

# Northwestern McCORMICK SCHOOL OF ENGINEERING

## Computer Science

### Academics

## Course Listings

Please view the following document with last year's courses:

- [2023-24 Course Listing](#)
- [2024-25 Course Listing](#)
- [2025-26 Course Listing](#)
- [How to submit the permission request form](#)
- [How to register CS 399, 499 and/or 590](#)
- [Scheduling Calendars](https://www.registrar.northwestern.edu/faculty-staff/resources-for-departmental-staff-schedulers/scheduling-calendars-deadlines.html) (https://www.registrar.northwestern.edu/faculty-staff/resources-for-departmental-staff-schedulers/scheduling-calendars-deadlines.html) or [Academic Calendars](https://www.registrar.northwestern.edu/calendars/academic-calendars/index.html) (https://www.registrar.northwestern.edu/calendars/academic-calendars/index.html)
- If you want to check the course list for **COMP\_ENG** and **ELEC\_ENG**, here is the link - [ECE Course Listing](https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/) (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/) - **To request permission number email CE\_EE Permission** (mailto:eecspermissions@northwestern.edu)

### FILTER BY

SEARCH

Course	Course Title	Fall 2025	Winter 2026	Spring 2026	Summer 2026
<a href="#">COMP_SCI 110</a> (descriptions/110.html)	<a href="#">Intro to Computer Programming</a> (descriptions/110.html)	10-10:50 MWF Horn	10-10:50 MWF (2 sections) Bain	9:30-10:50 TuTh Kuzmanovic	
<a href="#">COMP_SCI 111</a> (descriptions/111.html)	<a href="#">Fundamentals of Computer Programming I</a> (descriptions/111.html)				Remote/ Async (First 5 weeks) Bain
<a href="#">COMP_SCI 150</a> (descriptions/150.html)	<a href="#">Fundamentals of Computer Programming 1.5</a> (descriptions/150.html)	12-12:50 MWF (2 sections) Geisler	1-1:50 MWF (2 sections) Kurdia	11-11:50 MWF Geisler	9-12:30pm MTWThF (First 2 weeks) Kurdia

Course	Course Title	Fall 2025	Winter 2026	Spring 2026	Summer 2026
<b>COMP_SCI 196</b> (descriptions/196-1.html)	<b>Applied Generative AI for Novice Programmers</b> (descriptions/196-1.html)		5-6pm W (4WS 2/4-3/4) Bardach	5-6pm W (5WS 3/31-5/4) Bardach	
<b>COMP_SCI 196</b> (descriptions/196-2.html)	<b>Applied Generative AI for Experienced Programmers</b> (descriptions/196-2.html)		4-5pm Th (4WS 2/12-3/12) Bardach	4-5pm Th (5WS 3/31-5/4) Bardach	
<b>COMP_ENG 203</b> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/203.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/203.html</a> )	<b>Intro to Computer Engineering</b> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/203.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/203.html</a> )	MTuWF 11-11:50 Szefer	MTuWF 11-11:50 Zhou		
<b>COMP_ENG 205</b> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/205.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/205.html</a> )	<b>Fundamentals of Computer System Software</b> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/205.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/205.html</a> )		MTWF 2:00-2:50 Joseph		
<b>COMP_SCI 211</b> (descriptions/211.html)	<b>Programming in Systems-Level Languages</b> (descriptions/211.html)	12:30-1:50 TuTh Hummel	9:30-10:50 or 12:30-1:50pm TuTh (2 sections) Y. Zhang	2-3:20 TuTh Hummel	
<b>COMP_SCI 212</b> (descriptions/212.html)	<b>Mathematical Foundations of CS Part 1: Discrete mathematics for computer science</b> (descriptions/212.html)	11-11:50 MWF Agarwal	11-11:50 MWF Agarwal	10-10:50 MWF Vijayaraghavan	Remote/ Async (9 weeks) Agarwal
<b>COMP_SCI 213</b> (descriptions/213-20.html)	<b>Intro to Computer Systems</b> (descriptions/213-20.html)	9:30-10:50 TuTh Dinda & Smith	2-3:20 TuTh (2 sections) Ghena	2-3:20 TuTh Hardavellas	
<b>COMP_SCI 208 (214)</b> (descriptions/214.html)	<b>Data Structures and Algorithms</b> (descriptions/214.html)	11-12:20 TuTh (2 sections) St-Amour	11:00-12:20 TuTh (2 sections) Bhagavatula	11:00-12:20 TuTh (2 sections) St-Amour	
<b>COMP_SCI 217</b> (descriptions/217.html)	<b>Data Management and Information Processing</b> (descriptions/217.html)		12:30-1:50 TuTh Hu	9:30-10:50 TuTh Hu	
<b>COMP_SCI 260, 460</b> (descriptions/260-460.html)	<b>Introduction to Law and Digital Technologies</b> (descriptions/260-460.html)	9:00-10:20 T Linna & Villasenor (Lab: 10:30- 11:50 (CS 260 & 460))			
<b>COMP_SCI 265</b> (descriptions/265.html)	<b>AI and International Security</b> (descriptions/265.html)			9:30-10:50 MW Subrahmanian	

