

UNIVERSITY-WIDE COUNCIL ON ENGINEERING EDUCATION

# UCEE REPORT

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2021-2022

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

## **Report to the University-Wide Council on Engineering Education (UCEE)** Henry Samueli School of Engineering and Applied Science University of California, Los Angeles

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Completed Fall 2021

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**Fall Quarter Enrollment\***

Undergraduate Enrollment

	<b>2019</b>	<b>2020</b>	<b>2021</b>
Aerospace Engineering	231	244	254
Bioengineering	293	291	310
Chemical Engineering	323	308	312
Computer Engineering	95	116	117
Civil Engineering	328	341	356
Computer Science	964	1019	1039
Computer Science & Engineering	297	258	249
Electrical Engineering	578	564	528
Materials Engineering	143	138	143
Mechanical Engineering	568	600	632
Undeclared Engineering	136	79	141
<b>Total Undergraduate Enrollment</b>	<b>3,956</b>	<b>3,958</b>	<b>4,081</b>

Graduate Enrollment

	<b>2019</b>	<b>2020</b>	<b>2021</b>
Master's Degree	748	659	837
Master's of Science Online	362	441	514
Master's of Engineering	0	0	35
Engineer	1	0	0
Doctoral Degree	1082	1088	1117
<b>Total Graduate Enrollment</b>	<b>2,193</b>	<b>2,188</b>	<b>2,503</b>

**Total Samueli Engineering Enrollment**      **6,149**      **6,146**      **6,584**

**UCLA Campus Undergraduate Total**      **31,543**      **31,636**      **32,119**  
**UCLA Campus Total**      **44,371**      **44,589**      **46,113**

*\*As reported by the Office of Analysis and Information Management based on November 2021 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>2021-2022</b>					
Aerospace Engineering	2,269	128	5.6%	50	50
Bioengineering	2,644	259	9.8%	87	87
Chemical Engineering	1,128	234	20.7%	82	80
Civil Engineering	1,965	192	9.8%	86	86
Computer Science	9,793	529	5.4%	152	152
Computer Science & Engineering	3,421	256	7.5%	74	74
Computer Engineering	1,441	34	2.4%	16	16
Electrical Engineering	1,650	240	14.5%	85	84
Materials Engineering	378	105	27.8%	40	39
Mechanical Engineering	3,824	318	8.3%	113	111
Undeclared Engineering	2,860	224	7.8%	105	103
<b>Total</b>	<b>31,373</b>	<b>2,519</b>	<b>8.0%</b>	<b>890</b>	<b>882</b>
<b>2020-2021</b>					
Aerospace Engineering	1,798	139	7.7%	59	57
Bioengineering	2,058	292	14.2%	59	59
Chemical Engineering	996	255	25.6%	65	63
Civil Engineering	1,655	201	12.1%	89	88
Computer Science	7,644	634	8.3%	118	118
Computer Science & Engineering	2,690	267	9.9%	71	71
Computer Engineering	1,115	60	5.4%	17	17
Electrical Engineering	1,401	254	18.1%	109	108
Materials Engineering	376	104	27.7%	27	27
Mechanical Engineering	3,188	284	8.9%	103	102
Undeclared Engineering	1,876	150	8.0%	42	41
<b>Total</b>	<b>24,797</b>	<b>2,640</b>	<b>10.6%</b>	<b>759</b>	<b>751</b>
<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>

