

UNIVERSITY-WIDE COUNCIL ON ENGINEERING  
EDUCATION

# UCEE

2019-2020

Henrey Samueli School of  
Engineering and Applied Sciences

# **UCLA** **Samueli** School of Engineering

## **Report to the University-Wide Council on Engineering Education (UCEE)**

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Completed Fall 2019

**Admission, Enrollment & Degree Statistics**

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**Fall Quarter Enrollment\***

Undergraduate Enrollment

	<b>2017</b>	<b>2018</b>	<b>2019</b>
Aerospace Engineering	201	223	231
Bioengineering	285	291	293
Chemical Engineering	336	323	323
Computer Engineering**	1	55	95
Civil Engineering	303	325	328
Computer Science	763	884	964
Computer Science & Engineering	326	356	297
Electrical Engineering	625	628	578
Materials Engineering	113	122	143
Mechanical Engineering	529	549	568
Undeclared Engineering	145	168	136
<b>Total Undergraduate Enrollment</b>	<b>3,627</b>	<b>3,924</b>	<b>3,956</b>

Graduate Enrollment

	<b>2017</b>	<b>2018</b>	<b>2019</b>
Master's Degree	1298	1204	1110
Engineer	N/A	N/A	1
Doctoral Degree	967	1033	1082
<b>Total Graduate Enrollment</b>	<b>2,265</b>	<b>2,237</b>	<b>2,193</b>

**Total Samueli Engineering Enrollment**      **5,892**      **6,161**      **6,149**

**UCLA Campus Undergraduate Total**      **31,417**      **31,572**      **32,354**

**UCLA Campus Total**      **44,578**      **44,530**      **45,302**

*\*As reported by the Office of Analysis and Information Management based on November 2019 enrollment numbers*

*Dual degree students are only counted once for enrollment.*

**Undergraduate Freshman Admission Statistics\***

	<i>Applications</i>	<i>Admits</i>	<i>Admit Rate</i>	<i>Positive SJR</i>	<i>Enrolled</i>
<b>2019-2020</b>					
Aerospace Engineering	1,726	145	8.4%	52	51
Bioengineering	2,251	259	11.5%	69	69
Chemical Engineering	1,090	210	19.3%	71	71
Civil Engineering	1,623	182	11.2%	77	77
Computer Science	7,514	648	8.6%	140	140
Computer Science & Engineering	2,889	219	7.6%	48	48
Computer Engineering	1,048	49	4.7%	12	12
Electrical Engineering	1,334	237	17.8%	102	98
Materials Engineering	377	75	19.9%	30	30
Mechanical Engineering	3,239	286	8.8%	115	114
Undeclared Engineering	2,713	195	7.2%	62	62
<b>Total</b>	<b>25,804</b>	<b>2,505</b>	<b>9.7%</b>	<b>778</b>	<b>772</b>
<b>2018-2019</b>					
Aerospace Engineering	1,701	130	7.6%	50	48
Bioengineering	2,383	281	11.8%	71	68
Chemical Engineering	1,115	272	24.4%	70	67
Civil Engineering	1,694	247	14.6%	97	94
Computer Science	6,943	567	8.2%	147	138
Computer Science & Engineering	3,197	377	11.8%	111	104
Computer Engineering	1,102	66	6.0%	22	20
Electrical Engineering	1,517	318	21.0%	147	140
Materials Engineering	357	118	33.1%	47	43
Mechanical Engineering	3,406	346	10.2%	137	123
Undeclared Engineering	2,780	265	9.5%	83	79
<b>Total</b>	<b>26,195</b>	<b>2,987</b>	<b>11.4%</b>	<b>982</b>	<b>924</b>
<b>2017-2018</b>					
Aerospace Engineering	1,496	137	9.2%	47	46
Bioengineering	2,217	324	14.6%	72	72
Chemical Engineering	1,305	283	21.7%	73	73
Civil Engineering	1,520	216	14.2%	68	68
Computer Science	5,946	581	9.8%	112	112
Computer Science & Engineering	3,666	427	11.6%	99	99
Electrical Engineering	1,444	330	22.9%	115	115
Materials Engineering	350	123	35.1%	24	24
Mechanical Engineering	3,263	318	9.7%	86	86
Undeclared Engineering	2,887	293	10.1%	95	95
<b>Total</b>	<b>24,094</b>	<b>3,032</b>	<b>12.6%</b>	<b>791</b>	<b>790</b>