Course	Course Title	Fall 2025	Winter 2026	Spring 2026	Summer 2026
<a href="#">COMP_SCI 295, 396, 496</a> (descriptions/295-396-496-ihorswill.html)	<a href="#">AI and Experimental Narrative</a> (descriptions/295-396-496-ihorswill.html)			3:30-4:50 TuTh Horswill	
<a href="#">COMP_SCI 296</a> (descriptions/296-1.html)	<a href="#">Mathematical Foundations of Computer Science - Honors</a> (descriptions/296-1.html)			9:30-10:50 MW Vijayaraghavan	
<a href="#">COMP_SCI 298</a> (descriptions/298-1.html)	<a href="#">CS Research Track Program</a> (descriptions/298-1.html)	1-3:50 F Bhagavatula			
<a href="#">COMP_SCI 301</a> (descriptions/301.html)	<a href="#">Introduction to Robotics Laboratory</a> (descriptions/301.html)		12:30-3:20 TuTh Argall		
<a href="#">COMP_SCI 302</a> (descriptions/302.html)	<a href="#">Artificial Life</a> (descriptions/302.html)		2-3:20 TuTh Kriegman		
<a href="#">COMP_SCI 303</a> (descriptions/303.html)	<a href="#">Full Stack Software Engineering</a> (descriptions/303.html)		6-7:20 MW Tse		
<a href="#">COMP_SCI 304</a> (descriptions/304.html)	<a href="#">Intro to Web Development</a> (descriptions/304.html)	5-6:20 MW Tse			
<a href="#">COMP_ENG 303</a> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/303.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/303.html</a> )	<a href="#">Advanced Digital Design</a> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/303.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/303.html</a> )	TuTh 12:30-1:50 Ogrenci		TuTh 3:30-4:50 Gu	
<a href="#">COMP_SCI 307</a> (descriptions/307.html)	<a href="#">Introduction to Cryptography</a> (descriptions/307.html)	12:30-1:50 TuTh Wang			
<a href="#">COMP_SCI 308</a> (descriptions/308.html)	<a href="#">Foundations of Security</a> (descriptions/308.html)	12:30-1:50 TuTh Bhagavatula		11-12:20 TuTh Bhagavatula	
<a href="#">COMP_SCI 310</a> (descriptions/310.html)	<a href="#">Scalable Software Architectures</a> (descriptions/310.html)		3-5:50 W (2 sections) Hummel		
<a href="#">COMP_SCI 311</a> (descriptions/311.html)	<a href="#">Inclusive Making</a> (descriptions/311.html)			12:30-1:50 & 2-3:20 TuTh Worsley	
<a href="#">COMP_SCI 312, 412</a> (descriptions/312-412.html)	<a href="#">Data Privacy</a> (descriptions/312-412.html)			2-3:20 TuTh Bhagavatula	
<a href="#">COMP_SCI 313, 413</a> (descriptions/313-413.html)	<a href="#">Tangible Interaction Design and Learning</a> (descriptions/313-413.html)			3:30-4:50 TuTh Horn	
<a href="#">COMP_SCI 314</a> (descriptions/314.html)	<a href="#">Technology &amp; Human Interaction</a> (descriptions/314.html)		9:30-10:50 TuTh Gergle		

Course	Course Title	Fall 2025	Winter 2026	Spring 2026	Summer 2026
<a href="#">COMP_SCI 315, 415</a> (descriptions/315-415.html)	<a href="#">Design, Technology, and Research</a> (descriptions/315-415.html)	12-2:50 F H. Zhang	12-2:50 F H. Zhang	12-2:50 F H. Zhang	
<a href="#">COMP_SCI 316-1</a> (descriptions/316-1.html)	<a href="#">CS Education Research in the Community I: Foundations</a> (descriptions/316-1.html)		5-6:20 TuTh Horn		
<a href="#">COMP_SCI 316-2</a> (descriptions/316-2.html)	<a href="#">CS Education Research in the Community II: Sports and Computer Science</a> (descriptions/316-2.html)			8-9:20 TuTh Worsley	
<a href="#">COMP_SCI 320</a> (descriptions/320.html)	<a href="#">Proving Properties of Programs with Mechanized Logic</a> (descriptions/320.html)				
<a href="#">COMP_SCI 321</a> (descriptions/321.html)	<a href="#">Programming Languages</a> (descriptions/321.html)	2-3:20 TuTh Dimoulas	11-12:20 TuTh Findler	11-12:20 TuTh Findler	
<a href="#">COMP_SCI 322</a> (descriptions/322.html)	<a href="#">Compiler Construction</a> (descriptions/322.html)		5 -6:20 TuTh Geisler	5 -6:20 TuTh Geisler	
<a href="#">COMP_SCI 323</a> (descriptions/323.html)	<a href="#">Code Analysis and Transformation</a> (descriptions/323.html)				
<a href="#">COMP_SCI 324, 424</a> (descriptions/324-424.html)	<a href="#">Dynamics of Programming Languages</a> (descriptions/324-424.html)			2-3:20 TuTh Dimoulas	
<a href="#">COMP_SCI 325</a> (descriptions/325.html)	<a href="#">Artificial Intelligence Programming</a> (descriptions/325.html)	11-11:50 MWF Riesbeck			
<a href="#">COMP_SCI 326</a> (descriptions/326.html)	<a href="#">Introduction to the Data Science Pipeline</a> (descriptions/326.html)	12:30-1:50 TuTh (2 sections) Hu			Remote/ Async (First two weeks) DeAndria
<a href="#">COMP_SCI 329</a> (descriptions/329.html)	<a href="#">HCI Studio</a> (descriptions/329.html)		1-2:20 MW Chau & Ulloa	11-12:20 MW H. Zhang	
<a href="#">COMP_SCI 330</a> (descriptions/330-1.html)	<a href="#">Human Computer Interaction</a> (descriptions/330-1.html)	3:30-4:50 TuTh Kay		9:30-10:50 TuTh Worsley	11:00-1:00 TuTh (8 weeks) Lotsos
<a href="#">COMP_SCI 331</a> (descriptions/331.html)	<a href="#">Introduction to Computational Photography</a> (descriptions/331.html)				