\*As Reported by SEASnet on 11-17-21

**Undergraduate Transfer Admission Statistics\***

	<i>Applications</i>	<i>Admits</i>	<i>Admit Rate</i>	<i>Positive SJR</i>	<i>Enrolled</i>
<b>2021-2022</b>					
Aerospace Engineering	227	26	11.5%	16	16
Bioengineering	159	21	13.2%	8	8
Chemical Engineering	164	38	23.2%	16	16
Civil Engineering	257	50	19.5%	17	17
Computer Science	1,996	47	2.4%	29	29
Computer Science & Engineering	340	27	7.9%	9	9
Computer Engineering	207	13	6.3%	9	8
Electrical Engineering	339	115	33.9%	68	67
Materials Engineering	36	13	36.1%	2	2
Mechanical Engineering	572	109	19.1%	57	56
<b>Total</b>	<b>4,297</b>	<b>459</b>	<b>10.7%</b>	<b>231</b>	<b>228</b>
<b>2020-2021</b>					
Aerospace Engineering	211	20	9.5%	15	15
Bioengineering	137	19	13.9%	3	3
Chemical Engineering	181	50	27.6%	20	20
Civil Engineering	250	54	21.6%	17	17
Computer Science	1,700	76	4.5%	47	46
Computer Science & Engineering	359	24	6.7%	8	8
Computer Engineering	186	5	2.7%	4	4
Electrical Engineering	370	112	30.3%	60	56
Materials Engineering	40	14	35.0%	3	3
Mechanical Engineering	544	76	14.0%	34	34
<b>Total</b>	<b>3,978</b>	<b>450</b>	<b>11.3%</b>	<b>211</b>	<b>206</b>
<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>

\*As Reported by UCLA Admission November 2021



**Graduate Admission Statistics\***

	<i>Applicants</i>			<i>Admits</i>			<i>Enrolled</i>		
	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>
<b>2021-2022</b>									
Aerospace Engineering	143	85	228	72	31	103	23	13	36
Bioengineering	231	188	419	84	66	150	31	20	51
Chemical Engineering	78	135	213	21	21	42	16	15	31
Civil Engineering	144	254	398	122	152	274	63	65	128
Computer Science	780	3104	3,884	122	280	402	58	174	232
Electrical & Computer Engineering**	285	1448	1,733	173	311	484	85	207	292
Manufacturing Engineering	0	5	5	0	0	0	0	0	0
Materials Science & Engineering	67	187	254	44	111	155	13	61	74
Mechanical Engineering	210	422	632	126	183	309	46	66	112
MS Engineering Online	262	112	374	206	83	289	152	50	202
<b>Total</b>	<b>2,200</b>	<b>5,940</b>	<b>8,140</b>	<b>970</b>	<b>1,238</b>	<b>2,208</b>	<b>487</b>	<b>671</b>	<b>1,158</b>
% Foreign		72.97%			56.07%			57.94%	

	<i>Applicants</i>			<i>Admits</i>			<i>Enrolled</i>		
	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>
<b>2020-2021</b>									
Aerospace Engineering	110	53	163	66	17	83	27	4	31
Bioengineering	192	232	424	103	100	203	25	21	46
Chemical Engineering	79	220	299	23	13	36	15	9	24
Civil Engineering	131	255	386	113	150	263	48	35	83
Computer Science	485	2757	3,242	69	169	238	37	72	109
Electrical & Computer Engineering**	232	1621	1,853	152	427	579	52	95	147
Manufacturing Engineering	2	3	5	1	0	1	1	0	1
Materials Science & Engineering	84	218	302	51	101	152	13	10	23
Mechanical Engineering	197	532	729	133	211	344	45	42	87
MS Engineering Online	202	22	224	163	14	177	134	10	144
<b>Total</b>	<b>1,714</b>	<b>5,913</b>	<b>7,627</b>	<b>874</b>	<b>1,202</b>	<b>2,076</b>	<b>397</b>	<b>298</b>	<b>695</b>
% Foreign		77.53%			57.90%			42.88%	

	<i>Applicants</i>			<i>Admits</i>			<i>Enrolled</i>		
	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>	<b>Domestic</b>	<b>Foreign</b>	<b>Total</b>
<b>2019-2020</b>									
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	2,556	3,011	113	197	310	53	111	164
Electrical & Computer Engineering**	235	1,644	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>789</b>	<b>1,079</b>	<b>1,868</b>	<b>296</b>	<b>403</b>	<b>699</b>
% Foreign		77.45%			57.76%			57.65%	