*As Reported by SEASnet on 12/09/2019*

Undergraduate Transfer Admission Statistics*	<i>Applications</i>	<i>Admits</i>	<i>Admit Rate</i>	<i>Positive SJR</i>	<i>Enrolled</i>
<b>2019-2020</b>					
Aerospace Engineering	176	26	14.8%	17	17
Bioengineering	150	20	13.3%	8	8
Chemical Engineering	206	55	26.7%	25	24
Civil Engineering	199	45	22.6%	17	17
Computer Science	1,633	89	5.5%	54	54
Computer Science & Engineering	291	43	14.8%	18	18
Computer Engineering	124	12	9.7%	7	7
Electrical Engineering	399	92	23.1%	53	51
Materials Engineering	65	12	18.5%	6	6
Mechanical Engineering	517	76	14.7%	27	26
<b>Total</b>	<b>3,760</b>	<b>470</b>	<b>12.5%</b>	<b>232</b>	<b>228</b>
<b>2018-2019</b>					
Aerospace Engineering	174	24	13.8%	13	13
Bioengineering	157	17	10.8%	8	8
Chemical Engineering	203	42	20.7%	15	15
Civil Engineering	219	40	18.3%	13	13
Computer Science	1,496	115	7.7%	73	73
Computer Science & Engineering	330	71	21.5%	29	29
Computer Engineering	122	17	13.9%	6	6
Electrical Engineering	432	82	19.0%	40	40
Materials Engineering	88	8	9.1%	3	3
Mechanical Engineering	553	47	8.5%	25	24
<b>Total</b>	<b>3,774</b>	<b>463</b>	<b>12.3%</b>	<b>225</b>	<b>224</b>
<b>2016-2017</b>					
Aerospace Engineering	163	25	15.3%	15	15
Bioengineering	165	17	10.3%	8	8
Chemical Engineering	241	62	25.7%	25	24
Civil Engineering	221	38	17.2%	18	18
Computer Science	1,295	69	5.3%	40	40
Computer Science & Engineering	374	45	12.0%	14	14
Electrical Engineering	413	102	24.7%	59	59
Materials Engineering	68	14	20.6%	5	5
Mechanical Engineering	579	59	10.2%	21	21
<b>Total</b>	<b>3,519</b>	<b>431</b>	<b>12.2%</b>	<b>205</b>	<b>204</b>

## Graduate Admission Statistics\*

2019-2020	Applicants			Admits			Enrolled		
	Domestic	Foreign	Total	Domestic	Foreign	Total	Domestic	Foreign	Total
Aerospace Engineering	88	50	138	46	9	55	16	3	19
Bioengineering	225	225	450	72	48	120	17	16	33
Chemical Engineering	94	251	345	20	33	53	5	22	27
Civil Engineering	143	288	431	115	154	269	35	49	84
Computer Science	455	2556	3,011	113	197	310	53	111	164
Electrical & Computer Engineering**	235	1644	1,879	132	397	529	42	139	181
Manufacturing Engineering	3	2	5	2	0	2	1	0	1
Materials Science & Engineering	65	303	368	38	84	122	6	22	28
Mechanical Engineering	196	493	689	102	147	249	21	34	55
MS Engineering Online	194	19	213	149	10	159	100	7	107
<b>Total</b>	<b>1,698</b>	<b>5,831</b>	<b>7,529</b>	<b>743</b>	<b>1,079</b>	<b>1,822</b>	<b>296</b>	<b>403</b>	<b>699</b>
% Foreign		77.45%			59.22%			57.65%	