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<a href="#">COMP_SCI 332</a> (descriptions/332.html)	<a href="#">Online Markets</a> (descriptions/332.html)	9:30-10:50 MW Hartline			
<a href="#">COMP_SCI 333</a> (descriptions/333.html)	<a href="#">Interactive Information Visualization</a> (descriptions/333.html)	3:30-4:50 MW Hullman		11-12:20 MW Kay	
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/334.html">ELEC_ENG/COMP_ENG 334</a> (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/334.html)	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/334.html">Fundamentals of Blockchains and Decentralization</a> (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/334.html)			MW 2-3:20 Guo	
<a href="#">COMP_SCI 334</a> (descriptions/334.html)	<a href="#">Introduction to Computational Linguistics</a> (descriptions/334.html)				
<a href="#">COMP_SCI 335</a> (descriptions/335.html)	<a href="#">Intro to the Theory of Computation</a> (descriptions/335.html)	11-12:20 MW Agarwal	12:30-1:50 TuTh Agarwal & Mohanty		
<a href="#">COMP_SCI 336</a> (descriptions/336.html)	<a href="#">Design &amp; Analysis of Algorithms</a> (descriptions/336.html)	3:30-4:50 MW Khuller & Agarwal	3:30-4:50 TuTh Makarychev	9:30-10:50 & 3:30-4:50 MW Agarwal	
<a href="#">COMP_SCI 337</a> (descriptions/337.html)	<a href="#">Intro to Natural Language Processing</a> (descriptions/337.html)	3:30-4:50 MW Birnbaum			
<a href="#">COMP_SCI 338</a> (descriptions/338-1.html)	<a href="#">Practicum in Intelligent Information Systems</a> (descriptions/338-1.html)	11-12:20 TuTh Hammond	11-12:20 TuTh Hammond	11-12:20 MW Hammond	
<a href="#">COMP_SCI 338</a> (descriptions/338-2.html)	<a href="#">Practicum in Intelligent Information Systems</a> (descriptions/338-2.html)				
<a href="#">COMP_SCI 339</a> (descriptions/339.html)	<a href="#">Intro to Databases</a> (descriptions/339.html)	12:30-1:50 MW Rogers		9:30-10:50 TuTh Rogers	
<a href="#">COMP_SCI 340</a> (descriptions/340.html)	<a href="#">Introduction to Computer Networking</a> (descriptions/340.html)	5-6:20 TuTh or MW Bustamante	12:30-1:50 TuTh Kuzmanovic		
<a href="#">COMP_SCI 341</a> (descriptions/341.html)	<a href="#">Social Networks Analysis</a> (descriptions/341.html)				Remote/ Asynchronous (5 week 1 and 5 week 2, two sessions) Contractor

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<a href="#">COMP_SCI 341 (descriptions/341-sa.html)</a>	<a href="#">Social Networks Analysis (CS 341-SA) (descriptions/341-sa.html)</a>				
<a href="#">COMP_SCI 343 (descriptions/343.html)</a>	<a href="#">Operating Systems (descriptions/343.html)</a>	12:30-1:50 TuTh Ghena	3:30-4:50 MW Dinda		
<a href="#">COMP_SCI 344 (descriptions/344.html)</a>	<a href="#">Design of Problem Solvers (descriptions/344.html)</a>				
<a href="#">COMP_SCI 345 (descriptions/345.html)</a>	<a href="#">Distributed Systems (descriptions/345.html)</a>			11-12:20 TuTh Bustamante	
<a href="#">COMP_SCI 346 (descriptions/346.html)</a>	<a href="#">Microcontroller System Design (descriptions/346.html)</a>	3:30-4:50 TuTh Ghena (Lab: F 1-2:50 OR F 3-4:50pm)		3:30-4:50 TuTh Ghena (Lab: F 1-2:50 OR F 3-4:50pm)	
<a href="#">COMP_SCI 347, 447 (descriptions/347-447.html)</a>	<a href="#">Conversational AI (descriptions/347-447.html)</a>			3:30-4:50 TuTh Forbus	
<a href="#">COMP_SCI 348 (descriptions/348.html)</a>	<a href="#">Intro to Artificial Intelligence (descriptions/348.html)</a>	2-3:20 TuTh Birnbaum	9:30-10:50 TuTh Rubenstein	11-12:20 TuTh Elkind	Remote/Sync 9:00-10:30 MonWed (10 weeks) Alam
<a href="#">COMP_SCI 349 (descriptions/349.html)</a>	<a href="#">Machine Learning (descriptions/349.html)</a>	9:30-10:50 TuTh Wood-Doughty	3:30-4:50 TuTh Wood-Doughty	11-12:20 TuTh Wood-Doughty	Remote/Sync 9:00-10:30 TuTh (10 weeks) Alam
<a href="#">COMP_SCI 350 (descriptions/350.html)</a>	<a href="#">Introduction to Computer Security (descriptions/350.html)</a>	9:30 -10:50 TuTh Chen			
<a href="#">COMP_SCI 351-1 (descriptions/351-1.html)</a>	<a href="#">Intro to Computer Graphics (descriptions/351-1.html)</a>	2-3:20 MW Geisler			Remote/ Async (First 5 weeks) Geisler
<a href="#">COMP_SCI 351-2 (descriptions/351-2.html)</a>	<a href="#">Intermediate Computer Graphics (descriptions/351-2.html)</a>				
<a href="#">COMP_SCI 352 (descriptions/352.html)</a>	<a href="#">Machine Perception of Music &amp; Audio (descriptions/352.html)</a>		3:30-4:50 TuTh Pardo	3:30-4:50 TTh J. Smith	11:00-12:30 MW (10 weeks) Chu
<a href="#">COMP_SCI 353 (descriptions/353.html)</a>	<a href="#">Natural &amp; Artificial Vision (descriptions/353.html)</a>	11-12:20 TuTh Alexander			