\*As reported by go.grad.ucla.edu on 11/17/2021

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

## Undergraduate Enrollment

### Foreign Students, Minorities, and Women\*

	Total Enrolled	Females Enrolled	Percent Female	Minorities Enrolled	Percent Minorities	Foreign Enrolled	Percent Foreign
<b>2021</b>	4,081	1,219	29.9%	497	12.2%	455	11.1%
<b>2020**</b>	3,958	1,138	28.8%	435	11.0%	475	12.0%
<b>2019</b>	3,956	1097	27.7%	446	11.3%	495	12.5%

### Gender Breakdown by Major

B.S. Major	Male	Female	Unknown	% Female
Aerospace Engineering	192	62	0	24.4%
Bioengineering	137	171	2	55.2%
Chemical Engineering	159	152	1	48.7%
Civil Engineering	199	155	2	43.5%
Computer Engineering	92	25	0	21.4%
Computer Science	776	257	6	24.7%
Computer Science & Engineering	198	49	2	19.7%
Electrical Engineering	420	106	2	20.1%
Materials Engineering	86	55	2	38.5%
Mechanical Engineering	491	137	4	21.7%
Undeclared Engineering	90	50	1	35.5%
<b>Total</b>	<b>2,840</b>	<b>1,219</b>	<b>22</b>	<b>29.9%</b>

### Undergraduate Enrollment - Foreign & Domestic

B.S. Major	Domestic	Foreign	% Foreign
Aerospace Engineering	242	12	4.7%
Bioengineering	291	19	6.1%
Chemical Engineering	270	42	13.5%
Civil Engineering	344	12	3.4%
Computer Engineering	109	8	6.8%
Computer Science	865	174	16.7%
Computer Science & Engineering	226	23	9.2%
Electrical Engineering	451	77	14.6%
Materials Engineering	131	12	8.4%
Mechanical Engineering	574	58	9.2%
Undeclared Engineering	123	18	12.8%
<b>Total</b>	<b>3,626</b>	<b>455</b>	<b>11.1%</b>

\* As reported by the Office of Analysis and Information Management in November 2021

\*\*207 Students did not report an ethnicity

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



**Graduate Enrollment\***

**Foreign Students, Minorities, and Women**

	Total Enrolled	Females Enrolled	Percent Female	Minorities Enrolled	Percent Minorities	Foreign Enrolled	Percent Foreign
<b>2021</b>	2503	630	25.2%	198	7.9%	1310	52.3%
<b>2020</b>	2188	517	23.6%	183	8.4%	1088	49.7%
<b>2019</b>	2193	495	22.6%	155	7.1%	1214	55.4%

**Gender Breakdown by Major**

<i>M.S.</i>	<i>Fall 2021</i>			
	<i>Female</i>	<i>Male</i>	<i>Unknown</i>	<i>Total</i>
Aerospace Engineering	1	36	0	37
Bioengineering	24	27	0	51
Chemical Engineering	10	17	0	27
Civil Engineering	43	65	1	109
Computer Science	64	168	0	232
Electrical & Computer Engineering	57	239	1	297
Materials Science & Engineering	20	23	0	43
Manufacturing Engineering	0	0	0	0
Mechanical Engineering	9	67	0	76
Masters of Engineering	6	29	0	35
MS Engineering Online	134	345	0	479
<b><i>M.S. Sub-Total</i></b>	<b>368</b>	<b>1016</b>	<b>2</b>	<b>1386</b>

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

	<i>Fall 2021</i>			
	<i>Foreign</i>	<i>Domestic</i>	<i>Unknown</i>	<i>Total</i>
	8	29	0	37
	16	35	0	51
	12	15	0	27
	50	59	0	109
	161	71	0	232
	202	95	0	297
	33	10	0	43
	0	0	0	0
	35	41	0	76
	26	9	0	35
	29	450	0	479
	<b>572</b>	<b>814</b>	<b>0</b>	<b>1386</b>

