$150K, PhD: $90K-$200+K
**Schedule an Appointment**
Select an appointment type and select an available time slot to meet your advisor. Appointments are available up to a week in advance.

**Send a Message in iComet**
The ISSO offers advising services online through iComet. You can send a message to an advisor and receive a response through your iComet Portal.

**Contact the ISSO**
At ISSOProspective@utdallas.edu for advising services

**Call ISSO**
For general information, call the ISSO at 972-883-4189 between 9 a.m. and 3 p.m. The ISSO staff answering our phone lines are not immigration advisors.
GRADUATE DEGREE PLANNING SEMINAR
Spring 2023

Department of Computer Science
Erik Jonsson School of
Engineering and Computer Science

The University of Texas at Dallas
Orientation/Degree Planning Seminar Overview

• Graduate Advisors Computer Science Program
• Master of Science Degree Planning
• Areas of Study (Track)
  - Traditional Computer Science
  - Networks and Telecommunications
  - Intelligent Systems
  - Cyber Security
  - Systems
  - Data Science
  - Interactive Computing
  - MS in Software Engineering
• Annual Graduate Degree Planning Form submission
• Registration
Graduate Advisors

Prof. Jorge Cobb  Prof. Les Arnold  Prof. Pushpa Kumar  Prof. Laurie Thompson  Prof. Tim Farage
• **Prof. Dr. Jorge Cobb**  
  ECS 4.208  
  All PhD including PhD with MS  
  All MS with Thesis  
  All MS in CySec track  
  All MS in SE program  
  cobb@utdallas.edu

• **Prof. Dr. Pushpa Kumar**  
  ECS 4.407  
  CSMS A-H  
  pkumar@utdallas.edu

• **Prof. Tim Farage**  
  ECS 3.609  
  CSMS I-Q  
  tfarage@utdallas.edu

• **Prof. Les Arnold**  
  ECS 4.232  
  CSMS R-Z  
  gordon.arnold@utdallas.edu

• **Prof. Laurie Thompson**  
  ECS 3.701  
  laurie.thompson@utdallas.edu
• PhD, MS (All Thesis, all CySec track, all SE track)
  Advisor: Prof. Jorge Cobb  
  Email: cobb@utdallas.edu
  Mon 3:30pm–5:00pm
  Wed 3:30pm–5:00pm

• MSCS Last Name starts with Letter A-H, except Thesis, IA or SE
  Advisor: Prof. Pushpa Kumar
  Email: pkumar@utdallas.edu
  Tue/Thu 10:00am–11:30am
  Wed 10:00am–3:00pm

• MSCS Last Name starts with Letter I-Q, except Thesis, IA or SE
  Advisor: Prof. Tim Farage
  Email: tfarage@utdallas.edu
  Mon 10:00am–2:00pm
  Tue/Fri 2:00pm–5:00pm

• MSCS Last Name starts with Letter R-Z, except Thesis, IA or SE
  Advisor: Prof. Les Arnold
  Email: tfarage@utdallas.edu
  Mon 10:00am–2:00pm
  Tue/Fri 2:00pm–5:00pm
  Fri 10:00am–2:00pm

DO NOT TELEPHONE US!

1. Regulations prohibit useful discussion as we cannot ensure your identity when contacted by telephone.
2. Your phone call is likely to interrupt instruction or meetings with students or colleagues

The Erik Jonsson School of Engineering and Computer Science
### Graduate Advising Hours Spring 2023

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<th>Time</th>
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<td>10:00 AM</td>
<td>T. Farage 10:00am - 2:00pm</td>
<td>L. Arnold 12:00pm - 3:00pm</td>
<td>P. Kumar 10:00am - 11:30am</td>
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The Erik Jonsson School of Engineering and Computer Science
If you have already been admitted and need advice, please contact the advisor assigned to you.

Please make sure to check the below link for latest advisor assignment. It may change over time.
https://cs.utdallas.edu/education/graduate/advising/