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<a href="#">COMP_SCI 354</a> (descriptions/354.html)	<a href="#">Computer System Security</a> (descriptions/354.html)				
<a href="#">COMP_SCI 355</a> (descriptions/355.html)	<a href="#">Digital Forensics and Incident Response</a> (descriptions/355.html)				
<a href="#">COMP_SCI 358</a> (descriptions/358.html)	<a href="#">Introduction to Parallel Computing</a> (descriptions/358.html)	5-6:20 TuTh Hummel			
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/361.html">COMP_ENG 361</a> (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/361.html)	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/361.html">Computer Architecture I</a> (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/361.html)	MW 12:30-1:50 Joseph			
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/362.html">COMP_ENG 362</a> (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/362.html)	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/362.html">Computer Architecture Project</a> (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/362.html)				
<a href="#">COMP_SCI 362, 462</a> (descriptions/362-462.html)	<a href="#">Foundations of Quantum Computing and Quantum Information</a> (descriptions/362-462.html)	9:30-10:50 MW Vijayaraghavan			
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/365-465-42.html">COMP_ENG 365, 465</a> (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/365-465-42.html)	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/365-465-42.html">Internet-of-Things Sensors, Systems, and Applications</a> (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/365-465-42.html)	Tu 2:00-3:20 Xia			
<a href="#">COMP_SCI 367, 467</a> (descriptions/367-467.html)	<a href="#">Wireless and Mobile Health (mHealth)</a> (descriptions/367-467.html)		5-6:20 TuTh Alshurafa & Pedram		
<a href="#">COMP_SCI 368, 468</a> (descriptions/368-468.html)	<a href="#">Programming Massively Parallel Processors with CUDA</a> (descriptions/368-468.html)		11-12:20 TuTh Hardavellas		Remote/ Hybrid 10-1:00pm TTh (First 5 weeks) Hardavellas
<a href="#">COMP_SCI 371</a> (descriptions/371.html)	<a href="#">Knowledge Representation and Reasoning</a> (descriptions/371.html)		12:30-1:50 TuTh Forbus		
<a href="#">COMP_SCI 372, 472</a> (descriptions/372-472.html)	<a href="#">Designing and Constructing Models with Multi-Agent Languages</a> (descriptions/372-472.html)			3:30-4:50 TuTh Bain & Wilensky	

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<a href="#">COMP_SCI 374</a> (descriptions/374.html)	<a href="#">Causal Graphical Models</a> (descriptions/374.html)		9:30-10:50 TuTh Wood-Doughty		
<a href="#">COMP_SCI 375</a> (descriptions/375.html)	<a href="#">Digital Musical Instrument Design</a> (descriptions/375.html)			5-8:50 M Moore	
<a href="#">COMP_SCI 376</a> (descriptions/376.html)	<a href="#">Game Design and Development</a> (descriptions/376.html)	4-4:50 MWF Horswill			
<a href="#">COMP_SCI 377</a> (descriptions/377.html)	<a href="#">Game Development Studio</a> (descriptions/377.html)		3:30-4:50 MW Viglione		
<a href="#">COMP_SCI 380</a> (descriptions/380.html)	<a href="#">Software Quality Engineering</a> (descriptions/380.html)			9:30-10:50 or 12:30-1:50pm MW (2 sections) Y. Zhang	
<a href="#">COMP_SCI 387</a> (descriptions/387.html)	<a href="#">Responsible Software Engineering</a> (descriptions/387.html)		3:30-4:50 TuTh St-Amour		
<a href="#">COMP_SCI 388</a> (descriptions/388.html)	<a href="#">Software Engineering Beyond Programming</a> (descriptions/388.html)		11-12:20 TuTh St-Amour		
<a href="#">COMP_SCI 392</a> (descriptions/392.html)	<a href="#">Rapid Prototyping for Software Innovation</a> (descriptions/392.html)	3-3:50 MWF Riesbeck			
<a href="#">COMP_SCI 394</a> (descriptions/394.html)	<a href="#">Agile Software Development</a> (descriptions/394.html)		3:30-4:50 MW Riesbeck	9:30-10:50 MW (Riesbeck) or 3:30-4:50pm (Warren)	
<a href="#">COMP_SCI 396</a> (descriptions/396-1.html)	<a href="#">Advanced Graphics Seminar: VR/AR Systems</a> (descriptions/396-1.html)				
<a href="#">COMP_SCI 396</a> (descriptions/396-2.html)	<a href="#">Declarative Programming for Game AI</a> (descriptions/396-2.html)	1-1:50 MWF Horswill			
<a href="#">COMP_SCI 396</a> (descriptions/396-3.html)	<a href="#">Reasoning and Planning in the Foundation Model Era</a> (descriptions/396-3.html)		9:30-10:50 MW Li		
<a href="#">COMP_SCI 396</a> (descriptions/396-4.html)	<a href="#">Computing, Ethics, and Society</a> (descriptions/396-4.html)				Remote/Sync MTWThF 1-3 (First 3 weeks) Melo