<i>Ph.D.</i>	<i>Fall 2021</i>			
	<i>Female</i>	<i>Male</i>	<i>Unknown</i>	<i>Total</i>
Aerospace Engineering	6	32	0	38
Bioengineering	49	73	1	123
Chemical Engineering	23	54	1	78
Civil Engineering	33	70	0	103
Computer Science	47	149	1	197
Electrical & Computer Engineering	39	218	1	258
Materials Science & Engineering	31	90	0	121
Manufacturing Engineering	0	0	0	0
Mechanical Engineering	34	165	0	199
<b><i>Ph.D. Sub-Total</i></b>	<b>262</b>	<b>851</b>	<b>4</b>	<b>1117</b>

	<i>Fall 2021</i>			
	<i>Foreign</i>	<i>Domestic</i>	<i>Unknown</i>	<i>Total</i>
	9	29	0	38
	67	56	0	123
	42	36	0	78
	69	34	0	103
	147	50	0	197
	197	61	0	258
	79	42	0	121
	0	0	0	0
	128	71	0	199
	<b>738</b>	<b>379</b>	<b>0</b>	<b>1117</b>

***M.S. and Ph.D. Total***      **630**    **1867**    **6**    **2503**      **1310**    **1193**    **0**    **2503**

**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>2021</b>	1386	1117	572	738	814	379	1193	1310
<b>2020</b>	1100	1088	382	706	718	382	1100	1088
<b>2019</b>	1110	1083	479	734	631	349	980	1213

\*As reported by the Office of Analysis and Information Management in November 2021



**Degrees Awarded**

**Undergraduate Degrees Awarded by Major\***

	2018-2019	2019-2020	2020-2021
Aerospace Engineering	43	55	56
Bioengineering	72	59	80
Chemical Engineering	86	71	82
Civil Engineering	65	91	67
Computer Science	247	286	345
Computer Science & Engineering	52	51	59
Computer Engineering	4	21	34
Electrical Engineering	149	150	142
Materials Engineering	20	27	30
Mechanical Engineering	154	129	156
<b>B.S. Total</b>	<b>892</b>	<b>940</b>	<b>1051</b>

**Graduate Degrees Awarded by Major**

	2018-2019	2019-2020	2020-2021
Aerospace Engineering	7	16	6
Bioengineering	19	21	25
Chemical Engineering	9	6	22
Civil Engineering	95	75	67
Computer Science	161	130	138
MS Engineering Online	129	117	159
Electrical and Computer Engineering	209	114	166
Materials Science & Engineering	27	27	21
Mechanical Engineering	76	58	41
<b>M.S. Total</b>	<b>732</b>	<b>564</b>	<b>645</b>

	2018-2019	2019-2020	2020-2021
<b>Engineer Degree</b>	<b>0</b>	<b>1</b>	<b>0</b>

	2018-2019	2019-2020	2020-2021
Aerospace Engineering	3	3	4
Bioengineering	21	19	21
Chemical Engineering	17	22	16
Civil Engineering	13	8	23
Computer Science	24	20	30
Electrical Engineering & Computer	39	33	2
Materials Science & Engineering	23	24	32
Mechanical Engineering	18	31	16
<b>Ph.D. Total</b>	<b>158</b>	<b>160</b>	<b>144</b>

**Graduate Degree Total**                      **890**                      **725**                      **789**

\*As reported by the Office of Analysis and Information Management in November 2021



**Faculty FTE by Departments**

	<b>2019-2020</b>	<b>2020-2021</b>	<b>2021-2022</b>
Budgeted Faculty	218.21	218.21	218.21
Bioengineering	14.50	12.50	13.50
Chemical Engineering	13.50	15.00	15.50
Civil Engineering	20.00	22.00	23.50
Computer Science	36.67	38.17	38.17
Electrical Engineering	45.83	44.83	46.83
Mechanical & Aerospace Engr	36.00	36.00	36.00
Materials Science & Engineering	14.00	16.00	16.00
Biomedical Engineering IDP	0.00	0.00	0.00
	<b>180.50</b>	<b>184.00</b>	<b>184.00</b>
	<b><i>filled roster</i></b>	<b><i>filled roster</i></b>	<b><i>filled roster</i></b>
<b>Total</b>	<b><i>FTE</i></b>	<b><i>FTE</i></b>	<b><i>FTE</i></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.*