2018-2019	Applicants			Admits			Enrolled		
	Domestic	Foreign	Total	Domestic	Foreign	Total	Domestic	Foreign	Total
Aerospace Engineering	125	92	217	61	21	82	14	3	17
Bioengineering	213	241	454	67	61	128	22	26	48
Chemical Engineering	122	233	355	21	29	50	10	18	28
Civil Engineering	163	290	453	115	147	262	42	50	92
Computer Science	388	2,448	2,836	96	227	323	50	110	160
Electrical Engineering	272	1,693	1,965	134	241	375	47	73	120
Manufacturing Engineering	2	4	6	1	1	2	0	0	0
Materials Science & Engineering	91	314	405	70	154	224	26	45	71
Mechanical Engineering	250	672	922	150	197	347	49	43	92
MS Engineering Online	151	23	174	131	15	146	88	4	92
<b>Total</b>	<b>1,777</b>	<b>6,010</b>	<b>7,787</b>	<b>846</b>	<b>1,093</b>	<b>1,939</b>	<b>348</b>	<b>372</b>	<b>720</b>
% Foreign		77.18%			56.37%			51.67%	

2017-2018	Applicants			Admits			Enrolled		
	Domestic	Foreign	Total	Domestic	Foreign	Total	Domestic	Foreign	Total
Aerospace Engineering	93	60	153	55	10	65	21	3	24
Bioengineering	204	157	361	53	26	79	18	9	27
Chemical Engineering	128	242	370	15	17	32	9	8	17
Civil Engineering	152	350	502	123	190	313	45	66	111
Computer Science	321	2,051	2,372	92	217	309	44	128	172
Electrical Engineering	228	1,533	1,761	135	344	479	58	180	238
Manufacturing Engineering	3	7	10	0	0	0	0	0	0
Materials Science & Engineering	73	288	361	53	136	189	19	31	50
Mechanical Engineering	226	544	770	139	161	300	40	53	93
MS Engineering Online	171	37	208	134	16	150	108	9	117
<b>Total</b>	<b>1,599</b>	<b>5,269</b>	<b>6,868</b>	<b>799</b>	<b>1,117</b>	<b>1,916</b>	<b>362</b>	<b>487</b>	<b>849</b>
% Foreign		76.72%			58.30%			57.36%	

\*\* Starting Fall 2018 Electrical Engineering was renamed Electrical and Computer Engineering

\*As reported by SEASnet on 12/09/2019

### Undergraduate Enrollment\*

#### Foreign Students, Minorities, and Women

	Total Enrolled	Females Enrolled	Percent Female	Minorities Enrolled	Percent Minorities	Foreign Enrolled	Percent Foreign
2019**	3,956	1,097	27.7%	446	11.3%	495	12.5%
2018**	3,924	1052	26.8%	404	10.3%	541	13.8%
2017**	3,627	922	25.4%	361	10.0%	696	19.2%

#### Gender Breakdown by Major

B.S. Major	Male	Female	Unknown	% Female
Aerospace Engineering	184	46	1	19.9%
Bioengineering	130	163	0	55.6%
Chemical Engineering	195	127	1	39.3%
Civil Engineering	188	140	0	42.7%
Computer Engineering	78	17	0	17.9%
Computer Science	744	213	7	22.1%
Computer Science & Engineering	227	70	0	23.6%
Electrical Engineering	474	101	3	17.5%
Materials Engineering	87	56	0	39.2%
Mechanical Engineering	442	124	2	21.8%
Undeclared Engineering	96	40	0	29.4%
<b>Total</b>	<b>2,845</b>	<b>1,097</b>	<b>14</b>	<b>27.7%</b>