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<a href="#">COMP_SCI 396</a> (descriptions/396-5.html)	<a href="#">Differential Privacy: from Foundations to Machine Learning</a> (descriptions/396-5.html)				
<a href="#">COMP_SCI 396</a> (descriptions/396-9.html)	<a href="#">Social AR/VR Studio</a> (descriptions/396-9.html)				
<a href="#">COMP_SCI 396</a> (descriptions/396-10.html)	<a href="#">Fairness in ML</a> (descriptions/396-10.html)	2-3:20 TuTh Wood-Doughty			
<a href="#">COMP_SCI 396</a> (descriptions/396-11.html)	<a href="#">Communicating Computer Science</a> (descriptions/396-11.html)				
<a href="#">COMP_SCI 396</a> (descriptions/396-12.html)	<a href="#">Algorithms for Collective Decision Making</a> (descriptions/396-12.html)		11-12:20 MW Elkind		
<a href="#">COMP_SCI 396</a> (descriptions/396-14.html)	<a href="#">Software Design Principles and Practices</a> (descriptions/396-14.html)	10-10:50 or 1-1:50 MWF Y. Zhang			
<a href="#">COMP_SCI 396</a> (descriptions/396-17.html)	<a href="#">Advanced Offense and Defense in Cybersecurity</a> (descriptions/396-17.html)			8-9:20 TuTh Xing	
<a href="#">COMP_SCI 396</a> (descriptions/396-18.html)	<a href="#">AI In Interactive Music</a> (descriptions/396-18.html)				
<a href="#">COMP_SCI 396</a> (descriptions/396-19.html)	<a href="#">Health Tech</a> (descriptions/396-19.html)		2-3:20 TuTh J. DeAndria		
<a href="#">COMP_SCI 396</a> (descriptions/396-20.html)	<a href="#">LLM-Assisted Security</a> (descriptions/396-20.html)		1-3:50pm F Chen		
<a href="#">COMP_SCI 396, 496</a> (descriptions/396-496-2.html)	<a href="#">Advanced Algorithm Design through the Lens of Competitive Programming</a> (descriptions/396-496-2.html)				
<a href="#">COMP_SCI 396, 496</a> (descriptions/396-496-4.html)	<a href="#">Pedagogical Design in CS</a> (descriptions/396-496-4.html)			12:30-1:50 TTh Bain	
<a href="#">COMP_SCI 396, 496</a> (descriptions/396-496-5.html)	<a href="#">Computing and Sustainability</a> (descriptions/396-496-5.html)			2-4:50 F Arora	
<a href="#">COMP_SCI 396, 496</a> (descriptions/396-496-6.html)	<a href="#">Data Management Seminar</a> (descriptions/396-496-6.html)		9:30-10:50 TuTh Rogers		
<a href="#">COMP_SCI 396, 496</a> (descriptions/396-496-7.html)	<a href="#">Human-AI Interaction Research</a> (descriptions/396-496-7.html)				
<a href="#">COMP_SCI 396, 496</a> (descriptions/396-496-9.html)	<a href="#">Misinformation and Disinformation in the Age of AI</a>				

