

Electrical Engineering & Computer Science Undergraduate Workload Survey (Spring 2014) [n=720]

Program	Computer Engineering: 16.8%	Computer Science: 56.0%	Electrical Engineering: 27.2%		
Gender	Male: 81.7%	Female: 18.3%			
Graduation Year	12/13: 11.8%	13/14: 16.9%	14/15: 36.6%	15/16: 29.7%	16/17: 5.0%

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extr)
182 - Building Applications for Info. Systems	66.7% (6)	22.2% (2)	0	11.1% (1)	9	1.5
183 - Elementary Programming Concepts	50.5% (54)	43.9% (47)	3.7% (4)	1.9% (2)	107	1.5
203 - Discrete Mathematics	24.3% (118)	62.1% (301)	11.7% (57)	1.9% (9)	485	1.9
215 - Introduction to Circuits	2.7% (8)	45.1% (132)	43.7% (128)	8.5% (25)	293	2.5
216 - Introduction to Signals and Systems	4.7% (12)	50.4% (128)	37.4% (95)	7.5% (19)	254	2.4
230 - Electromagnetics I	7.4% (10)	61.0% (83)	28.7% (39)	2.9% (4)	136	2.2
250 - Electronic Sensing Systems	80.0% (12)	6.7% (1)	13.3% (2)	0	15	1.3
270 - Introduction to Logic Design	7.7% (23)	67.3% (200)	21.9% (65)	3.0% (9)	297	2.2
280 - Programming and Introductory Data Structures	5.9% (37)	59.3% (374)	29.3% (185)	5.5% (35)	631	2.3
281 - Data Structures and Algorithms	0.7% (3)	13.5% (62)	62.2% (286)	23.7% (109)	460	3.0
282 - Information Systems Design & Programming	30.0% (3)	50.0% (5)	20.0% (2)	0	10	1.9
283 - Programming for Science and Engineering	0	100.0% (2)	0	0	2	2.0
285 - A Programming Language or Computer System	54.7% (29)	32.1% (17)	11.3% (6)	1.9% (1)	53	1.6

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extr)
301 - Probabilistic Methods in Engineering	16.1% (14)	70.1% (61)	12.6% (11)	1.1% (1)	87	1.9
311 - Electronic Circuits	0	34.9% (22)	50.8% (32)	14.3% (9)	63	2.7
312 - Digital Integrated Circuits	0	40.6% (26)	51.6% (33)	7.8% (5)	64	2.6
314 - Electrical Circuits, Systems, and Applications	20.0% (3)	53.3% (8)	26.7% (4)	0	15	2.0
320 - Introduction to Semiconductor Devices	13.9% (22)	71.5% (113)	12.7% (20)	1.9% (3)	158	2.0
330 - Electromagnetics II	6.0% (2)	57.7% (19)	30.3% (10)	6.0% (2)	33	2.3
334 - Principles of Optics	48.0% (24)	40.0% (20)	6.0% (3)	6.0% (3)	50	1.7
370 - Introduction to Computer Organization	10.8% (42)	67.0% (260)	20.9% (81)	1.3% (5)	388	2.1
373 - Design of Microprocessor Based Systems	0	8.5% (7)	62.2% (51)	29.3% (24)	82	3.2
376 - Foundations of Computer Science	31.4% (66)	57.1% (120)	10.5% (22)	1.0% (2)	210	1.8
381 - Object Oriented and Advanced Programming	5.5% (3)	3.6% (2)	5.5% (3)	85.4% (47)	55	3.7
382 - Internet-scale Computing	50.0% (2)	50.0% (2)	0	0	4	1.5
388 - Introduction to Computer Security	20.8% (11)	58.5% (31)	17.0% (9)	3.7% (2)	53	2.0