In order to use your time most efficiently, appointments are strongly recommended. Please email and request an appointment.
<table>
<thead>
<tr>
<th>Name</th>
<th>Office</th>
<th>Phone</th>
<th>Email</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ms. Kirsten Fowler</td>
<td>ECSS 3.904</td>
<td>972-883-4194</td>
<td><a href="mailto:kirsten.fowler@utdallas.edu">kirsten.fowler@utdallas.edu</a></td>
</tr>
<tr>
<td>CSMS A-H</td>
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</tr>
<tr>
<td>Mr. Richard Klug</td>
<td>ECSS 3.906</td>
<td>972-883-2427</td>
<td><a href="mailto:richard.klug@utdallas.edu">richard.klug@utdallas.edu</a></td>
</tr>
<tr>
<td>CSMS I-Q</td>
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<tr>
<td>Mrs. Emily Lenart-Donaldson</td>
<td>ECSS 3.905</td>
<td>972-883-4278</td>
<td><a href="mailto:eldonaldson@utdallas.edu">eldonaldson@utdallas.edu</a></td>
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<tr>
<td>CSMS R-Z</td>
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<tr>
<td>Ms. Sydney Samuel</td>
<td>ECSS 3.903</td>
<td>972-883-4216</td>
<td><a href="mailto:sydney.samuel@utdallas.edu">sydney.samuel@utdallas.edu</a></td>
</tr>
<tr>
<td>All SE_MS, EMSE &amp; Fast-Track</td>
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<tr>
<td>Mr. Eric Moden</td>
<td>ECSS 3.908B</td>
<td>972-883-4705</td>
<td><a href="mailto:eric.moden@utdallas.edu">eric.moden@utdallas.edu</a></td>
</tr>
<tr>
<td>All CYSEC/IA track students</td>
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<tr>
<td>Mr. Doug Hyde</td>
<td>ECSS 4.801</td>
<td>972-883-6612</td>
<td><a href="mailto:dhyde@utdallas.edu">dhyde@utdallas.edu</a></td>
</tr>
<tr>
<td>All PhD, All MS Thesis, All PhD as MS</td>
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</table>

The staff members are **NOT** Graduate **ADVISORS**. For any questions on classes, choosing a degree plan.. etc, contact your Graduate Advisor.
Things you can do every semester to receive the best assistance and information

Early registration for spring semester takes place in November and for the summer & fall starts in April; enrollment appointments are placed on your Orion account based on earned hours, and it is randomized. It’s your responsibility to check out the schedule online and register for classes online.

If you know the courses you wish to take and no leveling courses to take or holds on your account, you may Enroll online. Otherwise, schedule an appointment with a graduate advisor or ask for assistance via email.

Students are strongly recommended NOT to register in more than TWO CORE COURSES from any degree plan.
Department of Computer Science  Graduate Degrees

- Master of Science in Computer Science (33 credit hours)
  - Traditional Computer Science
  - Networking and Telecommunications
  - Intelligent systems
  - Cyber Security
  - Systems track
  - Data Science
  - Interactive Computing

- Master of Science in Software Engineering (33 credit hours)

- Doctor of Philosophy (75 credit hours beyond B.S. degree) in
  - Computer Science
  - Software Engineering

- Offered jointly by CS and EE Departments
  - Computer Engineering & Telecommunications Engineering
Master of Science Degree Plan

- Department of Computer Science MS Requirements
  - Five Core Courses from one of the tracks
  - Six approved electives; at least five must be at 6000 or higher level and one approved elective can be a 5000* or a 6000 level course.
  - *(If a student chooses one of the 5000 level courses, then only one of the CS 5333 or CS 5343 or CS 5348 can be counted as an elective in all degree plans. Students should consult their graduate advisors to get approval for the 5000 level course)*
  - All requirements including transfer credit must be completed in a six year window.
  - GPA requirements:
    - Core GPA ≥ 3.19
    - Elective GPA ≥ 3.00
    - Overall GPA ≥ 3.00
Master of Science Degree Plan

- If core GPA is above 3.00 but below 3.19, a seventh elective is required in the degree plan.
- If core or elective GPA is below 3.00, one or more courses must be repeated. Any course can be repeated only once and a maximum of three courses can be repeated in a degree plan.
- If a student repeats a course, the new grade will replace the earlier grade; both will appear in the transcript.
- Please check the graduate catalog for all other policies and procedures.

http://catalog.utdallas.edu/2022/graduate/home
Master of Science Degree Plan

Fast Track Students:

- Courses Taken as Option A (Undergrad only) cannot be applied to your Masters program.

- Courses Taken as Option B (Fast Track) or C (Grad only)
  - Are ALL treated as Transfer Credits*
  - All course grades in Option B or C \textit{WILL} affect your GPA*

Fast Track Admits will have:

- assigned Advisors and MS DPEs by last name alpha, Track and/or Thesis option.

*Subject to new university policies
Dear 

Congratulations on your admission to the University of Texas at Dallas! The UT Dallas Committee on Graduate Studies congratulates you on your admission to the graduate program in Computer Science for the Fall-2008 semester. We share your excitement as you begin this new stage in your education. At UT Dallas, we promise you a welcoming environment, intellectual challenges, great faculty in your field of study, and a diverse and stimulating University family. 