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	<a href="#">(descriptions/396-496-9.html)</a>				
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-10.html)</a>	<a href="#">Programming Languages Seminar</a> <a href="#">(descriptions/396-496-10.html)</a>				
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-13.html)</a>	<a href="#">Security and Privacy Education</a> <a href="#">(descriptions/396-496-13.html)</a>				
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-14.html)</a>	<a href="#">Mobile and Ubiquitous computing</a> <a href="#">(descriptions/396-496-14.html)</a>	9:30-10:50 TuTh Arora			
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-15.html)</a>	<a href="#">AI Perspectives</a> <a href="#">(descriptions/396-496-15.html)</a>			2-4:50 F Alam	
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-16.html)</a>	<a href="#">AI for Science and Business</a> <a href="#">(descriptions/396-496-16.html)</a>			3-5:40 W or 2-4:40 Th (2 sections) Choudhary	
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-18.html)</a>	<a href="#">NUVention Media</a> <a href="#">(descriptions/396-496-18.html)</a>		12:30- 3:20 Th Gilbert & Birnbaum		
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-21.html)</a>	<a href="#">Advanced Topics in Ubiquitous Computing</a> <a href="#">(descriptions/396-496-21.html)</a>			10-12:50 Th Ahuja	
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-22.html)</a>	<a href="#">Machine Learning and Sensing</a> <a href="#">(descriptions/396-496-22.html)</a>	3:30-4:50 TuTh Ahuja		3:30-4:50 TuTh Ahuja	
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-24.html)</a>	<a href="#">Exploration in Sports Video Analytics</a> <a href="#">(descriptions/396-496-24.html)</a>			11-12:20 MW Worsley	
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-25.html)</a>	<a href="#">Computing, Ethics, and Society</a> <a href="#">(descriptions/396-496-25.html)</a>				
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-26.html)</a>	<a href="#">Data-driven Plant Science</a> <a href="#">(descriptions/396-496-26.html)</a>		9 - 11:50 Th Arora & Strickler		
<a href="#">COMP_SCI 396, 496</a> <a href="#">(descriptions/396-496-27.html)</a>	<a href="#">Pragmatics of Programming Languages</a> <a href="#">(descriptions/396-496-27.html)</a>		2-4:50 M Dimoulas		
<a href="#">COMP_SCI 397</a> <a href="#">(descriptions/397-1.html)</a>	<a href="#">Seminar in Statistical Language Modeling</a> <a href="#">(descriptions/397-1.html)</a>				
<a href="#">COMP_SCI 397</a> <a href="#">(descriptions/397-2.html)</a>	<a href="#">Transformative CS Education</a> <a href="#">(descriptions/397-2.html)</a>			6:30-9:20 M Horn	
<a href="#">CSCI 397</a>	<a href="#">Software Studio</a>	9:30-10:50 TuTh		12:30-1:50 MW	

Course	Course Title	Fall 2025	Winter 2026	Spring 2026	Summer 2026
(descriptions/397-4.html)	(descriptions/397-4.html)	Kurdia		Kurdia	
<b>COMP_SCI 397</b> (descriptions/397-5.html)	<b>Seminar in Large Language Models</b> (descriptions/397-5.html)				
<b>COMP_SCI 397</b> (descriptions/397-6.html)	<b>Applied AI for Software Development</b> (descriptions/397-6.html)				
<b>COMP_SCI 397, 497</b> (descriptions/397-497-2.html)	<b>Advanced Topics in Compilers</b> (descriptions/397-497-2.html)				
<b>COMP_SCI 397, 497</b> (descriptions/397-497-3.html)	<b>Sports, Technology and Learning</b> (descriptions/397-497-3.html)	12:30-1:50 MW Worsley			
<b>COMP_SCI 397, 497</b> (descriptions/397-497-4.html)	<b>(Special Topics) Innovation in Journalism &amp; Technology</b> (descriptions/397-497-4.html)	2-3:50 TuTh Hammond & Wise	2-3:50 TuTh Lee & Hammond	2-3:50 TuTh Wise & Hammond	
<b>COMP_SCI 397, 497</b> (descriptions/397-497-10.html)	<b>Multimodal learning analytics and interaction analysis</b> (descriptions/397-497-10.html)				
<b>COMP_SCI 397, 497</b> (descriptions/397-497-11.html)	<b>Advanced Multimodal Interfaces and Analysis Research</b> (descriptions/397-497-11.html)				
<b>COMP_SCI 397, 497</b> (descriptions/397-497-12.html)	<b>Selected Topics in Computer Networks</b> (descriptions/397-497-12.html)			12:30-1:50 TuTh Kuzmanovic	
<b>COMP_SCI 397, 497</b> (descriptions/397-497-15.html)	<b>Innovation Lab: Building Technologies for the Law</b> (descriptions/397-497-15.html)		2:35-5:30 Tu Linna Jr. & Hammond		
<b>COMP_SCI 398</b> (descriptions/398.html)	<b>Research Track Practicum</b> (descriptions/398.html)		Does not meet Bhagavatula		
<b>COMP_SCI 401</b> (descriptions/401.html)	<b>Introduction to Graduate Studies in Computer Science</b> (descriptions/401.html)	2-3:20 MW Hullman			
<b>COMP_SCI 407</b> (descriptions/407.html)	<b>Advanced Topics in Modern Cryptography</b> (descriptions/407.html)		9:30-10:50 TuTh Wang		
<b>COMP_SCI 409</b> (descriptions/409.html)	<b>Swarms and Multi-Robot Systems</b> (descriptions/409.html)	2-3:20 TuTh Rubenstein			
<b>COMP_SCI 410</b> (descriptions/410.html)	<b>Quadrotor Design and Control</b> (descriptions/410.html)			12:30-3:20 Th Rubenstein	
<b>COMP_SCI 416</b>	<b>Mathematical Foundations of</b>			5-7:50 Tu	

