

**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 Score (1=Light, 4=Extremely Heavy)
182 - Building Applications for Info. Systems	<b>66.7% (6)</b>	22.2% (2)	0	11.1% (1)	9	1.56
183 - Elementary Programming Concepts	<b>50.5% (54)</b>	43.9% (47)	3.7% (4)	1.9% (2)	107	1.57
203 - Discrete Mathematics	24.3% (118)	<b>62.1% (301)</b>	11.7% (57)	1.9% (9)	485	1.91
215 - Introduction to Circuits	2.7% (8)	<b>45.1% (132)</b>	43.7% (128)	8.5% (25)	293	2.58
216 - Introduction to Signals and Systems	4.7% (12)	<b>50.4% (128)</b>	37.4% (95)	7.5% (19)	254	2.48
230 - Electromagnetics I	7.4% (10)	<b>61.0% (83)</b>	28.7% (39)	2.9% (4)	136	2.27
250 - Electronic Sensing Systems	<b>80.0% (12)</b>	6.7% (1)	13.3% (2)	0	15	1.33
270 - Introduction to Logic Design	7.7% (23)	<b>67.3% (200)</b>	21.9% (65)	3.0% (9)	297	2.20
280 - Programming and Introductory Data Structures	5.9% (37)	<b>59.3% (374)</b>	29.3% (185)	5.5% (35)	631	2.35
281 - Data Structures and Algorithms	0.7% (3)	13.5% (62)	<b>62.2% (286)</b>	23.7% (109)	460	3.09
282 - Information Systems Design & Programming	30.0% (3)	<b>50.0% (5)</b>	20.0% (2)	0	10	1.90
283 - Programming for Science and Engineering	0	<b>100.0% (2)</b>	0	0	2	2.00
285 - A Programming Language or Computer System	<b>54.7% (29)</b>	32.1% (17)	11.3% (6)	1.9% (1)	53	1.60

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301 - Probabilistic Methods in Engineering	16.1% (14)	<b>70.1% (61)</b>	12.6% (11)	1.1% (1)	87	1.99
311 - Electronic Circuits	0	34.9% (22)	<b>50.8% (32)</b>	14.3% (9)	63	2.79
312 - Digital Integrated Circuits	0	40.6% (26)	<b>51.6% (33)</b>	7.8% (5)	64	2.67
314 - Electrical Circuits, Systems, and Applications	20.0% (3)	<b>53.3% (8)</b>	26.7% (4)	0	15	2.07
320 - Introduction to Semiconductor Devices	13.9% (22)	<b>71.5% (113)</b>	12.7% (20)	1.9% (3)	158	2.03
330 - Electromagnetics II	6.0% (2)	<b>57.7% (19)</b>	30.3% (10)	6.0% (2)	33	2.36
334 - Principles of Optics	<b>48.0% (24)</b>	40.0% (20)	6.0% (3)	6.0% (3)	50	1.70
370 - Introduction to Computer Organization	10.8% (42)	<b>67.0% (260)</b>	20.9% (81)	1.3% (5)	388	2.13
373 - Design of Microprocessor Based Systems	0	8.5% (7)	<b>62.2% (51)</b>	29.3% (24)	82	3.21
376 - Foundations of Computer Science	31.4% (66)	<b>57.1% (120)</b>	10.5% (22)	1.0% (2)	210	1.81
381 - Object Oriented and Advanced Programming	5.5% (3)	3.6% (2)	5.5% (3)	<b>85.4% (47)</b>	55	3.71
382 - Internet-scale Computing	<b>50.0% (2)</b>	<b>50.0% (2)</b>	0	0	4	1.50
388 - Introduction to Computer Security	20.8% (11)	<b>58.5% (31)</b>	17.0% (9)	3.7% (2)	53	2.04