Please note that all required supporting documents must be received before you will be able to register for classes. You must contact the program to which you have been admitted, as each program has additional conditions that must be met before you can register. For contact information, please visit http://utdallas.edu/enroll/graduate/admissions. 

We want to ensure that as a newly admitted student you are aware of the next steps you should complete to prepare for your enrollment at UT Dallas. For help with this process and to confirm your intention to enroll visit http://www.utdallas.edu/enroll/admit/graduate. Should you need to defer your admission for any reason please contact the Associate Dean for the program to which you were admitted. 

Your foreign tuition status has been determined based on the information that you provided on your admission application. If you have any questions regarding your residency status, please contact the program to which you have been admitted for more information. 

The graduate experience at UT Dallas is unique and exceptional. Our faculty and staff look forward to welcoming you to campus. 

Sincerely, 

Dean of the Erik Jonsson School of Engineering and Computer Science 
To contact the School of Engineering and Computer Science, please call 972-883-2974. You may also find important information on our website at http://www.ecs.utdallas.edu.
Your official admissions letter may state any required leveling courses recommended by the admissions committee.

In case you have not seen your leveling courses assigned to you or missed it in your emails, contact a staff member.

You are responsible for any leveling course required for your Degree Plan (track) and also for any course you choose.
Admission Requirements

- Students from Non CS/Related backgrounds **MUST** complete the following **MINIMUM** leveling courses:
  - CS 5303 (Computer Programming)
  - CS 5330 (Computer Architecture)
  - CS 5333 (Discrete Structures),
  - CS 5343 (Data Structures & Algorithm Analysis) and
  - CS 5348 (Operating Systems).

- You must **COMPLETE** your assigned 5000 level courses applicable to your degree plan in the first year of study.

- Supported students must take 9 graduate hours.

- All leveling courses in your degree plan must be completed at the time of CPT assignment.
If you are choosing CyberSecurity (Eric) or SE (Sydney) degree plan, you must complete the required core and elective courses in the first three semesters. Otherwise, you may not graduate on time.

These two degree plans require some careful planning and selection of courses each semester.

A general recommendation for all the students is to complete the core courses in your track in the first three semesters.

Do not leave any core course to be completed in the graduating semester and especially summer semester.
Grading System

- Letter grades A, A-, B+, B, B-, C+, C and F are used in grading graduate courses.
- GPA representation for the grades are as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>GPA</th>
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<tbody>
<tr>
<td>A</td>
<td>4.00</td>
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<tr>
<td>A-</td>
<td>3.67</td>
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<tr>
<td>B+</td>
<td>3.33</td>
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<tr>
<td>B</td>
<td>3.00</td>
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<tr>
<td>B-</td>
<td>2.67*</td>
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</tbody>
</table>

* Please note B- is less than 3.00
All Important deadlines and dates are kept current in the Academic Calendar online.
- It is important that you review and know these dates (each semester):
  - Enrollment
  - Payment
  - Final Defense
  - Graduation
- The dates update constantly.
- Confirm the date ONLINE not on paper.
Enrolling, Dropping or Swapping

• The Last day to add/Swap Courses is January 24th.

• **DO NOT** drop classes online.

• For any Add, Drop or Swap please meet with a CSGS Advisor.
Sample Academic Calendar

### Academic Calendar Spring 2023

**Note:** All offices are closed on Saturdays and Sundays. All transactions must occur online. All email correspondence will be sent to UTD email address.

#### Classes Begin
- Full-term session: Tuesday, January 17
- 1st Summer session: Tuesday, January 17
- 2nd Summer session: Monday, March 20

#### Web Registration
- Enrollment appointments available online... Monday, Oct. 24
- All students should check their enrollment appointment denies to Enroll for the date and time they can begin.

