

**Electrical Engineering & Computer Science Undergraduate Workload Survey (Spring 2018) [n= 617]**

Program	Computer Engineering: 12%	Computer Science: 67%	Electrical Engineering: 14%	
	Data Science: 3%	Computer Science Minor: 3%	Electrical Engineering Minor: 1%	
Gender	Male: 77%	Female: 21%	Prefer not to answer: 2%	
Graduation Year	16/17: 5.2%	17/18: 24.6%	18/19: 31.0%	19/20: 29.8%
	20/21: 9.4%			

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extra)
101 - Thriving in a Digital World	<b>59.5% (50)</b>	40.5% (34)	0	0	84	1.4
183 - Elementary Programming Concepts	<b>53.4% (79)</b>	41.2% (61)	5.4% (8)	0	148	1.5
201 - Computer Science Pragmatics	0	<b>100% (5)</b>	0	0	5	2.0
203 - Discrete Mathematics	18.0% (82)	<b>69.0% (314)</b>	11.7% (53)	1.3% (6)	455	1.9
215 - Introduction to Circuits	9.0% (14)	<b>67.1% (104)</b>	21.3% (33)	2.6% (4)	155	2.1
216 - Introduction to Signals and Systems	0.9% (1)	37.5% (42)	<b>50.9% (57)</b>	10.7% (12)	112	2.7
230 - Electromagnetics I	16.7% (10)	<b>70.0% (42)</b>	13.3% (8)	0.0%	60	1.9
250 - Electronic Sensing Systems	<b>83.3% (5)</b>	0	0	16.7% (1)	6	1.5
270 - Introduction to Logic Design	3.9% (5)	<b>65.1% (84)</b>	27.9% (36)	3.1% (4)	129	2.3
280 - Programming and Introductory Data Structures	6.4% (34)	<b>68.1% (362)</b>	23.9% (127)	1.7% (9)	532	2.2
281 - Data Structures and Algorithms	0.5% (2)	14.3% (64)	<b>58.9% (264)</b>	26.3% (118)	448	3.1
285 - A Programming Language or Computer System	<b>54.6% (12)</b>	36.4% (8)	9.1% (2)	0	22	1.5

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extra)
301 - Probabilistic Methods in Engineering	29.0% (18)	<b>50.0% (31)</b>	19.4% (12)	1.6% (1)	62	1.9
311 - Electronic Circuits	0	22.9% (8)	<b>62.9% (22)</b>	14.3% (5)	35	2.9
312 - Digital Integrated Circuits	4.0% (1)	32.0% (8)	<b>60.0% (15)</b>	4.0% (1)	25	2.6
314 - Electrical Circuits, Systems, and Applications	25.0% (1)	25.0% (1)	25.0% (1)	25.0% (1)	4	2.5
320 - Introduction to Semiconductor Devices	24.2% (15)	<b>50.0% (31)</b>	25.8% (16)	0	62	2.0
330 - Electromagnetics II	8.3% (1)	<b>58.3% (7)</b>	33.3% (4)	0	12	2.2
334 - Principles of Optics	<b>64.0% (16)</b>	32.0% (8)	4.0% (1)	0	25	1.4
351 - Introduction to Digital Signal Processing	36.6% (15)	<b>53.7% (22)</b>	7.3% (3)	2.4% (1)	41	1.7
367 - Introduction to Autonomous Robotics	25.0% (1)	75.0% (3)	0	0	4	1.7
370 - Introduction to Computer Organization	9.6% (36)	<b>66.0% (248)</b>	22.3% (84)	2.1% (8)	376	2.1
373 - Introduction to Embedded Systems Design	0	7.7% (4)	<b>65.4% (34)</b>	27.0% (14)	52	3.1
376 - Foundations of Computer Science	14.2% (37)	<b>60.2% (157)</b>	22.2% (58)	3.5% (9)	261	2.1
381 - Object Oriented and Advanced Programming	0	0	24.0% (6)	<b>76.0% (19)</b>	25	3.7
388 - Introduction to Computer Security	25.6% (52)	<b>64.0% (130)</b>	9.9% (20)	0.5% (1)	203	1.8

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extra)
411 - Microwave Circuits I	0	0	0	0	0	0.0
413 - Monolithic Amplifier Circuits	0	<b>80.0% (4)</b>	20.0% (1)	0	5	2.2
414 - Introduction to MEMS	18.2% (2)	<b>81.9% (9)</b>	0	0	11	1.8
417 - Electrical Biophysics	33.3% (2)	<b>66.7% (4)</b>	0	0	6	1.6
418 - Power Electronics	0	20.0% (1)	<b>60.0% (3)</b>	20.0% (1)	5	3.0
419 - Electric Machinery and Drives	0	<b>53.9% (7)</b>	38.5% (5)	7.7% (1)	13	2.5
421 - Properties of Transistors	0	<b>100.0% (1)</b>	0	0	1	2.0
423 - Solid-State Device Laboratory	50.0% (1)	50.0% (1)	0	0	2	1.5
425 - Integrated Microsystems Laboratory	0	0	33.3% (1)	<b>66.7% (2)</b>	3	3.6
427 - VSLI Design I	0	11.1% (1)	11.1% (1)	<b>77.8% (7)</b>	9	3.6
429 - Semiconductor Optoelectronic Devices	33.3% (1)	33.3% (1)	33.3% (1)	0	3	2.0
430 - Wireless Link Design	0	0	0	<b>100.0% (1)</b>	1	4.0
434 - Principles of Photonics	0	25.0% (1)	<b>50.0% (2)</b>	25.0% (1)	4	3.0
435 - Fourier Optics	0	0	0	0	0	0.0
438 - Advanced Lasers and Optics Laboratory	20.0% (1)	<b>60.0% (3)</b>	20.0% (1)	0	5	2.0