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average Score (1=Light, 4=Extremely Heavy)
406 - High-Tech Entrepreneurship (ENGR 406)	<b>75.0% (6)</b>	12.5% (1)	0	12.5% (1)	8	1.50
410 - Patent Fundamentals for Engr. (ENGR 410)	0	<b>80.0% (4)</b>	20.0% (1)	0	5	2.20
411 - Microwave Circuits I	0	35.7% (5)	<b>64.3% (9)</b>	0	14	2.64
413 - Monolithic Amplifier Circuits	0	27.3% (3)	<b>36.4% (4)</b>	<b>36.4% (4)</b>	11	3.09
414 - Introduction to MEMS	9.1% (1)	36.4% (4)	<b>54.5% (6)</b>	0	11	2.45
417 - Electrical Biophysics	<b>42.9% (3)</b>	<b>42.9% (3)</b>	14.3% (1)	0	7	1.71
418 - Power Electronics	0	37.5% (3)	<b>62.5% (5)</b>	0	8	2.63
419 - Electric Machinery and Drives	16.7% (1)	<b>83.3% (5)</b>	0	0	6	1.83
421 - Properties of Transistors	0	<b>100.0% (1)</b>	0	0	1	2.00
423 - Solid-State Device Laboratory	0	25.0% (1)	<b>75.0% (3)</b>	0	4	2.75
425 - Integrated Microsystems Laboratory	0	16.7% (1)	<b>50.0% (3)</b>	33.3% (2)	6	3.17
427 - VSLI Design I	3.1% (1)	0	15.6% (5)	<b>81.3% (26)</b>	32	3.75
429 - Semiconductor Optoelectronic Devices	<b>42.9% (3)</b>	28.6% (2)	28.6% (2)	0	7	1.86
430 - Radiowave Propagation and Link Design	0	20.0% (3)	<b>73.3% (11)</b>	6.7% (1)	15	2.87
434 - Principles of Photonics	<b>50.0% (1)</b>	<b>50.0% (1)</b>	0	0	2	1.50
438 - Advanced Lasers and Optics Laboratory	0	<b>66.7% (2)</b>	33.3% (1)	0	3	2.33
441 - Mobile App Development for Entrepreneurs	35.7% (10)	<b>46.4% (13)</b>	17.9% (5)	0	28	1.82
442 - Computer Vision	9.1% (1)	27.3% (3)	<b>45.5% (5)</b>	18.2% (2)	11	2.73
445 - Introduction to Machine Learning	14.3% (1)	28.6% (2)	<b>42.9% (3)</b>	14.3% (1)	7	2.57

451 - Digital Signal Processing and Analysis	35.7% (40)	<b>55.4% (62)</b>	8.0% (9)	0.9% (1)	112	1.74
452 - Digital Signal Processing Design Laboratory	0	14.3% (4)	<b>60.7% (17)</b>	25.0% (7)	28	3.11
455 - Digital Communication Signals and Systems	0	<b>71.4% (5)</b>	28.6% (2)	0	7	2.29

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458 - Biomedical Instrumentation & Design	25.0% (1)	<b>75.0% (3)</b>	0	0	4	1.75
460 - Control Systems Analysis and Design	13.6% (8)	<b>74.6% (44)</b>	11.7% (7)	0.0%	59	1.98
461 - Embedded Control Systems	18.3% (11)	<b>53.3% (32)</b>	21.7% (13)	6.7% (4)	60	2.17
463 - Power Systems Design and Operation	<b>33.3% (2)</b>	<b>33.3% (2)</b>	<b>33.3% (2)</b>	0	6	2.00
467 - Autonomous Robotics	5.0% (1)	0	20.0% (4)	<b>75.0% (15)</b>	20	3.65
470 - Computer Architecture	1.7% (1)	1.7% (1)	12.1% (7)	<b>84.5% (49)</b>	58	3.79
475 - Introduction to Cryptography	15.3% (9)	<b>66.1% (39)</b>	17.0% (10)	1.7% (1)	59	2.05
477 - Introduction to Algorithms	0	<b>61.1% (11)</b>	22.2% (4)	16.7% (3)	18	2.56
478 - Logic Circuit Synthesis and Optimization	12.1% (4)	<b>72.7% (24)</b>	15.2% (5)	0	33	2.03
480 - Logic and Formal Verification	<b>100.0% (1)</b>	0	0	0	1	1.00
481 - Software Engineering	17.1% (7)	<b>51.2% (21)</b>	29.3% (12)	2.4% (1)	41	2.17
482 - Introduction to Operating Systems	0.6% (1)	5.1% (8)	<b>56.4% (88)</b>	37.8% (59)	156	3.31
483 - Compiler Construction	5.6% (2)	41.7% (15)	<b>44.4% (16)</b>	8.3% (3)	36	2.56
484 - Database Management Systems	14.7% (20)	<b>74.3% (101)</b>	9.6% (13)	1.5% (2)	136	1.98
485 - Web Database and Information Systems	7.3% (3)	<b>53.7% (22)</b>	31.7% (13)	7.3% (3)	41	2.39
487 - Interactive Computer Graphics	14.3% (1)	<b>85.7% (6)</b>	0	0	7	1.86
489 - Computer Networks	17.6% (6)	<b>58.8% (20)</b>	14.7% (5)	8.8% (3)	34	2.15
492 - Introduction to Artificial Intelligence	8.5% (7)	<b>72.0% (59)</b>	19.5% (16)	0	82	2.11
493 - User Interface Development	23.5% (8)	<b>58.8% (20)</b>	17.6% (6)	0	34	1.94
494 - Computer Game Design and Development	3.8% (1)	15.4% (4)	<b>46.2% (12)</b>	34.6% (9)	26	3.12
496 - Major Design Experience Professionalism	<b>86.0% (80)</b>	12.9% (12)	0	1.1% (1)	93	1.16
497 - EECS Major Design Projects	<b>40.0% (12)</b>	33.3% (10)	10.0% (3)	16.7% (5)	30	2.03