#### Schedule Planner Available
- Monday, October 24
- On-line registration available Tuesday, October 25

#### Last Day of Classes (not including final exam)
- Full-term session: Friday, May 5
- 1st Summer session: Sunday, May 7
- 2nd Summer session: Friday, May 5

#### Reading Days (nearly two days prior to final exam)
- Full-term session: Monday, May 1, Tuesday, May 2
- 1st Summer session: Monday, May 8—Tuesday, May 9
- 2nd Summer session: Monday, May 15—Tuesday, May 16

#### Final Exams
- Full-term session: Monday, May 1, Tuesday, May 2
- 1st Summer session: Monday, May 8—Tuesday, May 9
- 2nd Summer session: Monday, May 15—Tuesday, May 16

#### Web Term Grades Due and Viewable Online
- All students grades must be submitted online.
- Return undergraduate courses only... Saturday, March 11

#### Graduation Period
- All grades must be submitted by Wednesday, May 17
- Graduation online after posting begins, Saturday, May 13

#### Drop/Withdrawal Deadlines
- Full-term session: Friday, January 27
- 1st Summer session: Thursday, March 18
- 2nd Summer session: Friday, January 27

#### Census Day (State Reporting Only)
- Full-term session: Wednesday, February 1
- 1st Summer session: Tuesday, February 28
- 2nd Summer session: Thursday, March 29

#### Drop/Withdrawal Deadlines
- Please check Central semester for signature procedures.

#### Full-Time Session
- Last day to drop a class without a "W": Jany. 25
- Undergraduate Courses: Approval required... Thurs., Feb. 2—Thurs., March 9
- Graduate Courses: Withdrawal ends: March 10

#### 1st 8-Week Session
- Last day to drop a class without a "W": Jan. 24
- Undergraduate Courses: Approval required... Tues., Feb. 28—Mon., March 6
- Graduates: End of withdrawal period: Monday, February 20

#### 2nd 8-Week Session
- Last day to drop a class without a "W": Mar. 27
- Undergraduate Courses: Approval required... Tues., Mar. 28—Mon., April 3
- Graduates: End of withdrawal period: Monday, April 24

#### 1st & 2nd Summer session
- Last day to drop a class without a "W": Thurs., May 10
- Undergraduate Courses: Approval required... Tues., May 16—Mon., May 29
- Graduates: End of withdrawal period: Monday, April 24

#### Final Grades Due
- Full-term session: Friday, May 5
- 1st Summer session: Sunday, May 7
- 2nd Summer session: Friday, May 5

#### Graduation Commenentary (Fall 2022 Graduates)
- Commencement Dates: Graduates Available: Monday, April 24
- Graduation deadline: Monday, May 16

#### Deadlines
- The following deadlines must be met by the dates listed and must be submitted to the Office of Undergraduate Education.

#### University Closing
- Spring break: Monday, January 11
- University Closed: Monday, January 18
- No Classes: Monday, January 18—Sunday, March 19

#### Important Dates
- Spring break: Monday, April 17—Friday, April 21
- Graduation deadline: Monday, April 24

---

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To take a CS 6000 level graduate course:

- Have a transcript showing that you have completed the leveling courses in your undergraduate work.
- Petition the Graduate Advisor for approval to enroll in the CS 6000 level course.
- **PLEASE NOTE THE LEVELING COURSE WILL NOT BE WAIVED TODAY BY ANY ADVISOR.**
- **YOU MUST APPLY SEPARATELY IN MARCH TO WAIVE YOUR LEVELING COURSES.**
- Refer to the UTD Graduate Catalog for Leveling courses.
Transfer/Waiver of Courses

- Transfer/Waiver seminars are scheduled in the second month of each long semester. The tentative Fall semester seminar dates are:

  - **February 3rd week**
  
  - **Tentative February 24th** from 8:30am – 9:30am.

- Date and time will be announced mid February.

- Due date of T/W applications is **4pm on Friday, March 10th.**
  The completed applications must be sent via email to eric.moden@utdallas.edu
Students from Non CS/Related backgrounds **MUST** complete the following **MINIMUM** leveling courses:

- CS 5330 (Computer Architecture)
- CS 5333 (Discrete Structures),
- CS 5343 (Data Structures & Algorithm Analysis) and
- CS 5348 (Operating Systems).

The above leveling courses generally will not be waived for the students from Non CS/Related backgrounds.

Students who plan to waive leveling courses and/or transfer graduate courses are strongly suggested to visit with program/advising office to check for eligibility.

Students who are not qualified to apply for waivers must take the leveling courses.
Select your area of Computer Science Concentration:
- Traditional Computer Science
- Networks and Telecommunications
- Intelligent Systems
- Cyber Security
- Systems Track
- Data Science
- Interactive Computing
- Software Engineering (Must be SE_MS or SE__DR program)

Leveling Courses
- Cross out any not listed in your Admission Letter

Complete Core, Elective, and Leveling Courses courses
- Enter the course name, number, grade, and semester
  - 23S = Spring 2023
  - 23U = Summer 2023
  - 23F = Fall 2023
Review your Grade Point Average (GPA) in:
  – Core Courses
    • (need 3.19 over the five graduate courses)
  – Elective 6000 level courses
    • (need 3.00 over all)
  – Overall 3.00 or better GPA in ALL UTD Graduate courses
  – Complete any Leveling Courses required by track.