Course	Course Title	Fall 2025	Winter 2026	Spring 2026	Summer 2026
(descriptions/416.html)	<a href="#">Machine Learning</a> (descriptions/416.html)			Liu	
<a href="#">COMP_SCI 432</a> (descriptions/432.html)	<a href="#">Mechanism Design</a> (descriptions/432.html)				
<a href="#">COMP_SCI 433</a> (descriptions/433.html)	<a href="#">Wireless Protocols for the Internet of Things</a> (descriptions/433.html)			12:30-1:50 TuTh Ghena (Lab: F 11-12:20)	
<a href="#">COMP_SCI 436</a> (descriptions/436.html)	<a href="#">Graduate Algorithms</a> (descriptions/436.html)			11-12:20 TuTh Makarychev	
<a href="#">COMP_SCI 437</a> (descriptions/437.html)	<a href="#">Approximation Algorithms</a> (descriptions/437.html)	11-12:20 TuTh Makarychev			
<a href="#">COMP_SCI 439</a> (descriptions/439.html)	<a href="#">Advanced Database Systems</a> (descriptions/439.html)		3:30-4:50 MW Crotty		
<a href="#">COMP_SCI 440</a> (descriptions/440.html)	<a href="#">Advanced Networking</a> (descriptions/440.html)				
<a href="#">COMP_SCI 445</a> (descriptions/445.html)	<a href="#">Internet-scale Experimentation</a> (descriptions/445.html)		11-12:20 TuTh Bustamante		
<a href="#">COMP_SCI 446</a> (descriptions/446.html)	<a href="#">Kernel and Other Low-level Software Development</a> (descriptions/446.html)			2-3:20 MW Dinda	
<a href="#">COMP_SCI 449</a> (descriptions/449.html)	<a href="#">Deep Learning</a> (descriptions/449.html)	11-12:20 TuTh Demeter	11-12:20 TuTh Demeter	3:30-4:50 TuTh Pardo	
<a href="#">COMP_SCI 450</a> (descriptions/450.html)	<a href="#">Internet Security</a> (descriptions/450.html)	11-12:20 TuTh Chen			
<a href="#">COMP_SCI 454</a> (descriptions/454.html)	<a href="#">Computational Optics</a> (descriptions/454.html)			3:30-4:50 TuTh Alexander	
<a href="#">COMP_ENG 452</a> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/452.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/452.html</a> )	<a href="#">Advanced Computer Architecture I</a> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/452.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/452.html</a> )		TuTh 11-12:20 Hardavellas		
<a href="#">COMP_ENG 453</a> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/453.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/453.html</a> )	<a href="#">Parallel Architectures</a> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/453.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/453.html</a> )			MW 3:30-4:50 Joseph	
<a href="#">COMP_ENG 456</a> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/456.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/456.html</a> )	<a href="#">Modern Topics in Computer Architecture</a> ( <a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/456.html">https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/456.html</a> )				

Course	Course Title	Fall 2025	Winter 2026	Spring 2026	Summer 2026
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/456.html">courses/descriptions/456.html</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/456.html">electrical-computer/academics/courses/descriptions/456.html</a>				
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/459.html">COMP_ENG 459 (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/459.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/459.html">VLSI Algorithmics (https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/459.html)</a>	MW 2-3:20 S. Ogrenci			
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/461.html">COMP_SCI 461 (descriptions/461.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/461.html">Deep Learning for Natural Language Processing (descriptions/461.html)</a>	12:30-1:50 TuTh Demeter		11-12:20 TuTh Demeter	
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/463.html">COMP_SCI 463 (descriptions/463.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/463.html">Generative Deep Models (descriptions/463.html)</a>			2-4:50 W Pardo	
<a href="https://www.mccormick.northwestern.edu/mechanical/academics/courses/descriptions/469-machine-learning-and-artificial-intelligence-for-robotics.html">COMP_SCI 469 (https://www.mccormick.northwestern.edu/mechanical/academics/courses/descriptions/469-machine-learning-and-artificial-intelligence-for-robotics.html)</a>	<a href="https://www.mccormick.northwestern.edu/mechanical/academics/courses/descriptions/469-machine-learning-and-artificial-intelligence-for-robotics.html">Machine Learning and Artificial Intelligence for Robotics (https://www.mccormick.northwestern.edu/mechanical/academics/courses/descriptions/469-machine-learning-and-artificial-intelligence-for-robotics.html)</a>	12:30-1:50 TuTh Argall			
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/474.html">COMP_SCI 474 (descriptions/474.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/474.html">Probabilistic Graphical Models (descriptions/474.html)</a>				
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-2.html">COMP_SCI 496 (descriptions/496-2.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-2.html">Topics in Computational Imaging (descriptions/496-2.html)</a>		9-11:50 F Alexander		
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-4.html">COMP_SCI 496 (descriptions/496-4.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-4.html">High-Dimensional Probability for Computer Science (descriptions/496-4.html)</a>			11-12:20 MW Mohanty	
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-7.html">COMP_SCI 496 (descriptions/496-7.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-7.html">The Design of Technological Tools for Thinking and Learning (descriptions/496-7.html)</a>				
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-8.html">COMP_SCI 496 (descriptions/496-8.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-8.html">Advanced Topics on Deep Learning (descriptions/496-8.html)</a>			5-7:50 W Liu	
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-9.html">COMP_SCI 496 (descriptions/496-9.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-9.html">Quantum Computer Systems (descriptions/496-9.html)</a>		11-12:20 MW Smith		
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-12.html">COMP_SCI 496 (descriptions/496-12.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-12.html">Topics in Algorithmic Statistics (descriptions/496-12.html)</a>		2-3:20 MW Racz		
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-15.html">COMP_SCI 496 (descriptions/496-15.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-15.html">Special Topics In Data Systems Seminar (descriptions/496-15.html)</a>			3-5:50 W Crotty	
<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-20.html">COMP_SCI 496 (descriptions/496-20.html)</a>	<a href="https://www.mccormick.northwestern.edu/electrical-computer/academics/courses/descriptions/496-20.html">Engineering Modern Cryptographic Protocols (descriptions/496-20.html)</a>			2-4:50 W Wang	

