

Electrical Engineering & Computer Science Undergraduate Workload Survey (Spring 2016) [n=1031]

Program	Computer Engineering: 12%	Computer Science: 65%	Electrical Engineering: 16%
	Data Science: 1%	Computer Science Minor: 5%	Electrical Engineering Minor: 1%

Gender	Male: 79%	Female: 21%
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Graduation Year	13/14: 0.7%	14/15: 3.0%	15/16: 23.4%	16/17: 34.5%	17/18: 30.2%	18/19: 8.3%
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	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extra)
183 - Elementary Programming Concepts	39.8% (103)	54.4% (141)	4.6% (12)	1.2% (3)	259	1.6
203 - Discrete Mathematics	29.0% (228)	62.0% (488)	8.1% (64)	0.9% (7)	787	1.8
215 - Introduction to Circuits	1.9% (5)	50.4% (136)	43.0% (116)	4.8% (13)	270	2.5
216 - Introduction to Signals and Systems	5.6% (13)	57.5% (134)	29.6% (69)	7.3% (17)	233	2.3
230 - Electromagnetics I	12.6% (14)	64.9% (72)	19.8% (22)	2.7% (3)	111	2.1
250 - Electronic Sensing Systems	66.7% (6)	11.1% (1)	11.1% (1)	11.1% (1)	9	1.6
270 - Introduction to Logic Design	7.1% (19)	66.9% (180)	23.4% (63)	2.6% (7)	269	2.2
280 - Programming and Introductory Data Structures	7.4% (68)	62.3% (573)	28.2% (259)	2.2% (20)	920	2.2
281 - Data Structures and Algorithms	0.4% (3)	12.6% (94)	65.1% (486)	21.9% (163)	746	3.0
282 - Information Systems Design & Programming	40.0% (2)	40.0% (2)	0	20.0% (1)	5	2.0
285 - A Programming Language or Computer System	39.1% (27)	42.0% (29)	15.9% (11)	2.9% (2)	69	1.8

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extra)
301 - Probabilistic Methods in Engineering	21.5% (23)	54.2% (58)	23.4% (25)	0.9% (1)	107	2.0
311 - Electronic Circuits	0	20.4% (11)	59.2% (32)	20.4% (11)	54	3.0
312 - Digital Integrated Circuits	0	18.4% (9)	61.2% (30)	20.4% (10)	49	3.0
314 - Electrical Circuits, Systems, and Applications	12.5% (1)	37.5% (3)	37.5% (3)	12.5% (1)	8	2.5
320 - Introduction to Semiconductor Devices	23.5% (28)	59.7% (71)	16.0% (19)	0.8% (1)	119	1.9
330 - Electromagnetics II	12.5% (2)	56.2% (9)	25.0% (4)	6.3% (1)	16	2.2
334 - Principles of Optics	56.7% (17)	36.7% (11)	3.3% (1)	3.3% (1)	30	1.5
351 - Introduction to Digital Signal Processing	23.3% (17)	65.8% (48)	11.0% (8)	0	73	1.8
370 - Introduction to Computer Organization	12.9% (77)	72.5% (434)	14.2% (85)	0.5% (3)	599	2.0
373 - Design of Microprocessor Based Systems	1.1% (1)	5.7% (5)	59.1% (52)	34.1% (30)	88	3.2
376 - Foundations of Computer Science	17.7% (72)	56.0% (228)	22.9% (93)	3.4% (14)	407	2.1
381 - Object Oriented and Advanced Programming	2.4% (2)	1.2% (1)	9.6% (8)	86.7% (72)	83	3.8
382 - Internet-scale Computing	33.3% (1)	66.7% (2)	0	0	3	1.6
388 - Introduction to Computer Security	16.4% (42)	71.5% (183)	11.3% (29)	0.8% (2)	256	1.9

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extra)
402 - Computer Programming for Scientists and Engineers	0	80.0% (4)	0	20.0% (1)	5	2.4
406 - High-Tech Entrepreneurship (ENGR 406)	50.0% (3)	33.3% (2)	0	16.7% (1)	6	1.8
410 - Patent Fundamentals for Engr. (ENGR 410)	50.0% (2)	25.0% (1)	0	25.0% (4)	4	2.0
411 - Microwave Circuits I	0	75.0% (3)	0	25.0% (1)	4	2.5
413 - Monolithic Amplifier Circuits	0	36.4% (4)	27.3% (3)	36.4% (4)	11	3.0
414 - Introduction to MEMS	40.0% (4)	30.0% (3)	20.0% (2)	10.0% (1)	10	2.0
417 - Electrical Biophysics	42.9% (3)	42.9% (3)	0	14.3% (1)	7	1.8
418 - Power Electronics	0	21.4% (3)	50.0% (7)	28.6% (4)	14	3.0
419 - Electric Machinery and Drives	0	44.4% (4)	33.3% (3)	22.2% (2)	9	2.7
421 - Properties of Transistors	0	66.7% (2)	0	33.3% (1)	3	2.6
423 - Solid-State Device Laboratory	0	60.0% (3)	20.0% (1)	20.0% (1)	5	2.6
425 - Integrated Microsystems Laboratory	0	14.3% (1)	14.3% (1)	71.4% (5)	7	3.5
427 - VSLI Design I	4.8% (1)	4.8% (1)	14.3% (3)	76.2% (16)	21	3.6
429 - Semiconductor Optoelectronic Devices	28.6% (2)	42.9% (3)	14.3% (1)	14.3% (1)	7	2.1
430 - Radiowave Propagation and Link Design	0	33.3% (2)	33.3% (2)	33.3% (2)	6	3.0
434 - Principles of Photonics	0	50.0% (1)	0	50.0% (1)	2	3.0