Submit your AOP to your Graduate Studies Staff member by the first week of October. This is a University requirement.
  ➢ Otherwise, you will have a degree plan hold.

Review your Tentative Degree Plan with a Graduate Advisor.
Review of Tentative Degree Plan of Study

- Repeat this process at least once every academic year or when changing your track.

- Plan your graduation by discussing the degree plan with an advisor. **Must visit with an advisor one semester prior to Graduation.**

- CS department offers each core course at least once every academic year.
  - Students should plan their schedule carefully.
# Computer Science Degree Plan

**DEGREE PLAN**  
**UNIVERSITY OF TEXAS AT DALLAS**  
**MASTER OF COMPUTER SCIENCE**

**COMPUTER SCIENCE DEGREE PLAN**

Name of Student:  ________________________________________________  
Student I.D. Number:  ______ / _____ / ________

**Anticipated** 
Date of Admission to Program:  _______________  
Graduation:  _________________

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Course Number</th>
<th>UTD Semester</th>
<th>Transfer</th>
<th>Grade</th>
</tr>
</thead>
</table>
| **CORE COURSES**  
(15 Credit Hours) | 3.2 Grade Point Average Required |
| Name | CS 6XXX | | | |
| Name | CS 6XXX | | | |
| Name | CS 6XXX | | | |
| Name | CS 6XXX | | | |

**FTD APPROVED 6000 LEVEL ELECTIVES**  
(15 Credit Hours)  
3.0 Grade Point Average

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

**Additional Electives**  
(3 Credit Hours minimum)

<table>
<thead>
<tr>
<th>Course</th>
<th>Semester</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

**Other Requirements**

<table>
<thead>
<tr>
<th>Levelling Courses</th>
<th>UTD Semester</th>
<th>Waiver</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Name</td>
<td>CS 5XXX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>CS 5XXX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>CS 5XXX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>CS 5XXX</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Name</td>
<td>CS 5XXX</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* May include any 6000 or 7000 level CS course without prior permission

Academic Advisor:  __________________________________  
Date Submitted:  ____ / ____ / ______

**Department of Computer Science**  
**Jonsson School of Engineering and Computer Science**
### Core Courses - Traditional

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6363</td>
<td>Computer Algorithms</td>
</tr>
<tr>
<td>CS 6378</td>
<td>Advanced Operating Systems</td>
</tr>
<tr>
<td>CS 6390</td>
<td>Advanced Computer Networks</td>
</tr>
<tr>
<td></td>
<td><em>Any two of the following:</em></td>
</tr>
<tr>
<td>CS 6353</td>
<td>Compiler Construction</td>
</tr>
<tr>
<td>CS 6360</td>
<td>Database Design</td>
</tr>
<tr>
<td>CS 6371</td>
<td>Structure and Design of Programming Languages</td>
</tr>
</tbody>
</table>
**Data Science Plan**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6313</td>
<td>Statistical Methods for Data Science</td>
</tr>
<tr>
<td>CS 6350</td>
<td>Introduction to Big Data Analytics</td>
</tr>
<tr>
<td>CS 6363</td>
<td>Design &amp; Analysis of Comp. Algorithms</td>
</tr>
<tr>
<td>CS 6375</td>
<td>Machine Learning</td>
</tr>
</tbody>
</table>

**Any one of the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6301</td>
<td>Special Topic: Social Network Analytics</td>
</tr>
<tr>
<td>CS 6320</td>
<td>Natural Language Processing</td>
</tr>
<tr>
<td>CS 6327</td>
<td>Video Analytics</td>
</tr>
<tr>
<td>CS 6347</td>
<td>Statistics in AI and Machine Learning</td>
</tr>
<tr>
<td>CS 6360</td>
<td>Database Design</td>
</tr>
</tbody>
</table>
# Cyber Security Plan

## Core Courses – Cyber Security

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6324</td>
<td>Information Security</td>
</tr>
<tr>
<td>CS 6363</td>
<td>Design &amp; Analysis of Computer Algorithms</td>
</tr>
<tr>
<td>CS 6378</td>
<td>Advanced Operating Systems</td>
</tr>
</tbody>
</table>

**Any two of the following:**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6332</td>
<td>System Security &amp; Malicious Code Analysis</td>
</tr>
<tr>
<td>CS 6348</td>
<td>Data and Application Security</td>
</tr>
<tr>
<td>CS 6349</td>
<td>Network Security</td>
</tr>
<tr>
<td>CS 6377</td>
<td>Introduction to Cryptography</td>
</tr>
</tbody>
</table>

Must also complete 2 CyS approved Electives.