441 - Mobile App Development for Entrepreneurs	<b>72.1% (31)</b>	21.0% (9)	7.0% (3)	0	43	1.3:
442 - Computer Vision	13.0% (3)	<b>52.2% (12)</b>	30.4% (7)	4.4% (1)	23	2.6
443 - Senior Thesis	0	33.3% (1)	<b>66.7% (2)</b>	0	3	2.5
444 - Analysis of Societal Networks	0	<b>100.0% (1)</b>	0	0	1	2.0
445 - Introduction to Machine Learning	2.3% (2)	10.2% (9)	<b>61.4% (54)</b>	26.1% (23)	88	3.1
452 - Digital Signal Processing Design Laboratory	0	18.8% (3)	<b>43.8% (7)</b>	37.5% (6)	16	3.1
453 - Applied Matrix Algorithms for Signal Processing	0	0	0	0	0	0.0
455 - Wireless Communication Systems	20.0% (1)	<b>60.0% (3)</b>	20.0% (1)	0	5	2.0

	Light	Moderate	Heavy	Extremely Heavy	Response Total	Average (1=Light, 4=Extra)
458 - Biomedical Instrumentation & Design	<b>57.1% (4)</b>	42.9% (3)	0	0	7	1.4
460 - Control Systems Analysis and Design	19.4% (6)	<b>77.4% (24)</b>	0	3.2% (1)	31	1.8
461 - Embedded Control Systems	14.3% (6)	<b>59.5% (25)</b>	23.8% (10)	2.4% (1)	42	2.1
463 - Power Systems Design and Operation	25.0% (1)	<b>75.0% (3)</b>	0	0	4	1.7
464 - Hands-On Robotics	0	0	<b>100.0% (1)</b>	0	1	3.0
467 - Autonomous Robotics	<b>0</b>	0	25.0% (2)	<b>75.0% (6)</b>	8	3.7
470 - Computer Architecture	0	0	5.3% (1)	<b>94.8% (18)</b>	19	3.9
473 - Advanced Embedded Systems	0	0	44.4% (4)	<b>55.6% (5)</b>	9	3.5
475 - Introduction to Cryptography	20.8% (5)	<b>66.7% (16)</b>	8.3% (2)	4.2% (1)	24	1.9
477 - Introduction to Algorithms	0	<b>83.3% (5)</b>	16.7% (1)	0	6	2.1
478 - Logic Circuit Synthesis and Optimization	11.1% (1)	<b>77.8% (7)</b>	11.1% (1)	0	9	2.0
480 - Social Computing Systems	20.0% (1)	<b>80.0% (4)</b>	0	0	5	1.8
481 - Software Engineering	21.0% (10)	<b>68.8% (33)</b>	8.3% (4)	2.1% (1)	48	1.9
482 - Introduction to Operating Systems	0.6% (1)	0	17.0% (27)	<b>82.4% (131)</b>	159	3.8
483 - Compiler Construction	8.7% (2)	34.8% (8)	<b>52.2% (12)</b>	4.4% (1)	23	2.5
484 - Database Management Systems	0	<b>68.4% (52)</b>	30.3% (23)	1.3% (1)	76	2.3
485 - Web Database and Information Systems	5.1% (9)	<b>51.4% (90)</b>	40.6% (71)	2.9% (5)	175	2.4
486 - Informational Retrieval and Web Search	<b>60.6% (20)</b>	36.4% (12)	3.0% (1)	0	33	1.4
487 - Interactive Computer Graphics	0	0	0	0	0	0.0
489 - Computer Networks	14.3% (1)	42.9% (3)	42.9% (3)	0	7	2.2
490 - Programming Languages	10.0% (1)	<b>60.0% (6)</b>	30.0% (3)	0	10	2.2
491 - Introduction to Distributed Systems	0	23.1% (3)	<b>61.5% (8)</b>	15.4% (2)	13	2.9
492 - Introduction to Artificial Intelligence	32.1% (18)	<b>58.9% (33)</b>	7.1% (4)	1.8% (1)	56	1.7
493 - User Interface Development	<b>75.0% (21)</b>	25.0% (7)	0	0	28	1.2
494 - Computer Game Design and Development	0	12.5% (3)	8.3% (2)	<b>79.2% (19)</b>	24	3.6
496 - Major Design Experience Professionalism	<b>91.9% (57)</b>	4.8% (3)	0	3.2% (2)	62	1.1
497 - EECS Major Design Projects	69.6% (16)	26.1% (6)	4.4% (1)	0	23	1.3