435 - Fourier Optics	0	50.0% (1)	0	50.0% (1)	2	3.0
438 - Advanced Lasers and Optics Laboratory	0	60.0% (3)	20.0% (1)	20.0% (1)	5	2.6
441 - Mobile App Development for Entrepreneurs	68.9% (42)	26.2% (16)	3.3% (2)	1.6% (1)	61	1.3
442 - Computer Vision	8.3% (3)	69.4% (25)	16.7% (6)	5.6% (2)	36	2.1
443 - Senior Thesis	14.3% (1)	42.9% (3)	14.3% (1)	28.6% (2)	7	2.5
445 - Introduction to Machine Learning	1.1% (1)	36.8% (35)	47.4% (45)	14.7% (14)	95	2.7
452 - Digital Signal Processing Design Laboratory	0	16.0% (4)	44.0% (11)	40.0% (10)	25	3.2
453 - Applied Matrix Algorithms for Signal Processing	11.1% (1)	55.6% (5)	22.2% (2)	11.1% (1)	9	2.3
455 - Digital Communication Signals and Systems	12.5% (1)	62.5% (5)	12.5% (1)	12.5% (1)	8	2.2

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extra)
458 - Biomedical Instrumentation & Design	0	50.0% (1)	0	50.0% (1)	2	2.2
460 - Control Systems Analysis and Design	6.9% (4)	81.0% (47)	8.6% (5)	3.4% (2)	58	2.0
461 - Embedded Control Systems	9.3% (5)	61.1% (33)	27.8% (15)	1.9% (1)	54	2.2
463 - Power Systems Design and Operation	0	83.3% (5)	0	16.7% (1)	6	2.3
467 - Autonomous Robotics	0	8.7% (2)	17.4% (4)	73.9% (17)	23	3.6
470 - Computer Architecture	2.6% (1)	5.3% (2)	5.3% (2)	86.8% (33)	38	3.7
473 - Advanced Embedded Systems	0	5.0% (1)	25.0% (5)	70.0% (14)	20	3.6
475 - Introduction to Cryptography	23.2% (16)	62.3% (43)	13.0% (9)	1.4% (1)	69	1.9
477 - Introduction to Algorithms	5.0% (1)	60.0% (12)	25.0% (5)	10.0% (2)	20	2.4
478 - Logic Circuit Synthesis and Optimization	4.8% (1)	81.0% (17)	0	14.3% (3)	21	2.2
480 - Logic and Formal Verification	0	50.0% (1)	0	50.0% (1)	2	3.0
481 - Software Engineering	33.8% (24)	56.3% (40)	8.5% (6)	1.4% (1)	71	1.7
482 - Introduction to Operating Systems	0.7% (2)	3.4% (10)	32.8% (95)	63.1% (183)	290	3.5
483 - Compiler Construction	8.3% (1)	75.0% (9)	16.7% (2)	0	12	2.0
484 - Database Management Systems	9.8% (17)	64.2% (111)	24.3% (42)	1.7% (3)	173	2.1
485 - Web Database and Information Systems	2.5% (6)	47.5% (115)	46.7% (113)	3.3% (8)	242	2.5
486 - Informational Retrieval and Web Search	55.2% (16)	41.4% (12)	0	3.4% (1)	29	1.5
487 - Interactive Computer Graphics	10.0% (1)	0	70.0% (7)	20.0% (2)	10	3.0
489 - Computer Networks	5.0% (1)	55.0% (11)	40.0% (8)	0	20	2.3
490 - Programming Languages	50.0% (1)	50.0% (1)	0	0	2	1.5
492 - Introduction to Artificial Intelligence	12.7% (17)	69.4% (93)	16.4% (22)	1.5% (2)	134	2.0
493 - User Interface Development	52.1% (25)	47.9% (23)	0	0	48	1.4
494 - Computer Game Design and Development	1.5% (1)	4.5% (3)	34.8% (23)	59.1% (39)	66	3.5
496 - Major Design Experience Professionalism	94.7% (108)	2.6% (3)	0	2.6% (3)	114	1.1
497 - EECS Major Design Projects	69.6% (16)	21.7% (5)	4.3% (1)	4.3% (1)	23	1.4