Eric Moden will be your DPE and Dr. Jorge Cobb your Academic Advisor.
## Core Courses - Intelligent Systems

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6320</td>
<td>Natural Language Processing</td>
</tr>
<tr>
<td>CS 6363</td>
<td>Design &amp; Analysis of Computer Algorithms</td>
</tr>
<tr>
<td>CS 6364</td>
<td>Artificial Intelligence</td>
</tr>
<tr>
<td>CS 6375</td>
<td>Neural Nets and Machine Learning</td>
</tr>
<tr>
<td></td>
<td>Plus one of the following</td>
</tr>
<tr>
<td>CS 6360</td>
<td>Database Design</td>
</tr>
<tr>
<td>CS 6378</td>
<td>Advanced Operating Systems</td>
</tr>
</tbody>
</table>
## Interactive Computing Plan

<table>
<thead>
<tr>
<th>Core Courses – Interactive Computing</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6326</td>
</tr>
<tr>
<td>CS 6363</td>
</tr>
</tbody>
</table>

**Any three of the following:**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6323</td>
<td>Computer Animation &amp; Gaming</td>
</tr>
<tr>
<td>CS 6328</td>
<td>Modeling and Simulation</td>
</tr>
<tr>
<td>CS 6331</td>
<td>Multimedia Systems</td>
</tr>
<tr>
<td>CS 6334</td>
<td>Virtual Reality</td>
</tr>
<tr>
<td>CS 6366</td>
<td>Computer Graphics</td>
</tr>
</tbody>
</table>
## Networks and Telecommunications Plan

### Core Courses - Networks

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6352</td>
<td>Performance of Computer Systems &amp; Networks</td>
</tr>
<tr>
<td>CS 6363</td>
<td>Computer Algorithms</td>
</tr>
<tr>
<td>CS 6378</td>
<td>Advanced Operating Systems</td>
</tr>
<tr>
<td>CS 6385</td>
<td>Telecommunication Networks</td>
</tr>
<tr>
<td>CS 6390</td>
<td>Advanced Computer Networks</td>
</tr>
</tbody>
</table>
## Core Courses – Systems

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 6304</td>
<td>Computer Architecture</td>
</tr>
<tr>
<td>CS 6363</td>
<td>Computer Algorithms</td>
</tr>
<tr>
<td>CS 6378</td>
<td>Advanced Operating Systems</td>
</tr>
<tr>
<td>CS 6396</td>
<td>Real Time Systems</td>
</tr>
<tr>
<td>CS 6349</td>
<td>Network Security</td>
</tr>
<tr>
<td>CS 6376</td>
<td>Parallel Processing</td>
</tr>
<tr>
<td>CS 6380</td>
<td>Distributed Systems</td>
</tr>
<tr>
<td>CS 6397</td>
<td>Synthesis and Opt of High Perf. Systems</td>
</tr>
</tbody>
</table>

*Any one of the following:*
## Core Courses - Software Engineering

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE 6329*</td>
<td>Object Oriented Software Engineering</td>
</tr>
<tr>
<td>SE 6361</td>
<td>Advanced Requirements Engineering</td>
</tr>
<tr>
<td>SE 6362</td>
<td>Advanced Software Architecture and Design</td>
</tr>
<tr>
<td>SE 6367</td>
<td>Software Testing, Validation &amp; Verification</td>
</tr>
<tr>
<td>SE 6387</td>
<td>Advanced Software Engineering Project</td>
</tr>
</tbody>
</table>

* Credit will be given for only one of the following courses if students take them together to satisfy Computer Science and Software Engineering degree plan requirements:
  
  CS 6329 Object-Oriented Software Engineering, and
  CS 6359 Object-Oriented Analysis and Design (cannot be used on SE degree plan)

Sydney Fowler will be your DPE and Dr. Jorge Cobb your Academic Advisor.
## Leveling Courses for all Degree Plans

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 5303</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>CS 5330</td>
<td>Computer Science II</td>
</tr>
<tr>
<td>CS 5333</td>
<td>Discrete Structures</td>
</tr>
<tr>
<td>CS 5343</td>
<td>Algorithm Analysis &amp; Data Structures</td>
</tr>
<tr>
<td>CS 5348</td>
<td>Operating Systems Concepts</td>
</tr>
</tbody>
</table>
## Additional Courses