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extr)
406 - High-Tech Entrepreneurship (ENGR 406)	75.0% (6)	12.5% (1)	0	12.5% (1)	8	1.5
410 - Patent Fundamentals for Engr. (ENGR 410)	0	80.0% (4)	20.0% (1)	0	5	2.2
411 - Microwave Circuits I	0	35.7% (5)	64.3% (9)	0	14	2.6
413 - Monolithic Amplifier Circuits	0	27.3% (3)	36.4% (4)	36.4% (4)	11	3.0
414 - Introduction to MEMS	9.1% (1)	36.4% (4)	54.5% (6)	0	11	2.4
417 - Electrical Biophysics	42.9% (3)	42.9% (3)	14.3% (1)	0	7	1.7
418 - Power Electronics	0	37.5% (3)	62.5% (5)	0	8	2.6
419 - Electric Machinery and Drives	16.7% (1)	83.3% (5)	0	0	6	1.8
421 - Properties of Transistors	0	100.0% (1)	0	0	1	2.0
423 - Solid-State Device Laboratory	0	25.0% (1)	75.0% (3)	0	4	2.7
425 - Integrated Microsystems Laboratory	0	16.7% (1)	50.0% (3)	33.3% (2)	6	3.1
427 - VLSI Design I	3.1% (1)	0	15.6% (5)	81.3% (26)	32	3.7
429 - Semiconductor Optoelectronic Devices	42.9% (3)	28.6% (2)	28.6% (2)	0	7	1.8
430 - Radiowave Propagation and Link Design	0	20.0% (3)	73.3% (11)	6.7% (1)	15	2.8
434 - Principles of Photonics	50.0% (1)	50.0% (1)	0	0	2	1.5
438 - Advanced Lasers and Optics Laboratory	0	66.7% (2)	33.3% (1)	0	3	2.3

441 - Mobile App Development for Entrepreneurs	35.7% (10)	46.4% (13)	17.9% (5)	0	28	1.8
442 - Computer Vision	9.1% (1)	27.3% (3)	45.5% (5)	18.2% (2)	11	2.7
445 - Introduction to Machine Learning	14.3% (1)	28.6% (2)	42.9% (3)	14.3% (1)	7	2.5
451 - Digital Signal Processing and Analysis	35.7% (40)	55.4% (62)	8.0% (9)	0.9% (1)	112	1.7
452 - Digital Signal Processing Design Laboratory	0	14.3% (4)	60.7% (17)	25.0% (7)	28	3.1
455 - Digital Communication Signals and Systems	0	71.4% (5)	28.6% (2)	0	7	2.2

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458 - Biomedical Instrumentation & Design	25.0% (1)	75.0% (3)	0	0	4	1.7
460 - Control Systems Analysis and Design	13.6% (8)	74.6% (44)	11.7% (7)	0.0%	59	1.9
461 - Embedded Control Systems	18.3% (11)	53.3% (32)	21.7% (13)	6.7% (4)	60	2.1
463 - Power Systems Design and Operation	33.3% (2)	33.3% (2)	33.3% (2)	0	6	2.0
467 - Autonomous Robotics	5.0% (1)	0	20.0% (4)	75.0% (15)	20	3.6
470 - Computer Architecture	1.7% (1)	1.7% (1)	12.1% (7)	84.5% (49)	58	3.7
475 - Introduction to Cryptography	15.3% (9)	66.1% (39)	17.0% (10)	1.7% (1)	59	2.0
477 - Introduction to Algorithms	0	61.1% (11)	22.2% (4)	16.7% (3)	18	2.5
478 - Logic Circuit Synthesis and Optimization	12.1% (4)	72.7% (24)	15.2% (5)	0	33	2.0
480 - Logic and Formal Verification	100.0% (1)	0	0	0	1	1.0
481 - Software Engineering	17.1% (7)	51.2% (21)	29.3% (12)	2.4% (1)	41	2.1
482 - Introduction to Operating Systems	0.6% (1)	5.1% (8)	56.4% (88)	37.8% (59)	156	3.3
483 - Compiler Construction	5.6% (2)	41.7% (15)	44.4% (16)	8.3% (3)	36	2.5
484 - Database Management Systems	14.7% (20)	74.3% (101)	9.6% (13)	1.5% (2)	136	1.9
485 - Web Database and Information Systems	7.3% (3)	53.7% (22)	31.7% (13)	7.3% (3)	41	2.3
487 - Interactive Computer Graphics	14.3% (1)	85.7% (6)	0	0	7	1.8
489 - Computer Networks	17.6% (6)	58.8% (20)	14.7% (5)	8.8% (3)	34	2.1
492 - Introduction to Artificial Intelligence	8.5% (7)	72.0% (59)	19.5% (16)	0	82	2.1
493 - User Interface Development	23.5% (8)	58.8% (20)	17.6% (6)	0	34	1.9
494 - Computer Game Design and Development	3.8% (1)	15.4% (4)	46.2% (12)	34.6% (9)	26	3.1
496 - Major Design Experience Professionalism	86.0% (80)	12.9% (12)	0	1.1% (1)	93	1.1
497 - EECS Major Design Projects	40.0% (12)	33.3% (10)	10.0% (3)	16.7% (5)	30	2.0