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<a href="#">COMP_SCI 496</a> (descriptions/496-21.html)	<a href="#">Qualitative Reasoning Seminar</a> (descriptions/496-21.html)				
<a href="#">COMP_SCI 496</a> (descriptions/496-23.html)	<a href="#">Engineering Interactive Systems</a> (descriptions/496-23.html)				
<a href="#">COMP_SCI 496</a> (descriptions/496-24.html)	<a href="#">Visualization for Scientific Communication</a> (descriptions/496-24.html)			2:30 -5:20 M Kay	
<a href="#">COMP_SCI 496</a> (descriptions/496-26.html)	<a href="#">Foundations of Reliable Machine Learning</a> (descriptions/496-26.html)				
<a href="#">COMP_SCI 496</a> (descriptions/396-496-23.html)	<a href="#">HCI Methods for Health Research</a> (descriptions/396-496-23.html)				
<a href="#">COMP_SCI 496</a> (descriptions/496-25.html)	<a href="#">Evolutionary Computation</a> (descriptions/496-25.html)	2-3:20 TuTh Kriegman			
<a href="#">COMP_SCI 496</a> (descriptions/496-29-xxing.html)	<a href="#">Advanced System Security</a> (descriptions/496-29-xxing.html)			1-3:50 F Xing	
<a href="#">COMP_SCI 496</a> (descriptions/496-30.html)	<a href="#">Logic In AI</a> (descriptions/496-30.html)				
<a href="#">COMP_SCI 496</a> (descriptions/496-31.html)	<a href="#">The Expansion Phenomenon in Computer Science</a> (descriptions/496-31.html)	11-12:20 TuTh Mohanty			
<a href="#">COMP_SCI 496</a> (descriptions/496-32.html)	<a href="#">Modern Discrete Probability</a> (descriptions/496-32.html)				
<a href="#">COMP_SCI 496</a> (descriptions/496-36.html)	<a href="#">Learning in Networks</a> (descriptions/496-36.html)				
<a href="#">COMP_SCI 496</a> (descriptions/496-37.html)	<a href="#">Graduate Social Network Analysis</a> (descriptions/496-37.html)	2-5pm F Contractor			
<a href="#">COMP_SCI 496</a> (descriptions/496-38.html)	<a href="#">Intro to Type Systems</a> (descriptions/496-38.html)	11-12:20 TuTh Findler			
<a href="#">COMP_SCI 496</a> (descriptions/496-39.html)	<a href="#">Special Topics in CS Ph.D. Job Search</a> (descriptions/496-39.html)			2-4 M Hartline	
<a href="#">COMP_SCI 496</a> (descriptions/496-40.html)	<a href="#">Transformative AI and the Learning Sciences</a> (descriptions/496-40.html)				
<a href="#">COMP_SCI 496</a> (descriptions/496-41.html)	<a href="#">Theory of Gradient-Based Optimization in ML</a> (descriptions/496-41.html)				
<a href="#">COMP_SCI 496</a>	<a href="#">Emerging Risks for Humans</a>				

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(descriptions/496-42.html)	<a href="#">Interacting with Technologies</a> (descriptions/496-42.html)				
<b>COMP_SCI 496</b> (descriptions/496-43.html)	<b>Agent AI</b> (descriptions/496-43.html)		2-4:50 M Li	2-4:50 M Li	
<b>COMP_SCI 496</b> (descriptions/396-496-20.html)	<b>Advanced Topics in Approximation Algorithms</b> (descriptions/396-496-20.html)				
<b>COMP_SCI 496</b> (descriptions/496-44.html)	<b>Quantum Computer Applications and Programming</b> (descriptions/496-44.html)			11-12:20 TuTh Smith	
<b>COMP_SCI 496</b> (descriptions/496-45.html)	<b>Preference Aggregation for AI Alignment</b> (descriptions/496-45.html)		2-4:50 Tu Elkind		
<b>COMP_SCI 496</b> (descriptions/496-46.html)	<b>Data Economics</b> (descriptions/496-46.html)	2-3:20 MW Hartline			
<b>COMP_SCI 496</b> (descriptions/496-47.html)	<b>Generative AI for Social Science</b> (descriptions/496-47.html)		2-4:50 Th Hullman		
<b>COMP_SCI 496</b> (descriptions/496-48.html)	<b>Reliable Machine Learning with Unreliable Black-box Models</b> (descriptions/496-48.html)			9:30-10:50 TTh Vijayaraghavan & Srinivas	
<b>COMP_SCI 497</b> (descriptions/497-3.html)	<b>Recent Highlights in the Theory of Machine Learning</b> (descriptions/497-3.html)				
<b>COMP_SCI 497</b> (descriptions/497-4.html)	<b>The Design of Tools and Technologies for Computer Science Education</b> (descriptions/497-4.html)				
<b>COMP_SCI 497</b> (descriptions/497-6.html)	<b>Calibration (Foundations of Trustworthy ML)</b> (descriptions/497-6.html)				
<b>COMP_SCI 497</b> (descriptions/497-8.html)	<b>Prediction for Decision-Making</b> (descriptions/497-8.html)				