<table>
<thead>
<tr>
<th><strong>Traditional</strong></th>
<th><strong>Software Engineering</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 5349</td>
<td>CS 5354 Software Engineering</td>
</tr>
<tr>
<td>CS 5390</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Networks</strong></th>
<th><strong>Cyber Security</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 3341</td>
<td>CS 5390 Computer Networks</td>
</tr>
<tr>
<td>CS 5390</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Systems</strong></th>
<th><strong>Data Science</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>CS 5390</td>
<td>CS 3341 Probability &amp; Statistics</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Only for CS 6353-Compiler Construction & CS 6371-Structure & Design of Programming Languages
Students Seeking IA Certificate must start the process one semester (at the beginning) prior to graduating semester. After the degree plan audit with your advisor, you would ask your DPE to set you eligible to apply for the Certificate as well as your MS degree.

The Certificate must be applied for just as you applied for the MS or PhD program. Use the same application method and choose CSND_INASCERT.

Once admitted to the INASCERT program:

To get the certificate you must complete the following five courses with a Cumulative GPA of 3.2 or better

- CS 6324 Information Security
- CS 6348 Data and Application Security
- CS 6349 Network Security
- CS 6363 Design & Analysis of Computer Algorithms
- CS 6378 Advanced Operating Systems

The conferral date and program (INASCERT) will appear on your transcript.

This Certificate is endorsed by NSA
Cyber Ops Transcript Notation

Students Seeking Cyber Ops Notation on transcript must start the process one semester (at the beginning) prior to graduating semester. After the degree plan audit with your advisor, you would send your request to your DPE for Cyber Op Notation.

Requirement: Must complete 6 core and 2 electives courses from the lists below:

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Elective Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>• CS 6340 Wireless Networks</td>
<td>• ACCT 6336 Info Tech Audit and Risk Mgmt *</td>
</tr>
<tr>
<td>• CS 6324 Information Security</td>
<td>• CE 6301 Advanced Digital Logic</td>
</tr>
<tr>
<td>• CS 6332 System Security &amp; Malicious Code Analysis</td>
<td>• CS 6301 Secure Cloud Computing</td>
</tr>
<tr>
<td>• CS 6349 Network Security</td>
<td>• CS 6377 Intro to Cryptography</td>
</tr>
<tr>
<td>• CS 6363 Design &amp; Analysis of Computer Algorithms</td>
<td>• CS 6396 Real Time Systems</td>
</tr>
<tr>
<td>• CS 6390 Advanced Computer Networks</td>
<td>• CS 7301 Cyber-physical Systems Security</td>
</tr>
<tr>
<td></td>
<td>• CS 6378 Advanced Operating Systems</td>
</tr>
<tr>
<td></td>
<td>• CS 6302 Microprocessor Systems</td>
</tr>
<tr>
<td></td>
<td>• CS 4397 Embedded Computer Systems *</td>
</tr>
<tr>
<td></td>
<td>• CS 4398 Digital Forensics *</td>
</tr>
</tbody>
</table>

*ACCT 6336, CS 4397, and/or CS 4398 will not count as an elective in any CS/SE graduate degree plan.

If you complete the work as detailed above AND Apply to have it added; a note will be added to your transcript.

This Note is endorsed by the NSA
Students:

- must have a signed acknowledgement of policies (AOP) in the file before end of first semester (March).
- must be in the correct Program 2 semesters before graduation.
- **Changing from CS_MSCS to SE_MS or from SE_MS to CS_MSCS requires a New Application.**
- **Changing from CS_DR to SE_DR or from SE_DR to CS_DR requires a New Application.**
- visit with an academic advisor annually for a degree plan audit and the SEMESTER prior to graduation for the grad audit.
- **Choosing to miss more than a week of classes at the beginning of the semester may result in your being dropped or swapped into another course.**
A Master of Science Thesis replaces two 6000 level electives (minimum of six credit hours)

The Master’s Thesis provides an opportunity for your initial research activities

The Master’s Thesis option is available in all areas of study in the Computer Science Program.

The Master’s Thesis is recommended for a graduate student who is considering further graduate studies towards a Doctor of Philosophy program.