#### Undergraduate Enrollment - Foreign & Domestic

B.S. Major	Domestic	Foreign	% Foreign
Aerospace Engineering	218	13	5.6%
Bioengineering	279	14	4.8%
Chemical Engineering	296	27	8.4%
Civil Engineering	304	24	7.3%
Computer Engineering	85	10	10.5%
Computer Science	761	203	21.1%
Computer Science & Engineering	266	31	10.4%
Electrical Engineering	490	88	15.2%
Materials Engineering	131	12	8.4%
Mechanical Engineering	514	54	9.5%
Undeclared Engineering	117	19	14.0%
<b>Total</b>	<b>3,461</b>	<b>495</b>	<b>12.5%</b>

\*As reported by the Office of Analysis and Information Management in November 2019

\*\*As of 2011, a new ethnicity category called "2 or more ethnicities" was added that is not included under minorities

\*\*\* Total for gender breakdown by major does not include 13 students who declined to identify their sex



**Graduate Enrollment\***

**Foreign Students, Minorities, and Women**

	Total Enrolled	Females Enrolled	Percent Female	Minorities Enrolled	Percent Minorities	Foreign Enrolled	Percent Foreign
<b>2019</b>	2193	495	22.6%	155	7.1%	1214	55.4%
<b>2018</b>	2237	533	23.8%	130	5.8%	1280	57.2%
<b>2017</b>	2265	506	22.3%	119	5.3%	1217	53.7%

**Gender Breakdown by Major**

<i>M.S.</i>	<i>Fall 2017</i>			<i>Fall 2018</i>			<i>Fall 2019</i>		
	<i>Female</i>	<i>Male</i>	<i>Total</i>	<i>Female</i>	<i>Male</i>	<i>Total</i>	<i>Female</i>	<i>Male</i>	<i>Total</i>
Aerospace Engineering	2	25	27	2	19	21	1	18	19
Bioengineering	10	18	28	10	15	25	12	17	29
Chemical Engineering	2	12	14	1	16	17	4	24	28
Civil Engineering	41	73	114	36	65	101	35	45	80
Computer Science	81	158	239	81	162	243	58	184	242
Electrical Engineering	69	279	348	60	220	280	47	181	228
Materials Science & Engineering	23	37	60	23	50	73	15	41	56
Manufacturing Engineering	0	0	0	0	0	0	0	1	1
Mechanical Engineering	14	101	115	9	76	85	12	53	65
MS Engineering Online	67	286	353	77	282	359	77	285	362
<b><i>M.S. Sub-Total</i></b>	<b>309</b>	<b>989</b>	<b>1298</b>	<b>299</b>	<b>905</b>	<b>1204</b>	<b>261</b>	<b>849</b>	<b>1110</b>

<i>Ph.D.</i>	<i>Fall 2017</i>			<i>Fall 2018</i>			<i>Fall 2019</i>		
	<i>Female</i>	<i>Male</i>	<i>Total</i>	<i>Female</i>	<i>Male</i>	<i>Total</i>	<i>Female</i>	<i>Male</i>	<i>Total</i>
Aerospace Engineering	1	37	38	2	29	31	4	28	32
Bioengineering	38	69	107	38	84	122	40	75	115
Chemical Engineering	23	63	86	18	65	83	23	60	83
Civil Engineering	22	50	72	24	48	72	33	60	93
Computer Science	31	117	148	38	138	176	39	152	191
Electrical Engineering†	29	201	230	34	200	234	34	222	256
Materials Science & Engineering	28	93	121	32	97	129	32	84	116
Manufacturing Engineering	0	0	0	0	0	0	0	0	0
Mechanical Engineering	25	140	165	29	158	187	29	167	196
<b><i>Ph.D. Sub-Total</i></b>	<b>197</b>	<b>770</b>	<b>967</b>	<b>215</b>	<b>819</b>	<b>1034</b>	<b>234</b>	<b>848</b>	<b>1082</b>
<b><i>M.S. and Ph.D. Total</i></b>	<b>506</b>	<b>1759</b>	<b>2265</b>	<b>514</b>	<b>1724</b>	<b>2238</b>	<b>495</b>	<b>1697</b>	<b>2192</b>