We have one DPE for MS thesis…Doug Hyde
Once a student is enrolled in thesis, dissertation, or the third practicum, unless a leave of absence has been granted, that student must maintain continuous enrollment (not necessarily for thesis, dissertation, or practicum) of at least three semester hours during consecutive long semesters until the final approved copy of the manuscript has been deposited in the Office of the Dean of Graduate Studies.
Information for International Students

- Students participating in the Industrial Practice Program must enroll in a 1 credit hour course. This course cannot be used towards the graduation requirements. Students signing up for CPT must visit with a Graduate Advisor.

- The USCIS has determined that F1 students who are graduating may take only the courses required for graduation/course completion in their final semester.

- Students must get a new Sevis I-20 if they change majors or degree level. The new Sevis I-20 must be signed by the first day of class in the new academic program.

- For all questions regarding visa/OPT/reduced enrollment, please talk to the International Student Advisor at the ISSO.
Information for International Students
Can I Delay Graduation?

As an F or J visa holder, the US Citizenship and Immigration Service requires that you make progress towards your degree to maintain your immigration status. Additionally, the federal regulation:

“If the student is not required to take any additional courses to satisfy the requirements for completion … the student is considered to have completed the course of study and must take action to maintain status. Such action may include application for OPT, application for change of status or departure from the U.S.”

Please be aware that postponing your graduation can negatively affect your immigration status now and in the future. Postponing graduation can be defined as any of the following:

- Taking any unnecessary classes
- Changing tracks within an academic program for the purpose of delaying graduation

Students with questions need to contact their International Student Advisor at the 972-883-4189 or in person at the ISSO, SSB 3.400

AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION UNIVERSITY
Academic Integrity

The faculty expects from its students a high level of responsibility and academic honesty. As a general rule, scholastic dishonesty involves one of the following acts: *cheating, plagiarism, collusion and/or falsifying academic records*. Students suspected of academic dishonesty are subject to disciplinary proceedings. Plagiarism, especially from the web, from portions of papers for other classes, and from any other source is unacceptable and will be dealt with under the university’s policy on plagiarism (see general catalog for details).
Registration Process

• Early registration for Fall and Summer 2023 starts in April 2023.
• Early registration for Spring 2024 semester starts Nov. 2023.
• Enrollment appointments are placed on your Orion account based on earned hours, and is randomized.
  • It’s your responsibility to check out the schedule online and register in classes.
• If you don’t have any holds, you’ll be able to enroll in classes online. We strongly recommend not to enroll in more than two core courses from any track. Also, don’t enroll in three courses which are scheduled on same days.
• Email: The university encourages all official student email correspondence be sent only to a student’s U.T. Dallas email address and that faculty and staff consider email from students official only if it originates from a UTD student account.
Registration Process

- FERPA will not allow another student to represent you for enrollment. You should not accept another persons Enrollment sheet and represent them.

- Nothing can be done by PHONE... Please DO NOT call... Use UTD email for official business.

- Students who go on academic probation (< 3.0 GPA) can enroll in classes ONLY after grades are obtained for the currently enrolled semester and after a visit with a CS Graduate Studies Director.

  - You have TWO enrollments after you begin probation to increase GPA to >= 3.0 or you may face dismissal from the university

  - The Summer counts if you enroll in it!
Graduates of Computer Science

- Graduates of Computer Science (GCS) is a student body composed of graduate students that organizes various events for CS graduate students such as hackathons and seminars.

- All graduate students are free to reach out to us regarding any query that they have. We encourage you to join GCS and take part in its activities.

- Please check out our page on Facebook to know more about us. You can access the page using this QR code.
Connect with Jonsson Career Services!
ECS Student Services Suite (ECSS 2.502)
jonssonschooljobs@utdallas.edu
LinkedIn: @jonssoncareerservices

Services:
- Technical Resume Critiques
- Interviewing Preparation
- Job Search Strategies
- Professional Development
- CPT Authorization
- Internship Class

Check Out JCS
Upcoming Events

https://utd.link/jcsevents

Scan to access events list
Schedule Planner

1. Log In
   - Sign into GALAXY

2. Locate Schedule Planner
   - Under Orion Self Service
   - Click "Schedule Planner"

3. ADD COURSES
   - To Take Next Term

4. ADD BREAKS
   - To Work Off Time
   - For No Class

5. GENERATE
   - All Possible Schedules

6. VIEW
   - To See Each Schedule

7. SEND TO SHOPPING CART
   - From the "Now" Screen, Click the "Shopping Cart" Button to Begin Registration.
For more information:

Visit

cs.utdallas.edu/news/

Or

Contact Dr. Jorge Cobb at: cobb@utdallas.edu
The End

THANKS