**M.S. & Ph.D. Graduate Enrollment– Foreign & Domestic**

	<b>Total</b>		<b>Foreign</b>		<b>Domestic</b>		<b>Total</b>	
	<b>M.S.</b>	<b>Ph.D.</b>	<b>M.S.</b>	<b>Ph.D.</b>	<b>M.S.</b>	<b>Ph.D.</b>	<b>Domestic</b>	<b>Foreign</b>
<b>2019</b>	1110	1083	479	734	631	349	980	1213
<b>2018</b>	1204	1033	563	692	641	341	982	1255
<b>2017</b>	1298	967	647	633	651	334	985	1280

\*As reported by the Office of Analysis and Information Management in November 2019

†One student is working towards an Engineering Degree



**Degrees Awarded**

**Undergraduate Degrees Awarded by Major\***

	<b>2016-2017</b>	<b>2017-2018</b>	<b>2018-2019</b>
Aerospace Engineering	44	38	41
Bioengineering	65	51	67
Chemical Engineering	91	82	82
Civil Engineering	69	71	60
Computer Science	187	215	230
Computer Science & Engineering	36	42	49
Computer Engineering	N/A	N/A	4
Electrical Engineering	129	154	137
Materials Engineering	35	28	20
Mechanical Engineering	129	137	144
<b>B.S. Total</b>	<b>785</b>	<b>818</b>	<b>834</b>

**Graduate Degrees Awarded by Major**

	<b>2016-2017</b>	<b>2017-2018</b>	<b>2018-2019</b>
Aerospace Engineering	11	24	7
Bioengineering	37	26	19
Chemical Engineering	8	9	7
Civil Engineering	109	94	87
Computer Science	110	111	152
MS Engineering Online	114	140	116
Electrical Engineering	204	169	207
Materials Science & Engineering	23	28	24
Mechanical Engineering	100	105	71
<b>M.S. Total</b>	<b>716</b>	<b>706</b>	<b>690</b>

	<b>2016-2017</b>	<b>2017-2018</b>	<b>2018-2019</b>
<b>Engineer Degree</b>	<b>0</b>	<b>0</b>	<b>0</b>

	<b>2016-2017</b>	<b>2017-2018</b>	<b>2018-2019</b>
Aerospace Engineering	6	7	3
Bioengineering	29	19	17
Chemical Engineering	13	16	13
Civil Engineering	7	9	12
Computer Science	21	22	22
Electrical Engineering	42	29	31
Materials Science & Engineering	19	22	20
Mechanical Engineering	19	30	13
<b>Ph.D. Total</b>	<b>156</b>	<b>154</b>	<b>131</b>

**Graduate Degree Total**                      **872**                      **860**                      **821**

\*As reported by the Office of Analysis and Information Management in November 2019



**Faculty FTE by Departments**

	<b>2017-2018</b>	<b>2018-2019</b>	<b>2019-2020</b>
Budgeted Faculty	213.21	218.21	218.21
Bioengineering	12.00	13.50	14.50
Chemical Engineering	12.50	13.50	13.50
Civil Engineering	20.50	19.00	20.00
Computer Science	34.67	37.67	36.67
Electrical Engineering	46.33	44.83	45.83
Mechanical & Aerospace Engr	35.00	37.00	36.00
Materials Science & Engineering	12.00	13.00	14.00
Biomedical Engineering IDP	0.00	0.00	0.00
	<b>173.0</b>	<b>178.50</b>	<b>180.50</b>
	<b>filled roster</b>	<b>filled roster</b>	<b>filled roster</b>
<b>Total</b>	<b>FTE</b>	<b>FTE</b>	<b>FTE</b>

*Note: the difference between budgeted FTE and filled roster FTE is used for Teaching Assistants and temporary faculty. These figures are not to be used to report faculty statistics outside the UC System.*

*Note: Any statistical discrepancies in this report with other reported UCLA Samueli statistics, will be due to date statistic audits were queried.*